## **Hand Tools**

## **Latest Products from...**

# "Multicrimp" Crimping Pliers





See page 1862

# "Zyklop" Ratchet Sets





See page 1956

# **Clean Room Stainless Steel Pliers**





See page 1889

# **QUANTUMIKE Fast Action Micrometer**





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## **Tool Kits**

## **Electricians Toolkit 4720**

32 Pieces





Set Content:				
Mftrs. List No	Description	Mftrs. List No	Description	
806-1-1	Mains tester	8231	225mm slip joint plier	
BE-8010S	0.4 X 2.5mm Slotted 1000 volt	319	300mm Hacksaw frame	
BE-8220S	0.5 X 3.0mm Slotted 1000 volt	268	Junior hacksaw frame	
BE-8040S	0.8 X 4.0mm Slotted 1000 volt	9031	8" adjustable wrench 38mm wide opening jaw	
BE-8050S	1.0 X 5.5mm Slotted 1000 volt	428-16	16oz Fibre glass claw hammer	
BE-8800S	No 1 Pozi 1000 volt	484-1250	1250gm club hammer	
BE-8820S	No 2 Pozi 1000 volt	PC-12-VEN	Floorboard Saw (Veener Saw)	
BE-8830S	No 3 Pozi 1000 volt	1-210-08-2-2	Half round second cut file	
BE-8610S	NO 1 Philips 1000 volt	424P-16	16mm wood chisel	
BE-8620S	NO 2 Philips 1000 volt	424P-20	20mm wood chisel	
BE-8630S	NO 3 Philips 1000 volt	424P-25	25mm wood chisel	
4130	120mm side cutter	3834-ARBR-930	14-30mm arbor	
2101G-180	180mm side cutter	3830-20-VIP	20mm Holesaw	
2628G-180	180mm combination plier	3830-25-VIP	25mm Holesaw	
2430G-160	160mm snipe nose plier	3830-32-VIP	32mm Holesaw	
2233D-200	200mm cable cutter		Toolbox	

527	34	

			Price Per Set	
Set	Order Code	1+	3+	5+
4720	167-1607	275.00	259.00	249.00

## **Engineers Toolkit 4730**

25 Pieces







#### Set Content: Mftrs. List No Mftrs. List No Description Description BE-8010 0.4 x 2.5 Slotted 1435/5 M3-M18 Stud Extractor set BE-8020 0.5 x 3.0 Slotted 9045-B-250 250mm Engineers Square BE-8040 0.8 x 4.0 Slotted 111M/7T 8,10,13,14,17,19 & 22mm Span-3/8,7/16,1/2,9/16,5/8,11/16,3/4,& 7/8" Spanner Set BE-8150 1.0 x 5.5 Slotted 111Z/8T BE-8810 No 1 Pozi 7800DM-8 1/2" Drive 8mm Dynamic Drive Socket BE-8820 No 2 Pozi 7800DM-10 1/2" Drive 10mm Dynamic Drive Socket 1/2" Drive 13mm Dynamic Drive Socket BE-8830 No 3 Pozi 7800DM-13

Set Content:			
2101G-180	180mm side cutter	7800DM-17	1/2" Drive 17mm Dynamic Drive Socket
2628G-180	180mm combination plier	7800DM-19	1/2" Drive 19mm Dynamic Drive Socket
2800-150	12-25mm Internal circlip pliers	7800DM-24	1/2" Drive 24mm Dynamic Drive Socket
2900-150	10-25mm External circlip pliers	7800DM-30	1/2" Drive 30mm Dynamic Drive Socket
1420	470mm Pipe Wrench	7800DZ-3/8	1/2" Drive 3/8" Dynamic Drive Socket
8224	250mm slip joint plier	7800DZ-7/16	1/2" Drive 7/16" Dynamic Drive Socket
325	300mm Hacksaw frame	7800DZ-1/2	1/2" Drive 1/2" Dynamic Drive Socket
268	Junior hacksaw frame	7800DZ-9/16	1/2" Drive 9/16" Dynamic Drive Socket
9073P	12" Adjustable wrench with re- versible jaw	7800DZ-5/8	1/2" Drive 5/8" Dynamic Drive Socket
479-16	16oz Ball Pein Hammer	7800DZ-3/4	1/2" Drive 3/4" Dynamic Drive Socket
BE-9770	Metric Hexagon Key Set	7800DZ-7/8	1/2" Drive 7/8" Dynamic Drive Socket
BE-9780	Imperial Hexagon Key Set	8150-1/2	1/2" Drive Ratchet
1-473-08-2-2	3 Piece Engineer File Set	8160-1/2	1/2" 250mm extension bar
3735-4-120	120 x 4mm Centre Punch	8166-1/2	1/2" Universal Joint
3734S/6	2,3,4,5,6 & 8mm Drift punch set		Toolbox
3740-175	175 x 21mm Flat Chisel		

			Price Per Set	
Set	Order Code	1+	3+	5+
4730	167-1606	450.00	429.00	410.00

### **General Purpose Toolkit 4740**

17 Pieces







Set Content:			
Mftrs.	Description	Mftrs.	Description
List No		List No	
813-2.5-75	0.4 X 2.5mm Slotted	319	300mm Hacksaw frame
813-3-75	0.5 X 3.0mm Slotted	239	Junior hacksaw frame
813-4-100	0.8 X 4.0mm Slotted	9031	8" adjustable wrench 38mm wide open-
			ing jaw
813-5.5-150	1.0 X 5.5mm Slotted	428-16	16oz Fibre glass claw hammer
816-1-100	PZ1	300-14-F15/16-HP	Toolbox saw
816-2-125	PZ2	2817	Retractable Knife
2101G-180	180mm side cutter	1-210-08-2-2	Half round second cut file
2628G-180	180mm combination plier	Toolbox	
8224	250mm slip joint plier		

527345

		P	rice Per Set		
Set	Order Code	1+	3+	5+	
4740	167-1605	149.00	139.00	129.00	

## **Express checkout**



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#### **Electricians Pouch With Tools**







#### Set Content:

Electrician's Pouch

Quick Release Belt

3 Insulated screwdrivers for slotted head screws, for work on live equipment up to 1000 volts: 0.5x3.0x100mm: 0.6x3.5x100mm: 0.8x4.0x100

2 Insulated screwdrivers for Phillips PH-head screws, for work on live equipment up to 1000 volts:

2 Insulated screwdrivers for Pozidriv PZ head screws, for work on live equipment up to 1000 volts: PZ1 and PZ2

Side cutting plier

Wire stripping plier

239 Junior hacksaw frame, with 6" (150 mm), 32-TPI blade for metalworking

527350

		Price Per Set		
Set	Order Code	1+	3+	5+
4750-ETK	167-1604	92.00	87.40	82.80

#### **Premium Electricians Tool Kit**





- Everything the apprentice or new starter would need, featuring:
- Designed with Electrician's, Service Engineers and Technicians in
- The Extra heavy duty polyester case has 50 internal pockets and
- padded internal compartments Giving enough room to store the full premium tool kit
- Case has carry strap and shoulder strap
- Contents: 1 each of the following:
- VDE Combination Pliers 200m, VDE Snipe Nose Pliers 170mm, VDE Side Cutters 160mm
- VDE Slotted Screwdrivers 2.5x75, 4x100mm
- VDE PH1, PH2, PZD 1, PZD 2 Screwdrivers
- VDE Modulo 2 Screwdriver for size 2 terminal screws
- Junior Hacksaw, Fusion Tape Measure 5m, Electrician's Pocket Knife and VDE Main-
- Claw Hammer and Re-Threading Tool
- Dimensions: 430x190x320mm

448367

Mftrs.		Price	Each
List No.	Order Code	1+	5+
595003	128-3227	158.59	149.61

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#### Type 002101TL mounting box



Toolbox Front pocket made of a strong cowhide, outer edgreinforced, zinc-plated bottom,

- 1 combination pliers, length 180 mm 1 flat round pliers, length 160 mm
- 1 side cutters, length 160 mm 1 stripping pliers, length 160 mm
- 1 cable blade
- cable blade with hooked blade
- 1 safety slotted screwdriver in each case, 2.5 x 80 mm / 3.5 x 100 mm / 5.5 x 125 mm / 6.5 x 150 mm
- 1 safety cross-headed screwdriver in each case, PH 1/80 + PH 2/100 mm
- 1 slotted screwdriver in each case 6.0 x 125 mm, 6.5 x 150 mm
- 1 voltage tester 1 300 g fitter's hammer
- 1 bit gauge
- 1 electrician's bit 250 x 10 mm 1 mason's chisel 300 mm
- 1 PUK saw
- gypsum pan
- 1 water brush
- 1 40 mm painter's spatula
- 1 metre rule (with inches) 2 m

WFT336

			Price Each	
Mftrs. List No.	Order Code	1+	5+	10+
002101TL	876-082	217.00	210.50	204.00

### **69 Piece Tool Kit**





A 69 piece tool kit ideal for the household, supplied in a handy foldup blow moulded carry case.

## Contents:

- Junior hacksaw
- 150mm mini level
- 125mm x 250mm roofing square
- 3m measuring tape with rubber cover
- 16oz tubular hammer with rubber grip
- Ratchet screwdriver
- 60mm bit holder
- 200mm adjustable wrench with dipped handle
- 175mm (7") carpenter pencil
- 150mm (6") stainless ruler
- Trim knife with soft comfortable handle
- 2 x electric clips
- 150mm (6") combination pliers
- 150mm (6") long nose pliers

- 150mm (6") side cutting pliers
- 4 x screwdrivers with cushion grip:
- Slotted: 5 x 75mm, 6 x 100mm
- Phillips: PH1 x 75mm, PH2 x 100mm
- 9 x hex keys: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm
- 40 x 25mm bits:
- Slotted: 3, 3, 4, 4, 5, 5, 6, 6, 7, 7mm Phillips: PH0, PH1, PH2, PH2, PH2, PH3
- Pozidriv: PZ0, PZ1, PZ2, PZ2, PZ2, PZ3 - Torx: T10, T15, T20, T25, T27, T30, T40
- Square: S0, S1, S2, S2, S3
- Hex: 3, 4, 5, 6, 7mm

477636.452483

	Price Each			
Order Code	1+	5+	10+	20+
136-1386	16.27	15.11	14.10	13.22

Over 480,000 products online











## **Tool Kits - continued**

#### Starter Electricians Tool Kit





- Ideal for apprentices and new starters, all carried close at hand in the tool belt set, featuring:
- Extra Heavy Duty polyester tool belt with enough pockets to carry everything you need
- Designed to fit Waists 32-42"
- Padded construction for added comfort
- Dimensions: 1148 x155mm
- Contents: 1 each of the following: VDE Combination Pliers 200mm, VDE Snipe Nose Pliers 170mm, VDE Sidecutters 160mm
- VDE Slotted Screwdrivers, 2.5 x 75, 5.5 x 125, 6.5 x 150 mm
- VDE PZD 2, VDE Mainstester
- Junior Hacksaw, Fusion Tape Measure 5m, Electrician's Pocket Knife, Pocket level and the Tool belt

|--|

Mftrs.		Price	Each
List No.	Order Code	1+	5+
595001	128-3228	130.86	123.45

#### **Electricians Belt Set**





- Tough heavy-duty construction incorporating metal eyelets Long belt fits 32" 42" waists
- Extra wide for great comfort and support
- $4\,x$  loops for attachment to braces Securing clip to stop belt pulling through loops when loaded
- **NB: Tools Not Supplied**

448685.470077

Mftrs.		Price	Each
List No.	Order Code	1+	5+
T1715	128-3275	35.35	34.30

#### **Builders Belt Set**





- Tough heavy-duty construction incorporating metal eyelets Long belt fits 32" - 42" waists
- Huge array of pockets and carrying straps for those essential tools
- Self adjusting hammer loop
- Convenient metal tape clip
- Cordless drill holster with velcro strap
- Padded mobile phone pocket **NB: Tools Not Supplied**

Order Code 128-3274 35.35 34.30

**Price Each** 

#### **Electricians Tool Kit**

Mftrs

List No.

T1714





- Handy electricians tool wallet Dimensions(WxHxD): 244x345x50mm
- Contents: 1 each of the following:
- VDE Combination Pliers 160mm,
- VDE Slotted Screwdrivers, 0.8 x 4.0,0.5x3.0mm
- VDE PZD 2, VDE Mainstester
  - Softech Tape Measure 5m, Electrician's Scissors, Pocket level and re-threading tool

Mftrs.		Price	Each
List No.	Order Code	1+	5+
595002	128-3229	74.51	70.30

#### Tool Box, 7 parts For electrical contractors





- High quality, versatile, shock-resistant plastic case
- Foam insert with honeycomb structure for variable equipment
- Outside dimensions (H x W x D): 65 x 327 x 275 mm

Oddiside difficisions (11x W x b): 66 x 621 x 216 mm					
Inhalt:					
Mftrs. Part No.	Description	Length	Order Code		
03 06 180	Combination Pliers	180mm	348-3344		
26 16 200	Snipe Nose Side Cutting Pliers, Stork Beak Pliers	200mm	348-3411		
70 06 160	Diagonal Cutter	160mm	348-3460		
88 03 180	Water Pump Pliers	180mm	916-8460		
WERA 6100	Screwdriver, for slotted screws 0,4x2,5mm		311-0588		
WERA 6115	Screwdriver, for slotted screws 0,8x4,0mm		311-0618		
WERA 6152	Insulated Screwdriver, for cross recessed screws PH1		311-0552		
			404636		

				Price Each	ı
	Mftrs. Part No.	Order Code	1+	5+	+
Tool Box	00 21 15	413-2105	75.30	73.05	

#### **Tool Pocket**

www.farnell.co.uk



- Universal pliers.
- Stripping pliers,
- Side-cutting pliers,
- Needle pliers,
- Long-nose pliers flat,
- Long-nose pliers round, Heavy-duty end-cutting pliers,
- Side-cutting pliers,
- x Slot: 2.8/4.0,
- x Cross: PH1

WET317

CNIPE

	Price Each			
Mftrs. List No.	Order Code	1+	5+	10+
00 19 41	875-922	116.00	112.50	109.05

#### 16 Piece Service Toolkit



A 16pc service toolkit of high quality tools contained in a zipped wallet. Tools for maintenance and repair as well as precision work. Tools included are pliers, cutters, screwdrivers, adjustable wrench, tweezers, knife and tape measure.

(ergo

**LINDSTROM** 

356940

BAHCO

ProsKit°

New

ProsKit°

Size 40 x 310 x 220mm 1 885 kms

Price Each

#### Professional 'Ergo' Engineers Tool Kit



A set of high quality true ergonomic hand tools from Bacho Sweden. Ideal for the professional service, repair or maintenance engineer who wants the best comfort and performance from their tools.

All tools have ergonomic non-slip handles and come supplied in a strong plastic wallet.

Contents		Overall Length
Pliers	Combination pliers	160mm
	Long nose pliers	160mm
Cutters	Side cutters	160mm
Adjustable Wrenc	h (Reversible)	150mm
Screwdrivers	Slot 50 x 3.0mm	152mm
	Slot 75 x 7.5mm	197mm
	Slot 100 x 5.5mm	222mm
	Phillips 75mm No.1	197mm
	Phillips 100mm No.2	222mm

		222888
Mftrs. List No.	Order Code	Price Each 1+
9845	310-5600	94.00

## **Maintenance Tool Kit**

Digital Multimeter

VDE Side Cutter

40W Soldering Iron

Soldering Tip Cleaner Desoldering Pump VDE Combination Pliers

VDE Long Nose Pliers

Mains Tester



A well equipped tool kit for the maintenance engineer Supplied in a durable, soft



Exclusive to Farnell

VDE Cable Stripper Electrician Scissors Utility Knife 2 VDE Slot Screwdrivers: 3.0, 5.5 2 VDE Phillips Screwdrivers: PH1, PH2 Ball-Point Hex Key Set: 2.5, 3, 4, 5, 6, 8, 10 2 PCS Tweezer Set Utility Component Storage Box Adjustable Wrench

					52581	4
				Price Each		
Description	Mftrs. List No.	Order Code	1+	5+	10+	
Tool Kit (sold. iron with UK plug)	PK-2807C-40	166-6227	61.40	58.32	55.25	
Tool Kit (sold. iron with EU plug)	PK-2807B-40	166-6229	61.40	58.32	55.25	

#### **Maintenance Kit**



A 20 piece tool kit designed for the maintenance engineer. Supplied in a durable, soft nylon zipper case. Dimensions: 305x215x45mm. Contents:

- 3m (10') steel tape measure with spring return and lock
- 40W Soldering iron
- Flat and round needle files. Length: 170mm
- Insulation tape
- Slotted (flared) screwdrivers: 3mmx75mm, 6mmx100mm
- Phillips screwdrivers: No 0, 1, 2
- Nutspinner: 3/16

- Neon mainstester screwdriver
- 7 Piece pocket hexagonal key set: 1.3, 1.5. 2. 2.5. 3. 4. 5mm
- Alignment/trimming tool
- Utility knife with retractable blade
- 6" Adjustable wrench
- 6" Long nose pliers 6" Side cutters
- 6" Combination pliers
- 6" Slip joint pliers

496056.269446

		Price	Each
Mftrs. List No.	Order Code	1+	3+
1PK-618-NA	149-4157	28.60	27.16

#### **Compact Service Tool Kit**



ProsKit°

A useful 10 piece tool kit suitable for small general purpose, mechanical and electrical work. Supplied in a soft nylon zipper case. Dimensions: 190x95x30mm.

- 4.5" Side cutters manufactured from high carbon steel. The jaws are sprung providing excellent cutting action.
- 5" Long nose precision pliers with sprung, serrated jaws that provide excellent grip.
- Precision, straight point tweezers manufactured from stainless steel. Length: 125mm.
- Retractable blade craft knife.
  Screwdrivers with break resistant, cellulose acetate handles and chrome vanadium steel blades. Slotted (flared) - 3mmx75mm, Phillips - No 0.
- Precision screwdrivers with revolving tops and finger grips. Slotted 2mmx75mm, Phillips -No 00x75mm.
- Round, half round needle files. Length: 170mm.

496042 269440

Price Each			
Mftrs. List No.	Order Code	1+	5+
1PK-301-WDM	152-2406	10.30	9.26

#### All In One Tool Kit







525429

DRAPER

Content (166-6214) Long nose plier 150mm Adjustable wrench 6" Flexible extension: 190mm(L) Magnetic bit adaptor: 60mm(L) Socket adaptor Rits:

-Phillips: 1,2,3

-Slotted: 1/8", 5/32", 3/16", 1/4", 9/32" -Pozidriv: PZ1, PZ2, PZ3

-Hex: H5/64", H3/32", H1/8", H5/32", H3/16", H7/32", H1/4" -SafetyTorx: T-10 / T-15 / T-20 / T-25 /T-27 / T-30 / T-40

-Square: S1, S2, S3

Drill bits: 1/16", 3/32", 1/8", 5/32", 3/16"

Multi-angle ratchet handle 18ncs socket set:

3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"(inch)5, 6, 7, 8, 9, 10, 11, 12, 13(mm)

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
All In One Tool Kit (Inch)	1PK-943	166-6214	25.11	23.88	22.60
All In One Tool Kit (metric)	1PK-943B	166-6215	25.11	23.88	22.60

## Mechanics



H=205, W=530, D=200







## **Tool Kits - continued**

#### **Mechanics - continued**

A high quality mechanics tool kit containing a good selection of tools suitable for maintenance or fitting. 96 pieces supplied in a strong cantilever tool box.



560mm cantilever tool box 42 piece AF/MM 12.7mm (1/2") drive socket set 6 piece screwdriver set 7 piece metric hexagon set 7 piece imperial hexagon set 14 piece metric spanner set 8mm to 32mm 12.7 mm impact driver set

180mm combination pliers

160mm radio pliers

130mm side cutters Set of 3 hand files Oil filter wrench 450g ball pein hammer Rubber mallet Wire brush Trimming knife + blades Junior hacksaw + blades 240mm tinman's shears Tyre pressure gauge Feeler gauges

222799

	Price Each
Order Code	1+
559-313	259.54

Heavy Screwdriver/Spanner Module





This module includes:

Slot, 200 6.5mm blade Slot, 250 9.5mm blade

Phillips, 100mm blade No.2 point

281-130 Chubby Pozidriv, 25mm blade No.2 point 281-165 Pozidriv, 150mm blade No.3 point

300mm Adjustable Spanner 281-311 254mm Self Grip Wrench

281-487 267-028 105-218 708-7615

**FARNELL** 

		Price Each
Heavy screwdriver/	Order Code	1+
spanner module	281-797	62.10

## **Engineers' Deluxe Case Kit**



H=146, W=483, D=356

Note: Tool case and contents may be subject to minor substitutions to ensure availability.

Contents:		pack of 10	
Screwdrivers		Needle files, precision, set of 6	442-719
Slot 102 3.2mm blade Slot 100 6mm blade Slot 150 5mm blade Slot 150 6.5mm blade Slot, mains tester, 150/250V ac Pozidriv, 80mm blade No.1 point	281-104 281-232 281-116 108-753 281-384	150mm flat, Bastard cut, file 150mm round, Bastard cut, file 6.35mm Masonry drill HSS drills, set of 13, 1.59mm to 6.35mm Boxed 'T' handle reamer, 3.1mm	222-069 222-094 =1 100-605 443-062
Pozidriv, 100mm blade No.2 point  Cutting/Drilling	281-396	to 12.7mm Grippers/Spanners/Wrenches	
Light duty CK cutters Heavy duty CK cutters Wire stripper/cutters		Tweezers, pointed end, straight Snipe nose pliers, fine point,	441-156 440-607
Retractable blade knife, including 2 blades		Combination pliers, 150mm long Adjustable spanner, 150mm long	263-590 105-215
Medium duty knife Spare blades for above, pack of 5 Junior hacksaw Spare junior hacksaw blades,		"Mole" style grips, 197mm long Allen keys, set of 8, ½16" to ½" AF	442-458 109-235 109-232

**Soldering**Portasol Professional, portable gas soldering iron kit Grippers/Spanners/Wrenches Spanners, set of 6, 4mm to 11mm Nutdriver, 5.5mm A/F - M3 thread 108-819 281-645 106-601 Nutdriver, 7mm A/F - M4 thread Nutdriver, 8mm A/F - M5 thread 146-706 281-669 Solder dispenser 281-670 419-011 Desoldering gun 281-682 Solder sucking wick, 1.5m 2.2mm, flux impregnated Nutdriver, 10mm A/F - M6 thread 252-499 Measuring/Marking 150mm steel rule mm and decimal 443-268 Miscellaneous inches (1/10ths) 3m metric/imperial tape rule Inspection mirror, swivel head and =1extension handle Scriber, double ended Centre punch, square head, Brass wire brush Hammer, 227g ball pein, graphite 628-888

Note: Soldering iron is NOT supplied with gas

3.1mm point

TEE5X/223012,401701

	Order Code	Price Each 1+
Tool kit complete with case	281-840	476.61
Tool case only	440-103	131.00

Tool case

#### **Engineers' Standard Case Kit**

**FARNELL** 



H=146, W=483, D=356

Note: Tool case and contents may be subject to minor substitutions to ensure availability.

Contents:		Circlip pliers, external type	722-1058
Screwdrivers		Adjustable spanner, 150mm long,	105-215
Slot 64 3.2mm blade	441-442	20mm opening	
Slot 102 3.2mm blade	441-454	Allen keys, set of 8, 1/16" to 1/4" AF	109-235
Slot 100 5mm blade	281-219	Allen keys, set of 7, 1.5mm to 6mm	109-232
Slot 150 5mm blade	281-232	Spanners, set of 6, 4mm to 11mm	108-819
Slot 150 6.5mm blade	281-116	Nutdriver, 5.5mm A/F - M3 thread	281-645
Slot, mains tester, 150/250V ac	108-753	Nutdriver, 7mm A/F - M4 thread	281-669
Phillips, 80mm blade No.1 point	281-300	Nutdriver, 8mm A/F - M5 thread	281-670
Phillips, 100mm blade No.2 point	281-311	Nutdriver, 10mm A/F - M6 thread	281-682
Pozidriv, 80mm blade No.1 point	281-384	Measuring/Marking	
Pozidriv, 100mm blade No.2 point	281-396	150mm steel rule metric/imperial	443-244
Cutting/Drilling		divisions	
Light duty Lindstrom cutters	440-140	Scriber, double ended	=1
Wire stripper/cutters	440-759	Automatic centre punch	443-050
Junior hacksaw	442-641	Feeler gauge, dual metric/imperial	108-344
Spare junior hacksaw blades,	100-608	Soldering	
pack of 10		Portasol Professional, portable gas	106-601
Conecut 6 to 20mm	100-677	soldering iron kit	
'T' handle reamer, 3.1mm to 12.7mm	443-062	Solder dispenser	146-706
Grippers/Spanners/Wrenches		Desoldering gun	419-011
Snipe nose pliers, 127mm long	440-577	Miscellaneous	
Snipe nose combination pliers	263-576	Tool case	109-252
Combination pliers, 150mm long	263-590		202

Note: Soldering iron is NOT supplied with gas

232196

	Order Code	Price Each 1+
Tool kit complete with case	281-839	428.67
Tool case only	440-103	131.00

## **Troubleshooting tips**



Chat live online to one of our technical engineers at www.farnell.co.uk



## **Standard Case Kit**



H=121, W=419, D=305

Note: Tool case and contents may be subject to minor substitutions to ensure availability.

Contents:		Snipe nose pliers, 127mm long	440-577
Screwdrivers		Snipe nose combination pliers	263-576
Slot 64 3.2mm blade	441-442	Combination pliers, 150mm long	263-590
Slot 102 3.2mm blade	441-454	Adjustable spanner, 150mm long,	105-215
Slot 100 5mm blade	281-219	20mm opening	
Slot 150 5mm blade	281-232	Spanners, set of 6, 4mm to 11mm	108-819
	281-116	Nutdriver, 5.5mm A/F - M3 thread	281-645
Slot, mains tester, 150/250V ac	108-753	Nutdriver, 7mm A/F - M4 thread	281-669
Phillips, 80mm blade No.1 point	281-300	Nutdriver, 8mm A/F - M5 thread	281-670
Phillips, 100mm blade No.2 point	281-311	Nutdriver, 10mm A/F - M6 thread	281-682
Pozidriv, 80mm blade No.1 point	281-384	Measuring/Marking	
Pozidriv, 100mm blade No.2 point	281-396	150mm steel rule metric/imperial	443-244
Cutting/Drilling		divisions	
Light duty cutters	723-8393	Soldering	
Wire strippers/cutters	440-759	Portasol, portable gas soldering iron	148-636
Junior hacksaw	442-641	Solder dispenser	146-706
Spare junior hacksaw blades,	100-608	Desoldering gun	419-011
pack of 10		Miscellaneous	
Grippers/Spanners/Wrenches		Tool case	109-252
urippers/opamiers/wreliches			

Note: Soldering iron is NOT supplied with gas, see Order Code 200-001

	Order Code	Price Each 1+
Tool kit complete with case	281-827	335.22
Tool case only 38mm laminated/split foam	440-097	112.90

#### **Basic Case Kit**



H=121, W=419, D=305

Note: Tool case and contents may be s	subject to	minor substitutions to ensure availability.	
Contents: Screwdrivers	,	Combination pliers, 150mm long Adjustable spanner, 150mm long, 20mm	263-590 105-215
Jeweller's',3 slot and Phillips 0, 00, 1 Slot 102 3.2mm blade		Spanners, set of 6, 4mm to 11mm  Measuring	108-819
Slot 150 5mm blade Pozidriv, 80mm blade No.1 point	281-232	300mm steel rule, metric/imperial Soldering	109-165
Pozidriv, 102mm blade No.2 point <b>Cutting</b>		24W, 480°C, 240V soldering iron Solder dispenser	146-706
Light duty cutters Heavy duty CK cutters	202-332 263-540	Solder sucking wick, 1.5mm 2.2mm, flux impregnated	252-499
Retractable blade knife, including 3		Miscellaneous	
Junior hacksaw	442-641	13A plug (for soldering iron), 3A fuse	964-396
<b>Grippers/Spanners</b> Snipe nose combination pliers	263-576	Tool case	109-251
			222840,401846

		222040
		Price Each
	Order Code	1+
Tool kit complete with case	281-815	215.66
Tool case only	109-251	76.71

## **Tool Roll Kits**

**FARNELL** 

222860

multicomp



The 281-852 is a general purpose tool kit with sufficient tools for most office, workshop and maintenance applications including the home and car.

The 281-864 is a more comprehensive kit having twice as many tools as the TRK1 to cope with more varied maintenance applications. The tools chosen are not specific to any one industry and hence offer a very usable selection in many situations.

281-852 Contents: Screwdrivers Slot, 100 5mm blade Slot, 150 5mm blade Slot, mains tester, 150/250V ac Phillips, 80mm blade No. 1 point Phillips, 80mm blade No. 1 point Pozidriv, 100mm blade No 2 point Cutting Heavy duty CK cutters Junior hacksaw	281-219 281-232 108-753 281-293 281-300 281-396 263-540 442-641	Gripping/Spanners/Wrenches Snipe nose combination pliers Combination pliers, 152mm long Adjustable spanner, 203mm long, 27mm opening Adjustable grip wrench 240mm long, 45mm opening Miscellaneous Tool roll	263-576 263-590 105-216 108-355 105-381
281-864 Contents:		Tweezers, round point, straight, 152mm long	441-200
Screwdrivers		Snipe nose combination pliers	263-576
Slot,100 5mm blade	281-219	Combination pliers, 152mm long	263-590
Slot, 150 5mm blade	281-232	Allen keys, set of 7, 1.5mm to 6mm	109-232
Slot, mains tester, 150/250V ac	108-753	Combination spanner, ring/open,	105.005
Phillips, 60mm blade No. 0 point Phillips, 80mm blade No. 1 point	281-293 281-300	set of 5, 5mm to 10mm Adjustable spanner, 203mm long,	105-965
Pozidriv, 100mm blade No 2 point	281-396	27mm opening	105-216
Cutting		Adjustable grip wrench 240mm long,45mm opening	108-355
Heavy duty CK cutters	263-540	Crimp tool for red, blue, and yellow insulated crimps	150-353
Retractable blade knife, including 2 blades	610-045	Measuring	
Junior hacksaw	442-641	152mm steel rule, mm and decimal inches (1/10 ths)	443-268
Needle files, precision, set of 6	442-719	3m metric/imperial tape rule	628-815
Gripping/Spanners/Wrenches		Tool roll	105-382

Note: Tool Kits and contents subject to design change.

441-132

Gripping/Spanners/Wrenches Tweezers, pointed tip, straight, 120mm long

	222598
Order Code	Price Each 1+
281-852	100.66
281-864	195.51

#### **Tool Wallet Kits FARNELL**



The 281-876 is a compact tool wallet kit populated with high quality tools for the smaller precision applications.

The 281-888 is a tool wallet kit with a very high density of carefully chosen tools suitable for most electronic applications.







## **Tool Kits - continued**

#### **Tool Wallet Kits - continued**

281-876 Contents:			
Screwdrivers/Trimmers		Gripping/Spanners	
Potentiometer trimmers	145-307	Tweezers, pointed tip, straight, 120mm long	441-132
Slot,100 5mm blade	281-219	Tweezers, round point, straight, 150mm long	441-200
Slot, mains tester, 150/250V ac	108-753	Seizers, straight nosed, serrated jaw 150mm Long	202-710
Phillips, 80mm blade No. 1 point Pozidriv, 100mm blade No 2 point	281-300 281-396	Snipe nose combination pliers Combination spanners ring/open, set of 6.5mm to 10mm	263-576 105-965
Cutting		Miscellaneous	
Light duty side cutters	108-714	Torch	538-050
Wire stripper/cutter	440-759	Tool wallet	105-383
281-888 Contents:		Flat nose pliers	108-717
Screwdrivers/Trimmers		Combination pliers, 152mm long	263-590
Potentiometer trimmers set of 3	145-507	Crimp tool for red, blue, and yellow insulated crimps	150-353
Slot.100 5mm blade	281-219	Adjustable spanner, 150mm long,	
Slot, 150 5mm blade	281-232	20mm opening	105-215
Slot, mains tester, 150/250V ac	108-753	Combination Spanners, ring/open set of 6.5mm to 10mm	105-965
Phillips, 80mm blade No. 1 point	281-300	Measuring/Marking	
Pozidriv, 100mm blade No 2 point	281-396	150mm steel rule, mm and decimal inches (1/10 ths)	443-268
Cutting		3m metric/imperial tape rule	628-815
Light duty side cutters	108-714	Solderina	
Retractable blade knife, including 2	610-045	Solder dispenser	146-706
blades			
Wire stripper/cutter	440-759	Tip tinner/cleaner	419-631
Gripping/crimping/spanners		Desoldering gun, miniature	143-919
Tweezers, pointed tip, straight, 120mm long	441-132	Miscellaneous	
Tweezers, round point, straight, 150mm long	441-200	Inspection mirror, swivel head extension handle	724-6298
Seizers, Straight nosed, serrated jaw, 152mm long	202-710	Torch	538-050
jum, rozmini iong			

Order Code	Price Each
281-876	130.11
281-888	270.60

263-576

Note: Tool kits and contents subject to design change.

#### Service Engineer's Tool Kit

Snipe nose combination pliers



A comprehensive tool kit designed for the mobile service engineer. Supplied in a ro-



ProsKit°

105-384

TFF11X/222618.401947

bust, aluminium case with two removable tool pallets, key locks and corner guards. Dimensions: 460x333x130mm. Contents:

- 40W soldering iron
- Component storage box
- Multimeter
- Hobby vice with 'G' clamp
- Mini vacuum cleaner
- Soldering aid set Insulation tape
- Soldering iron stand
- Neon mainstester screwdriver 6" Stainless steel scissors
- Miniature torch
- Slotted (flared) screwdrivers: 5mmx38mm, 5mmx75mm, 5mmx150mm, 6mmx100mm, 6mmx150mm
- Nutspinners: 1/4", 3/16"
- Antistatic wrist strap
- Insulated IC extractor
- Phillips screwdrivers: No 1x38mm, No 1 x 75mm, No 2x100mm
- 10 Piece metric combination wrench set (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10 and 11mm)
- Torx screwdriver: with T10/T15 reversible bit
- Desoldering pump

Mftrs List No.

1PK-900-NC

9.5" 5 way crimping tool with integral

- 5 piece needle file set
- 7 Piece pocket hexagonal key set: 1.3, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0mm
- 9.5" Crimping tool
- 8" Combination pliers
- Small component pick up tool
- 5" Bent nose pliers
- VDU, keyboard cleaning solution
- 5" Flat nose pliers
- 6" Tweezers
- 6" Diagonal cutters
- Utility knife with retractable blade 5" Side cutters
- 6" Adiustable wrench
- Long precision screwdrivers colour coded:Slotted: 2.4x75mm, 3.0x100mm, 3.8mm x Phillips: 2.4mm diax75, 3.0mm diax100mm, 3.8mm diax100mm
- 5" Long nose pliers
- Head cleaning fluid

#### **Electronic Master Tool Kit**



Alignment/trimming tool

- Soldering aid set
- Insulation tape
- Soldering iron stand
- Neon mainstester screwdriver 7" Stainless steel scissors
- Miniature torch
- Slotted (flared) screwdrivers: 3mmx75mm, 5mmx75mm, 6mmx100mm
- Nutspinners: 1/4", 3/16"
- Insulated IC extractor
- Phillips screwdrivers: No 0, 1, 2
- 3m (10') steel measuring tape
- 4 way crimping tool with integral cutter
- Needle file set
- Desoldering pump
- Antistatic brush
- 5" and 6" Snipe nose pliers
- Small component pick up tool



40W soldering iron

Component storage tube

mensions: 460x330x115mm.

A tool kit containing a wide range of tools associated with electronic engineering and servicing activities. Supplied in an attractive brief case with hinge locks and corner guards. Ideal for the mobile engineer. Di-

- Solder and solder braid
- 5" Bent nose pliers 6" Tweezers

Contents:

- ě 9.5" Water pump pliers
- Utility knife with retractable blade
- 5" Side cutters
- Inspection mirror
- 6" Adjustable wrench
- Lubricating Oil
- 5" Miniature long nose pliers
- 8" Combination pliers
- 6 Piece open ended spanner set
- 6" Diagonal cutters 9.5" Crimping tool
- Carpenter's hammer
- Precision watchmakers screwdriver set
- Component box
- 7 Piece pocket hexagonal key set: 1.3, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0mm
- 6" Cutting pliers

496057.269456

ProsKit°

		Price	Each
Mftrs. List No.	Order Code	1+	3+
1PK-700N	149-4158	93.43	81.60

#### **Electronic Tool Kit**

Content (166-6221)

Lineman's plier 210mm

Long nose plier 150mm

Side cutting plier 165mm

Soldering iron 40W 220V

Utility knife (3 blades self loading)

Professional multimeter Measuring tape(3M/10FT) Solder core 63%, SN

Adjustable wrench 6'

5pcs needle file set

7pcs hex key set

Wire stripper cutter

Electrician's scissors Solder aid tools

Long nose plier 135mm Diagonal cutting plier 110mm



ProsKit°

New

Desoldering pump 10pcs electronic combination wrench Flux bottle (2pcs/pack) Blow brush (ø62mm) IC extractor Slip joint plier 154mm 9 Pro-soft screwdrivers: 3.0 x75mm, #0 x75mm, 5.0 x75mm, #1 x75mm, 6.0 x100mm, #2 x100mm, #2 x250mm, 6.0x40mm, #2 x40mm 6 pcs electronic screwdriver set Soldering tip cleaner Super fine tip straight
Utility component storage box Hobby Vise Pallet for PK-5307

Aluminum frame tool case w/1 pallet

525683

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Tool Kit (sold. iron with UK plug)	PK-5307CM-40	166-6221	80.98	76.88	72.88
Tool Kit (sold, iron with EU plug)	PK-5307BM-40	166-6222	80.98	76.88	72.88

#### **Electronics Tool Kit**



ProsKit°

An advanced tool kit containing everything necessary for today's electronics engineer supplied in a heavy duty rigid case with strong sides, carry handles and rounded measuring 312x216x89mm (LxWxD). The kit contains:

- 5" (125mm) diagonal cutting nipper
- 5" (125mm) snipe nose pliers 6" (150mm) slant edge cutting nippers
- 6" (150mm) long nose pliers





www.farnell.co.uk

Price Each Order Code 149-4159 99 32 93.59

Image may differ from products supplied – see contents above for accurate list of products

ProsKit°

- 7 in 1 crimp tool (0.9-5.5mm<sup>2</sup>)
- 3 Crystal line colour screwdrivers phillips (3x75, 5x75, 6x100mm)
- 3 Crystal line screwdrivers Slotted (3x75. 5x75, 6x100mm)
- Utility knife (snap off blades)
- Stainless tweezers (51/2")
- 1 Roll PVC tape
- 7 piece folding hex wrench (1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0)
- 6" Stainless steel scissors
- 2 Piece needle file set (round & flat)
- 3 Piece soldering aid kit Utility component storage box
- (165x90x45mm)
- Soldering iron stand 60/40 Rosin core solder
- Desolder pump
- Digital multimeter AC/DC voltage DC current resistance diode/transistor tester
- Interior tool tray
- 40W Soldering iron

496060.269434

		Price	e Each
Mftrs. List No.	Order Code	1+	3+
1PK-710K	149-4161	61.90	58.32

#### **Electronic Tool Kit**



A well equipped tool kit for

- the electronics engineer Supplied in a sturdy zipper case
- Exclusive to Farnell

## ProsKit°



2 SMD Tweezers

Micro-Cutting Plier Clean Cut Micro Nipper Heavy Duty Long Nose Plier Desoldering Pump Solder Aid Tool Kit Slot Screwdrivers 2.0mm, 2.5mm, 3.0mm Phillips Screwdrivers PH0, PH00 Tamperfree Torx Screwdrivers T5, T6, T7, Extremely Fine And Sharp Tip Tweezer Super Fine Tip Straight Tweezer

4 PCS Plastic Tweezer Set Precision Knife 40W Soldering Iron Soldering Tip Cleaner Helping Hand with Soldering Stand 3 PCS Anti-Static Alignment Tool Kit Quick-Fasten ESD Wrist Band Vacuum pick-up Tool PLCC Extractor

IC Extractor Inspection Mirror Flux Bottle

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Tool Kit (sold. iron with UK plug)	PK-4025C-40	166-6225	71.65	68.06	64.52
Tool Kit (sold. iron with EU plug)	PK-4025B-40	166-6226	71.65	68.06	64.52

### **Electronic Maintenance Tool Kit**





ProsKit°

525810

Content (166-6219) Side cutter 125mm Long nose plier 138mm 3pcs soldering aid tools Dual color long nose plier 165mm Cabling splicing knife Adjustable wrench 8"

Soldering iron 220V DMM with mechanical prevent mistaken operation 8 Line color screwdrivers: 3.2x75mm, #0x75mm, #1x75mm, 3.2x100mm,

6.0x100mm, 6.0x38mm, #2x38mm, 8.0x150mm Desoldering wick 6ncs electronic screwdriver set

Multi-purpose crimping tool Mini flash light

Inspection mirrow Pallet for 1PK-9385 serious Top pallet for 1PK-9385 serious Deluxe carry bag with 2 pallets of 1PK-9383

Super torque ratchet handle 4pcs Hex driver blades: 1/16", 5/64", 3/32", 1/8'

7pcs nut driver blares: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"

Double ended screwdriver 3mm/#0 Electrician's scissors

10pcs electronic combination wrench

Driver blade T10 Driver blade T15

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Tool Kit (sold. iron with UK plug)	1PK-9385C-40	166-6219	128.13	121.98	115.31
Tool Kit (sold. iron with EU plug)	1PK-9385B-40	166-6220	128.13	121.98	115.31

## Help us to help the environment



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#### Technician's Tool Kit

3 Piece soldering aid kit 6[inch] Reverse action stainless steel

Small cleaning brush 6 Piece precision screwdriver set

7 in 1 tool

2xPhilips)

IC extractor tool

150mm flash light

Screwdriver handle

4.5[inch] Stainless steel tweezers

Utility knife with snap off blade Anti-static elasticated wrist strap

5 Piece 175mm double ended screw-



An advanced tool kit containing everything necessary for today's electrical technician. Supplied in a heavy duty case with strong rigid sides and promeasuring corners, 440x320x100mm (LxWxD). The kit

- 40w Soldering iron
- 5 Piece needle file set
- PLCC extraction tool
- 7 piece folding hex wrench (1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0)
- Three prong pick-up tool
- 8[inch] Adjustable wrench 5[inch] cutting pliers
- 5[inch] long nose pliers
- 4.5[inch] flat nose pliers
- 4.5[inch] bent nose pliers
- 8[inch] linesman combination pliers 7[inch] wire strippers (0.9[ENdash15.5mm2)
- 13[inch] Deluxe desoldering pump
- 60/40 Rosin core solder
- Heat sink
- drivers and nut driver (4xTorx, 2xSlotted, Carrying strap Mini hammer set including 4 separate

## Image may differ from products supplied – see contents above for accurate list of products

		Price	Each
Mftrs. List No.	Order Code	1+	3+
1PK-2002C	149-4160	65.32	61.56

#### **Professional Electronic Tool Kit**





#### Content

Lineman's plier 165mm Side Cutter 125mm Long nose plier 150mm Soldering iron stand with sponge Desoldering pump Soldering iron 220V

8 Line color screwdrivers: 3.2x75mm, #0x75mm, 5.0x75mm, #1x75mm, 6.0x100mm, #2x100mm, nut 3/16", nut 1/4"

6Pcs Electronic screwdriver set Professional multimeter
7pcs Folding type hex key set (inch) or (metric) PVC insulated tape Solder core 63%, SN Carrying zipper bag

ProsKit°

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Tool Kit (sold. iron with UK plug)	1PK-616C-40	166-6217	50.23	47.71	45.20
Tool Kit (sold. iron with EU plug)	1PK-616B-40	166-6218	50.23	47.71	45.20

#### Telecommunications Tool Kit



A well equipped tool kit for installation and maintenance of telecom equipment. All the tools are manufactured from quality materials and the kit is supplied in a deluxe case, complete with two removable tool holders and three external pockets to store paperwork, or other hand tools.

- 150mm adjustable wrench
- Anti-static strap 155mm cable splicing knife
- DB25 gender changer (male-male)
- DB25 gender changer (female-female) D-SUB insertion/extraction tool
- 125mm locking pliers







## **Tool Kits - continued**

#### **Telecommunications Tool Kit - continued**

- 125mm long nose pliers
- 125mm side cutters
- 125mm electricians scissors
- 3.5mm hand drill
- Mini torch
- Inspection mirror
- Precision wire stripper
- Pocket clip
- Punch down tool with 66/110 blade
- Rotary coaxial cable stripper
- 125mm straight forceps
- Telecom tester
- Cable tie gun

Tone probe not included. See Test section

- Utility knife
- 40W Soldering iron
- 13 component storage box
- 7 x Nutdriver bits (1/4" hex): 5, 6, 8, 9, 10,
- 3 x Slot screwdriver bits (1/4" hex): 3, 5, 6mm
- 3 x Phillips screwdriver bits (1/4" hex): No. 0.1.2
- 2 x Torx screwdriver bits (1/4" hex): T10,
- Case dimensions: 440x320x110mm

496061.269470

ProsKit°

		Pric	e Each
Mftrs. List No.	Order Code	1+	3+
1PK-7110B-W	149-4162	69.00	62.00

#### **Category 5 Termination Kit**



A low cost, Category 5, termination tool kit. Supplied in a handy zipper case measuring 280x197x70mm.

- Ratchet modular crimping tool for 6P2C and 8P8C connectors
- Wire stripper and punch-down tool Punch-down tool with 66/110 blades
- 50 x RJ-22 modular plugs (4P4C flat) 25 x RJ-45 modular plugs (8P8C round)
- 20 x RJ-45 strain relief hoods
- Network cable tester

		496046.269469
	Price	e Each
Order Code	1+	3+
	Order Code	

Mftrs 1PK-940-WDM 152-2410 62.45 59.62

#### 25 Piece Cable Service Termination Kit





A low cost cable termination tool kit. Supplied in a plastic blow moulded case measuring 570 x 320 x 320 mm



Contents:

10 x RJ45 8P6C modular plugs, 10 x RJ12 6P6C modular plugs, Enhanced network cable tester, network cable terminator, wrist strap set, 2-in-1 modular telephone plug crimp tool

Order Code	Pr	rice
	1+	5+
166-4788	19.89	18.87

#### Mini Electronics





A mini tool kit providing a basic range of tools for use in electronics, supplied in a strong PVC/fabric tool roll.

#### Contents

Wire stripper 100mm plain screwdriver Diagonal cutters 100mm No. 1 cross point screwdriver Long nose plier 64mm plain slot terminal screwdriver 150mm steel rule PVC/fabric tool roll

	Price Each		
Order Code	1+		
500-501	14.69		

## Tool selection Mftrs. List No. 002018 // 🗱 Werα ≪NIPEX





0.6 x 3.5/0.8 x 4.0



8-piece tool set for work on electronic equipment.

locking pliers Side-cutting pliers 0.4 x 2.5/0.5 x 3.0/

Micro PH Screwdrivers: PH0/PH1

WET 351

ftrs. List No.	Order Code	Price Each 1+
20 18	876-094	73.85

## Electronics pliers - 8-piece set

Used when working on electronic components





- 8-piece, comprising 2 sets of electronics pliers and 6 electronics screwdrivers, ESD construction, electrically insulating
- practical storage box made from impact-resistant plastic, with foam inserts

C	0	n	te	19	ıt	s	

Mf 00

Mftrs. List No.	Description	Length	Order Code
35 22 115 ESD	Gripper pliers, flat round-nosed pliers	115mm	876-752
77 02 115 ESD	Side-cutting pliers, round-nosed, small chamfer	115mm	876-100
Caroundrinar FCD 0 /	lv0 E / 0 Ev2 0 / 0 Cv2 E / 0 0v4 0mm / DU0 / DU1		

404674

			Price Each		
	Mftrs. List No.	Order Code	1+	5+	10+
Set of electronics pliers	00 20 18 ESD	916-8303	79.90	77.50	75.10

# **Electronics Tool Kit in Service Case**





• Electronics tool kit comprising Senso Plus cutter & pliers, Xonic precision screwdrivers and tweezers, all complete in a service case with foam inserts.

Contents: Snipe Nose Pliers, Straight, Smooth Jaw 3772D-120 Side Cutters, Oval Head, Mini Bevel SMD Positioning Tweezers, SM104.SA 3773D-115 Precision Tweezers, Fine, MM, SA 2343

XonicXM Screwdrivers

Slot (4880X) 1.5 x 60, 1.8 x 60, 2.5 x 60, 2.5 x 75, 3.0 x 100, 4.0 x 100mm PH (4882X) No.000 x 60, No.00 x 60, No.0 x 60, No.1 x 80mm

	Mftrs. List No.	Order Code	Price Each 1+	
14 Pc Tool Kit	T3707DX	352-4255	135.00	





#### **High Precision Swiss Tool kit Erem Toolset Universal**



11- piece tool kit in an ESD-safe plastic case, 2 cutters, 1 plier, 2



tweezers, 6 screwdrivers (L x W x D: 255x220x55mm Weight

- High-quality precision tweezers, cutters and screwdriver, non-reflecting surface, resharpenable
- Internal Erem Magic Spring: constant spring force, guarantees more than 1 million operations
- High precision screw joint: smooth jaw action with no play, smooth cutting operation with no jaw overlapping Maximum opening stop: the limited extent
- to which the handles can open prevent user

- For use in electronics assembly, the watchmaking industry, medecine
- Precision screwdriver with hardened, durable Tips, for precision working in confined areas

Mftrs List

XP600 Precision-screwdriver set for electronics 4 regular screwdrivers:

1.5x60mm/.059x2.36inch. 2,0 x 60mm/.078x2.36inch 2.5 x 60mm/098x2.36inch

2412E Ergo, ovaler Kopf, mit Wate

2442P Ergo, flat nose plier

622NB Tip cutter, flush, relieved, long, fine head

AASA Precision tweezers

2ASASL Precision tweezers

3,0 x 60mm/.118x2.36inch - Philips Nr. 0-- Philips Nr. 00

Most widely used head shape. It is robust and size for size offers the highest cutting capacity. Hard wire 0.5mm, medium hardness 1.0mm, Cu. 1.6mm With smooth jaws, precision-machined edges, e.g. for gripping flat workpieces

Miniature cutter for excellent access, medium hard-ness 0,6mmCu. 0,8 mm Pointed Tipps straight, special stainless steel, non-

magnetic With flat rounded tips, Tip widths 2mm/.078inch, spezial stainless steel, non-magnetic

		Price Each				
Mfrs List no:	Order Code	1+	3+	5+		
3600KU	161-5473	123.75	120.04	116.44		

#### Tool kit

#### **LINDSTROM**



High quality service kit containing a variety of cutters and pliers, screwdrivers, tweezer and adjustable wrench, supplied in a zipped wallet.



Set Content:

Diagonal cutters, Supreme Series Snipe nose pliers, Supreme Series Boley style tweezers Slotted screwdrivers 0.5x3.0 mm and 0.8x4.0 mm Phillips screwdriver PH 1 Phosphated Adjustable Wrench

527352

			Price Per Set	
Set	Order Code	1+	3+	5+
9841	167-1603	129.44	122.35	116.79

#### Tool kit

## **LINDSTROM**



High quality service kit containing a variety of cutters and pliers, screwdrivers, tweezers and adjustable wrench, supplied in a zipped wallet.

New

Set Content:

Diagonal cutters, 80 Series Snipe nose pliers, Supreme Series Phosphated Adjustable Wrench, 80 Series Slotted screwdrivers 0.5x3.0 mm and 0.8x4.0 mm Phillips screwdriver PH1 Boley style tweezers

527358

		Price Per Set			
Set	Order Code	1+	3+	5+	
9848	167-1602	131.58	124.44	118.32	

#### **ESD Profi-Set TRENDY**

2280 and 2285





BERNSTEIN A

Contents:

Side cutters, 120mm, with conductive black hand-guard

Mini side cutters EUROline-Conductive, 120 mm, without sideface, for soft wire up to 0.6mm  $\varnothing$ , copper wire up to 1.2 mm  $\varnothing$ , box joint, double leaf spring, fine polished and bright burnished, conductive bicoloured hand-guard

Flat nose pliers EUROline-Conductive, 130 mm, as above

Snipe nose pliers EUROline-Conductive, 130 mm, short jaws, as above

Screwdriver 50 x 0.8 mm, with conductive handle, blade form chrome vanadium,

chrome-plated, with black tip
Screwdriver 50 x 1.5 mm, with conductive handle, blade form chrome vanadium,

chrome-plated, with black tip

Cross-recess screwdriver size 000, with conductive handle, blade from chrome vanadium,

chrome-plated, with black tip

Cross-recess screwdriver size 00, with conductive handle, blade from chrome vanadium,

chrome-plated, with black tip

Outside dimensions =  $350 \times 310 \times 65 \text{ mm}$  (when closed) Weight = approx. 1.65 kg / 1.5 kg

Cross-recess screwdriver size 0, with conductive handle, blade from

chrome vanadium, chrome-plated, with black tip SMD tweezers, 110 mm, straight, very sharply pointed, ESD-coating

SMD tweezers, 120 mm, sickle-shaped, very sharply pointed, as above SMD tweezers, 120 mm, flat, rounded tips, 2.0 mm width, as above

TORX screwdriver T 5, with conductive handle, blade made from chrome vanadium,

rome-plated, with black tip TORX screwdriver T 6, with conductive handle, blade made from chrome vanadium.

chrome-plated, with black tip

TORX screwdriver T 7, with bore-hole in the tip, with conductive handle, blade made

from chrome vanadium, chrome-plated, with black tip

ESD brush, bristles width 20 mm

ESD handling set (only in set 1280), consisting of: foldable, green workbench pad (surface resistance according to DIN 53482, approx.  $10^8$  Ohm);  $500 \times 400 \times 0.35$  mm, contact bracelet with spiral cord, earth wire 2500 mm long with 1MOhm satety resistor including crocodile clip



Selected ESD tools in handy plastic case made from conductive material. The tools are clearly arranged in accurate-sized cutouts in conductive hardfoam. For individual accessories are one

- The professional kit for ESD-Specialists for local and mobile use
- 2280: tool set including ESD handling set
- 2285 : tool set

without ESD handling set

		Price Each		
Type	Order Code	1+	3+	
2280	160-5865	270.30	256.79	
2285	160-5864	219.30	208.34	







## 1000V Insulated Tools

#### Insulated Tool Kit, 10-Piece Set

IEC 60900:2004 The International Standard for Live Line Working Tools In Tool Roll





Type Test Requirement

- Low Temperature Impact Test carried out at 20°C
- Extreme Cold Climate, Category "C", Impact Test carried out at 40°C
- Adhesion Test carried out after 168 hrs at 70°C
- Flame Retardant
- Indentation Test

100% Production Test

10KV for 3 minutes submerged in water

					524462
Set, 10-piece	Mftrs. Part No	Order Code	Price	Each 3+	5+
Insulated Tool Kit Set Contents:	IT.GPT10	165-5272	143.87	138.12	132.38
Junior Hacksaw 1000V Combi Pliers 200mm	IT/HSFJ IT/CP-8	165-5275 165-5278	39.90 24.79	37.90 23.81	35.95 22.82
Snipe Nose Pliers 150mm	IT/SNP-6	165-5281	19.67	18.89	18.11
Cable Cropper 200mm Adjustable Wrench 200mm	IT/CC-8 IT.BA/8	165-5282 165-5283	23.13	22.20 21.01	21.27
Terminal Screwdriver 75mm Electrician's Screwdriver 150 x 5mm	IT.18/3 IT.500/6	165-5284 165-5285	3.16 5.43	3.05 5.23	2.90 5.02
Electrician's Screwdriver 150 x 6.5mm Pozi Screwdriver PZ1	IT.316/6 IT.PX1/3	165-5286 165-5287	11.18 6.16	10.71 5.90	10.30 5.64
Pozi Screwdriver PZ2	IT.PX2/4	165-5288	7.66	7.35	7.04

#### 1000V Insulated Tools BS60900



H=146, W=483, D=356

All the hand tools supplied conform to  $\bf B860900$ . 1000V live line working. The safety gloves conform to  $\bf B8697/1986$ , 1000V working.

Screwarivers	
Slot, 75 3mm blade	108-000
Slot, 100 3mm blade	108-001
Slot, 152 5mm blade	108-003
Slot, 152 8mm blade	108-006
Pozidriv, 75mm blade No.1 point	108-013
Pozidriv, 100mm blade No.2 point	108-014
Phillips, 75mm blade No.1 point	108-347
Phillips, 100mm blade No.2 point	108-348
Cutting/Stripping	
Cutters, diagonal 160mm long	202-400
Cable cutter, 250mm long	107-995
Wire Strippers	202-435
Stripping knife	107-999
Junior hacksaw	165-5275
Grippers/Spanners/Wrenches	
Long nose combination pliers, 165mm long	107-996
Combination pliers, 150mm long	107-997
Adjustable grip, 300mm long	108-044
Adjustable spanner, 210mm long	202-423
Ring spanner, 8mm	108-037
Ring spanner, 10mm	108-038
Ring spanner, 13mm	108-039
Miscellaneous	
Tool case	109-252

Note: Tool case and contents may be subject to minor substitutions to ensure availability.

Order code Price 725-833 Tool kit complete with case 400.80

#### Insulated Deluxe Tool Kit, 21-Piece Set IEC 60900:2004 The International Standard for Live Line Working Tools In Orange Tool Case

TEE68/223018,401705

Type Test Requirement

- Low Temperature Impact Test
- carried out at 20°C Extreme Cold Climate, Category "C", Impact Test carried out at - 40°C
- Adhesion Test carried out after 168 hrs at 70°C
- Flame Retardant
- Indentation Test
- 100% Production Test
- 10KV for 3 minutes submerged in water

526854

	Mftrs.			Price Each	
Set, 21-piece	List No	Order Code	1+	3+	5+
Insulated Tool Kit	IT.GPT21	165-5311	388.13	372.60	357.08
Set Contents:					
Terminal Screwdriver 75mm	IT.18/3	165-5284	3.16	3.05	2.90
Electrician's Screwdriver 150 x 5mm	IT.500/6	165-5285	5.43	5.23	5.02
Electrician's Screwdriver 150 x 6.5mm	IT.316/6	165-5286	11.18	10.71	10.30
Pozi Screwdriver PZ1	IT.PX1/3	165-5287	6.16	5.90	5.64
Pozi Screwdriver PZ2	IT.PX2/4	165-5288	7.66	7.35	7.04
Combi Pliers 200mm	IT/CP-8	165-5278	24.79	23.81	22.82
Snipe Nose Pliers 150mm	IT/SNP-6	165-5281	19.67	18.89	18.11
Cable Cropper 200mm	IT/CC-8	165-5282	23.13	22.20	21.27
Diagonal Cutters, 150mm	IT/DCN6*				
Waterpump Pliers	IT/WP10*				
Cable Jointer Coring Knife	IT.CCK*				
Adjustable Wrench 200mm	IT.BA/8	165-5283	21.89	21.01	20.13
Junior Hacksaw 1000V	IT/HSFJ	165-5275	39.90	37.90	35.95
Open Ended Spanner 2BA	00970*				
Open Ended Spanner 13mm	00300	165-5289	11.33	10.87	10.40
Open Ended Spanner 17mm	00340	165-5290	13.71	13.15	12.63
Open Ended Spanner 19mm	00360	165-5291	15.84	15.22	14.59
Open Ended Spanner 24mm	00410	165-5293	17.39	16.72	15.99
Ring Spanner, 13mm	01080	165-5294	12.99	12.47	11.95
Ring Spanner, 17mm	01090	165-5295	14.28	13.71	13.15
Ring Spanner, 19mm	01120	165-5296	21.58	20.70	19.87

#### VDE SensoPlus Plier and Screwdriver Zip **Case Tool Kit**





9 piece VDE set in strong zip case with 2 SensoPlus Pozidrive and 3 Slotted Screwdrivers, SensoPlus VDE Side Cutter, Long Nose Plier, Wire Stripper and Mainstester.

All the tools meet the criteria for VDE 0680/201 and IEC900.

Contents: Screwdrivers Slotted 125 x 5.5mm Slotted 100 x 3.0mm Slotted 75 x 2.5mm Pozidrive 80 x 1 Pozidrive 100 x 2 Mains tester

Pliers 160mm Side Cutters 160mm Wire Stripper 165mm Long Nose Plier

TMM376/220251,401606

Mftrs.			Price	Each	
List No.	Order Code	1+	5+	10+	20+
331002	128-7324	94.85	92.00	89.00	85.35

## Technical information at your fingertips



Over 352,000 technical datasheets available online.

Visit www.farnell.co.uk and look for the Tech Info heading in your search results.



#### 4-Part Tool Box,

"Compact box" with VDE tools





- 1000V. construction 6 High strength and multi-purpose, impact
- resistant plastic case Foam insert with woven structure for various contents
- The tools are also available individually







Chrome vanadium steel

2 colour handle with slip guard

Individually tested to 10,000V Meets VDE 0682-0201, IEC 60900

Cutting Capacity: wire

Soft 2.8mm Med/Hard 160mm

2.0	
	493014.492614

	Price Each						
Order Code	1+	5+	10+	20+			
149-6333	11.08	10.28	9.18	8.00			

Mftrs. List No.	Description	Length	Order Code
03 06 180	Combi-pliers	180mm	348-3344
11 06 160	Stripping pliers	160mm	348-3356
26 16 200	Flat round-nosed pliers with cutting edge	200mm	348-3411
70 06 160	Side cutters	160mm	348-3460
			40.463

404631

			Price Each		
	Mftrs. List No.	Order Code	1+	5+	10+
Tool box	00 20 15	916-8281	64.00	62.10	60.15

# **VDE Plier Set**



- All pliers chromed
- Handles VDE-isolated 1000V
- Content:
- 1 Combination Pliers 180mm
- 1 Diagonal Cutter 160mm
- 1 Stork Beak Pliers 200mm

## (NIPE)

245719



		Price Each				
Mftrs. Part No.	Order Code	1+	5+	10+		
00 20 12	381-4002	53.60	52.00	50.40		

#### **VDE Plier Set**



## **D** URATOOL

- Chrome vanadium steel
- 2 colour handle with slip guard
- Individually tested to 10,000V
- Meets VDE 0682-0201, IEC 60900

#### Contents:

- 160mm Diagonal pliers
- 180mm Combination pliers
- 200mm Long nose pliers

Price Each	
	493019.492647

Order Code	1+	5+	10+	20+	
149-6340	23.84	22.14	19.79	18.69	
					ī

## **FREE global legislation support**



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www.global-legislation.com

## **Heavy Duty VDE Side Cutter**



- Individually tested to 10,000VMeets VDE 0682-0201, IEC 60900

Cutting Capacity: wire	
Med/Hard	
2.7mm	

Piano 493015.492615

**Price Each Order Code** 1+ 5+ 10+ 20+ 149-6334 13.38 12.43 9.67

#### **Diagonal Cutter 70 VDE**

Chrome vanadium steel 2 colour handle with slip guard

Size



Soft

3.8mm

- The indispensable diagonal cutter for all-round use
- High quality material and precise workmanship for long service life
- Precision cutting edges for soft and hard wire
- Clean cutting at cutting edge tips; also in case of thin copper wires Cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC
- Narrow head style for use in confined areas
- Vanadium electric steel, oil-hardened and tempered
- Handles insulated with two-colour dual component handles
- VDE-tested according to DIN EN 60 900, 1000 V

Mftrs. Part No.	Head	Cutting performance wires Ø mm			Length	Weight
		soft	medium	hard	mm	g
70 06 125		3.0	2.3	1.5	125	120
70 06 140		4.0	2.5	1.8	140	160
70 06 160		4.0	2.8	2.0	160	210

255 403064

				Price Eac	h
	Mftrs. Part No.	Order Code	1+	5+	10+
Diagonal cutting nipper	70 06 125	348-3435	14.50	14.05	13.65
Diagonal cutting nipper	70 06 140	348-3459	16.70	16.20	15.70
Diagonal cutting nipper	70 06 160	348-3460	17.95	17.40	16.85
Diagonal cutting nipper	70 06 180	413-5490	16.95	16.45	15.95
	Diagonal cutting nipper Diagonal cutting nipper	Diagonal cutting nipper 70 06 125 Diagonal cutting nipper 70 06 140 Diagonal cutting nipper 70 06 160	Diagonal cutting nipper         70 06 125         348-3435           Diagonal cutting nipper         70 06 140         348-3459           Diagonal cutting nipper         70 06 160         348-3460	Mftrs. Part No.         Order Code         1+           Diagonal cutting nipper         70 06 125         348-3435         14,50           Diagonal cutting nipper         70 06 140         348-3459         16.70           Diagonal cutting nipper         70 06 160         348-3460         17.95	Diagonal cutting nipper         70 06 125         348-3435         14.50         14.05           Diagonal cutting nipper         70 06 140         348-3459         16.70         16.20           Diagonal cutting nipper         70 06 160         348-3460         17.95         17.40

### **High Leverage Diagonal Cutter 74 VDE**



- With forged-on axle for heaviest duty
- Suitable for all types of wire including piano wire
- High cutting performance with minimum effort due to optimum co-ordination of the cutting edge angle and transmission ratio
- Precision cutting edges additionally induction-hardened, cutting edge hardness approx.







## 1000V Insulated Tools - continued

## High Leverage Diagonal Cutter 74 VDE - continued

- The 250-mm-long diagonal cutter is suitable for copper conductors up to 16 mm<sup>2</sup> and aluminium conductors up to 35 mm<sup>2</sup>
- Chrome Vanadium electric steel, oil-hardened and tempered
- With two-colour dual component handles, 1000V VDE-tested
- According to DIN ISO 5749

		Cuttii	ng Performance 🕖	(mm)		
Mftrs. Part No.	Head	soft	medium	hard	Length	Weight
74 06 160	polished	3.4	2.0		160mm	215g
7406180	chromed	3.8	2.7	2.2	180mm	260g
7406200	chromed	4.2	3.0	2.5	200mm	305g
74 06 250	polished	4.6	3.0		250mm	440g
						403250

			Price Eac	h
Mftrs. Part No.	Order Code	1+	5+	10+
74 06 160	916-8419	22.10	21.45	20.75
7406180	348-3472	21.65	21.00	20.35
7406200	348-3484	22.95	22.25	21.55
74 06 250	916-8427	32.30	31.35	30.35

#### **VDE Combicutter**





- Fully approved and independently audited by German VDE institute
- Individually tested to 10,000v Meets VDE 0682-0201, IEC 60900:2004, ASTM-F 1505-94
- Ergonomic handles for comfort and safety
- Hardened and precision ground for high performance
- Finished with Anti glare coating
- 160mm Side cutter with additional Patress Screw Shearing hole
- Ideal for clean cutting of patress screws without damage to thread
- 180mm size also available

Mftrs.		Capacity				
List No		∅(mm)		Length (mm)	Order Code	
	Hard Wire	Med/Hard Wire	Soft Wire	- ' '		
431004	1.6	2.1	≥4.0	160	128-3255	
431005	1.8	2.3	≥4.0	180	128-3256	
T39071-1180	1.8	2.3	≥4.0	180	151-8932	
					448409.458304	

Mftrs.		Price	Each Each
List No.	Order Code	1+	5+
431004	128-3255	19.75	19.15
431005	128-3256	24.35	23.60
T39071-1180	151-8932	25.03	24.28

#### **VDE Combicutter 2**





- Fully approved and independently audited by German VDE institute
- Individually tested to 10,000v
- Meets VDE 0682-0201, IEC 60900:2004, ASTM-F 1505-94
- Ergonomic handles for comfort and safety Hardened and precision ground for high performance
- Finished with Anti glare coating
- 160mm Side cutter Wire Stripping notches

List No		Ø(mm)		Order Code	
LIST IVO	Hard Wire	Soft Wire	Length (mm)	Order Code	
431004	2.0	≥4.0	160	128-3255	
				448413.4583	

Mftrs.		Price Each			
List No.	Order Code	1+	5+		
431009	128-3257	26.45	25.65		

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## **VDE Heavy Duty Side Cutters**





- Fully approved and independently audited by German VDE institute
- Individually tested to 10,000v
- Meets VDÉ 0682-0201, IEC 60900:2004, ASTM-F 1505-94
- Ergonomic handles for comfort and safety
- Hardened and precision ground for high performance Finished with Anti glare coating
- Heavy duty design with higher cutting capacity
- Extra leverage for superior cutting performance
- Available in two different sizes

Mftrs. List No		Capacity ∅(mm)		Length (mm)	Order Code
	Hard Wire	Med/Hard Wire	Soft Wire	. 5. ( )	
431006	2.0	2.5	≥4.0	160	128-3259
431007	2.5	3.0	≥4.0	180	128-3260
					448379

Mftrs.		Price	Each Each
List No.	Order Code	1+	5+
431006	128-3259	23.45	22.75
431007	128-3260	31.60	30.65

#### Side Cutter VDE/1000V

## With and without wire stripping function







- Manufactured in accordance with VDE 0682-0201 / IEC 60900:2004
- Each plier is individually tested to 10.000V to ensure completely safe working on live equipment up to 1000V
- Ergonomic handles for comfort and safety
- Hardened and precision ground cutting edges for high performance
- Anti glare and anti corrosion finish
- Total length: 160 mm
- Version 431019 only: with wire stripping notches for 1,5mm<sup>2</sup> and 2,5 mm<sup>2</sup>
- Cutting capacities: hard: 1,6 mm; soft:≥ 4,0 mm

Mftrs.		Price	Each	
List No.	Order Code	1+	5+	
431017	152-1876	22.30	21.65	
431019	152-1877	26.80	26.00	

#### Diagonal cutters Inomic® VDE





- For cutting hard wires in the joint area and flush, burr-free cutting of soft wires, cables and plastics in the front cutting area.
- Innovative head with dual cutting function. Cutting edge with bevel near the joint, cutting edge without bevel in the front cutting area.
- Arms of the pliers move in parallel: +25% force transfer.
- With opening spring and locking mechanism. Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC.
- Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the
- Standards: IEC 60900:2004

							44194	
cutting performance					Price	Each		
Mftrs. List No. / Length	soft	medium	hard	Weight	Order Code	1+	5+	
Z 12 9 16 160MM	4.0mm	2.8mm	2.0mm	140g	124-2233	19.82	18.16	



#### Round Nose Pliers Type 22, **VDE**



- For forming wire loops Precision ground, short, round jaws
- Special tool steel, oil-hardened and tempered
- With two-colour dual component handles, 1000V, VDE-tested According to DIN ISO 5745

Mftrs. Part No.	Head	Length	Weight
22 06 160	chrome-plated	mm 160	g 170
			40328

			Price Each			
	Mftrs. Part No.	Order Code	1+	5+	10+	
Round Nose Plier	22 06 160	413-2014	15.50	15.05	14.55	

## **VDE Snipe Nose Pliers**







- Serrated jaws with cutter
- Chrome vanadium steel
- 2 colour handle with slip guard
- Individually tested to 10,000V Meets VDE 0682-0201, IEC 60900
- Available in two different sizes

Cutting Capacity: wire

Soft 2.5mm Med/Hard 160mm 1.6mm 200mm 2 8mm 1.8mm

Size			Price	Each	
	Order Code	1+	5+	10+	20+
160mm	149-6330	10.53	9.77	8.73	7.60
200mm	149-6331	10.90	10.13	9.06	7.89

## **VDE Bent Snipe Nose Plier**



493012.492598





Chrome vanadium steel

Size

200mm

149-6332

- 2 colour handle with slip guard
- Bent to 40°
- Individually tested to 10.000V
- Meets VDE 0682-0201, IEC 60900

10.87

Med/Hard

9 47

Cutting Capacity: wire Soft 2.8mm

				493013.492609
		Pric	e Each	
Order Code	1+	5+	10+	20+

12.18

#### Snipe Nose Side Cutting Pliers 25 VDE

13.11

Radio pliers



348-3393



### Suitable for gripping and cutting work in precision mechanics

- Pointed, half-round jaws
- Serrated gripping surfaces
- With cutting edges for medium hard and hard wire
- Cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- High grade special tool steel, oil-hardened and tempered
- Handles: insulated with two-colour dual component handles 1000V VDE-tested
- According to DIN ISO 5745

Mftrs. Part No.	Jaws	Head	Length	Weight
25 06 160	straight	chromed	160	150g
25 26 160	40°-bent	chromed	160	150g
				10000

			Price Each			
Description	Mftrs. Part No.	Order Code	1+	5+	10+	
Snipe Nose Side Cutting Pliers, straight jaws	25 06 160	348-3393	13.95	13.55	13.10	
Snipe Nose Side Cutting Pliers, bent jaws	25 26 160	916-8370	19.00	18.45	17.85	

## Snipe Nose Side Cutting Pliers 26 VDE

Stork Beak Pliers



- High loadable, elastic precision points
- Half-round, long jaws
- Serrated gripping surfaces
- With cutting edges for medium hard wire max.  $\varnothing$  3.2 mm and hard wire max.  $\varnothing$  2.2 mm
- Cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium steel, oil-hardened and tempered
- Handles: insulated with two-colour dual component handles, 1000V VDE-tested
- According to DIN ISO 5745

MITTIS. Part No.	Form	неаа	Lengtn (mm)	vveignt
26 16 200	straight jaws	chromed	200	205g
26 26 200	40° bent jaws	chromed	200	205g
				403106

		Price Each				
Mftrs. Part No.	Order Code	1+	5+	10+		
26 16 200	348-3411	17.80	17.25	16.75		
26 26 200	348-3423	23.45	22.75	22.05		

## **VDE Snipe Nose Pliers**



- Fully approved and independently audited by Ger man VDE institute
- Individually tested to 10,000v
- Meets VDE 0682-0201, IEC
- 60900:2004, ASTM-F 1505-94
- Ergonomic handles for comfort and
- Hardened and precision ground for high

#### performance

- Finished with Anti glare coating
- Serrated inside jaws with rod gripping hole and cutting edges
- Available in two different sizes

Mftrs. List No			Length (mm)	Order Code
	Med/Hard Wire	Soft Wire	9 ()	
431013	1.6	≥4.0	175	128-3265
431014	1.6	≥4.0	200	128-3266

			440420.400	Ю
Mftrs.		Price	e Each	
List No.	Order Code	1+	5+	
431013	128-3265	16.25	15.75	
431014	128-3266	18.50	17.95	

## **VDE Bent Nose Pliers**





- Fully approved and independently audited by German VDE institute
   Individually tested to 10,000v
   Meets VDE 0682-0201, IEC 60900:2004, ASTM-F 1505-94

- Ergonomic handles for comfort and safety
- Hardened and precision ground for high performance
- Finished with Anti glare coating
- Length: 200mm
- Cutting capacity (mm∅) Med./Hard Wire: 1.6 Cutting capacity (mm∅) Soft Wire: ≥4.0



45





## 1000V Insulated Tools - continued

#### **VDE Bent Nose Pliers - continued**

448428.458378

Mftrs.		Price	Each
List No.	Order Code	1+	5+
431015	128-3267	19.95	19.35

## Needle nose pliers Inomic® VDE





For gripping, holding, cutting and stripping. With improved access to the objects to be processed.

Straight shape with blade and three stripping points 2.5 mm², 1.5 mm², 0.75 mm². Parallel and crosswise profiling for gripping in all directions.

Arms of the pliers move in parallel: +25% force transfer. With opening spring and locking mechanism.

Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC. Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the handle

Standard: EN/IEC 60900:2004

441939

cutting performance						Price Eac	h
Mftrs. List No. / Length	medium	hard	Weight	Order Code	1+	5+	10+
Z 06 9 16 160MM	2.5mm	1.6mm	150g	124-2231	20.16	18.48	17.06

#### **VDE Combination Pliers**





Soft

2.8mm



Chrome vanadium steel

Size 180mm

Size

200mm

2 colour handle with slip guard

	Indi	VİC	lually	tested	to t	10	,000	١V	
_								~	

Meets VDE 0682-0201, IEC 60900

Cutting Capacity: wire Med/Hard

21	JUIIIIII	3.011111		2.01111	111	
					493016.4926	í
е			Price	Each		
	Order Code	1+	5+	10+	20+	
)mm	149-6336	11.08	10.28	9.18	8.00	
)mm	149-6337	11.74	10.89	9.74	8.48	

# **VDE-Combination Pliers**





0106190

- With high-precision cutting edges for soft, hard and piano wire
- Long cutting edges for thicker cables
- Particularly wear resistant gripping jaws
- VDE-tested handles (1000V)
- Chrome Vanadium electric steel, oil-hardened and tempered

		Cutting va	alue Ø mm		
art No.	Head	soft	hard	Length in mm	Weigh
1	a la una mana al	0.0	4 5	100	- or

(	Mftrs. Part No. 0106160 0106190		Head chromed	soft 2.0 2.5	hard 1.5 2.0	1	h in mm 160 190	Weight in g 200	
ι	1100190		chromed	2.5	2.0		90	300	
	Length	Mojaht	Mftrs. Part No.		Order Code	1+	Price Eac	<b>h</b> 10+	
	Lengui	weigni	IVIIII 5. FAIL IVU.		Oluci Goue	1+	3+	10+	
	160mm 190mm	200g 300g	0106160 0106190		348-3216 348-3228	22.45 24.90	21.80 24.15	21.10 23.40	

# Coming soon



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.

### **High Leverage Combination** Pliers Type 02 VDE **DIN ISO 5746**





- for heaviest duty
- 35% saving in power due to new, improved lever action compared with conventional
- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft, hard and piano wire long cutting edges for thicker cables
- cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- high grade special tool steel, oil-hardened and tempered
- insulated with two-colour dual component handles, 1000V VDE-tested

MITTER PART NO.	Head	Cutting values $\emptyset$ mm		Lengtn	vveignt	
		hard	Piano	mm	g	
02 06 180	polished	2.5	2.0	180	240	
02 06 225	polished	3.0	2.5	225	405	
					403911	

			Price Eac	h
Mftrs. Part No.	Order Code	1+	5+	10+
02 02 180 02 06 225	348-3230 413-1850	15.65 22.35	15.20 21.70	14.70 21.00

#### **Combination Pliers Type 03** VDE



**DIN ISO 5746** 



- with gripping zones for flat and round material, suitable for versatile use
- with cutting edges for soft and hard wire long cutting edges for thicker cables
- cutting edges additionally induction hardened, cutting edge hardness approx. ca. 60
- special tool steel, oil-hardened and tempered
- insulated with two-colour dual component handles 1000V, VDE-tested

IVIILIO. I AIL IVO.	Heau	outting values & min		Lengui	weignt	
		soft	hard	mm	g	
03 06 160	chromed	3.1	2.0	160	220	
03 06 180	chromed	3.4	2.2	180	265	
					40391	

			Price Eac	h
Mftrs. Part No.	Order Code	1+	5+	10+
03 06 160	348-3320	16.25	15.75	15.30
03 06 180	348-3344	17.50	17.00	16.45

#### Combination Access Pliers VDE, 180mm

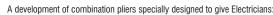












- Better access in tight situations
  Effectively grips the square nuts of gutter screws used on cable management systems and control boxes
  - Hold pins and nails vertically for easy driving

### Range Features

- Certified & approved by the world renowned VDE
- Each tool is tested to 10,000v for the complete assurance of safety when working on live equipment up to 1000v AC
- GS safety marked
- Ergonomic dual compound handle offering the perfect balance of grip and comfort
- Induction hardened and precision ground cutting edges for the ultimate in performance

				3231	
Mftrs.			Price Each		
List No.	Order Code	1+	5+	10+	
Combination Access Pliers VDE T39077-180	166-0783	26.95	25.60	24.25	







#### **Combination Pliers**





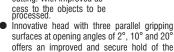
- Fully approved and independently audited by German VDE institute Individually tested to  $10,\!000v$
- Meets VDE 0682-0201, IEC 60900:2004, ASTM-F 1505-94
- Extra long cutting edges
- Induction hardened for use on medium and hard wire, round and flat cable
- Ergonomic handles for comfort and safety
- Hardened and precision ground for high performance
- Finished with Anti glare coating

Mftrs.	Capacity	1			
List No	Ø(mm)		Length (mm)	Order Code	
	Med/Hard Wire	Soft Wire	- ' '		
431001	1.6	≥4.0	165	128-3252	
431002	1.6	≥4.0	185	128-3253	
431003	2.0	≥4.0	205	128-3254	
				448372 45880	

Mftrs. List No.	Order Code	Price 1+	Each 5+
431001	128-3252	18.25	17.70
431002	128-3253	19.20	18.60
431003	128-3254	20.30	19.70

## **Combination pliers Inomic® VDE**





workpiece. Crosswise-profiled gripping surfaces with specially shaped teeth for gripping in all directions. Arms of the pliers move in parallel: +25% force transfer. With opening spring and locking

Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC. Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the handle.

Standard: EN/IEC 60900:2004

							4419	37
Mftrs. List No. / Length	cutting per medium	formance hard	Weight	Order Code		Price Eac	<b>h</b> 10+	
Z 01 9 16 180MM	3.3mm	2.2mm	155g	124-2229	19.82	18.16	16.77	

### Cable Shear





- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades no crushing, slight deformation of the cable only with guard for copper conductors single wire up to 16 mm², multiple wire up to 50 mm²,
- fine stranded up to 70 mm<sup>2</sup> and aluminium conductors multiple wire up to 70 mm<sup>2</sup>
- easy cutting with one-hand operation due to high transmission ratio
- stainless special grade steel, oil-hardened and tempered
- VDE tested according to DIN EN/IEC 60900 : 2004

					2457	7
Length 230mm	Weight Mftrs. Part No. 280g 9506230	Order Code 348-3514	1+ 35.90	Price Each 5+ 34.80	10+ 33.75	

## **Diagonal Insulation Strippers 14 VDE**



The essential pliers for electrical installation work

- Precision stripping holes for single (solid) conductors of 1.5 and 2.5 mm<sup>2</sup>
- Induction hardened precision blades for soft wire up to 4.0 mm  $\varnothing$ , cutting edge hardness approx. 60 HRC
- Handles insulated with two-colour dual component handles, VDE-tested 1000V
- Vanadium electric steel, oil-hardened and tempered

Mftrs. Part No. 14 26 160	Stripping capacition 1,5 + 2,5 mm2	es Strippir 15 + 1	g capacities 3 AWG	Length (mm 160	n) We 21	eight (g) O	
						403079	ì
		Mftrs. Part No.	Order Code	1+	5+	10+	
Diagonal Insulation	n Strippers	14 26 160	348-3370	29.50	28.60	27.75	

#### **VDE Wire Stripper**



**DURATOOL** 



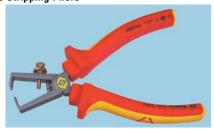
- Chrome vanadium steel 2 colour handle with slip guard

- Individually tested to 10,000V
- Meets VDE 0682-0201, IEC 60900

493017.492645

		Price	Each	
Order Code	1+	5+	10+	20+
149-6338	11.74	10.89	9.74	8.48

## **VDE Wire Stripping Pliers**





45

- Fully approved and independently audited by German VDE institute
- Individually tested to 10,000v
- Meets VDE 0682-0201, IEC 60900:2004, ASTM-F 1505-94
- Ergonomic handles for comfort and safety
- Hardened and precision ground for high performance
- Finished with Anti glare coating
- Ideal for repetitive wire stripping
- Features adjustable capacity and spring assisted opening Stripping capacity (mm $\varnothing$ ) 0.3-5.0

			448421.45	8371
Mftrs.		Price	Each	
List No.	Order Code	1+	5+	
431012	128-3264	20.30	19.70	

#### **Cable Cutter**





95 36 280









## 1000V Insulated Tools - continued

#### Cable Cutter - continued

- for cutting copper and aluminium cables, single and multiple wire
- not suitable for steel wire and wire ropes
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- one-hand operation using ratchet princi-

- little handforce required due to very high transmission ratio
- two-stage ratchet drive for easy cutting
- simple handling as a result of low weight and compact design - can be used even in confined areas with guard
- special grade tool steel

240786

Lenath	Weight	Mftrs. Part No.	Order Code	1+	Price Each	+
mm250	560g	9536250	348-3538	124.80	121.05	
mm280	735g	9536280	348-3540	165.90	160.90	

#### **VDE Waterpump Plier**







- Six positions with groove joint
- Chrome vanadium steel
- 2 colour handle with slip guard 250mm
- Strips wire up to 5mm in  $\varnothing$
- Individually tested to 10,000V Meets VDE 0682-0201, IEC 60900

Max Jaw Width 36mm

				493018.492646
		Price	e Each	
Order Code	1+	5+	10+	20+
149-6339	15.31	14.22	12.70	11.06

### "Alligator" Water Pump Pliers Type 88 VDE **DIN ISO 8976**





- Box-joint design: high stability because of double guide
- Self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- Guard prevents operators' fingers being pinched
- Favourable lever action: optimum transmission of force
- Gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and secure gripping
- Chrome Vanadium electric steel, oil-hardened and tempered

	Capacities for	Capacities for screw nuts	3	
Handles	Tubes ○ inches	Working Capacities (mm	Length (mm)	Weight (g)
insulated with two-colour dual	1 ½	36	250	370
component handles,				

VDE-tested according to EN 60 900

				4	0536
			Price Each		
Mftrs. Part No.	Order Code	1+	5+	10+	
88 06 250	348-3502	21.75	21.10	20.45	

## **VDE Waterpump Pliers**





- Fully approved and independently audi-
- ted by German VDE institute
- Individually tested to 10,000v Meets VDE 0682-0201, IEC 60900:2004, ASTM-F 1505-94
- Ergonomic handles for comfort and
- Hardened and precision ground for high performance
- Finished with Anti glare coating
- Hot drop forged chrome vanadium steel, hardened and tempered
- Box joint construction for accurate set-
- ting and long life Slim head pattern for use in confined
- spaces A built in stop prevents finger nipping
- Length: 250mm
- Cutting capacity: 35mm

448429.471417

Mftrs.		Price	Each	
List No.	Order Code	1+	5+	
431016	128-3268	36.50	35.40	

#### **Insulated Spanners Set, 8-Piece Set**

In Tool Roll

IEC 60900:2004 The International Standard for Live **Line Working Tools** 



Type Test Requirement

- Low Temperature Impact Test carried out at 20°C
   Extreme Cold Climate, Category "C", Impact Test
- carried out at 40°C Adhesion Test carried out after 168 hrs at 70°C
- Flame Retardant
- Indentation Test

100% Production Test

10KV for 3 minutes submerged in water

	Mftrs.		Price	Each	
Set, 8-piece	List No	Order Code	1+	3+	5+
Insulated Spanner Set	IT.ISS8	165-5273	113.85	109.30	104.74
Set Contents:					
Open Ended Spanner 2BA	00970*				
Open Ended Spanner 13mm	00300	165-5289	11.33	10.87	10.40
Open Ended Spanner 17mm	00340	165-5290	13.71	13.15	12.63
Open Ended Spanner 19mm	00360	165-5291	15.84	15.22	14.59
Open Ended Spanner 24mm	00410	165-5293	17.39	16.72	15.99
Ring Spanner, 13mm	01080	165-5294	12.99	12.47	11.95
Ring Spanner, 17mm	01090	165-5295	14.28	13.71	13.15
Ring Spanner, 19mm	01120	165-5296	21.58	20.70	19.87
* Not available as single product					

#### Insulated Socket Set 1/2", 12 Pieces



IEC 60900:2004 The International Standard for Live Line Working Tools

In Metal Box



Type Test Requirement

- Low Temperature Impact Test carried out at - 20°C
- Extreme Cold Climate, Category "C", Impact Test carried out at 40°C
- Adhesion Test carried out after 168 hrs at 70°C
- Flame Retardant
- Indentation Test
- 100% Production Test
- 10KV for 3 minutes submerged in wa-

524480

	Mftrs.		Price	Each	
Set, 12-piece	Part No	Order Code	1+	3+	5+
Insulated Socket Set 1/2"	IT.SKTS12	165-5274	201.83	193.75	185.68
Set Contents:					
Insulated Reversible Ratchet	IT/RR	165-5297	70.17	67.38	64.58
Insulated Extension Bar, 125mm	IT/RR/E5	165-5298	17.96	17.23	16.51
Insulated Socket, 8mm	01330	165-5299	10.30	9.88	9.47
Insulated Socket, 10mm	01350	165-5300	8.90	8.54	8.18
Insulated Socket, 13mm	01380	165-5301	9.32	8.95	8.59
Insulated Socket, 17mm	01420	165-5302	9.88	9.47	9.11
Insulated Socket, 19mm	01440	165-5303	10.30	9.88	9.47
Insulated Socket, 20mm	01450	165-5304	10.56	10.14	9.73
Insulated Socket, 3/8 A/F	01570	165-5305	8.54	8.18	7.87
Insulated Socket, 1/2 A7F	01590	165-5306	8.64	8.28	7.97
Insulated Socket, 3/4 A/F	01630	165-5307	9.52	9.16	8.75
Insulated Socket, 7/8 A/F	01650	165-5308	9.78	9.37	9.01

# **Troubleshooting tips**



Chat live online to one of our technical engineers at www.farnell.co.uk



#### **VDE Insulated Socket Set**





494131

- A 9-piece ½" square drive insulated socket set which is equivalent to 26 pieces
- Sockets are designed to drive on the flats not corners which enables them to suit metric/imperial, A/F, Whitworth, BSF and BA hexagon nuts and bolts
- Manufactured from high grade chrome vanadium steel which are insulated using two contrasting insulating layers

Manufactured to VDE standard and supplied complete in high visibility plastic case
 ½" drive reversible ratchet has a socket locking facility quick release button
 Contents: ½" Ratchet, 10, 13, 14, 16, 17, 19, 20/21mm, 12mm Extension bar

Companionity Socket Sizes							
mm	10	13	14	16	17	19	20/21
A/F	3/8	1/2	9/16	<sup>5</sup> / <sub>18</sub>	11/16	3/4	25/32 / 13/16
BSW			1/4	5/16		3/8	7/16
BSF			5/16	3/8		7/16	1/2

			Price	Each	
Mftrs. List No.	Order Code	1+	5+	10+	20+
144-0001	151-8529	209.81	205.62	201.42	199.32

## **Screwdrivers** BS60900





	Dia. over			
Blade Size	Insulation	Handle Size	Overall Length	
(mm)	(mm)	(mm)	(mm)	Order Code
Terminal Screwdri	vers - Fluted Hai	ndle - Parallel Blade		
75x 3	5	75 x 13	150	108-000
100x3	5	75 X 13	175	108-001
Electricians Screw	drivers - Fluted I	Handle - Parallel Bla	ade	
152x5	8	75 X 19	227	108-003
203x5	8	75 X 19	279	108-004
Engineers Screwdr	rivers - Fluted Ha	andle - Parallel Blad	е	
152x8	13	102 X 25	254	108-006
245x10	14	114 X 32	368	108-008
Pozidriv Screwdriv	ers			
75x No. 1	6	75 X 19	150	108-013
100x No. 2	8	90 X 25	190	108-014
150x No.3	12	100 X 25	250	108-015
Phillips Screwdrive	ers			
75x No. 1	6	75 X 19	150	108-347
100x No. 2	8	90 X 25	190	108-348
150x No. 3	12	100 X 25	250	108-349

				401092
Mftrs. List No.	Length (mm)	Tip Size (mm)	Order Code	Price Each
Terminal Screwdrivers				
IT.18/3	75	3	165-5284	3.16
IT18/4	100	3	108-001	3.30
Electricians' Screwdrive	,			
ITX500/6	152	5	108-003	6.54
ITX500/8	203	5	108-004	7.27
Pozidriv Screwdrivers	200	ŭ		
	75	No. 1	165-5287	6.16
IT.PX1/3				6.16
IT.PX2/4	100	No. 2	165-5288	7.66
IT/PX3/6	150	No. 3	108-015	11.10
Phillips Screwdrivers				
ITPH1/3	75	No. 1	108-347	7.69
ITPH2/4	100	No. 2	108-348	9.20
ITPH3/6	150	No. 3	108-349	11.10
111 110,0	100	110. 0	100 040	11.10

## Premium service without a premium price



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## **VDE Insulated Screwdrivers - 1000V**









- Designed in conjunction with professional electricians optimised for specific tasks
- Extra response, extra feel and extra speed
- Long, fine neck for ultimate fingertip control
- Ergonomically shaped smooth, round head to allow it to pivot easily in the palm of the
- Ridges along the head for that last 1/4 turn of power when tightening down
- Range features Grip-Tip™ technology\* specially designed ribs positively engage with the screw slot to reduce the risk of Cam-out and slipping
- Fully insulated to offer safe 1000V live working Full compliance with European Standard IEC 60900:2004
- Individually tested to 10,000V
- Certified and independently audited by the German VDE institute for 100% safety
- GS safety approved
- Permanent tip type marking on the end of the handle for convenient identification
- Non-roll flats won't roll off uneven surfaces
  Precision machine tip for ultimate screw fit and high torque output
- Toughened, high alloy steel blade for excellent wear resistance

	Tip size	Blade length (mm)	Mftrs. List No.	Order Code
Slotted				1
	2.5	75	T49144-025	166-4278
	3	100	T49144-030	166-4279
	3.5	100	T49144-035	166-4280
	4	100	T49144-040	166-4282
	5.5	125	T49144-055	166-4283
	6.5	150	T49144-065	166-4284
	8	175	T49144-080	166-4285
	10	200	T49144-100	166-4286
Phillips	•			
	PH0	60	T49142-0	166-4267
V	PH1	80	T49142-1	166-4269
	PH2	100	T49142-2	166-4271
	PH3	150	T49142-3	166-4272
Pozidriv				
	PZ0	60	T49143-0	166-4273
	PZ1	80	T49143-1	166-4274
	PZ2	100	T49143-2	166-4275
	PZ2	200	T49143-2200	166-4276
	PZ3	150	T49143-3	166-4277
Modulo	'			
	No.1	75	T49145-1	166-4265
	No.2	100	T49145-2	166-4266

	·		•	526869
Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
Slotted				
T49144-025	166-4278	3.50	3.40	3.30
T49144-030	166-4279	3.75	3.65	3.55
T49144-035	166-4280	3.75	3.65	3.55
T49144-040	166-4282	4.30	4.15	4.05
T49144-055	166-4283	4.95	4.80	4.65
T49144-065	166-4284	5.40	5.25	5.10
T49144-080	166-4285	7.00	6.80	6.60
T49144-100	166-4286	9.00	8.75	8.45
Phillips				
T49142-0	166-4267	3.60	3.50	3.40
T49142-1	166-4269	4.20	4.05	3.95
T49142-2	166-4271	4.75	4.60	4.45
T49142-3	166-4272	6.85	6.65	6.45
Pozidriv				
T49143-0	166-4273	3.75	3.65	3.55
T49143-1	166-4274	4.50	4.35	4.25
T49143-2	166-4275	5.40	5.25	5.10
T49143-2200	166-4276	6.75	6.55	6.35
T49143-3	166-4277	7.80	7.55	7.35
Modulo		4.50	4.05	4.05
T49145-1	166-4265	4.50	4.35	4.25
T49145-2	166-4266	5.40	5.25	5.10







## 1000V Insulated Tools - continued

# 8 Piece VDE Insulated Screwdrivers Sets -









- Designed in conjunction with professional electricians optimised for specific tasks
- Extra response, extra feel and extra speed
- Long, fine neck for ultimate fingertip control
- Ergonomically shaped smooth, round head to allow it to pivot easily in the palm of the hand
- Ridges along the head for that last 1/4 turn of power when tightening down
- Range features Grip-Tip™ technology\* specially designed ribs positively engage with the screw slot to reduce the risk of Cam-out and slipping
- Fully insulated to offer safe 1000V live working
- Full compliance with European Standard IEC 60900:2004
- Individually tested to 10,000V
- Certified and independently audited by the German VDE institute for 100% safety
- GS safety approved
- Permanent tip type marking on the end of the handle for convenient identification Non-roll flats won't roll off uneven surfaces
- Precision machine tip for ultimate screw fit and high torque output
- Toughened, high alloy steel blade for excellent wear resistance
- Torque performance substantially in excess of the international standard requirements

List No.

T49192

Content 166-4290
2.5x75 mm
4.0x100 mm
5.5x125 mm
6.5x150 mm
PH 0x60 mm
PH 1x80 mm
PH 2x100 mm
Mainstester 3.0x65 mm

Order Code

166-4290

166-4291





Mainstester 3.0x65 mm Price Each

5+

28.95

/	5	

# 6 Piece VDE Insulated Screwdrivers Sets -

1+

29.85

30.80



10+

28.05





- Designed in conjunction with professional electricians optimised for specific tasks
- Extra response, extra feel and extra speed
- Long, fine neck for ultimate fingertip control
- Ergonomically shaped smooth, round head to allow it to pivot easily in the palm of the hand
- Ridges along the head for that last  $\frac{1}{4}$  turn of power when tightening down
- Range features Grip-Tip™ technology\* specially designed ribs positively engage with the screw slot to reduce the risk of Cam-out and slipping
- Fully insulated to offer safe 1000V live working
- Full compliance with European Standard IEC 60900:2004
- Individually tested to 10,000V
- Certified and independently audited by the German VDE institute for 100% safety
- GS safety approved
- Permanent tip type marking on the end of the handle for convenient identification
- Non-roll flats won't roll off uneven surfaces
- Precision machine tip for ultimate screw fit and high torque output
- Toughened, high alloy steel blade for excellent wear resistance
- Torque performance substantially in excess of the international standard requirements Content 166-4288









				32007
Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
T49182	166-4288	21.75	21.10	20.45
T49183	166-4289	22.55	21.85	21.20

## VDE Insulated Terminal Screwdrivers Set - dextro 1000V







- Designed in conjunction with professional electricians optimised for specific tasks
- Extra response, extra feel and extra speed
- Long, fine neck for ultimate fingertip control
- Ergonomically shaped smooth, round head to allow it to pivot easily in the palm of the hand
- Ridges along the head for that last 1/4 turn of power when tightening down
- Fully insulated to offer safe 1000V live working
- Full compliance with European Standard IEC 60900:2004
- Individually tested to 10,000V
- Certified and independently audited by the German VDE institute for 100% safety
- GS safety approved
- Permanent tip type marking on the end of the handle for convenient identification
- Non-roll flats won't roll off uneven surfaces
- Precision machine tip for ultimate screw fit and high torque output
- Toughened, high alloy steel blade for excellent wear resistance
- Torque performance substantially in excess of the international standard requirements Terminal screwdriver size 1x75 mm and 2x100 mm

Mftrs. Price Each						
List No.	Order Code	1+	5+	10+		
T49146	166-4287	8.90	8.65	8.35		

#### **VDE Insulated screwdriver** Series 100 VDE





- Lasertin®
- Insulated blade for safe working up to 1000V
- Kraftform® with anti-roll protection for fatigue-proof and faster screwing

334208						
	Type	Size	Order Code	1+	5+	10+
Slotted						
Old Tou	6100	2.5 x 80	311-0588*	4.01	3.71	3.35
	6105	3.0 x 100	311-0590*	4.17	3.86	3.55
	6110	3.5 x 100	311-0606	4.26	3.95	3.60
	6115	4.0 x 100	311-0618	5.23	4.81	4.45
	6120	5.5 x 125	311-0620	6.29	5.83	5.32
	6125	6.5 x 150	311-0631	7.69	7.12	6.52
	6130	8.0 x 175	311-0643	9.59	8.88	8.14
Phillips (Ph	l)					
	6150	PH0 x 80	311-0540*	4.56	4.22	3.85
	6151	PH1 x 80	311-0552	5.77	5.35	4.90
	6154	PH2 x 100	311-0564	7.84	7.26	6.66
	6155	PH3 x 150	311-0576	7.26	6.72	6.16
Pozidriv (Pl	H)					
<b>A</b> '	6160	Pozidriv No.0 x 80	443-2988*	4.71	4.48	4.24
	6162	Posidriv No1 x 80	443-2990	5.42	5.12	4.86
	6164	PZ No.2 x 100	443-3002	7.67	7.29	6.91
	6166	Posidriv No 3 x 150	443-3014	10.14	9.63	9.13
*not availab	ole as Lasert	ip® version. Delivered with Sta	andard blade.			

## Safety screwdriver set Kraftform® Plus Series 100





- With Lasertip blade, voltage tester and rack
- For slotted and Phillips screws
- 7 piece set in display carton + rack

1	Content: each				
		0.4x2.5x80; 0.6x3.5x100; 0.8x4.0x100; 1.0x5.5x125			
	<b>+</b>	PH 1x80; PH 2x100			
	voltage tester	0.5x3.0x70			

			Price Each	
Type	Order Code	1+	5+	10+
160 l/7	443-3026	27.59	26.20	24.83



6.5mm; 4.5mm

PH1; PH2; PH3

PZ1; PZ2; PZ3

Contained bits:

#### **VDE** screwdriver set 7 pcs set in display carton





- Screwdriver Set Kraftform Plus Series 100 + Voltage Tester + Rack
- For slotted and Phillips screws

Content: each					
	2,5 x 80mm; 3,5 x 100mm				
	4,0 x 100mm; 5,5 x 125mm				
	PH1/80; PH2/100				
1 voltage tester					

<%>Wera

			Price Eac	h
Туре	Order Code	1+	5+	10+
11601/7	133-7752	19.65	17.86	16.37

## **Kraftform Kompakt® VDE**





VDE tools for mobile applications

- 1000V-Insulated Kraftform® handle with hexagonal nest for blades
- Insulated exchangeable blades (154 mm long) suitable for working at voltages up to 1000 V AC and 1500 V DC. They fulfil all requirements corresponding to national and international standards (IEC 60900:2004 or DIN EN 60900)
- Practical belt-pouch: all tools constantly at hand
- Compact, light and handy: one handle and different blades (including the PlusMinusprofile)

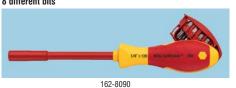
		Content:
	7 pieces set	18 pieces set
VDE-Blades	120-0040	120-0039
	0,4 x 2,5mm; 0,6 x 3,5mm; 0,8 x 4,0mm; 1,0 x 5,5mm	0,4 x 2,5mm; 0,6 x 3,5mm; 0,8 x 4,0mm; 1,0 x 5,5mm
<b>•</b>	PH1; PH2	PH1; PH2
		PZ1; PZ2
Ç		PH/S#1; PH/S#2
<b>G</b>		PZ/S#1; PZ/S#2
0		Switch key wrench square 6mm
0		Switch key wrench square 8mm
		Switch key wrench triangular
		Switch key wrench double pin
4		Voltage tester
Handle type:	1 Handle	817 VDE Kraftform®

43502

		Price	e Each
Mftrs List No.	Order Code	1+	5+
KRAFTFORM KOMPAKT VDE 60I/62I/65I/18	120-0039	42.11	40.04
KRAFTFORM KOMPAKT VDE 6017	120-0040	22.79	21.62

## 1000V Screwdriver with Bit Magazine

8 different bits





- Insulation up to 1000 V AC
- Blade made of high grade chrome-vanadium steel, through hardened
- Insulation moulded directly onto blade
- Ergonomic Wiha SoftFinish® multi-component handle with roll-off protection
- Stainless steel bits with strong magnet
- According to DIN 3126, ISO 1173, style D 6.3
- Bit length: 25 mm
- Alternative to a screwdriver set

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	
38090201	162-8090	17.25	16.40	15.55	

## Screwdriver Slotted VDE, 320 N Series







- Wiha SoftFinish handle
- Insulation moulded directly onto blade Manufactured according to DIN EN 60900, VDE IEC 900 to 1000 Volts
- Tested to the professional "GS" standard
- Blade through hardened

Blade:: Chrome Vanadium Molybdenum

	,		
Mftrs. Part No.	Tip Size	Blade Length	Length
320n-2.5	2.5mm	75	150
320N-3.0	3mm	100	175
320N-3.5	3.5mm	100	180
320N-4.0	4mm	100	190
320N-5.5	5.5mm	125	215
320N-6.0	6mm	150	250
320N-8.0	8mm	175	285
			241203

		Price	e Each
Mftrs. Part No.	Order Code	1+	5+
320n-2.5	401-7304	2.88	2.66
320N-3.0	831-232	3.44	3.16
320N-3.5	831-244	3.64	3.32
320N-4.0	831-256	4.32	3.96
320N-5.5	831-281	5.57	5.11
320N-6.0	831-300	5.91	5.42
320N-8.0	831-323	7.48	6.83

## **Screwdriver Phillips VDE**

21N Series







- Wiha SoftFinish handle
- Insulation moulded directly onto blade Manufactured according to DIN EN 60900, VDE IEC 900 to 1000 Volts Tested to the professional "GS" standard
- Blade through hardened

Mftrs. Part No.	Blade Length	Length
321 N 0	60	164
321 N 1	80	191
321 N 2	100	218
		2/12

				Each
Mft	s. Part No.	Order Code	1+	5+
321	N 0	381-2455	3.34	3.07
321	N 1	381-2467	4.03	3.69
321	N 2	381-2479	5.06	4.66

## Hex Nutdriver VDE, 322 Series







- Wiha SoftFinish handle
- Insulation moulded directly onto blade Manufactured according to DIN EN 60900, VDE IEC 900 to 1000 Volts
- Tested to the professional "GS" standard
- Blade through hardene
- Deep drawn socket







## 1000V Insulated Tools - continued

#### Hex Nutdriver VDE, 322 Series - continued

Mftrs. Part No. 322-5.5	Blade Length 125	Total Length 215
322-7.0	125	225
322-8.0	125	225
322-10.0	125	225
322-13.0	125	235

Mftrs. Part No.	Order Code	1+	Price Each 5+	10+
322-5.5	831-505	6.36	5.85	5.30
322-7.0	831-529	7.42	6.79	6.16
322-8.0	831-530	7.85	7.17	6.51
322-10.0	831-554	7.82	7.16	6.50
322-13.0	831-580	10.59	9.68	8.79

#### Screwdriver Set Slotted and Phillips VDE







- Wiha SoftFinish handle, 6 pieces Insulation moulded directly onto blade
- Manufactured according to DIN EN 60900, VDE IEC 900 to 1000 Volts
- Tested to the professional "GS" standard
- Blade through hardened

3,0 x 100; 4,0 x 100
5,5 x125; 6,5 x 150
1 x 80; 2 x 100

		Price	Each
Orde	r Code	1+	5+

831-335

### Screwdriver Set - VDE

Mftrs, Part No.

320NK6



11 piece fully insulated screwdriver set containing Parrallel tip, Phillips and Pozidriv screwdrivers manufactured and individually certified to EN60900: 1994. Tested to 10kV, suitable for working on live circuits of 1kV (A.C.) and 1.5 kV (D.C.). Chrome vanadium steel blades hardened tempered and chemically blacked. Fully insulated ergonomic handle soft grip handle with deep set blade sheath for total safety Contents:

27 08

 $75 \ x \ 2.5, \ 100 \ x \ 3.0, \ 125 \ x \ 4.0, \ 125 \ x \ 5.5, \ 150 \ x$ 6.5mm, No.  $0 \times 60$ , No.  $1 \times 80$ , No.  $2 \times 100$ , No. 0x 60, No.1 x 80 and No.2 x 100

	Price Each
Order Code	1+
135-9499	33.90

#### **Ergonomic VDE Screwdrivers**





493906



- Set of Ergo screwdrivers for work on live equipment up to 1000 volts
- Meet all criteria for IEC900, EN60900 & DIN-EN 60900
- Three component handles: combines strong core with good grip
- Blade fine polished vanadium extra, bright chrome plated, entirely hardened, & tip black oxidised

5 Piece Set Contains: Slotted 0.5 x 3 x 100, 0.8 x 4 x 100, 1 x 5.5 x 125 Phillips No. 1 x 80, No 2 x 100

			2317
Mftrs.	Order Code	Price Each	

352-4164

#### VDE Screwdriver Sets





- Tested to 1000V
- Handle moulded direct to bar for durability High grade steel bar allows for high torque and reduce
- the chance of tip breakage Anti-slip soft grip handle provides excel-
- lent comfort and grip
- Large diameter handle offers extra torque for driving screws
- Smooth doomed end for spinning speed and comfort Colour coded ends for easy identification

Contents:

246080

241128

25 18

6 Piece: Parallel: 2.5 x 50, 3.5 x 75, 5.5 x 150mm Phillips: PH1 x 100, PH2 x 125mm and 1 x Voltage tester

**10 Piece**: Parallel: 2.5 x 50, 3.5 x 75, 5.5 x 150mm Phillips: PH0 x 75, PH1 x 100, PH2 x 125mm Pozidriv: PZ0 x 75, PZ1 x 100, PZ2 x 125mm 1 x Voltage tester and carry case

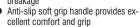
			Price	Each
Sets	Mftrs. List No.	Order Code	1+	5+
6 Piece 10 Piece	0-65-441 5-62-573	152-0955 152-0962	20.87 25.30	19.22 23.39

#### FatMax XL 6PC VDE Screwdriver Set





- Tested to 1000V
- Handle moulded direct to bar for durability
- High grade steel bar allows for high torque and reduce the chance of tip breakage



- Large diameter handle offers extra torque for driving screws
- Smooth doomed end for spinning speed and comfort Colour coded ends for easy identification

Contents Parallel: 2.5 x 50, 3.5 x 75, 5.5 x 150mm Phillips: PH1 x

100, PH2 x 125mm and 1 x Voltage tester 495876 495868

**FACOM** 

		Price Each		
Mftrs. List No.	Order Code	1+	5+	
0-66-309	152-0960	27.21	25.07	

### **Electronic Screwdrivers**

AYB.J Borneo ® Combination Head Screwdriver Sets For Electrical Terminals



Supplied in box.

						48714	14
No. of				Price	Each		
Screw-Drivers	Content	Order Code	1+	5+	10+	20+	
4	Pozidriv®: 1x100, 2x125 Philips: 1x100. 2x125	137-5445	32.61	31.95	31.31	30.31	

### **VDE Modulo Terminal Screwdriver Set**





- Ergonomic dual compound handle offering grip and comfort
- Contoured blade insulation for better access
- Toughened high alloy steel blade for high wear resistance
- Precision machine tip for ultimate screw fit and high torque output
- Non roll flats, won't roll off uneven surfaces
- Permanent tip type marking on the end of the handle for convenient identification Pack of two: 1pt x 80 and 2pt x 100

448552 List No. **Order Code** 5+ 440003 128-3247 10.30 10.00





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#### **Insulated Hacksaws**







Type Test Requirement

- Low Temperature Impact Test carried out at 20°C
   Extreme Cold Climate, Category "C", Impact Test carried out at 40°C
   Adhesion Test carried out after 168 hrs at 70°C
- Flame Retardant
- Indentation Test

100% Production Test

10KV for 3 minutes submerged in water

524481

	Mftrs.	Length			Price Each	
	List No.	Blade Overall	Order Code	1+	3+	5+
Junior Hacksaw	IT/HSFJ	150mm 270mm	165-5275	39.90	37.90	35.95
Hacksaw 12"	IT/HSF12	300mm 480mm	165-5276	9.90	9.40	8.90

## Tape Measure ,3M, Non-Conductive

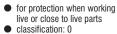




						524485
	Length	Mftrs. List No.	Order Code	1+	Price Each 3+	5+
Non-Conductive Tape Measure	e 3m	IT/3MT	165-5277	33.17	31.83	30.53

#### **Electricians Gloves**





tested according to DIN EN/ IEC 60903

					40470	)1
				Price Eac	:h	
Mftrs. Part No.	Size	Order Code	1+	5+	10+	
98 65 40	9	916-8575	37.70	36.55	35.45	
00 65 41	10	016 0502	26.55	25.45	24.25	

#### **Insulating Mat**

98 67 05





for protection when working live or close to live

916-8591

tested according to VDE 0680/1

#### 10+ Mftrs. Part No. Dimensions Thickness Order Code

1.6mm

## **Cutters - Cable**



- Sturdy wire and cable cutting scissors
- Stainless steel
- Comfortable plastic bows
- Wire stripping notch Length: 140mm

419484, 422826

		Price Each
Mftrs list no.	Order Code	1+
492001	109-8807	10.30

#### Cable Shears Type 9505



- For universal use; cuts cables up to
- $10~\text{mm}~\varnothing\,/\,24~\text{mm}^2$ With opening spring and locking
- lever Blades made of stainless steel
- Oil-hardened and tempered

**Cutting performances** Length Mftrs. Part No. Copper/Aluminium Ø mm/mm<sup>2</sup> 165 95 05 165 10/24

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
95 05 165	876-331	15.05	14.60	14.15

#### **Combination Shears**



240781



- Combination shears for cutting cardboard, plastics, aluminium, brass and copper foils
- Not suitable for steel wire or iron sheets
- Precision ground, hardened blades With opening spring and locking lever With guard
- Adjustable screw joint
- Blades made of stainless steel
- Oil-hardened and tempered

Material: stainless steel Handles: plastic coated

190mm Weight: 110g Length:

				24080
Mftrs. Part No. 9505190	Order Code 381-4026	1+ 11.65	+	+

#### Cutter Stainless Steel



- General purpose stainless steel cutter
- Suitable for cutting a wide range of materials: plastic, cable, wire, laminate, tinplate, leather, etc.

	Price Each
Order Code	1+
313-3400	5.72





500 x 500mm



35 45

36.55

404702

34.35

## **Cutters - Cable - continued**

#### **Long Bladed Shear**





- Combines long cut of tinner's snips with the strength of compound action
- Great for making long, fast cuts in several types of material including: plastic, sheet metal, aluminium, vinyl siding and screening
- Compound action multiplies the force of the hand by 5 times
- Cuts up to 20-gauge steel Non-slip, serrated jaws and non-slip textured grips

		Price Each
Mftrs. List No.	Order Code	1+
M300	722-2075	22.00

#### **Kevlar Cutter**

## **LINDSTROM**



- Designed to cut through Kevlar fibres. High carbon steel blades.
- ESD safe non-slip grips to cushion the hands
- Ideal for many other applications such as cutting insulation, cables, ties, and corded material of all types.

Mftrs.		Price Each			
List No.	Order Code	1+	5+	10+	20+
HS6000	385-2003	43.30	41.55	39.85	38.10

#### **Cable Cutters**

## **DURATOOL**



- 2-component handle with slip guard
- Shock proof handle
- Drop forged, heat treated fully polished steel
- Available in two sizes: 160mm or 210mm

	Cutting Capacity: wire			
Size	Copper	Aluminium		
160mm	12mm	12mm		
210mm	14mm	14mm		

B.C. Front	
	493008

Size	Size Price Each					
	Order Code	1+	5+	10+	20+	
160mm	149-6325	12.10	11.23	10.04	8.73	
210mm	149-6326	13.63	12.66	11.30	9.84	

## Cable Shear Typ 951





- for cutting copper and aluminium cables, single and multiple wire
- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crush-

- ing and deformation easy cutting with one-hand operation with guard
- adjustable screw joint, self-locking
- forged
- special tool steel, oil-hardened and tempered
- universal use for dismantling and stripping

Material:			
Material of handle:		Pla	stic
Mftrs. Part No.	Head	Cutting Performance Copper Ø mm/mm <sup>2</sup>	Length
95 12 165	browned	15/50	165
			240775
Military Doublin	0	Price Eac	
Mftrs. Part No.	Order Code	1+ 5+	10+

22.45

876-318

#### **Cable Cutting Pliers**





Cable/wire stripping pliers that can both cut and strip copper/aluminium cables. Manufactured from carbon steel with all surfaces phosphated and heads with mirror polish finish. Handles are PVC coated.

21.80

356990

Model	Stripping Capacity (mm)	Cutting Capacity (mm)	Order Code	Price Each
2233D-160	10	50/35	429-7040	16.35
2233D-200	13	70/50	429-7052	20.05
2233D-240	16	95/70	429-7064	22.70

#### **Cable Cutters Red Line**





- For one handed use on cables up to 14mm / 9/16 " in dia (50mm²)
- Compact but extremely powerful on cop-
- per and aluminium cable Razor sharp edges cut cleanly through cable with no 'squeeze', additional knife like edges can also split insulation with
- Not suitable for steel wire

214189

Length	Order Code	Price Each 1+
160mm	725-4301	26.55

#### Cable Shear





- for cutting copper and aluminium cables, single and multiple wire
- not suitable for steel wire and hard drawn copper conductors
- precision ground, hardened blades
- clean and smooth cut without crushing and deformation
- easy cutting with one-hand operation initial and final cut (upper and lower blade) allows cables of up to 20 mm dia. to be cut low handforce required due to favourable lever ratio and new blade geometry with
- guard
- adjustable screw joint, self-locking

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special tool steel, oil-hardened and tempered

		Cutting Performance		Length	Weight
		Cu +	Al		
Mftrs. Part No.	Head	Ømm	mm <sup>2</sup>	mm	kg
95 12 200	burnished	20	70	200	340
95 16 200	Chrome Plated	20	70	200	345

24284

				Price Each	
Description	Mftrs. Part No.	Order Code	1+	5+	10+
Cable Shear	95 12 200	413-2075	34.75	33.70	32.65
Cable Shear	95 16 200	876-320	37.00	35.90	34.80

#### **Universal pliers for Data Cable** STP





- for cutting the whole cable, the single conductor, the shield and the plastic core
- steel point at the joint for longitudinal scratching of the shield foil
- prismatic blades below the joint for dismantling the cables
- special tool steel, oil-hardened

					404697
				Price Eac	h
Mftrs. Part No.	Length	Order Code	1+	5+	10+
13 72 160 SB	160mm	916-8362	32.17	29.28	26.82

#### **Cutter for Ribbon Cables Type 94**





- for crushing-free cutting of ribbon cable up to 56 mm width
- exchangeable cutting base with fence angle for rectangular cuts
- replaceable, conventional trapezoidal blade
- with opening spring and locking lever
- handles and blade mounting made of high-strength special grade steel

Material: Material of handle:		Special grade steel Plastic	
Type 94 15 215 94 19 215	Head chrome plated spare blade	Cutting performance Ribbon cable up to 58mm	Length 215
			245801

			Price Each	
Туре	Order Code	1+	5+	10+
94 15 215	876-290	49.25	47.75	46.30
94 19 215	876-306	7.80	7.55	7.35

## Wire Rope Cutter





- for medium hard wire up to 6 mmdia., e.g. Bowden cords, but also for cables and steel
- with opening spring and locking lever
- cutting edges additionally induction hardened Schneidleistung
- special blade geometry prevents the wire rope fanning out

95 61 190	10	6	4	190
				404698
			P	rice Each

			Price Eac	h
Mftrs. Part No.	Order Code	1+	5+	10+
95 61 190	916-8486	25.05	24.30	23.55

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www.global-legislation.com

#### **Wire Rope Cutter**



- Professional tool which will cut wire rope, fencing wire, barbed wire, Bowden 

  Comfortable grips
- Angled blades for clean cut

Cutting Capacity (mm)			
Stranded Mild Steel	6mm	High Tensile Steel	4mm
Solid Spring Steel	2mm	Mild Steel	4mm

225196

		Price Each
Overall Length	Order Code	1+
190mm/7½"	725-4350	15.95

#### **Ratchet Cable Cutter**





- Compact heavy duty cutter with ratchet mechanism for effortless cutting cable up to 32mm
- Featuring high quality chrome molybdenum profiled steel blade for easy cutting of hard drawn copper, aluminium cable or 200 pairs of communications cable
- Full ratcheting cycle for easy use

Mftrs

List No

430007

- Integral locking mechanism and impact resistant
- Anti-slip handles for safety
- Not designed for use on steel or ACSR cable
- Length: 190mm
- Cutting Capacity: 32.0mm∅

Price Each Order Code 128-3223 99.89 94.24

## **High Leverage End Cutting Nippers**





- With cutting edges for soft, hard and piano wire
- High cutting capacity with little effort due to optimum coordination of cutting edge angle and transmission ratio
- Cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- Chrome Vanadium electric steel, oil-hardened and tempered
- Handles plastic coated

Mftrs. Part No.	Cı	utting Performand	Length	Weight		
	soft	medium	hard	Piano	mm	g
67 01 160	>4.0	3.4	2.5	2.0	160	240
67 01 200	>4.0	4.2	3.0	2.5	200	330

					24283
	Mftrs. Part No.	Order Code	1+	Price Each 5+	10+
High Leverage End Cutting Nipper High Leverage End Cutting Nipper		413-5465 413-5477	17.35 21.55	16.85 20.90	16.30 20.25

## **End Cutting Nippers**

Material:

Mftrs. Part No.





- With cutting edges for soft and hard wire
- Also suitable for twisting and cutting binding wire
- Cutting edges additionally induc-tion hardened, cutting edge hardness approx. 61 HRC High grade special tool steel, oil-
- hardened and tempered Weight Cutting performance wires Ø mm Length

68 01 200	soft >4	medium 3.5	hard 2.8	mm 200	g 335
					24301

Special Tool Steel, Oil-hardened

plastic coated

	Mftrs. Part No.	Order Code	1+	Price Each 5+	10+
End Cutting Nipper	68 01 200	413-5489	9.10	8.10	7.29







## **Cutters - Cable - continued**

#### **High Leverage End Cutting Nippers**





- With cutting edges for soft, hard and piano wire
- High cutting capacity with little effort due to optimum coordination of cutting edge angle and transmission ratio
- Cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- Head polished, handles plastic coated
- Chrome Vanadium electric steel, oil-hardened and tempered

Cutting Performance Wires ∅ (mm)							
Mftrs. Part No.	soft	medium	hard	Piano	Length		
61 01 200	1 - 6	4	3,5	max. 3	200mm		

403253

		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
61 01 200	916-8400	30.45	29.55	28.60	

## **Concretors Nipper (Tower Pincers / Steel Fixers Nippers)**





- to twist and cut wire in one operation: fast, reliable and economical
- unobtained precision and long service life make these the most widely purchased concretors' nippers in the world
- special tool steel, oil-hardened and tempered

						040400
					Price Eac	h
Description	Length (mm)	Mftrs. Part No.	Order Code	1+	5+	10+
Concretors Nipper	250	99 00 250	541-6670	6.56	6.06	5.73
Concretors Nipper	280	99 00 280	541-6681	9.35	9.05	8.80

## **Wire Strippers**

#### Cable Knife





16 20 65

- Stripping capacity: 8-28mm Length: mm165
- For stripping all common round cables from 8.0 up to 28.0 mm dia.
- Impact resistant plastic body Adjusting screw for cutting depth adaptation
- Self-cocking holding lever
- Spare blade inside the handle
- Supplied with knife and hook blade and protective cap

					24	0/94
				Price Each		
	Mftrs List No.	Order Code	1+	5+	10+	
Cable Knif	e 1620165 SB	348-3721	14.35	13.90	13.50	
Spare blac	e 1629165	348-3733	5.05	4.90	4.75	

#### **JOKARI Cable Knife**





- Double-sided trimming knife blade, hook and straight
- Quick and exact cutting of round and flat cable Spare blade stored in handle
- Capacity: 8-28mm

419467, 422818

Mftrs List No.	Order Code	Price Each
T10280	109-8786	10.95

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#### Cable Knife



- solid, fixed straight blade
- replaceable specially ground blade blade made of stainless steel
- with hinged blade guard, integrated in the handle, captive
- back of the blade plastic coated to avoid short circuit
- handle with slip guard
- VDE tested according to DIN EN/IEC 60900 : 2004

404703

			Price Eac	h			
Description	Mftrs. Part No.	Blade	Total	Order Code	1+	5+	10+
Cable Knife Spare Blade	98 56 98 56 09	50mm 50mm	185 -	916-8559 916-8567	13.20 5.60	12.80 5.45	12.40 5.25

#### **Cutting Knife**



- ergonomic safety handle
- stable and fixed blade
- transparent cap
- isolated and tested according to VDE norm

24078	3

	Länge					<b>Price Eac</b>	h
Total	Blade	Weight	Mftrs. Part No.	Order Code	1+	5+	10+
180mm	50mm	70g	9852	348-3599	8.30	8.05	7.80

#### Cable Sheath Knife



98 55

- with slide shoe at cutting tip
- sickle shaped blade of stainless steel
- isolated and tested according to VDE norm
- no damage at lead isolation
- transparent cap

2408

Läng	je				1	Preis pro Stü	ck
Gesamt-	Klinge-	Gewicht	Тур	BestNr.	1+	5+	10+
155mm	38mm	90g	9855	348-3587	20.00	19.40	18.80

## **Dismantling Tool**





- for stripping all common round cables
- self-cocking holding lever
- with adjusting screw for cutting depth adaptation
- turnable blade for circular and longitudinal cutting
- spare blade inside the handle
- impact resistant plastic body made of wear-resistant polyamide
- secure grip due to soft component material on handle and holding lever to avoid slip-

405338

		Price Each		
Mftrs. Part No.	Order Code	1+	5+	10+
16 20 16 SB	916-8613	13.15	12.75	12.35

Over 480,000 products online







#### **Dismantling Tool**





- for stripping all common round cables
- self-cocking holding lever
- with adjusting screw for cutting depth adaptation
- turnable blade for circular and longitudinal cutting
- spare blade inside the handle
- impact resistant plastic body made of wear-resistant polyamide
- secure grip due to soft component material on handle and holding lever to avoid slip-

				405342
		Price Each		
Mftrs. Part No.	Order Code	1+	5+	10+
16 20 28 SB	916-8621	13.15	12.75	12.35

#### **Coated-Wire Stripping Tweezers**





For	stripping	off	varr	ished	insula	tion	on
cop	per wires						

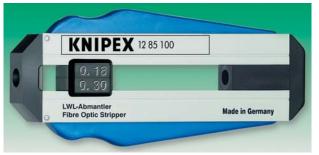
- Precisely milled blades for clean stripping
- Blades for other wire diameters available separately

Material (Tweezers): Material (Handle):	Spring steel Laminated plastic
Stripping Capacity mm <sup>2</sup>	Length mm
0.6	120
0.5	
0.6	
8.0	
	240793

Mftrs	s List No.	Stripping Capacity	Order Code	1+	Price Each	10+
	ezers + 0.6mm E 1 120	Blade 0.6 mm <sup>2</sup>	875-958	7.55	7.30	7.10
15 1 15 1	9 005 9 006 9 008	0.5 mm <sup>2</sup> 0.6 mm <sup>2</sup> 0.8 mm <sup>2</sup>	875-960 875-971 875-983	2.35 2.35 2.35	2.30 2.30 2.30	2.20 2.20 2.20

#### **Stripping Tool**





- to remove primary coating of fibre optics 0.125 mm dia.
- blade dia. 0.18 mm, hole for cable feeding 0.30 mm dia.
- adjustable length stop
- shock-resistant plastic body

						240014	
	Stripping				Price Each		
Mftrs. Part No.	Ø	Length	Order Code	1+	5+	10+	
1285100SB	0.125 - 25mm	100mm	348-3680	66.75	64.75	62.75	

## **Troubleshooting tips**



Chat live online to one of our technical engineers at www.farnell.co.uk

## **Mini Stripping Tool**





- for stripping thin copper conductors of 0.25 0.8 mm dia
- precise stripping because of the tool's stepwise adjustment to the conductor's diameter
  - with wire cutter
  - adjustable length stop from 4.0 15.0 mm

  - with locking device shock-resistant plastic body

240812

		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
1280100SB	348-3678	31.55	30.60	29.65	

#### **Precision Wire Strippers**





A range of three precision hand wire strippers designed to remove KYNAR, TEFZEL, PTFE, Kapton, Mylar and PVC insulation from solid or stranded wire. They are excellent for stripping wire wrap wire as the stripper does not dent or nick the conductor. Each stripper is manufactured for a particular size of conductor covering the range 0.25, 0.3 and 0.4mm

		Price Each	
Description	Order Code	1+	
Wire Stripper - 0.25mm	146-419	19.24	
Wire Stripper - 0.3mm	146-420	19.24	
Wire Stripper - 0.4mm	146-421	19.24	
			۱

## Micro-Wire Stripper



- Easily adjustable to
- 6 wire diameters
- Adjustable length stop with 15 mm scale
- Precision metal cutting and stripping blade, hardened
- Integrated wire cutter for copper wires up to 0,8 mm Ø

Adjusts to:						
mm	0.25	0.30	0.40	0.5	0.60	0.80
AWG	30	28	26	24	22	20
						516

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
330012	162-0972	23.59	22.40	21.58		

# **Precision Wire Strippers**



New









## Wire Strippers - continued

### **Precision Wire Strippers - continued**

ESD - continued

- Blades accurately ground and fully hardened for long life
- 50mm scale with 1mm graduations and length stop

For solid and standard wire with PVC, Teflon or similar insulation

ESD Adjustable Precision Wire Stripper   Mftrs List No. 3757 ESD 2   725-4295								
mm 0.25 0.30 0.40 0.50 0.60 0.80 AWG 30 28 26 24 22 20	E	SD Adjustable P	recision Wire S	tripper				
AWG 30 28 26 24 22 20				Adjustable to (	solid wire) size:			
	mm	0.25	0.30	0.40 `	0.50	0.60	0.80	
2228	AWG	30	28	26	24	22	20	
							2228	

Mftrs. List No. Order Code	Price Each
	• •
3757 ESD 2 <b>725-4295</b>	30.85

## **Precision Wire Strippers**



Compact wire strippers offering fast and precise wire stripping.

- Designed to remove Kynar, Tefzel, PTFE, Kapton, Mylar and PVC insulation
- Adjustable conductor size strippers
- Adjustable to 6 diameters
- 50mm depth stop scale with 1mm graduations
- Front hole diameter of 2mm

Order Code	Adjusts to	:					
141-6123	mm	0.12	0.16	0.20	0.25	0.30	0.40
	AWG	36	34	32	30	28	26
136-4514	mm	0.25	0.30	0.40	0.50	0.60	0.80
	AWG	30	28	26	24	22	20
146-1967	mm	0.30	0.40	0.50	0.60	0.80	1.00
	AWG	28	26	24	22	20	18
							479517.40585

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
330009	141-6123	22.02	20.62	19.82	18.30	
330013	136-4514	22.02	20.18	19.82	18.29	
330011	146-1967	22.02	20.18	19.82	18.29	

#### **Coax Stripping Tool**





Weight (g) 22

**D** URATOOL





- for stripping Coax-cables (RG 58, RG 59 and RG 62)
- for stripping outer sheath, shield and dielectricum in one operating cycle
- with three built-in blades
- the cutting depth of each blade can be adjusted individually by means of a hexagonal key (Allen key)
- the blade spacing remains constant
- tool body made of plastic

Mftrs Part No.

					2430	09
Description	Mftrs. Part No.	Order Code	1+	Price Each	10+	
Coax Stripping	16 60 05 SB	413-4084	17.80	17 25	16.75	
1001		413-4004	17.00	17.20	10.70	

Length (mm) 100

#### **Rotary Coaxial Cable Stripper**



- A high-quality rotary coax cable stripper which is suitable for stripping RG6, RG58 and RG59 cables as well as cable with a diameter between 4 and 10mm
- Simply insert the cable into the tool, swing the tool two or three times around the cable and the outer sheath is stripped and the braid is exposed
- The blades can be adjusted to the cable size by inserting an Allen key (supplied) into the built-in hex key and turning clockwise for larger cables, and anti-clockwise for smaller diameter cables

482913 411436 Price Each Order Code 1+ 5+

5.77

#### **Rotary Coaxial Cable Stripper**



- For stripping RG-58, RG-59/62, RG6 and 60S  $\,$ coaxial cables
- Each of the three blades is independently adjustable and once set is capable of 2 or 3 step strips without further adjustment

2	2	2	9

		Price Each
	Order Code	1+
Coax stripper	312-5658	12.13

#### **LC CST Strippers**





LC CST-58/59	0.315" outer jacket 0.157" inner jacket	2 and 3 level adjustable	RG58,RG59,RG62	AU, RG6	
LC CST-11	0.315" outer jacket 0.157" inner jacket	2 level	RG8,RG11 and RG	213	
LC CST CATV F	0.236" outer jacket	2 and 3 level adjustable	RG59,RG6		
LC CST-MINI	0.344" outer jacket 0.094 inner jacket	2 and 3 level adjustable	RG178,RG179,RG1 RG188A,RG405	88,RG187	232022
			Price Each		
Mftrs. List No.	Order Code	1+	3+	5+	
LC CST-58/59 LC CST-11 LC CST CATV F LC CST-MINI	386-3293 386-3300 386-3311 386-3323	13.67 13.67 13.67 13.67	12.88 12.88 12.88 12.88	12.35 12.35 12.35 12.35	

## Data SureStrip™

UTP, STP, 25-Pair, Flat Satin Cable - Cutter and Stripper



Overall length = 220mm

Universal, easy to use cable cutter and stripper for data, telephone and network solutions.

- Cuts and strips unshielded twisted pair (UTP) and shielded twisted pair (STP)
- Cuts and strips 25-pair multi-conductor cables
- Cuts and strips 4, 6 and 8 conductor flat satin cables
  - Cuts and strips 14 8 AWG (2.5 -0.75mm)

240422

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
1116	413-2713	14.15	13.61	13.21

#### High-Precision Wire Stripping Tool Specially developed for thin cables



World Novelty: Nitronic MiniStrip



<u>Onitranic</u>

MiniStrip with Bench Clamp





5.28

www.farnell.co.uk

145-4282

Nitronic MiniStrip features a patented four-blade system, which provides accurate and exactly repeated stripping of cables. The coating is removed by cutting with rotating blades and strip-off in one single step. This innovative procedure allows processing of fiberoptic cables (primary coating) as well as coax and Teflon coated cables. The high precision avoids damage to wires or fibers. Precision blade diameter control with a micrometer scale, allows a quick set-up of diameter. The locking screw of the diameter adjusting system makes the tool available even for military applications (mil-spec). The high quality of the product guaranties a precise repetitiveness.

#### Features

- Wire size range from 0.16 mm (0.006") to 1.5 mm (0.06") (15 34 AWG) depending on isolation type down to 0.10 mm (0.004") 38 AWG
- Outer cable diameter max. 2.5 mm (0.1")
- Stripping length up to 15 mm (0.6")
- Four cutting blades on one plane
- Rotating cut
- No wire damage
- Fast and easy change of length and diameter
- Mobile, no power supply
- HSS blades replaceable by user without tools
- Suitable for Teflon, PVC, Kynar and Kapton isolations
- Attractive price

- Titan coated carbide blades for special applications
- Bench clamp for production use

MiniStrip is developed and manufactured in Switzerland by Nitronic. For more than 20 years, Nitronic develops electronical / microelectronical controls and mechanical solutions for cable



Centring Device

#### NEW MINISTRIP: now also available with centring device!

The centring device allows to position the cable at exactly  $90^{\circ}$  to the cutting blades, thus increasing the cutting accuracy and avoiding possible damages to the wire. Moreover in case the user doesn't pull the cable straight, but at an angle (as it often happens), the centring device prevents the wire to be shaved by the blades. The user impact in the stripping process is therefore kept to a minimum. The use of this extremely precise version of the MiniStrip is recommended for high precision applications, particularly when the stripped wire is to be inspectioned with microscopes or magnifiers.

|--|

				Price Each	
Description	Mftrs List No.	Order Code	1+	3+	+
Stripping Tool High Precision Stripping	MINISTRIP	843-9141	306.93	296.03	
Tool with centring device	MINISTRIPZH	112-1011	467.68	452.08	
Bench Clamp	MS-1431	843-9176	50.12	46.00	
Price per Set (4 pcs)					
Spare Blades, HSS Spare Blades,	MS-0519S	843-9150	47.37	43.94	
titanium coated carbide	MS-0519SH	843-9168	63.17	58.35	

## **Oden Precision Stripping Tool**





Oden is a precision stripping tool for removing sheath from signal, telephone, audiovisual, instrumentation and data transmission copper and fibre optic cables.

- Precise: Fine adjustability and repeatability assured by 9-position adjustment wheel.
- Easy to use: Simply squeezing Oden together opens the stripping cavity insert cable, rotate once, remove from cable and pull off scrap insulation sheath.
- Safe: Smooth, rounded, pocketable and lightweight design. No open blade.
- Flexible: Strips the sheath from most multi-core and fibre optic cables up to 11mm.
- Reliable: Tested to over 50,000 cycles

Oden Stripping Tool	Insulation Thickness (mm) Up to 1.0mm	Cable Capacity (mm) 2.5 - 11mm	Length 150mm	Weight 116g 246726

	Mftrs. List No.	Order Code	Price Each
Oden Stripping Tool	4320-0617	422-8900	8.14

#### **Cable Stripper**





New

(CK)

- Dual purpose cable stripper and plastic tube cutting tool
- Cuts and removes insulation from cables, solid conductors and standardised wire
  - Safe and fast stripping of cable insulation up to strong outer sheaths
- Automatic change from circular to longitudinal cut
- Adjustable cutting depth and replaceable hardened blade ensure a fast and easy cut
- Capacity Ø: 6-28mm, 1" tube
- Length: 90mm

419477, 422821

Description	Mftrs. list no.	Order Code	Price Each
Cable stripper	430004	109-8789	35.50
Spare blade	395041	109-8790	11.40

#### **Dismantling Tool Type 163**



Length 16 30 135 SB 120 16 39 135 Spare Blade

for dismantling round PVC, rubber, silicone, PTFE cables from 6.0 - 29.0 mm dia. self-cocking holding lever with knurled nut for cutting depth adjustment changing from circular to longitudinal cutting by turning the tool body spiral cutting for longer stripping areas shock-resistant plastic body exchangeable blade

Material: Fiber Glass forced plastic Material of handle: Shock-resistant plastic body

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
16 30 135 SB	875-934	38.15	37.00	35.85
16 39 135	875-946	7.50	7.30	7.05

### **Tor Heavy-Duty Cable Stripping Tool**





Tor is a professional stripping tool for cables of all insulation types. Supplied with both small and large hooks to allow a cable stripping capacity of 4.5mm to 40mm

- Large capacity: Interchangeable hook feature means that Tor can replace two or more similar products in the toolbox.
- Easy to use: Positive locking positions for circular, lengthways and spiral strips.
- No special tools required to change hooks.
- Durable: Replacement cutting blades can be stored in a pocket located within the tool body.
- Reliable: Tested to over 100,000 cycles

	Insulation	Cable Capacity	Cable Capacity		
	Thickness (mm)	Large Hook (mm)	Small Hook (mm)	Length	Weight
Tor Stripping Tool	Up to 4.5mm	20 - 40mm Dia	4.5 - 25mm Dia	150mm	116g
					246715

Descritption	Mfrs. List No.	Order Code	Price Each 1+
Stripping Tool (2 Hooks)	4320-0617	422-8893	31.35
Spare Blade Sets Blade, Spare	4320-0618	422-8959	13.06

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## Wire Strippers - continued

#### **Cable Stripper**





Capacity 4.5 to 28mm. Eliminates damage to inner conductors. Simple to use.

The MKO2 has been specially designed to quickly remove the outer sheathing on multicore, co-axial and circular cables. The tool is fitted with an insulation ripping blade to remove insulation from rubberised or cheap sticky cables.

			224	200
Description	Mftrs. List No.	Order Code	Price Each 1+	
Stripper Spare blades, pack of 5	MK02	440-796 202-277	18.11 13.70	

#### **Universal Stripping Tool**





- for dismantling and stripping all common round and damp-proof installation cables between 8.0 - 13.0 mm dia.(e. g. 3 x 1.5 mm² up to 5 x 2.5 mm²)
- also for use in conduit and distribution boxes
- double shell, folding back stripping tool
- with opening spring and locking lever
- practical clip for safe transport
- with additional blade for longitudinal cuts
- telescopic blade inside
- stripping device for cross-sections 0.2 0.3 0.8 1.5 2.5 4.0 mm<sup>2</sup>

405343

			Price Eac	h
Mftrs. Part No.	Order Code	1+	5+	10+
16 85 125 SB	916-8630	25.50	24.75	23.95

#### Data Cable Stripper





- For stripping data cables of 5 to 15mm diame-
- 6 preset stripping positions
- With opening spring and holding slider
- Glass fibre reinforced plastic housing

Stripping range Dia. 5-15mm, AWG 24-11

Length	Weight
(mm)	(g)
125	65

245826

		Price Each			
Type	Order Code	1+	5+	10+	
1665125SB	381-4014	27.15	26.35	25.50	

#### **Coax Stripping Tool**





mmLength:100 gWeight:35

- for dismantling and stripping all common round and damp-proof installation cables between 8.0 - 13.0 mm dia.
- also for use in conduit and distribution boxes
- double shell, folding back stripping tool with opening spring and locking lever practical clip for safe transport
- tool body made of fibreglass reinforced polyamide
- Modell: 16 85 125 SB
- with additional blade for longitudinal cuts
- telescopic blade inside
- stripping device for cross-sections 0.2 - 0.3 - 0.8 - 1.5 - 2.5 - 4.0 mm²

240823

		Price Each		
Mftrs. Part No.	Order Code	1+	+	+
1660100SB	333-0977	12.10		

#### Stripax Tool





Stripping and cutting tool for flexible, stranded and solid conductors with PVC insulation for cross sections 0.08mm to 6mm² (AWG28-10). Stripping length adjustable by setting wire stop.

Jaws open automatically after stripping, no splay of individual strands, special self adjustment stripping blades avoid damage of conductor, adjustable to different insulation cross sections, strips multiple conductors, even seven flat ribbon conductors simultaneously

Strips double-insulation conductors in two steps,

no additional adjustment necessary, precise, self adjusting cable cutter. Long working life, improved ergonomic design.

	Price Each
Order Code	1+
828-087	42.21

## **Self-Adapting Universal Insulation Stripper**





- Fully automated adjustment to the respective cross-sections, depending on insulation thicknesses, in a range from 0.03 10.0mm² (AWG 32 7)
   Fine adjustment of the tool is no longer necessary due to the unique self-infeeding of
- the cutting depth, preventing damage to the conductor
- Steel restrain jaws with integrated cutting edges allow professional stripping of cables with demanding insulating materials like Teflon® and Radox®
- Wire cutter for copper and aluminium wires, multiple stranded up to 10mm<sup>2</sup> and single stranded up to 6mm<sup>2</sup>
- Smooth operating mechanism
- Easily interchangeable screw-on style blades, length stop and restrain jaws with cutting edges available separately
- Body made of tough fibreglass reinforced plastic
- Ergonomic soft-grip handle

374579

				Price Each	
	Mftrs List No.	Order Code	1+	5+	10+
Universal Insulation Stripper	12 42 195	815-6921	56.15	54.45	52.80
Spare Blades	12 49 21	916-8311	11.75	11.40	11.05
Spare Restrain Jaws	12 49 22	916-8320	11.75	11.40	11.05
Spare Length Stop	12 49 23	916-8338	1.50	1.45	1.40

### Self-Adjusting Insulation Strippers





- for single multiple and fine-stranded wire cables with plastic or rubber insulation
- adjusts automatically to the respective cable cross-section, which prevents damage to the conductor
- cutting depth can be adjusted for different insulation materials
- with wire cutter for copper and aluminium wires, multiple stranded up to 10 mm<sup>2</sup> and single stranded up to 6 mm<sup>2</sup>
- smoothly operating mechanism
- easily interchangeable blades and plastic jaws
- low weight
- body made of tough fibreglass reinforced plastic
- range of application: conductors 2.5 16.0 mm<sup>2</sup>

VIftrs. Part No.	Stripping performance
12 40 200	0,08 - 10,0mm <sup>2</sup>
12 49 01	Spare blade
12 49 02	Spare clamping jaws

240846

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
12 40 200	876-264	44.05	42.75	41.40
12 49 01	876-276	12.00	11.65	11.30
12 49 02	876-288	2.75	2.65	2.60

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#### **Self-Adjusting Insulation Stripper**





- Compact standard tool for all current cable cross-sections and insulating materials
- For single, multiple and fine stranded cables of 0.2 up to 6.0mm<sup>2</sup> with standard insulation
- Adjusts automatically to the respective cable crosssection, which prevents damage to the conductor
- Comfortable operation
- Narrow head for use in confined areas
- Wire cutter for copper and aluminium wires up to 2.5mm<sup>2</sup>
- Adjustable length stop from 6.0 18.0mm for constant stripping length during repetitive
- Easily interchangeable blades
- Body made of tough, fibreglass reinforced plastic with ergonomic soft plastic gripping zone in the handle

					374605
				Price Each	
	Mftrs List No.	Order Code	1+	5+	10+
Insulation Stripper Spare Blades	12 62 180 12 69 21	815-6930 916-8346	24.65 7.15	23.90 6.95	23.15 6.70

#### Self-Adjusting Insulation Stripper



New



- for single, multiple and fine-stranded wire cables with plastic or rubber insulation of 0.08 - 1.0 mm<sup>2</sup>
- adjusts automatically to the respective cable cross-section, which prevents damage to the conductor
- for thin ribbon cables in a single pass
- with wire cutter for copper and aluminium wires, multinle stranded up to 1.0 mm<sup>2</sup>
- length stop adjustable from 2.5 7.0 mm
- easily exchangeable blades
- smoothly operating mechanism
- low weight
- body made of tough fibreglass reinforced plastic

					403919
Description	Mftrs. Part No.		1+	Price Each 5+	+
Insulation Stripper	12 00 135	413-1952	91.45	88.70	

### **Embla Self-Adjusting Cut and Strip Tool**





- Self-adjusting cutting and stripping tool for modern electrical installation and equipment
- Used with easily interchangeable multiple stripping cassettes enable precision stripping of a wide range of insulations within the tools specified range.
- Precise: Fine adjustability ensures that fine insulations can be stripped without damage
- The ergonomic design of the Embla results in a lightweight (but strong) and comfortable tool equally qualified for high volume production and portable/field usage.

Stripping Capacity Cutting Capacity Cutting Capacity

Reliable: Tested to over 150,000 cycles

Embla - Straightblade Embla - V Blade	PVC All Insulations	(mm) 0.02 - 10mm <sup>2</sup> 0.02 - 10mm <sup>2</sup>	flexible (mm) 10mm² 10mm²	1.5mm <sup>2</sup> 1.5mm <sup>2</sup>	Weight 136 136 246640
Description Embla - Straight Blade Embla - V Blade Spare Blade Sets Straight Blade Cassette	432 432	s. List No. 20-0612 20-0613 20-0614	Order Code 422-8870 422-8881 422-8923	Price Eac 1+ 39.06 43.21	ch

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#### **Automatic Wire Stripper Super 4 Plus JOKARI**





- Automatic adjustment for conductor cross section
- Damage to conductor not possible Suitable for all common stranded and solid conductors
- From 0.2 6.0 mm<sup>2</sup> (24-10 AWG)
- With integrated cutter for wires up to 2.5 mm2

Stripping length from 6 up to 15 mm

Mftrs.		Price Each			
List No. Ord	er Code 1+	5+	10+		
T20050 <b>16</b>	<b>6-1094</b> 17.0	08 16.30	15.37		

#### Jokari High-Strip Automatic Wire Stripper





- Ergonomic precision wire stripper for conductors with hard to strip insulations such as rubber, silicone, TPE etc
- With 5-15mm adjustable length

0.5-4.0mm<sup>2</sup> Capacity 20-11 AWG Weight 121g

223041

Order Code	Price Each
722-5751	45.90

## Jokari Special - Automatic Wire Stripping Plier





- Ergonomic, easy to use automatic wire stripper for wires from 0.5mm2 to 6mm2 (AWG20-10)
- Integrated wire cutter for wires up to 2.8mm dia.
- Speedy and precise stripping of cables even where access is limited, due to side inser-
- No adjustment necessary and impossible to damage conductors or insulation
- Adjustable wire stop, with replacement hardened blades

223037

45

	Price Each
Order Code	1+
722-5726	39.89

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## Wire Strippers - continued

#### Jokari Flat Cable - Automatic Wire Stripper





For stripping outer sheathing and inner insulation of flat cable eg. NM-B 14/2

No adjustment necessary

Capacity Wire stripping Cable stripping

0.76-6.0mm<sup>2</sup> 18-10 AWG Up to 12mm ( $^{15}/_{32}$ ")

Order Code 722-5740 Price Each

#### 'Mega Strip'

Weight



The 'Mega Strip' is a heavy duty cable stripping tool for large round or multicored cables with either stranded or solid conductors. Self-adjusting to strip from 0.5mm<sup>2</sup> to 25mm<sup>2</sup>, with a simple gauge selection knob requiring only three basic positions.

Robust construction of steel and aluminium

H = 140

W=25, L=260

		222641
		Price Each
Description	Order Code	1+
Mega Strip	105-958	79.57

### Wire Strippers, Flexi Jaw





A range of automatic wire strippers to cover cable sizes 0.25mm2 to 6.00mm2. They all operate using a unique system of self adjusting multiple blades which slice cleanly through the insulation but then form around the conductors to give a clean cut without causing any damage

There are four patterns available:

Micro Strip (MS1) - Fabricated in glass reinforced polyamide. Stripping capacity 0.25mm<sup>2</sup> to 1.5mm<sup>2</sup> . Particularly suited for stripping fine wires with soft, delicate insulations. Three interchangeable gripping surfaces are supplied (fine, medium & coarse) to suit all types of wire. A wire cutter is also incorporated in the tool. Replacement jaws Order Code 105-955.

MK1FD - Aluminium bodied to withstand the rough treatment of field use. Capacity 0.25mm<sup>2</sup> to 2.5mm<sup>2</sup>. Replacement jaw assembly for original MK1F, Order Code 215-302.

MK2FC - "Power Strip" glass re-inforced polyamide body weighing only 150g. Stripping capacity 0.25mm² to 6.0mm² PVC insulated, solid or stranded wires and multi-core. The integral cutter will cut up to 6.0mm2 stranded wire and 4.0mm2 solid copper. Replacement jaws Order Code 105-957.

			222
Description	Mftrs. List No.	Order Code	Price Each 1+
1.5mm <sup>2</sup> Stripper/cutter Replacement jaws 2.5mm <sup>2</sup> Stripper 6.0mm <sup>2</sup> Stripper/cutter Replacement jaws	MS1 04301 MK1FD MK2FC 04601/701	440-802 105-955 440-814 440-826 No Order Code	36.90 7.16 43.26 42.87

#### Maxistrip V16



 Equipped with a power shift mechanism allowing for easy stripping of both hard

**₿**ABECO

and soft insulations Self-adjusting over its capacity range, can be manually adjusted for non-standard

Solid curved jaw and an integral wire cut-

Stripping capacity **Cutting capacity** Weight Dimensions

0.25-16mm<sup>2</sup> up to 6mm² (stranded copper) 285gms 225x100x208mm

		ELLOUI
Description	Order Code	Price Each
Maxistrip V16	725-5883	60.39

#### Safe-Strip

Stripping capacity

Cutting capacity



0.08-6mm<sup>2</sup>

<4mm<sup>2</sup> (stranded copper)

Self-adjusting over entire stripping

 Unique powershift mechanism allowing efficient stripping of both hard and soft insulations

Adjustable length stop for non-standard wires

Features an integral wire cutter

Profiled handles to minimise operator fatigue

> Weight 180 x 70 x 18mm Dimensions

222855

**€** ABECO

Description	Order Code	Price Each 1+
Safe-Strip 049	725-5871	32.96

## 7" Automatic Wire Stripper



**D**URATOOL

- Parrot type For all types of wire from 0.2-6mm
- Strips lengths up to 25mm
- Self adjusting mechanism Also has a cable cutter

481978.454212

			Price Each		
Order Code	1+	5+	10+	20+	50+
144-7421	4.27	3.55	3.13	2.73	2.44

## **Universal Insulation Stripper** Particularly suitable for solar cables







Stripping Capacity

With new stripping mechanism

- For solar cables (weather-resistant cable for connecting photovoltaic power generation devices)
- Particularly adjusted to RADOX® insulations of solar cables
- With additional cable support facilitating the alignment of multilayered insulated conductors
- Blades adapted to match larger wire cross-sections
- Smoothly operating mechanism Compact design, lightweight construction
- High operation comfort thanks to handy shape

Mftrs List No	Order Code	mm <sup>2</sup>	AWG	mm	g
12 12 11	156-0910	1.5 - 6.0	15 - 9	195	450
					508228
				Price Each	
	Mftrs List No.	Order Code	1+	3+	5+
Stripping Pliers	12 12 11	156-0910	76.94	73.08	69.22
Spare Blades	12 19 11	156-0911	37.29	35.43	33.53



www.farnell.co.uk

I enoth

Weight

# Universal Insulation Stripper particularly suitable for Teflon and solar







Länge: 195 mm

- with new stripping mechanism
- easy stripping of difficult insulating materials such as Teflon®, silicone, Radox®, Kapton® and rubber as well as multilayered insulations
- leaves wire undamaged thanks to precision-ground blade shapes; even multi-stranded conductors are stripped gently
- with length stop for constant stripping length during repetitive work
- 4 replaceable blades
- smoothly operating mechanism
- compact design, lightweight construction
- high operation comfort thanks to handy shape

		Stripping ca	pacities	Length	Weight	
Mftrs. Part No.	Order Code	mm <sup>2</sup>	AWG	mm	g	
12 12 02	394-7877	0.03 - 2.08	32 - 14	195	430	
12 12 06	413-3330	0.14 - 6.00	26 - 10	195	430	
12 12 10	413-3353	2.50 - 10.0	13 - 7	195	430	
					242840	)

				Price Each	
Description	Mftrs. Part No.	Order Code	1+	5+	10+
Wire Stripper	12 12 02	394-7877	66.80	64.80	62.80
Universal Insulation Stripper	12 12 06	413-3330	66.00	64.00	62.05
Universal Insulation Stripper	12 12 10	413-3353	66.00	64.00	62.05

## **Automatic Insulation Stripper**







- with replaceable blades of special steel with 4 and 6 positions resp. for different wire cross sections
- leaves wire undamaged thanks to precision-ground blade shapes; even multi-stranded conductors are stripped gently
- during stripping, the wire is held firmly by clamping jaws
- with length stop for constant stripping length during repetitive work
- a spring leads the stripper back to the starting position
- strong light-metal body

Тур		Length	Weight					
Mftrs. Part No.		Ø						
12 11 180	0,5mm	1,2mm	1,6mm	2,0mm			180	400
12 11 180	0,5 - 0,75 mm2	1,0 mm2	1,5 mm2	2,5 mm2	4,0 mm2	6,0 mm2	180	400

242850

			Price	e Each
Description	Mftrs. Part No.	Order Code	1+	5+
Automatic Insulation Stripper	12 11 180	413-1903	39.45	38.25
Automatic Insulation Stripper	12 11 180	413-1915	45.00	43.65

## Stripmaster





- Stripmasters give quick, clean, repeatable insulation strips for a wide range of wire
- Clean and complete removal of insulation without damaging the conductors

Stripmaster - Strips most common plastic and rubber insulations.

Stripmaster Lite - 1/a of the operating force of the other tools, lighter and smaller, for common plastics and rubber.

**Custom Stripmaster** - Unique blade design with counterbored recesses sized to the insulator and inner stripping hole sized to the conductor preventing the blade touching the conductor. In certain military and high reliability applications the integrity of the conductors is mandatory.

Wire Stop - Is an accessory that fits all tools and gives repeatable strip lengths.

#### **Tool/Wire Size Selection Chart**

AWG Dla mm Strands	10 3.658 84/0.3	12 3.378 56/0.3	14 2.286 50/0.25	16 1.829 30/0.25	18 1.549 32/0.2	20 1.219 24/0.2	Tool Order Code	Blade Order Code
Stripmaster	Υ	Υ	Υ	Υ	Υ	Υ	290-099	290-166
						Υ	290-105	290-178
Stripmaster				Υ	Υ	Υ	290-117	290-180
Lite							290-129	290-191
Custom	Υ	Υ	Υ				290-130	-
Stripmaster				Υ	Υ	Υ	290-142	290-210
AWG Dla mm Strands	22 0.991 16/0.2	24 0.813 7/0.2	26 0.660 7/0.15	28 0.533 10/0.1	30 0.406 7/0.1		Tool Order Code	Blade Order Code
Stripmaster	Υ						290-099	290-166
	Υ	Υ	Υ	Υ	Υ		290-105	290-178
Stripmaster	Υ						290-117	290-180
Lite		Υ	Υ	Υ	Υ		290-129	290-191
Custom							290-130	-
Stripmaster	Υ	Υ	Υ				290-142	290-210

			(mm)	(mm)	Weigh	t Length	Open
Stripmaster			20	17	370g	170	128
Stripmaster Lite			15	12	160g	140	100
Custom Stripma	ster		20	17	370g	170	128
Mftrs. List No.		Mftrs. List No.		Mftrs. List No.		Mftrs. List No.	
45-092=	290-099	45-672=	290-129	L-4421=	290-166	LB1002=	290-191
45-098=	290-105	45-173M=	290-130	L-5361=	290-178	L-5563=	290-210
45-092-M=	609-225	45-174M=	290-142	LB1001=	290-180	L-5270=	290-154
45-671=	290-117						

Free Wire

Max. Strip

49104

Width

Overall

Stripmaster 10 to 22 AWG 20 to 30 AWG	Order Code 290-099 290-105	<b>Price Each</b> 24.96 25.09
Stripmaster-Metric 0.75mm² to 6.0mm²	609-225	25.09
Stripmaster Lite 16 to 22 AWG 24 to 30 AWG	290-117 290-129	28.10 31.63
Custom Stripmaster 10 to 14 AWG 16 to 26 AWG	290-130 290-142	114.55 114.55
Spare Blade Sets Stripmaster, 10 to 22 AWG	290-166	9.77
Stripmaster, 20 to 30 AWG Stripmaster Lite, 16 to 22 AWG Stripmaster Lite, 24 to 30 AWG	290-178 290-180 290-191	9.83 8.72 9.83
Custom Stripmaster, 16 to 26 AWG Wire Stop	290-210 290-154	58.90 10.36

## 5-in-1 Automatic Wire Stripper





- Designed for easy wire stripping
- Steel jaws automatically adjust to strip wire from 10-26AWG
- Built-in wire cutter
- Crimps insulated and non-insulated terminals 10-22AWG
- Ergonomic grip for comfort
- Length: 215mm

443411.423852

(CK)

	Pri	ice Each	
Order Code	1+	5+	
125-7167	8.44	7.31	

## **Automatic Wire Stripper**



- Automatic stripping of wires without adjustment
- Crimping of insulated and non insulated terminals
- Micro adjustment knob allows wires smaller than 0.2mm<sup>2</sup> to be stripped
- Hardened Steel blades for long life
- Capacities: Stripping 0.2 6.0mm<sup>2</sup>copper or aluminium wire







## **Wire Strippers - continued**

#### **Automatic Wire Stripper - continued**

- Cutting Wire HRC 40 50
- Crimping 1.5, 2.5, 6.0mm insulated terminals
- 1.5, 2.5, 4.0, 6.0mm non insulated terminals and non insulated spades

		440	"
	Price	Each	
Order Code	1+	5+	
128-3226	14.20	13.75	
		Order Code 1+	Price Each Order Code 1+ 5+

#### **Sheath Stripper**



The "OPTI-STRIP" is designed for the precision stripping of the outer plastic sheathing of optical fibres. It also performs extremely well on PVC and PTFE insulated wires.

**₿**ABECO

The tool has two spring loaded blades, the gap between these can be very accurately adjusted to cleanly cut the sheathing/insulation with no damage to the fibre/wire.

Once the adjustment has been set it can be locked to give repeatable results. In operation, once the blades have been adjusted and set, the fibre/wire is inserted, the tool is then rotated and the sheath/insulation pulled off. The waste falls through the hollow handle.

Supplied with six bushes and guides to accommodate fibres/wires with an outer diameter of 0.5 to 3mm. Suitable for fibre optic cables from 15 to 1000 microns. Supplied in a plastic box complete with instructions.

Description	Mftrs. List No.	Order Code	Price Each 1+
Stripper	OPTISTRIP	202-174	73.22
Pack 2 Blades	0680402	311-5719	3.84

#### Wire Stripper For Fibre Optics



 to remove primary and secondary coating of fibre optics

Mftrs. Part No.	Capacity ∅ (mm)
12 82 130 SB	primary coating: 0,125
	secundary coating: 0,250

Length (mm) 130

Paladin Tools®

KNIPE

			Price Each		
Description	Mftrs. Part No.	Order Code	1+	5+	10+
Wire Stripper	12 82 130 SB	916-8354	43.80	42.50	41.15

## **Fibre Optic Stripper**



### For Right Hand Use Only

Strips outer jacket from 2.0 - 2.4mm fibre, 2.8 - 3.0mm loose tube fibre. Will strip  $900\mu m$  buffer from loose buffer without removing acrylate. Also strips buffer and acrylate from  $900/125\mu m$  and  $250/125\mu m$  fiber. Precision, CNC-formed stripping areas. Factory set and calibrated. Locking handle for safe transport.  $22^\circ$  operating angle. Rubber embedded handles.

		Pric	e Each
Mftrs. List No.	Order Code	1+	10+
1163	748-7770	43.52	36.26

#### **Precision Wire Strippers**



- Precision wire strippers can also be used as pliers and shears
- Built-in closed stopper and constant force recovery spring

## Wire Sizes mm

30, 28, 26, 24, 22, 20 20, 18, 16, 14, 12, 10	0.2, 0.3, 0.4, 0.5, 0.6, 0.8 0.8, 1.0, 1.3, 1.6, 2.0, 2.6	312-5452 312-5464	

Order Code	Price Each 1+
312-5452	9.63
312-5464	8.90

#### **Metric Wire Stripper and Cutter**

AWG



222921



High quality metric hand wire stripping tools with precision ground knife type blades to ensure clean and accurate stripping of wires. They have a built-in loop hole and cutter to eliminate the needs for additional tools.

Order Code

The 45-120M and 45-125M are sturdy, compact and lightweight. They are spring-loaded for automatic opening.

Wire Thickness (mm²) 45-120-341 0.75, 1.0, 1.5, 4.0, 6.0 45-125-341 0.5, 0.75, 1.0, 1.5, 2.5, 4.0

TEE258X/222801,401941

	Order Code	Price Each 1+
45-120-341	609-183	10.91
45-125-341	609-195	10.91

#### Wire Stripper and Cutter





The specially ground cutting edges ensure a clean cut around the entire circumference of the insulation enabling the insulation to be easily removed from the conductor.

The 45-121 and 45-216 are designed to strip and cut stranded wires, the 45-215 is designed to strip and cut solid wires.

The 45-215 has better sleeves on the handles. They are broader and more comfortable than the 45-121.

These tools are suitable for the following wire sizes.

45-121 Stranged Wire						
AWG	16	18	20	22	24	26
Dia (mm)	1.83	1.55	1.22	0.99	0.81	0.66
Strands	30/0.25	32/0.2	24/0.2	16/0.2	7/0.12	7/0.1
45-215 Solid Wire						
AWG	10	12	14	16	18	
Dia (mm)	2.59	2.06	1.63	1.30	1.02	

Description Mftrs. List No. **Order Code 1+**16 to 26 AWG stranded 45-121 **440-759** 10.36
10 to 18 AWG solid 45-215-241 **458-338** 14 12

## **Wire Strippers**

T Series



All Ideal T-strippers have the following features: Precision ground knife type blades that assure clean accurate stripping; compact size, lightweight, cushioned plastic grips ensure smooth operation and reduce operator fatigue. Sturdy steel construction ensures long life. Black oxide finish resists corrosion. Convenient loop-hole simplifies wire looping for screw terminal connections. Built-in wire cutter. Spring loaded for automatic opening. Painted wire gauge. Plier nose for simple gripping or tightening jobs. Model Super T-6 is fitted with static dissipative grips.

 Order Code
 Model
 Range
 Wire

 136-2195
 Super T-6
 16-26
 AWG stranded

485479

222630





**DURATOOL** 

	Price Each				
Order Code	1+	50+	100+		
136-2195	17.70	16.38	16.09		

#### 7 in 1 Stripper





- High quality 7 in 1 cutting and stripping tool
- Heat-treated precision ground blades provide nick free stripping
- Cushioned handles

Strips 10 - 22 AWG stranded wire Square cuts up to 6 gauge wire Cuts unhardened bolts and screws

Accurately crimps and insulated terminals 22-10 AWG wire sizes Accurately verifies wire sizes 6-16 AWG solid and 8-18 AWG stranded wire Allows wire looping from either front or back of the tool

Overlapping jaws at nose of tool can be used to ream conduit

	222000
Order Code 609-237‡	Price Each 1+ 26.74
005-237‡	‡Subject to design change

## **Adjustable Jacket Stripper**





Perfect for cutting jackets off a variety of fibre optic cable

- Adjustable blades from 10-30 AWG
- Economical tool for multiple cables

					24	0402
Mftrs.			Pric	e Each		
List No.	Order Code	1+	5+	10+	25+	
1161	413-2646	2.54	2.41	2.34	2.21	

## **Wire Stripper and Cutter**





Has an adjustable screw stop for different wire sizes. Cuts and strips both solid and stranded wire cleanly, neatly.

Hardened with ground blades. Cushion grip handles.

101SV specification is the same as 100V but with spring equipped self-opening handles.

		222627
Mftrs. List No. 100V 101SV	Order Code 440-735 440-747	Price Each 1+ 5.93 7.43

#### Wire Strippers



Lockable brass adjusting screw Suitable for wire up to 5mm in diameter

		2:	22997
		Price Each	
Overall Length	Order Code	1+	
160mm	312-7205	6.95	

#### Wire Stripper



- 2-component handle with slip guard
- Shock proof handle
- Adjustable screw and release spring
- Drop forged, heat treated fully polished steel
- Strips wire up to 5mm in  $\emptyset$

493009.492583

	Price Each			
Order Code	1+	5+	10+	20+
149-6327	10.32	9.58	8.57	7.45

### Wire Stripping Pliers - 'Redline'





Wire stripping pliers, plain ground finish with lockable brass adjusting screw. The generous PVC handle covers have large anti-slip guards which make this tool particularly suited to production. Suitable for wire diameters up to 5mm.

		Price Each
Mftrs. List No.	Order Code	1+
3754160	263-606	14.15

## Wire Stripping plier type 11





1106160 in accordance with the Association of German Electrical Engineers insu-

With locking adjustable screw for setting the desired diameter



Material Handle Material 1102160 Handle Material 1106160 Overall Length Cutting Capacity

Tool steel, oil hardened Two colour two component Heavy Isolated, VDE Tested 1000 volt 5mm diameter or 10mm² cable cross section

240558

		Price Each			
Туре	Order Code	1+	5+	10+	
11 02 160	876-227	10.75	10.45	10.10	
11 06 160	348-3356	18.25	17.70	17.15	

## **Crimp Tools**

#### **Crimp Tooling For Bootlace Ferrules**

## pressmaster®

#### **Insulated and Non-Insulated**

A range of ergonomically designed full cycle action crimp tools.

M series designed for single handed use and the K series for either single or double handed use. Soft rounded handles designed for optimal load distribution. Toggle action for mechanical



MEB 0560



KEB 4010







## **Crimp Tools - continued**

## Crimp Tooling For Bootlace Ferrules - continued

Insulated and Non-Insulated - continued



KEB 1025



KEB 3550



MEB 0560 single handed crimp tool with 5 crimp nests for crimps on 0.5-6.0mm<sup>2</sup> / 22-10 AWG wires

KEB 4010 double haded crimp tool with 3 crimp nests for crimps on 4-10mm<sup>2</sup> / 12-8 AWG

KEB 1025 double handed crimp tool with 3 crimp nests for crimps on 10-25mm<sup>2</sup> / 6-4 AWG

KEB 3550 double handed crimp tool with 2 crimps nests for crimps on 35-50mm<sup>2</sup> / 2-0/1 AWG wires

 $\textbf{PZD 3} \text{ single handed tool with self adjusting dies for square crimps on } 0.5\text{-}6.0\text{mm}^2 \text{/ } 22\text{-}10$ 

		Price Each					
Type	Order Code	1+	5+	10+	50+		
MEB 0560	399-3061	93.33	86.11	74.78	67.36		
KEB 4010	399-3073	93.33	86.11	74.78	67.36		
KEB 1025	399-3085	93.33	86.11	74.78	67.36		
KEB 3550	399-3097	93.33	86.11	74.78	67.36		
PZD 3	399-3050	76.95	72.12	64.08	55.54		

# **Crimp Tooling For Non Insulated Terminals**

pressmaster®

**Closed Barrel** 

A range of ergonomically designed full cycle action crimp tools.

M series designed for single handed use and the K series for either single or double handed use. Soft rounded handles designed for optimal load distribution. Toggle action for mechanical advantage.



MKB 0325



KWB 4099

MKB 0325 single handed crimp tool for non insulated terminals for 0.35mm-2.5mm<sup>2</sup>/22-14

KWB 4099 double handed crimp tool for non insulated terminals for 4-10mm<sup>2</sup> / 12-8 AWG wires.

Order code	Price Each	

Type Order code	Price Each			
	1+	5+	10+	50+
MKB 0325 399-3036	92.22	84.90	75.13	66.55
KWB 4099 <b>399-3048</b>	93.33	85.94	76.00	67.36

#### **Crimp Tooling For Insulated Terminals**

pressmaster®

A range of ergonomically designed full cycle action crimp tools.

M series designed for single handed use and the K series for either single or double handed use. Soft rounded handles designed for optimal load distribution. Toggle action for mechanical advantage



MSA 0110



KSA 0760



KAA 0760

MSA 0110 single handed crimp tool for miniature yellow and red insulated terminals for 0.14-1.0mm<sup>2</sup> / 26-16 AWG wires

KSA 0760 double handed crimp tool for red, blue and yellow insulated terminals for 0.75-6.0mm<sup>2</sup> / 22-10 AWG wires.

**KAA 0760** double handed crimp tool with asymetrical dies for premium crimps on standard and vibration resistant type terminals.  $0.75-6.00 \text{mm}^2$  / 22-10 AEG wires.

443905

	Price Each				
Туре	Order Code	1+	5+	10+	50+
MSA	0110 399-3000	85.63	78.73	69.67	61.81
KSA	0760 <b>399-3012</b>	85.30	78.34	69.34	61.57
KAA	0760 <b>399-3024</b>	90.13	83.75	74.04	65.07

### "MultiCrimp" Lever Action Crimping Pliers with quick changer magazine



New



Set composed of pliers and quick changer magazine for common

crimping applications For solder-free electrical connections Repetitive, high crimping quality due to precision profiles and inte-

gral lock with very fine adjustment (self-releasing mechanism) These tools have been set precisely (calibrated) in the factory

- ergonomically shaped two-colour dual component handles for one and two-hand oper-
- very easy and quick change of crimping dies without any additional tool
- interchangeable crimping dies are securely held in the tool
- secure and dirt-proof storage of the interchangeable crimping dies in a round magazine
- round magazine with practical belt clip interchangeable dies are always ready to hand
- all stressed parts are made of special steel, oil-hardened and tempered head burnished, two-colour dual component handles

## Model: 97 33 01

Crimping pliers with round magazine and 3 interchangeable dies for non-insulated open plug-type connectors (4.8  $\pm$  6.3 mm width) from 0.5 - 6.0 mm²; insulated terminals  $\pm$  plug connectors from 0.5 - 6.0 mm<sup>2</sup>; end sleeves (ferrules) from 0.25 - 6.0 mm<sup>2</sup>.

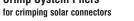
### Model: 97 33 02

Crimping pliers with round magazine and 5 interchangeable dies for non-insulated open plug-type connectors (4.8 + 6.3 mm width) from 0.5 - 6.0 mm<sup>2</sup>; insulated terminals + plug connectors from 0.5 - 6.0 mm<sup>2</sup>; end sleeves (ferrules) from 0.25 - 6.0 mm<sup>2</sup>; non-insulated terminals and plug connectors from 0.5 - 10 mm<sup>2</sup>; non-insulated butt connectors from 1.5 -10 mm

50824

			Price Each		
	Mftrs' List No.	Order Code	1+	3+	5+
Multicrimp Pliers with quick changer					
magazine and 3 dies	97 33 01	156-0899	138.48	131.58	124.63
Multicrimp Pliers with quick changer					
magazine and 3 dies	97 33 02	156-0900	180.46	171.44	162.43

# **Crimp System Pliers**





- Crimping pliers to be used with exchangeable crimping dies
- Delivered in plastic case
- without crimping dies and locators For solder-free electrical connections Repetitive, high crimping quality due to precision dies and integral lock (self-releasing mechanism)
- Optimum transmission of force force due to lever action for fatigue-reduced operation Factory calibtrated crimping pressure
- Head burnished; with ergonomically designed plastic handles
- Length 200mm
- Crimping dies and locators to be ordered separately

		· aco.j			
			Crimping (	Capacity	Weight
Mftrs List no.	Connector	Application	mm <sup>2</sup>	AWG	g
97 49 62		Solar Connectors Huber + Suhner			
			2.5 / 4.0	13 / 11	35
97 49 63		Solar Connectors Huber + Suhner	4.0 / 6.0	13 / 11 / 10	35
97 49 65		Solar Connectors MC 3 (Multi-Contact)	2.5 / 4.0 / 6.0	11 / 10	35
97 49 65 1	1000	Locator for 97 49 65	2.07 1107 010	, .0	80
97 49 66		Solar Connectors MC 4 (Multi-Contact)			
	-		2.5 / 4.0 / 6.0	13 / 11	35
97 49 66 1	10	Locator for 97 49 66			70
97 49 67		Solar Connectors Hirschmann	2.5 / 4.0 / 6.0	13 / 11 / 10	35
97 49 68		Solar Connectors Solarlok (Tyco)			
			2.5 / 4.0 / 6.0	13 / 11 / 10	35
97 49 68 1	0	Locator for 97 49 68			70

					508217
				Price Eacl	h
	Mftrs List No.	Order Code	1+	3+	5+
Crimping Pliers and Case,					
without dies	97 43 200	853-173	84.250		
Crimping die for connectors Huber + Suhner	97 49 62	134-3511	51.130	49.329	48.233
Crimping die for connectors Huber + Suhner	97 49 63	156-0901	84.720	80.500	76.270
Crimping die for connectors MC 3 Multicontact	97 49 65	156-0902	95.120	90.330	85.590
Locator for 97 49 65	97 49 65 1	156-0903	47.540	45.170	42.800
Crimping die for connectors MC 4 Multicontact	97 49 66	156-0904	100.320	95.280	90.280
Locator for 97 49 66	97 49 66 1	156-0905	47.540	45.170	42.800
Crimping die for connectors Hirschmann	97 49 67	156-0907	84.250	80.080	75.860
Crimping die for connectors Solarlok Tyco	97 49 68	156-0908	144.610	137.350	130.140
Locator for 97 49 68	97 49 68 1	156-0909	47.540	45.170	42.800

Over 480,000 products online



# **Crimp System Pliers and Crimp Profiles**









- Crimp system with interchangeable die sets
   Features integrated stop: the user is forced to
- complete the crimping process.
  This ensures crimping complying to DIN stan-
- Supplied in a service box without dies but with
- assembly tool
   2 crimp tools with fully assembled die sets are available

Note: 853-290 is only designed for HTS and Harting contacts

Connector	Mftrs. Part No.	Application Range	Capac	itv
Crimp profile	mitio. i dit ito.	Application Hange	mm <sup>2</sup>	AWG
		uninsulated plug-in	0.1 - 2.5	27 - 13
16	97 49 04	connectors 2.8 + 4.8 mm	0.1 2.0	27 10
	07.40.05	unisolierte, offene Steckverbinder 4,8 + 6,3 mm uninsulated plug-in connectors 4,8 + 6,3 mm	0.5 - 6.0	20 - 10
	97 49 05	insulated cable sockets	0.5 - 6.0	20 - 10
		+ connectors	0.5 - 6.0	20 - 10
	97 49 06			
		Aderendhülsen	0.5 - 6	20 - 10
	97 49 08	Adam to the section	0.5.40.0	00. 7
		ininsulated cable sockets + connectors	0.5 - 10.0	20 - 7
	97 49 13			
h //	97 49 15	exchangeable crimping die	1,5 - 2,5	16 - 13
		+ uninsulated plug-in connectors 4.8 + 6.3mm	3 - 4 / 4 - 6	12 - 10
	97 49 18	wire-end ferrules	2 x 6,0; 2 x 10,0; 2 x 16,0	
Sie	37 43 10	D-Sub plug	0.03 - 0.56	32 - 20
	97 49 24	b-Sub plug	0.03 - 0.00	52 - 20
	07.102.	uninsulated	1.5 - 10.0	15 - 7
	97 49 30	Coay connector	DCEO	50
	97 49 40	Coax connector	RG58, 62, 71,	
	97 49 50	Coax Connector / car phone	RG58, 3	174,
L		turned contacts	0.14 - 1.5	26 - 15
A STATE OF THE STA	97 49 44			
		crimping die	0.5 - 2.5	20 - 13
	97 49 54			





# **Crimp Tools - continued**

# **Crimp System Pliers and Crimp Profiles - continued**

Connector	Mftrs. Part No.	Application Range	Capacity		
Crimp profile			mm <sup>2</sup>	AWG	
		turned contacts ( HTS + Harting)	0,14 - 4	26 - 11	
	97 49 60				
		Solar connector	2,5 + 4,0	13 + 11	
	97 49 62				
		Western plug	4 / 6 / 8 RJ10, 11		
4	97 49 70				
Crimp plier with mounted cr	mp profile; in card	board box			
		uninsulated cable sockets + connectors	0.5 - 6.0		
	97 43 05				
		crimp tool, insulated crimps	0.5 - 6.0	20 - 10	
	97 43 06				

			Price Each	
Mftrs. Part No.	Order Code	1+	3+	5+
Crimp plier + case without crimp pro	files			
97 43 200	853-173	84.250		
Crimp profiles		01.200		
97 49 04	853-185	42.350		
97 49 05	853-197	40.600		
97 49 06	853-203	32.350		
97 49 08	853-227	31.350		
97 49 09	853-239	31.350		
97 49 19	853-240	52.550		
97 49 13	853-215	31.350		
97 49 15	571-4783	109.700	106.400	103.100
97 49 18	134-3510	42.300	40.802	39.895
97 49 24	853-252	74.600		
97 49 30	853-264	31.350		
97 49 40	853-276	52.750		
97 49 50	853-288	62.100		
97 49 44	571-4795	75.850	73.550	71.300
97 49 54	571-4801	75.850	73.550	71.300
97 49 60	853-290	79.200		
97 49 62	134-3511	51.130	49.329	48.233
97 49 70	853-306	66.550		
97 49 76	571-4813	44.320		
97 49 81	571-4825	84.000		
97 49 82	571-4837	31.820		
97 49 84	571-4849	82.800		
97 49 83	571-4850	38.880		
Positioning aids				
97 49 90 for 853-290	853-318	61.800		
97 49 94 for 853-185	853-320	19.700		
97 49 95 for 853-197	853-331	19.700		
Pliers with assembled crimp profiles	without box and a	assembly tool (f	or flat plugs, 4.8	3 and 6.3mm)
97 43 05 Uninsulated	853-343	103.600		
97 43 06 Insulated	853-355	95.100		

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# **Lever Action Crimping Pliers**





Länge: 195 mm



- new generation of lever action crimping pliers
- for solder-free electrical connections the new lever transmission reduces the handforce up to 30% compared with regular crimping pliers
- repetitive, high crimping quality due to precision profiles and integral lock (self-releasing mechanism)
- these tools have been set precisely (calibrated) in the factory
- two-hand operation for easy crimping of large conductor diameters easy handling as a result of well balanced centre of gravity, angled head and ergnomically shaped handles
- all stressed parts are made of special steel, oil-hardened and tempered
- head burnished, non-slip plastic coated handles



Material.	
Material of handle:	Handles with plastic coats

Mittrs. Part No.	Range of Application	Capacity		Length	Weight	
		mm	AWG	mm	g	
97 52 05	non-insulated, open plug-type connectors	0.5 - 6.0				
	4,8 + 6.3 mm width;		20 - 10	250	570	
97 52 06	isolated plug-type connectors	0.5 - 6.0				
	and other isolated connectors		20 - 10	250	560	
97 52 10	Coax - BNC- and TNC-Connectors RG 58/ 59/	62/717	233	250	560	
					243024	

			Price Each		
Description	Mftrs. Part No.	Order Code	1+	3+	
Lever Action Crimping Plier	97 52 05	413-5532	79.60	77.20	
Lever Action Crimping Plier	97 52 06	413-5544	68.45	66.40	
Lever Action Crimping Plier	97 52 10	413-5556	93.55	90.75	

# Four mandrel crimping tool



For crimping turned contacts 12-part positioning aid for contact

KNIPEX

- insertion Four mandrel crimping for exact crimping performance Adjustment matrix
- Material: special quality steel
- Handle Material: handles with plastic covers
- Handy shape easy to use

Туре			Length	Weight
	mm <sup>2</sup>	AWG	mm	g
97 52 64	0.08 - 2.5	28 - 13	180	415
				24

Mftrs		Price Each		
List No.	Order Code	1+	3+	
97 52 64	413-5568	283.90	275.40	

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Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.





# Crimping Tool, Wire end ferrule





- Model 97-53-09 front loading
- For DIN standard crimping of cable ferrules
- Square crimping for consistent optimum area of contact despite the positioning of the clamp connector
- Reinforcement through leverage
- Head burnished
- Compact lightweight tool
- Ergonomically designed for ease of use. Reduces fatique
- Pre set stop and auto release guarantees a full cycle crimp lock can be released
- All stressed parts are made of special steel and are hardend and tempered

self-adjusting between 0.08 to 6.0 mm2; Modell 97 53 08:

manually only adjustable to 10.0 mm2 (via pivoting lever): wire-end ferrules up to 25 mm2 can also be

inserted in the opening from the side; manual adjustment to 10.0 mm² or 16.0 mm² (via pivoting lever) Modell 97 53 09:

special quality steel Material: Handle material: Handles have plastic covers

Order code	Wire size		Weight	Length
	mm²	AWG	g	mm
333-1015	0.08 - 10.0	28 - 7	475	190
381-4038	0.08 + 16.0	7 + 5	475	190

242887

Mftrs List No.	Order Code	1+	Price each 5+	10+
97 53 08	333-1015	96.55	93.65	90.75
97 53 09	381-4038	104.25	101.10	98.00

# Self-Adjusting Crimping Pliers for End Sleeves (Ferrules)





Länge: 195 mm



# New

- for crimping end sleeves (ferrules) according to DIN 46228 parts 1 + 4
- for solder-free electrical connections
- lateral loading of the end
- sleeves (ferrules) into the tool simple handling as a result of self-adjustment to the size of the end sleeve (ferrule)
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- these tools have been set precisely (calibrated) in the factory
- optimum transmission of force due to lever action for fatiguereduced operation
- high operation comfort thanks to handy shape and low weight
- all stressed parts are made of special steel, oil-hardened and tempered
- Model: 97 53 04
- square crimping for optimum contact areas in the clamp connection
- Model: 97 53 14
- heaxagonal crimping for optimum positioning in confined ar-

Mftrs. Part No.	Range Of Application	Crimp Style	Capacity		Weight	Length
		mm	mm	AWG	g	mm
97 53 04	End Sleeves (Ferrules)	Square	0.08 - 10.0	28 - 7	380	180
97 53 14	End Sleeves (Ferrules)	Hexagon	0.08 - 6.0	28 - 10	400	180
						243033

			Price	Each
Description	Mftrs. Part No.	Order Code	1+	5+
Crimping Plier	97 53 04	834-701	97.50	94.60
Crimping Plier	97 53 14	413-5520	102.60	99.50

# **Parallel Crimping Pliers**





- parallel crimping performance to satisfy the particularly high standards of small con-
- for solder-free electrical connections
- repetitive, high crimping quality due to precision profiles and integral lock (self-releas-
- fixed locator for D-Sub micro plugs for an exact positioning of connector and cable
- these tools have been set precisely (calibrated) in the factory optimum transmission of force due to toggle lever for fatigue-reduced operation
- crimping pliers for other mini plugs as e. g. HD 22, Modu IV, Micro Timer, MQS, .. on
- all stressed parts are made of special steel, oil-hardened and tempered

			Capaci	ity	
Head	Handles	Range of Application	mm <sup>2</sup>	AWG	Length
chrome	with two-coloured	D-Sub,D-Sub-HD 20 and D-Sub-	0.03 - 0.56	32 - 20	190
plated	dual component	HDE plugs			
	handles				

405344

DRAPER

		Price Each		h
Mftrs. Part No.	Order Code	1+	5+	10+
97 54 24	916-8494	147.05	142.65	138.25

# Wire Stripper/Crimper AWS Wire Stripper/Crimper



3 in 1 automatic wire stripper/crimper. Single motion stripping of wires/insulation and the crimping of insulated and non-insulated terminals. Wire stripping range of 0.13 -6.0mm<sup>2</sup>/10 - 26AWG. Carbon steel blades, alloy steel jaws hardened and tempered, with plastic hand grips.

490665

	Price Each				
Order Code	1+	5+	10+	20+	
135-9493	13.71	13.43	13.17	12.90	

# **Ratchet Crimp Pliers**



- Ratchet action crimp tool for non-insulated wire ferrules
- Capacity 1,5 10 mm2 / 16 8 AWG
- High quality carbon alloy steel for durability
- High compression pressure for secure crimping

 Quick release lever Length: 230mm

494988.471146

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
430025	151-8898	29.86	28.97	28.06	27.17	

# **Ratchet Crimp Pliers**



- (C.K) Ratchet action crimp tool for insulat-
- ed wire ferrules Capacity 10 - 25 mm<sup>2</sup>/8 - 3 AWG
- High quality carbon alloy steel for durability
- High compression pressure for secure crimping
- Quick release lever
- Length: 230mm







# **Crimp Tools - continued**

# **Ratchet Crimp Pliers - continued**

494987.471145

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
430022	151-8897	33.88	32.86	31.84	30.84

# **Ratchet Crimp Pliers for Ferrules**





- High quality carbon alloy steel for durability
- High compression pressure for secure crimping
- Quick release lever
- Length: 190mm

						494985.470527
			Price Each			
Mftrs. List No.	Capacity	Order Code	1+	5+	10+	20+
430018 430029	14-26 /0.14-2.5mm <sup>2</sup> 10-20 /0.25-6.0mm <sup>2</sup>	151-8893 151-8894	33.97 33.97	32.95 32.95	31.93 31.93	30.91 30.91

# **Ratchet Crimping Pliers**





- For insulated terminals: red, blue and yellow
- Capacity: 0.50-0.6mm 2/20-10 AWG

18352	47055

Mftrs.		Price	Each
List No.	Order Code	1+	5+
430021	128-3217	27.20	26.40

# Crimp Tool

# Interchangeable Die Sets



- Ratchet crimp action enables the user to make reliable and repeatable terminations
- Pressure adjustment for actuation force
- Crimp release provides operator safety
- Dies can be quickly changed
- Interchangeable dies for a wide range of applications, providing versatility in a single tool

# Interchangeable Dies

Order Code Application

312-5154 22-10 AWG insulated terminals/colour coded nests

312-5165 22-12 AWG non-insulated open barrel connectors
312-5167 Cambridge CP-88, CP-89 BNC/TNC coax connectors with RG-58, RG-59/62 AU cables
312-5180 RG-58, RG-174 and RG-8218 for both 50 and 75 ohm cables
312-5191 N-Series and RG-8/11 connectors

312-5208 RG-174, Mini 59 BNC.TNC connectors 312-5210 RG-59, RG-6, F-type CATV connectors

RJ-45, eight-positioned keyed or non-keyed modular plugs (excluding AMP) RJ-11 two, four and six-position modular plugs 312-5221

312-5233

312-5245 RJ-11 DEC MMJ six-position modular plugs with an offset release tab 312-5257 AMP RJ-45 eight-position modular plugs/primary strain relief crimp bar is located fur-

ther back on die/modular plugs 312-5269 RG-58, RG-59/62, BNC/TNC coax connectors

	Order Code	Price Each 1+
Crimp tool frame	312-5142	29.00
22-10 AWG insulated	312-5154	11.14
22-12 AWG non-insulated	312-5166	4.58
Cambridge CP-88, CP-89	312-5178	2.70
RG-58, RG174 and RG-8218	312-5180	9.16
N-Series, RG-8/11	312-5191	6.08
RG-174, Mini 59 BNC/TNC	312-5208	9.15
RG-59, RG-6, F-type	312-5210	4.58
RJ-45	312-5221	11.14
RJ-11	312-5233	8.74
RJ-11 DEC MMJ	312-5245	5.57
AMP RJ-45	312-5257	4.37
RG-58, RG-59/62	312-5269	11.14

# **Crimp Tool**

#### **Non-insulated Terminals**

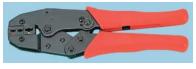


 For crimping interlocking and non-insulated terminals

		-		
	Crimpi	ng Capacity		
VG	20-18	16-14	12-10	
m <sup>2</sup>	0.5-1	1.5-2.5	4-6	

# **Crimp Tool Insulated Terminals**

mm<sup>2</sup>



For crimping insulated terminals

Overall length = 220mm

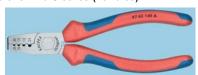
Crimping Capacity					
AWG	20-18	16-14	12-10		
mm <sup>2</sup>	0.5-1	1.5-2.5	4-6		
	Red	Blue	Yellow		

222952

	Price Each
Order Code	1+
312-6353	21.45

# **Crimping Pliers for End Sleeves (Ferrules)**





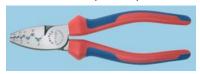
- For crimping end sleeves (ferrules) according DIN 46228 parts 1 + 4 in an area of application from 0.25 up to 2.5mm<sup>2</sup>
- Crimping in marked trapezoidal dies for secure connections between the sleeve and the conductor
- Vanadium steel, oil-hardened and tempered
- Polished head, two-colour dual component handles

Mftrs List No. 97 62 145 A	Head Polished		f Application ves (ferrules)	mm <sup>2</sup> 0.25 - 2.5	AWG 23 - 13	Length 145 405345
Mftrs. List No.	Orde	er Code	1+	Price Each 5+	10	+
97 62 145 A	916	-8508	15.55	15.10	14.	60

# **Crimping Pliers for End Sleeves (Ferrules)**



Capacity



- For crimping end sleeves (ferrules) according DIN 46228 parts 1 + 4 from 0.25 to
- Crimping in marked half-round dies for secure connections between the sleeve and the conductor
- 9 extremely deep troughs with conical side faces Special tool steel, oil-hardened and tempered
- Polished head, two-colour dual component handles

mm <sup>2</sup> 0.25; 0.5; 0.75 - 1.0; 1.5; 2.5; 4.0; 6.0; 10.0; 16	AWG 20; 18-17; 15; 13; 11; 10; 7; 5	Length 180 405346
	Dries Fach	

			Price Each	
Mftrs List No.	Order Code	1+	5+	10+
97 72 180	916-8516	23.10	22.40	21.70



# **Cable Link Crimping Plier**





- High alloy carbon steel drop forged for long life
- Matt chrome plated for corrosion resistance
- Contoured grips with anti-slip horns for comfort and safety

WIIUS.	Сара	CILY			
List No	∅(mm)	AWG	Length (mm)	Order Code	
430005	0.25-2.5	23 - 13	150	128-3215	
430006	0.5 - 16	20 - 5	190	128-3216	
				448343.470	

Size	Mftrs.		Price	e Each
(mm)	List No.	Order Code	1+	5+
150	430005	128-3215	15.10	14.65
190	430006	128-3216	27.75	26.90

# Crimping Pliers For Scotchlok Connectors





- for crimping plastic-insulated telecommunication or signal cables using the U-contact principle in single Scotchlok connectors
- no stripping necessary, U-shaped elements make the connection
- cutting edges additionally induction hardened
- with opening spring

Material:	Vanadium steel, oil-tempered
Material of handle:	Plastic

Mftrs. Part No.	Range of Application	Capacity mm Ø	Length
975001	Scotchlock - Connectors	0,4 -1,1	155
			245847

			Price	Each
Mftrs. Part No.	Order Code	1+	5+	10+
975001	875-739	27.40	26.60	25.75

# **Crimping Tool**



(NIPE)



- Specially hardened steel crimper with soft grips for prolonged comfortable use
- 4 functions in the one tool
- Wire cutting: soft wire only
- Crimping: Non insulated terminals 1.5, 2.5. 4-6.0mm
- Bolt shearing: 2.6, 3.0, 3.5, 4.0, 5.0mm@
- Wire Stripping:
- 0.75, 1.0, 1.5, 2.5, 4.0, 6.0mmØ
- Length: 250mm

Mftrs.		Price	e Each
List No.	Order Code	1+	5+
430024	128-3220	5.45	5.30

# Wire Stripper and Crimper



- **DURATOOL**
- Hardened and tempered crimping and cutting edges
- Vinyl handles
- Length: 230mm (9")

# Crimping

- Insulated: 1.5, 2.5, 6mm
- Non-Insulation: 4-6, 2.5, 1.5mm ISO: M2.6, M3, M3.5, M4, M5

# Stripping

• 0.75, 1, 1.5, 2.5, 4, 6mm

448355

#### Price Each Order Code 20+ 50+ 144-7419 2.18 1.68 1.59 1.47 1.05

# **Crimping/Stripping Tool Kit**



# **DURATOOL**

A crimping, stripping and cutting tool complete with 60 insulated terminals. Features

- Stripping 0.75, 0.9, 1.25, 2.0, 3.5, 5.5mm
- Crimping 1.25, 2.0, 3.5-5.5mm<sup>2</sup> (non-insulated), 1.25, 2.0, 5.5mm<sup>2</sup> (in-
- Bolt cutter M2.6, M3, M3.5, M4, M5
- Length: 230mm

482918.432354

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		Price/Kit
Order Code	1+	5+
145-4283	4.16	3.56

# **Draper Crimping Toolset**

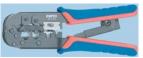
Crimping Tool Set CT-K/PRO



Ratchet crimping tool manufactured from carbon steel with hardened and tempered jaws. Continuous crimping at preset tension ensures accurate crimp. Chemically blacked finish with PVC grips. Suitable for crimping insulated terminals as follows:- red channel: 0.5 - 1.0mm<sup>2</sup>, blue channel: 1.5 - 2.5mm<sup>2</sup> and yellow channel: 4.0 - 6.0mm<sup>2</sup>. Supplied complete with 590 (approx.) mixed pre-insulated terminals in a steel storage case with

				10000		
	Price Each					
Order Code	1+	5+	10+	20+		
135-9494	53.89	52.82	51.76	50.73		

# **Crimping Pliers for Western Plugs**





97 51 12 Länge 190mm

97 51 10 Länge 190mm

Crimping Pliers for Western Plugs 97 51 10

- professional tool for cutting and stripping unshielded ribbon telephone cables for crimping 6- and 8-pole Western plugs type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)
- exact crimping process due to parallel crimping
- repetitive, high crimping quality due to integral lock (self-releasing mechanism)
- optimum transmission of force due to lever action for fatigue-reduced operation
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm length
- with additional stripping device for round cables
- head burnished, two-colour dual component handles

# Crimping Pliers for Western Plugs 97 51 12

- professional tool for cutting and stripping unshielded ribbon telephone cables
- for crimping 4-, 6- and 8-pole Western plugs type RJ 10 (7.65 mm width), type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width) exact crimping process due to parallel crimping repetitive, high crimping quality due to integral lock (self-releasing mechanism)

- optimum transmission of force due to lever action for fatigue-reduced operation
- with length cutter and dismantling knife for ribbon cables 6 and 12 mm length

head burnished, two-colour dual component handles

				243040
Mftrs. Part No. 975110	Order Code 348-3708	1+ 33.50	Price Each 3+ 32.50	+
975112	348-3710	108.70	105.45	

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# **Crimp Tools - continued**

# Ratchet Crimping Pliers COAX-BNC, TNC





- For 58,59,62,8X,140,141,174,210,233,303,400
- Size: 230mm

448354.471147

Mftrs.		Price	Each
List No.	Order Code	1+	5+
430026	128-3218	29.30	28.40

# **Modular Ratchet Crimp Tool**





- Built in wire cutters Vinyl grip
- Locking mechanism

An 8 Contact (RJ45) modular ratchet crimp tool for crimping 8 way (8P8C) modular telephone plugs.

					481977.457892	
	Price Each					
Order Code	1+	5+	10+	20+	50+	
144-7420	5.85	4.95	4.48	4.35	3.98	

# **Modular Crimp Tool**





- For 8P8C (RJ45), 6P6C (RJ12) and 6P4C
- (RJ11) plugs
- High quality carbon alloy steel for durability High compression pressure for secure crimping
- Quick release lever and pressure adjustment for ease of use
- Wire cutting: soft wire only
- Length: 185mm

4400EC	474	140

Mftrs.		Drice	Each
List No.	Order Code	1+	5+
430028	128-3219	36.45	35.35

# **Modular Ratchet Crimping Pliers**





- For 4P2C, 4P4C, 6P4C (RJ11), 6P6C (RJ12), 8P8C (RJ45) and 6P6C/Offset (Dec)
- Cuts, strips and crimps all types without change of die Built in stripper on front cutter on reverse
- Guide for precise stripping and quick release lever / screw

					494986.470549	
		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
430020	151-8895	89.55	86.85	84.20	80.60	

# Telemaster™ Telephone Crimp Tool



The Telemaster™ is a multi-functional telephone-crimping tool that will cut and strip the cable as well as crimping it. The tool is manufactured from durable steel with black plastic handles and a spring loaded mechanism suitable from crimping RJ-11 (1,2 and 3 pair) and RJ-45 (4 pair) plugs.

	235594,40153
Order Code	Price Each 1+
394-9278	24.80

# All-in-One Telephone Tools **Economy Crimping Tools - WE/SS and AMP**





Ratcheted design. Embedded cable cutter and stripper. Crimps 6-position RJ11/RJ12 connectors, 8-position RJ45 connectors, 28-22 AWG (0.08-0.34mm) telephone and data cables. Two models available: Western Electric (WE) Stewart Stamping (SS) types and AMP (Tyco) for 6 and 8 position modular telephone plugs.

			Price	e Each	
Description	Mftrs. List No.	Order Code	1+	10+	
All-in-one Tool (WE/SS)	1545	454-9430	34.55	32.63	
All-in-one Tool (AMP)	1554	748-7703	34.55	32.63	

# All-in-One Pro Telephone Tools

# Paladin Tools®



# Crimping Tools - WE/SS and AMP

Rubber-embeded handles with hand stops. Smooth ratcheted design. Embedded cable cutter and stripper. Crimps 4-position RJ22 handset connectors, 4 and 6-position RJ11/RJ12 connectors, 8-position RJ45 (non-keyed) connectors and 28-22 AWG (0.08-0,34mm) telephone and data cables. Built-in safety ratchet release.

Crimps CAT-3 to CAT-6 with one crimping tool. Two models available: Western Electric (WE)

Stewart Stamping (SS) types and AMP (Tyco) for 4-6 and 8 position modular telephone plugs.

				Price Each	
Description	Mftrs. List No.	Order Code	1+	10+	25+
All-in-one Pro	1530R				
(WE/SS)		182-9865	52.24	48.06	45.97
All-in-one Pro	1540				
(AMP)		748-7690	52.24	48.06	45.93

# **Modular Ratchet Tool And Dies**

# Paladin Tools®



# For DataCom Connectors

Modular tool with interchangeable die sets. 7 die sets to suit most RJ connectors. ABS case holds 1 tool and 7 die sets.



Part No. Description 1300 Series Universal Tool Frame 1302

2061 Crimp Die RJ45 8P8C (8 Pin) WE / Stewart Crimp Die RJ11/RJ12 6P6C, 6P4C 6P2C WE / Stewart Crimp Die RJ45 8P8C (8 Pin) Tyco AMP Part No. Description

Crimp Die RJ11 RJ12 6P6C 6P4C 6P2C Tyco AMP Crimp Die RJ50 10P10C (10 Pin)

901013 ABS Tool Case





#### Price Each Mftrs. List No Order Code **Universal Tool Frame** 887-146 32.54 34.99 31.15 **Crimp Dies** 12.90 12.90 439-2498 12.35 2062 13.87 439-2516 439-2528 12.90 12.90 12.35 12.35 2064 13.87 2065 13.87 439-2530 13.87 12.21 2068 **ABS Tool Case** 901013 377-6657 21 71 20.74 19.80

# "F" Type Waterproof Connectors

# Paladin Tools®



# With Matching Crimp Tool

# SealTitle® Pro CATV "F" waterproof connections

Designed for home or business networking and video distributing: satelliye, CATV and UHF. Quick and easy to assemble. Good quality crimp connections assured. Can be used outdoors as well as indoors.

#### SealTite® Pro crimp tool

Crimps weatherproof and waterproof linear CATV "F", BNC, RCA and right-angle compression-type connectors frrom multiple manufacturers. Precise crimp assured. Accomodates multiple connectors. Single reversible head. No additional parts or attachments required.

Compression connectors compatible with SealTite® Pro		LRC (Augat/T&B)	Snap-n-Seal™
Manufacturer	Connector Model/Series	Calrad	Permaseal™
Paladin Tools	SealTite® Pro	PCT	PCT-DRS
ICM Corp.	Digicon DS, F-conn FS & RG	Stirling	SPL
Gem Gilbert	SNS UltraSeal™	PPC	EX

					443612	
Description	Mftrs. List No.	Order code	1+	Price Each 10+	50+	
"F" Type Waterpr RG55 Cable RG6 Cable	9610 9611	748-7622 <b>•</b> 748-7630 <b>•</b>	14.48 14.48	12.86 12.86	10.50 10.50	
Crimp tool SealTitle Pro	1555	748-7614	58.78	54.42		

# 8000 Series CrimpALL™ Fibre Optic Crimp Tool

# Paladin Tools®



# Interchangeable die sets

Incorporates 4 important ergonomic features that improve user satisfaction and job function:

- Angled head prevents ackward wrist bending during operation.
   Reduced handle grip distance is comfortable for workers with small and large hands
- 3. The higher crimp force is produced with a lower hand force so hands don't tire as quickly. 4. No breakover hand force.

Ulra-smooth, fully ratcheting crimp cycle with built-in safety release. Interchangeable die sets of heat-treated steel for long life. Soft, rubber-embedded handles. Long lasting tool that delivers over 50,000 crimp cycles. Rugged, double-plated jaw design to increase life span.

interchangeable dies		interchangeable dies			
Order code	Application	413-2660	SMA	SI	

SMA, SMB, SFR, ST and SC type

				443750
Description	Order Code	1+	Price Each	10+
Crimp tool frame Die set 2652	413-2658 413-2660	40.75 13.46	38.72 12.69	37.08 12.22

# **Heavy Duty Crimping Tool**







For terminating cable lugs from 10mm<sup>2</sup>-120mm<sup>2</sup> with non-ratchet screw adjustment design for aluminum (8AWG TO 4/0) and copper (8AWG TO 300MCM). Body with aluminium alloy and SCM 4 cutter (hardness: HRC 55°±3°).

					52540
				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Heavy Duty Crimping Tool (670mm)	8PK-CT150	166-6207	51.20	48.64	46.07

# **Crimping Tool**

**Hydraulic Crimping Tool HT51** 



This hydraulic compression tool develops a crimping force of 50kN with a built in safety valve and a pressure releasing system that can be operated at any stage of the compression. With spring loaded handles and a tool head that rotates through 180 degrees connectors can be positioned with one hand while the other advances the dies. For use with copper cables up to 150mm<sup>2</sup>. Complete with steel carrying case. Die sets are to be purchased seperately.

432340		

Outer Oute	Price Each
Order Code	1+
271-505	476.86

# **Crimping Tools**

**Hydraulic Crimping Tool HT131-C** 



A twin stage hydraulic hand compression tool developing a crimping force of 130kN, suitable for installing crimp type electrical connectors on copper cables up to 400sq mm and on aluminium cables up to 300sq mm. The built in safety valve will by-pass the oil supply when the maximum pressure is reached and a pressure releasing system can be easily operated at any stage of the compression. For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees. This robust and self contained tool uses the semi-circular slotted dies which are common to most

130kN tools, but are not supplied with the tool. Complete with steel carrying case.

	Price Each
Order Code	1+
271-510	777.72

# Die Sets

Dic octs		491460
0		D.C. Freek
Conductor		Price Each
Size(mm <sup>2</sup> )	Order Code	1+
10	271-547	39.75
16	271-548	42.95
25	271-549	39.75
35	271-550B	39.76
35 (flexible)	271-551	39.75
50	271-552	42.95
70	271-554	40.90
95	271-511	40.90
120	271-512B	39.76
150	271-513	39.75
150 (flexible)	271-558	42.95
185	271-514	39.75
185 (flexible)	271-559	42.95
240	271-560	39.75
300	271-561	39.75
400	271-562	39.75

# **Die Sets**









# **Crimp Tools - continued**

# Die Sets - continued

		493418
Conductor		Price Each
Size(mm <sup>2</sup> )	Order Code	1+
4 - 6	271-536B	28.00
10	271-537	24.59
16	271-538	24.59
25	271-539	24.59
35	271-540	24.59
35 (flexible)	271-541	24.59
50	271-506	22.75
50 (flexible)	271-542	20.30
70	271-507	22.75
70 (flexible)	271-543	22.75
95	271-508	24.59
95 (flexible)	271-544	24.59
120 120 (flexible)	271-509 271-545	22.75 22.75
ובט (וופגוטופ)	271-545	22.75

# DataReady™ Kit



# Paladin Tools®

Paladin Tools®

# CAT5 AMP/Krone Kit

Kit contains:

AM 12 UTP/STP cutter/stripper - 1112 All-in-one telephone tool for RJ45 & RJ11 modular plug (AMP) - 1545 Standard impact punchdown tool - 3526 Standard 110 blade - 4528 Standard Krone blade - 4527 Patch-Check™ tester - 1529 RJ45 connectors - 9546

A complete Category 5 datacomm tool set in a zip up case. The kit includes everything needed for a CAT-5 installation.

		110	•
Mftrs.list no.	Order Code	<b>Price Each</b>	
9010531	748-7665	139.96	

# **Premise Service Kit**





A large data, voice and coaxial LAN installation kit providing everything for twisted pair and coaxial cable installation.

# Kit contains:

Nt contains:
KT8 round cable cutter - 900265

Data SureStrip™ UTP/STP &
flat satin cutter/stripper - 1116
C CST - 58/59 coax stripper - 1255
FlatCat™ flat satin cable/stripper - 1160
CrimpALL® CrimpFrame with EZI-CHANGE™ thumb screws - 8000 Die sets: RJ45 AMP style - 2061 RJ11 AMP style - 2062

# Kit contains:

SurePunch™ PDT punchdown tool - 3570 SurePunch™110 reversible blade - 4572

SurePunch™ Krone reversible blade - 4573 LAN ProNavigator™ tester - 1543 Speaker probe with volume control and light - 1571

RG58/59/62AU BNC/TNC - 2034 Mftrs. list no. 9010391 Order Code 748-7657 Price Each

# Troubleshooting tips



Chat live online to one of our technical engineers at www.farnell.co.uk

# Coax Ready Kit



The complete tool kit for coaxial installation and assembly. Ideal for LAN/Ethernet or video

Description	Mftrs List No.	Order Code
1300 Crimp Tool	1302	887-146
Crimp Die	2034	887-158
Crimp Die	2075	386-3270
Crimp Die	2653	386-3281
Three Level Coax Stripper	LC CST-58/59	386-3293
Coax Cable Cutter	KT8	NA

443710

WILLIO.			I IIUG Lauli	
List No.	Order Vode	1+	3+	5+
901054	386-3268	92.78	88.45	85.93

# DataReady kit

Kit includes space for Local or Remote Coax Tester



Paladin Tools®



A complete Cat5 datacomm tool set in a handy zipper case.

# Kit contains:

All in one telephone tool for RJ45 and RJ11 Impact punch-down tool with 110 and 66 blades AM12 cutter/stripper for unshielded and shielded cable Patch-Check continuity tester Category 5 RJ45 connectors (x20)

Zipper case with carrying strap and complete instructions

		443795
Mftrs. list no.	Order code	Price each
901053	388-8320	139.96

# Wire Wrapping

# **Electric Powered**

443510



# **GARDNER-DENVER/COOPER**

Powerful mains wire wrap tool Rapid acceleration to 2300rpm

Universal collet accommodates all bits listed below





		222652
		Price Each
Mftrs. List No.	Order Code	1+
29315AA3	628-785	332.25

# **Bits and Sleeves**





Standard Wrap Modified Wrap

All bits and sleeves listed below fit the universal collet as fitted to the tools opposite.

Wire Size AWG	Terminal	Diagonal	Terminal Hole	BIT Mftrs.	Order Code	SI Mftrs. List No.	LEEVE Order Code	
AWG	Min.	Max.	Depth	List No.	Order Code	LIST IVO.	Order Code	
Standard Wrap								
22	1.55	2.18	25.4	18632	147-841	18840	147-842	
24	1.4	1.88	25.4	512058	147-845	512056	147-846	
Modified wrap								
24	1.33	1.88	28.8	26263	147-848	18840	147-842	
26	0.58	0.99	19.1	506445	147-849	507100	147-850	
26	1.35	1.75	25.4	502118	147-851	512056	147-846	
30	0.79	0.86	19.1	507063	147-853	507100	147-850	
30	0.84	0.91	19.1	507573	147-854	507100	147-850	
Cut Strip and Wrap								
30	0.76	0.86	25.4	990764	109-261	990765	109-365	
							222653.401577	

	BITS		SLEEVES	
Standard Wrap	Order Code	Price Each	Order Code	Price Each
22AWG	147-841	31.58	147-842	12.24
24AWG	147-845	72.00	147-846	38.25
Modified Wrap				
26AWG	147-849	72.00	147-850	30.75
26AWG	147-851	69.75	147-846	38.25
30AWG	147-853	72.00	147-850	30.75
30AWG	147-854	72.00	147-850	30.75
Cut Strip and Wrap				
30AWG	109-261	182.25	109-365	98.25

# **Squeeze Handle**



- Ideal for field service engineers
- One squeeze produces ten revolutions of the wrapping bit
- Suitable for use with 22 to 30 AWG
- Universal collet accommodates all wrapping bits listed above.

222651

Mftrs. List No.	Order Code	Price Each 1+
28000AC1	147-865	96.75

# Hand Strip/Wrap/Unwrap Tool



- Wire stripping wrap and unwrap tool
- Gives modified wrap on 0.6mm square terminals using 0.25mm wire
- 112mm x 8mm size allows easy access to restricted spaces

	,	222654,40157
Mftrs. List No.	Order Code	Price Each 1+
WSU30M	441-089	23.56

# **Lexan™ Manual Wire Wrapping Tool**





- For precise and reliable wrapping
- Lightweight and robust
- Designed with a chuck nose piece and sleeves
- Tool accommodates wire sizes from AWG 22 (0.65mm) - AWG 32 (0.20mm)

# Order Code 1+ 5+ 10+ Manual Wire Wrapping Tool 826-4414 96.74 93.83 91.95

# Wire Wrapping Bits & Sleeves





Fully compatible with any make or model wire wrapping tool.

Wire 6 AWG 22	Gauge mm 0.65	Bits Mftrs. List No WB2275M	Sleeves Mftrs. List No P2224	Max. Insulation ∅ (mm) 1.32	Terminal Min 1.24	Diagonal Max 1.87	Square Terminals (mm) 1.0 x 1.0
24 26	0.50	WB24DH WB2426M	P2224 P2224	1.17 1.17	1.37	1.85 1.85	0.8 x 1.6 1.0 x 1.0 0.8 x 1.6 1.0 x 1.0
26 30	0.4 0.25	WB26SM SB30MMK	P26LN P3032	0.79 0.58	0.58 0.79	0.96 0.89	0.8 x 1.6 0.6 x 0.6 0.6 x 0.6

37	8	

			Price Each	
	Order Code	1+	5+	10+
Bits				
WB2275M	826-4503	32.24	31.28	30.66
WB24DH	826-4481	34.41	33.36	32.70
WB2426M	826-4490	34.41	33.36	32.70
WB26SM	826-4473	34.41	33.36	32.70
SB30MMK	118-1734	37.33	36.50	35.45
Sleeves				
P2224	826-4538	17.20	16.69	16.35
P26LN	826-4520	23.65	22.93	22.47
P3032	826-4511	23.65	22.93	22.47

# **Hand Wrapping and Unwrapping Tools**





- 2 in 1 Wrapping and Unwrapping in one tool
- Easy and quick switch from wire wrapping to unwrapping
- Precise and long-lasting
- Suitable for field service

	V	Wire size		Diagonal	Square	
Mftrs.List No	AWG	mm	Min	Max	Terminals (mm)	
HW-UW-224	22-24	0.50-0.65	1.37	1.85	1.0 x 1.0	
					0.8 x 1.6	
HW-UW-2426	3 24-26	0.40-0.50	1.39	1.87	1.0 x 1.0	
					0.8 x 1.6	
HW-UW26SN	1 26	0.40	0.58	0.96	0.6 x 0.6	
HW-UW 30	30	0.25	0.79	0.89	0.6 x 0.6	
					2720	

3857

			Price Each		
Mftrs. List No	Order Code	1+	5+	10+	
HW-UW-224	826-4570	56.28	54.70	51.90	
HW-UW-2426	826-4562	58.04	56.30	55.16	
HW-UW26SM	826-4554	64.50	62.56	61.31	
HW-UW 30	826-4546	64.50	62.56	61.31	

# **Hand Unwrapping Tool**





- For easy and quick removing of wire
- Wire size 18 30 (1,0 0,25mm)

	Wrapping	W	ire size	Terminal Diagonal	Square
Mftrs. List No	Тур	AWG	mm	mm	Terminals (mm)
UW-1	D	20-26	0.80-0.40	1.73	1.0 x 1.0
					0.8 x 1.6
UW -4	В	20-26	0.80-0.40	1.73	1.0 x 1.0
					0.8 x 1.6
UW -2832 C	D	28-32	0.50-0.20	0.92	0.6 x 0.6

			Price Each				
	Mftrs. List No	Order Code	1+	5+	10+		
	UW-1	826-4600	18.28	17.73	17.37		
	UW -4	826-4597	25.80	25.02	24.52		
	LIM DOOD C	00C 4E00	22.22	20.20	21.60		

# 3 in 1Combination Tools



- OKi
- Wrapping, unwrapping and wire stripping in one tool
- Suitable for service and maintenance

Integrated wire stripper







373826

# Wire Wrapping - continued

# 3 in 1Combination Tools - continued

	V	/ire size	Terminal	Square
Mftrs. List No	AWG	mm	Depth (mm)	Terminals (mm)
WSU 2224	22-24	0.65-0.50	38.1	1.0 x 1.0
				0.8 x 1.6
WSU 24 M	24	0.50	38.1	1.0 x 1.0
				0.8 x 1.6
WSU 26 M	26	0.40	38.1	1.0 x 1.0
				0.8 x 1.6
WSU-30	30	0.25	38.1	$0.6 \times 0.6$
WSU30M	30	0.25	38.1	0.6 x 0.6
				373942

		Price Each			
Mftrs. List No	Order Code	1+	5+	10+	
WSU 2224	826-4619	33.32	32.32	31.68	
WSU 24 M	826-4627	33.32	32.32	31.68	
WSU 26 M	826-4635	33.32	32.32	31.68	
WSU-30	826-4643	21.50	20.86	20.44	
WSU30M	441-089	23.56			

# **Pliers - Standard**

# **Ergo Pliers Set**



						101 10	-
Price Per Set							
Model	Contents	Order Code	1+	5+	10+	20+	
9897 8224 slip joint, 2628G-160 combina-							
	tion, 228G-160 side cutting,						
	2430GT-160 long snipe nose.	135-6143	59.87	58.67	57.50	55.93	

# **Installation Pack**



• The indispensible set of pliers for all installation work Contents:

Combination pliers with polished head and plastic-coated handles (length: 180 mm)

Pantograph pliers with polished head and thick-walled plastic sleeves (length: 200 mm)

Side cutters with polished head and thick-walled plastic sleeves (length: 160 mm)

		243730
		Price Each
Mftrs. Part No.	Order Code	1+
002011	333-0965	32.85

# **Power Package**



- 3-part pliers set in attractive sales packaging
- Content:
- 1 High Leverage Combination Pliers 180mm
- 1 High Leverage Diagonal Cutter 160mm
- 1 KNIPEX-"Cobra", the HiTech Water Pump Pliers

				2437	JU
			Price Each		
Mftrs. Part No.	Order Code	1+	+	+	
002010	381-3990	41.05			

# Pliers, Box Set of 3.







3754 160 mm Wire Strippers 2750 160 mm Side Cutter 3906 200 Snipe Nose Pliers

- Hot drop forged from special alloy steel for strength and durability
- Ergonomically designed sleeves for comfort and effortless use
  Contoured anti slip shoulders for safety in use
  Dual compound technology features soft grip non-slip inlays for grip and control
  Matt chrome finish for corrosion protection
- Gas/Oil hardened for optimum performance
- Induction hardened and precision ground cutting edges for precision cutting and long life

CK

Mftrs.			Price Each			
		List No.	Order Code	1+	5+	10+
	PLIER SET OF 3	T3804	166-0784	49.00	46.55	44.15

# **Heavy Duty Plier Set** Redline

вансо

487490

KNIPEX

KNIPE





- Heavy duty pliers and cutters for professional use
- Cutting edges are induction hardened for durability and clean cutting action
- Satin chrome plated finish for protec-
- Moulded high grip PVC handles with anti-slip guards
  Supplied in presentation box

Kit Contents:	Length	Cutting Capacity, Piano Wire
Side cutters	160	2.0
Combination pliers	180	1.6
Snipe nose pliers	200	1.6

222720.401768

**DURATOOL** 

Mftrs.		Price Each
List No.	Order Code	1+
T3803	765-661	49.75

# 3 Piece Plier Set



- 2-component handle with slip guard
- Shock proof handle
- Drop forged, heat treated fully polished steel

# Contents:

- 160mm Diagonal pliers180mm Combination pliers
- 200mm Long nose pliers

493010.492588

	Price Each							
Order Code	1+	5+	10+	20+				
149-6328	20.55	19.08	17.05	15.19				



# 5 Piece Pliers Set

# **DURATOOL**



- Ergonomically designed double injected handles
- Drop forged, heat treated fully polished steel machine finish Set contents:
- 1 x 256mm (10") Waterpump pliers
- 1 x 205mm (8") Slip joint pliers
- 1 x 205mm (8") Long nose pliers
- 1 x 180mm (7") Combination pliers 1 x 180mm (7") Diagonal cutter pliers

					482104.46229				
	Price/Set								
Order Code	1+	5+	10+	20+	50+				
144-7569	11.20	10.25	9.56	8.40	7.83				

# **Side Cutters**





- 2-component handle with slip guard
- Shock proof handle

140mm

- Drop forged, heat treated fully polished steel
- Available in two sizes: 140mm or 160mm

160mm		2.8mm		2.0mi	m		
					493005.492559	9	
Size			Price	e Each			
	Order Code	1+	5+	10+	20+		
140mm	149-6318	8.44	7.83	7.00	6.09		
160mm	140 6210	0.00	0.05	7.46	6.50		

2.5mm

Cutting Capacity: wire

# **Heavy Duty Side Cutter**

# **DURATOOL**

1.8mm



- 2-component handle with slip guard
- Shock proof handle
- Drop forged, heat treated fully polished steel

Size 180mm	Soft 3.8mm	Cutting Capa Med/H 2.7m	lard	Hard 2.3mm 493006.492563
Order Code 149-6320	1+ 11.13	Price 5+ 10.33	Each 10+ 9.23	20+ 8.04

# **Diagonal Cutters Type 70**



- the indispensable diagonal cutter for all-round use
- high quality material and precise workmanship for long service life

- precision cutting edges for soft and hard wire clean cutting at cutting edge tips; also in case of thin copper wires cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC
- narrow head style for use in confined areas
- Vanadium electric steel, oil-hardened and tempered
- with two-colour dual component handles according to **DIN ISO 5749**

Mftrs. Part No.	Head	Cutting performance Ø mm		Length	Weight		
		soft	medium	hard	mm	g	
7002160	Polished	4.0	2.8	2.0	160	205	
70 05 125	Chromed	3.0	2.3	1.5	125	115	
70 05 140	Chromed	4.0	2.5	1.8	140	155	
70 05 160	Chromed	4.0	2.8	2.0	160	205	
						403063	3

Mftrs. Part No.	Order Code	1+	Price Eac 5+	<b>h</b> 10+
7002160 70 05 125 70 05 140	439-4197 876-185 876-197	13.25 15.05 15.10	 14.60 14.65	 14.15 14.20
70 05 160	876-203	15.75	15.30	14.80

# High Leverage Diagonal Cutter Type 74



(CK) 45



- with forged-on axle for heaviest duty
- suitable for all types of wire including piano wire
- high cutting performance with minimum effort due to optimum co-ordination of the cutting edge angle and transmission ratio
- precision cutting edges additionally induction-hardened, cutting edge hardness approx.
- the 250-mm-long diagonal cutter is suitable for copper conductors up to 16 mm² and aluminium conductors up to 35 mm<sup>2</sup>
- Chrome Vanadium electric steel, oil-hardened and tempered
- with two-colour dual component handles
- according to DIN ISO 5749

		Gulli	ng periormance 🗵	(IIIIII)			
Mftrs. Part No.	Head	soft	medium	hard	Length	Weight	
74 02 180	polished	3.8	2.7	2.2	180mm	255g	
74 02 200	polished	4.2	3.0	2.5	200mm	300g	
						4022	

			Price Eac	h
Mftrs.	Part No. Order Code	1+	5+	10+
74 02 74 02		17.90 19.05	17.35 18.50	16.85 17.90

# **Side Cutters**





Blade Type	Overall Length	Blade Length	Blade Angle	Piano Wire Cutting Capacity	Mftrs. List No.	Order Code
Diagonal	130	17	15°	1.2	3751-130	263-540
Diagonal	180	25	15°	1.8	T37517	765-612
Semi Flush	145	18	15°	1.8	3750-145	263-552
Semi Flush	160	22	15°	2	3750-160	263-564
Semi Flush	180	_	15°	2	T3750 180	311-7145
Heavy Duty	165	_	15°	2	3720-6.5	765-715
Heavy Duty	200	_	15°	2.5	3720-8	765-727
						223011

	Overall		Price Each
Blade Type	Length	Order Code	1+
Diagonal	130	263-540	14.80
Diagonal	180	765-612	21.20
Semi Flush	145	263-552	15.90
Semi Flush	160	263-564	16.63
Semi Flush	180	311-7145	21.20
Heavy Duty	165	765-715	22.30
Heavy Duty	200	765-727	24.10

# Premium service without a premium price



With thousands of prices alreadyreduced, go online to see ourmost up-to-date pricing:www.farnell.co.uk







# Pliers - Standard - continued

# **Pliers**







Chrome finish with ergonomic grips with return spring. High frequency treated cutting edges ensure durable cut quality for hard wire up to 200kg/mm<sup>2</sup>

							400071	
Model	Capacity (mm)	Size (mm)	(in)	Order Code	1+	Price Eac 5+	<b>h</b> 10+	
192.14CPE 192.16CPE 192.18CPE 192.20CPE	1.4 1.6 1.8 2.0	145 160 180 200	5¾ 6¼ 7 8	431-1978 365-3961 137-4300 431-1980	16.22 17.52 22.15 21.97	15.42 16.00 21.70 20.87	14.60 14.72 21.26 19.75	

# Diagonal cutters Inomic®





cutting hard For wires in the joint area and flush, burr-free cutting of soft wires,

- cables and plastics in the front cutting area. Innovative head with dual cutting function. Cutting edge with bevel near the joint, cutting edge without bevel in the front cutting area.
- Arms of the pliers move in parallel: +25% force transfer.
- With opening spring and locking mechanism. Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC.
- Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the
- Standards: IEC 60900:2004

								44194	HL
cutting performance							Price	Each	
	Mftrs. List No. / Length	soft	medium	hard	Weight	Order Code	1+	5+	
	Z 12 9 15 160MM	4.0mm	2.8mm	2.0mm	140g	124-2226	18.36	16.83	

# **Long Nose Pliers**



Serrated jaws and side cutter

		223001
		Price Each
Overall Length	Order Code	1+
160mm	312-7199	5.49

# **Snipe Nose Pliers**





- 2-component handle with slip guard
- Serrated grip with cutter
- Shock proof handle
- Drop forged, heat treated fully polished steel
- Available in two sizes: 160mm or 200mm

	Cutting Capacity: wire
Soft	Med/Hard
2.5mm	1.6mm
2.8mm	1.8mm
	2.5mm

Size			Price	e Each	
	Order Code	1+	5+	10+	20+
160mm	149-6314	7.83	7.28	6.50	5.66
200mm	149-6315	8.79	8.16	7.30	6.36

# Over 480,000 products online



493003 492552

# **Bent Snipe Nose Pliers**



- 2-component handle with slip guard
- Serrated grip with cutter
- Shock proof handle
- Drop forged, heat treated fully polished steel
- Bent to 40°
- Available in two sizes: 160mm or 200mm

	Cutting Capaci	ty: wire
Size	Soft	Med/Hard
160mm	2.5mm	1.6mm
200mm	2.8mm	1.8mm

493004.492558

**DURATOOL** 

Size		Price Each				
	Order Code	1+	5+	10+	20+	
160mm	149-6316	8.68	8.06	7.20	6.27	
200mm	149-6317	9.70	9.01	8.05	7.01	

# Electricians' Pliers Type 1301





- The ideal pliers for cable work
- For gripping and bending wire
- For cutting soft, medium and hard wire
- $\label{precision} \begin{center} \textbf{Precision cutting edges additionally induction hardened, cutting edge hardness approx. 60} \end{center}$ HRC
- With precision stripping holes
  - For crimping end sleeves (ferrules)
- High grade special tool steel, oil-hardened and tempered 0,75/1,5/2,5mm<sup>2</sup>

Material: High grade special tool steel, oil-hardened

Material of handles: Stripping capacities

Mftrs. Part No.

1301160 0,5-0,75/1,5/2,5 160 245673

		Price Each			
Mftrs. Part No.	Order Code	1+	4+	20+	
1301160	282-157	22.15	21.50	20.80	

# **Long Nose Combination Pliers**



Length



- Ergonomic anti-slip handles
- Induction hardened cutting edges
- Hot drop forged alloy steel
- Matt chrome finish better presentation and rust protection

Overall Length	Jaw Length	Jaw Width	Mftrs. List No.	Order Code
145mm	42mm	1.7mm	3909145	263-576
210mm	72mm	2mm	3906200	263-588
177mm	55mm	4mm	T3909 6	139-1007

Overall	Mftrs.		Price Each
Length	List No.	Order Code	1+
145mm	3909145	263-576	10.45
210mm	3906200	263-588	14.95
177mm	T3909 6	139-1007	14.20

# **Bent Nose Pliers**





- 45° bent nose for extra accessibility
- Complete with rod gripping hole, side cutter
- and serrated jaws Lap joint and Red high grip handles

Overall Length = 200mm

222878

223029





Mftrs. List No.

T3907 200

# **FACOM**

Price Each 1+

19.35

# **Snipe Nose**



Order Code

311-7297

Chrome finsih with ergonomic grips with return spring. Side cutter for steel wire up to  $160 kg/mm^2$ . Serrated jaws with central area for holding rods.

						486298	j
	Size	Size		Price Each			
Model	(mm)	(in)	Order Code	1+	5+	10+	
193.16CPE 185.20CPE	168 200	6½ 8	352-2143 137-4299	14.48 22.29	13.04 21.85	11.88 21.41	
100.200FE	200	0	107-4299	22.29	21.00	21.41	

# Needle nose pliers Inomic®





For gripping, hold-ing, cutting and stripping. With improved access to the objects to be processed.

- Straight shape with blade and three stripping points  $2.5\ mm^2,\ 1.5\ mm^2,\ 0.75$ mm<sup>2</sup>
- Parallel and crosswise profiling for gripping in all directions.
- Arms of the pliers move in parallel: +25% force transfer.
- With opening spring and locking mechanism.
- Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC.
- Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the

								441938
cutting performance						Price Eac	h	
	Mftrs. List No. / Length	medium	hard	Weight	Order Code	1+	5+	10+
	Z 06 9 15 160MM	2.5mm	1.6mm	150kg	124-2224	18.96	17.39	16.05

# **Combination Pliers**



 Serrated jaws, rod gripping hole and side cutter

		Price Each
Overall Length	Order Code	1+
160mm	312-7801	5.65
200mm	312-7230	8.12

# **Combination Pliers**





- 2-component handle with slip guard
- Shock proof handle
- Drop forged, heat treated fully polished steel

	C	utting Capacity: wire
Size	Soft	Med/Hard
160mm	2.5mm	1.8mm
180mm	2.8mm	2.5mm
200mm	3.0mm	2.8mm

					493007.4923	1/3	
Size	Price Each						
	Order Code	1+	5+	10+	20+		
160mm	149-6321	7.84	7.28	6.51	5.67		
180mm	149-6322	8.37	7.77	6.95	6.05		
200mm	1/0-632/	8 86	8 23	7 35	6.41		

# **Combination Pliers Type 03**



- With gripping zones for flat and round material, suitable for versatile use
- With cutting edges for soft and hard wire
- Long cutting edges for thicker cables
- Cutting edges additionally induction hardened, cutting edge hardness approx. ca. 60
- Special tool steel, oil-hardened and tempered
- With two-colour dual component handles

Mftrs. Part No.	Head	Cutting perfor	Length	Weight	
		soft	hard	mm	g
03 02 160	polished	3.1	2.0	160	215
03 02 180	polished	3.4	2.2	180	260
03 02 200	polished	3.8	2.5	200	330
03 05 160	chromed	3.1	2.0	160	215
03 05 180	chromed	3.4	2.2	180	260
					403914

		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
03 02 160	NEW 413-1861	9.60	9.30	9.00	
03 02 180	NEW 413-1873	10.55	10.25	9.90	
03 02 200	NEW 413-1885	12.85	12.45	12.10	
03 05 160	875-892	13.90	13.50	13.05	
03 05 180	875-909	15.00	14.55	14.10	

# **High Leverage Combination** Pliers Type 02

**DIN ISO 5746** 



- For heaviest duty
- 35% saving in power due to new, improved lever action compared with conventional universal pliers
- With gripping zones for flat and round material, suitable for versatile use With cutting edges for soft, hard and piano wire
- Long cutting edges for thicker cables
- Cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC
- High grade special tool steel, oil-hardened and tempered
- With two-colour dual component handles

Mftrs. Part No.	Head	Cutting perfor	rmances Ø mm	Length	Weight
		hard	Piano	mm	g
02 02 180	polished	2.5	2.0	180	235
02 02 200	polished	2.8	2.2	200	330
02 02 225	polished	3.0	2.5	225	400
02 05 180	chromed	2.5	2.0	180	235
					403909

			Price Eac	h
Mftrs. Part No.	Order Code	1+	5+	10+
02 02 180	875-879	14.75	14.30	13.85
02 02 200	875-880	16.05	15.55	15.10
02 02 225	NEW 108-354	17.10	16.60	16.05
02 05 180	440-6618	16.25		

# **Combination Pliers**



- Serrated Jaws
- Lap Joint
- Red high grip handles

Overall Length	Jaw Length	Jaw Width	Hard Wire Cutting Capacity	Order Code
160mm	35mm	9mm	1.6mm	263-590
180mm	40mm	10mm	1.6mm	765-624
200mm	44mm	10mm	2.0mm	765-636
				2230

Overall Length	Mftrs. List No.	Order Code	Price Each 1+	
160mm	3867160	263-590	12.70	
180mm	T3867 7	765-624	15.75	
200mm	T3867 8	765-636	17.40	







# Pliers - Standard - continued

# **Pliers Engineers**





Chrome finish with ergonomic grips with return spring. High frequency hardened cutting edges for power and durability.

							486288
	Size	Size			Price	Each	
Model	(mm)	(in)	Order Code	1+	5+	10+	20+
187.16CPE	165	61/4	137-4297	16.70	16.35	16.04	15.52
187.18CPE	185	7	352-2120	13.05	11.76	10.72	
187.20CPE	205	8	137-4298	19.94	19.53	19.14	18.52

# Combination pliers Inomic®





- For gripping, holding and cutting. With improved access to the objects to be proc-. essed.
- Innovative head with three parallel gripping surfaces at opening angles of 2°, 10° and 2°0 offers an improved and secure hold of the workpiece.
- Crosswise-profiled gripping surfaces with specially shaped teeth for gripping in all directions
- Arms of the pliers move in parallel: +25% force transfer
- With opening spring and locking mecha-

Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the

			Price Eac	h			
Mftrs. List No. / Length	medium	hard	Weight	Order Code	1+	5+	10+
Z 01 9 15 180MM	3.3mm	2.2mm	155g	124-2221	18.58	17.04	15.74

# Halogen lamp pliers





With plastic flanges for mounting and demounting of glas socket light bulbs

						10020	
Price Each						h	
		Mftrs. Part No.	Order Code	1+	5+	10+	
	Halogen lamp pliers	30 41 160 S	916-8389	21.45	20.80	20.15	

# Wire Twisting Pliers



231040

www.farnell.co.uk



- Manufactured from chrome vanadium
- Hardened and tempered
- For twisting and sealing wires in industry to ensure non-tempered fixings Used extensively in aircraft and heavy
- engineering
- For wire size 0.020 0.060 Ø

Mftrs.		Price Each
List No.	Order Code	1+
38896	722-1022	26.07

# **Troubleshooting tips**



Chat live online to one of our technical engineers at www.farnell.co.uk

# **Pliers - Precision**

# **Electronic Pliers & Cutters**





# Supreme Range

Precision pliers with forged box joint incorporating long contact surfaces. Fitted with double leaf springs and plastic covered handles.

# Cutting

			Pric	e Each	
Description	Order Code	1+	5+	10+	20+
L7285 Oblique full flushcutter with long jaws	;				
and 45° cutting edge. For copper wire up to					
1.0mm. Length 120mm.	135-6208	52.50	51.45	50.42	49.41
L7190 diagonal cutter with micro bevel cut-					
ting edge for copper wire up to 1.25mm.	700 0000	00.05			
Length 109mm.	723-8393	28.95			
L7191 as model 7190 but with flush cut.	723-8400	30.35	29.15	27.90	26.70
L7290 Oblique cutter with outer bevel edge for copper wire up to 1,25mm, Length					
108mm.	440-401	36.15	34.70	33.25	31.80
L7293 Oblique cutter with flush cut relieved	440-401	30.13	34.70	33.23	31.00
iaws. For copper wire up to 1mm. Length					
108mm.	440-371	36.35	34.90	33.45	32.00

# Gripping

					40/14
Description	Order Code	1+	Pric 4+	e Each 20+	40+
L7490 Flat nose pliers with smooth grip jaws. Length 130mm. L7893 Snipe nose pliers with smooth grip	440-644	28.15	27.00	25.90	24.75
jaws. Length 120mm.	440-530	25.75			
L7890 Long snipe nose pliers with smooth grip jaws. Length 132mm. L7891 Long snipe nose pliers with serrated	440-577	28.95			
grip jaws. Length 132mm.	135-6210	27.41	26.86	26.33	25.80

# **Diagonal Cutters, Supreme Series**

# **LINDSTROM**



These cutters are made from high performance ball bearing steel, polished. Numerically con-



trolled machine grinding guarantees edge angle accuracy and contact which increases the tools  $\label{eq:contact} % \begin{center} \begin{cent$ reliability and consistency.

Precision induction hardened edges 63-65 HRC. Handles in synthetic material and come with return spring.

Length 109 mm

Cutting Capacity 7190 0.2-1.0 mm, Micro Bevel Cutting Capacity 7191 0.1-1.0 mm, Flush Cut Length jaw: 9 mm

5+	10+	
32.84	31 11	

>LINDSTROM

Mftrs.	Price Each			
List No.	Order Code	1+	5+	10+
7190	167-1589	34.58	32.84	31.11
7191	167-1590	34.58	32.84	31.11

# **Oblique Cutters, Supreme Series**



These cutters are produced in high performance tool steel with specially forged box joint



527326

with polished surface, extra long contact surfaces made possible by a special manufacturing technique. Precision induction hardened edges, 58-60 HRC.





ich	
10+	
33.92	
2	

# **Oblique Cutters, Supreme Series**

# **LINDSTROM**

New



These cutters are produced in high performance tool steel with specially forged box joint

with polished surface, extra long contact surfaces made possible by a special manufacturing technique. Precision induction hardened edges, 58-60 HRC.

Handles in plastic and come with return spring. Analed end cutter for use in confined spaces Lenath, 108 mm Capacity, jaw 0.35-1.25 mm Length, jaw 8 mm

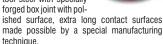
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Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
7290	167-1592	38.00	36.11	34.22
7291	167-1593	38.71	36.77	34.83
. 20 .		00.11	00.77	0 1.00

# Snipe Nose Pliers, Supreme Series

# >LINDSTROM



These pliers are made from high performance tool steel with specially forged box joint with pol-



The pliers are tough hardened 45-48 HRC. Handles in plastic material and come with return spring.

This plier has smooth jaws.

Length 120 mm Length, jaw 20 mm

				5273	76
Mftrs.			Price Each		
List No.	Order Code	1+	5+	10+	
7893	167-1594	30.04	28.56	27.03	

# Snipe Nose Pliers, Supreme Series

# **LINDSTROM**



These pliers made from high performance tool steel with specially forged



527378

box joint with polished surface, extra long contact surfaces made possible by a special manufacturing technique

The pliers are tough hardened 45-48

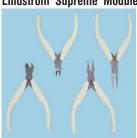
HRC. Handles in plastic material and come with return spring. Smooth jaws.

Length 132 mm Length, jaw 32 mm

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
7890	167-1596	30.45	28.92	27.39

# Lindstrom 'Supreme' Module

# **LINDSTROM**



This module includes Semi flush side cutters 440-140 Snipe nose pliers 440-530 Long nose pliers 440-577

	490926
Order Code	Price Each 1+
105-412	96.61

# **End Cutters**

# **LINDSTROM**

Blade length=4 Overall length=115 Blade angle=90° Cutting capacity 0.8mm copper wire Box ioint White handles

223024

	Mftrs.		Price Each
	List No.	Order Code	1+
Full Flush	L7292	440-425	34.75

# **Bent Nose Pliers**



**LINDSTROM** 

Jaw width = 1Overall length = 129 Tip angle = 60° Smooth jaws Box joint White handles

222615

Mftrs.		Price Each
List No.	Order Code	1+
L7892	440-681	31.00

# **Diagonal cutters - 80 Series**

# **LINDSTROM**



These cutters are made from high performance ball bearing steel, black oxidised.

Numerically controlled machine grinding guarantees edge angle accuracy and contact which increases

the tools reliability and consistency. Precision induction hardened edges, 63-65 HRC. Handles in synthetic material and come with return spring. These Oval Head cutters are ideal for wire harness work and standard printed circuit

8130 8142 Length Cutting Capacity 110 0.1 - 1.0 mm 0.2 - 1.0 mm Length jaw 8 mm 10 mm

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
8130	167-1597	33.92	32.23	30.55
8142	167-1598	36.67	34 83	33 00

# Oblique cutters - 80 Series

**LINDSTROM** 

These cutters are made from high performance ball bearing steel, black



oxidised. Numerically controlled machine grinding guarantees edge angle accuracy and contact which increases the tools reliability and consistency. Precision induction hardened edges, 63-65 HRC. Handles in synthetic material and

come with return spring. This Oblique cutter is ideal for rework and close assembly needs. Length 110 mm

Capacity, jaw 0.2-1.2 mm Length, jaw 9.5 mm

				327300
Mftrs. List No.	Order Code	1+	Price Each	10+
8211	167-1599	54.01	51.31	48.60

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www.global-legislation.com







# **Pliers - Precision - continued**

# **Tip Cutter**

# LINDSTROM



 $\begin{array}{l} 110\text{mm} \\ \text{Width} = 5\text{mm} \\ \text{Length} = 5\text{mm} \end{array}$ Overall Length Cutting Blade Depth = 1mm at tip up to 4mm Length of Head 14mm Cutting Capacity 0.1 - 0.6mm copper wire

				222002
	Mftrs. List No.	Order Code	Price Each	
	LIST INO.	Order Code	1+	
Full Flush	8149	310-5556	64.36	

# Oblique Cutters 45° Long Head 80 Series





								101000
						Price	Each	
Model	Bevel	Length	Capacity	Order Code	1+	5+	10+	25+
L8247		117.5	1	440-360	56.85	54.60	52.30	50.05

# **Electronic Pliers & Cutters Ergo Series**

# **LINDSTROM**



Precision pliers with return spring for minimum effort and handle designed for maximum comfort. The smooth handle design has optimum handle shape, curvature and length combined with a non slip handle surface.

Model	Description	Order Code	Price Each 1+
L4130	Micro side cutter	483-849	27.39
L4131	Flush side cutter	483-850	26.25
L4231	Flush oblique cutter, 45°	483-874	35.71
L4239	Flush oblique cutter, 15°	483-862	33.50
L4430	Flat nose plier	483-898	19.70
L4830	Snip nose plier	483-886	20.42
L4833	Snipe nose plier, bent tip	483-904	23.50
L4530	Round nose plier	483-916	21.55

# Bahco 'Ergo' Module

3 Piece



Order Code This module includes: 483-849 Semi flush side cutter 483-886 483-898 Long nose pliers Flat nose pliers

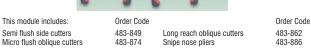


134-3522

Order Code 72.34 Bahco 'Ergo' Module - 3 piece 628-517

# Bahco 'Ergo' Module-4 piece





222773 Price Each Order Code 115.16 Bahco 'Ergo' Module 483-928

# Knipex, Electronics, Side cutting pliers



 Precision-ground Blades without a bevel for mirror cutting,

Precision shaped tips also cut wires up to Ø 0.2 mm;

Extremely light operation for fatigue reduction,

Grips moulded from soft plastic to protect hands













	104-0021	134-3522
Order Code	Model	
413-4035	Cutting hardness approx. 53 HRc, withou	t facet
413-4047	Material: INOX stainless steel .	
413-4059		
413-4060	Inductively hardened cutting for higher ex	
413-4072	cutting hardness approx. 64 HRc, withou Tool special steel, Burnished head	t facet
134-3521	Inductively hardened cutting for higher ex	posure time

134-3521 Inductively hardened cutting for higher exposure time cutting hardness approx. 64 HRc, with very small facet Tool special steel, Burnished head					
Order Code	Cutting value:	s Ø mm			
	Soft	medium hard	Hard	mm	
413-4035	0.2 - 1.6	1.0		125	
413-4047	0.2 - 1.6	1.0		125	
413-4059	0.2 - 1.0	0.6		125	
413-4060	0.2 - 1.6	1.2	0.6	125	
413-4072	0.2 - 1.6	1.2	0.6	125	
134-3521	0.2 - 1.6	1.2	0.6	125	

7	7		7	
2	4	2	8	Ł

125

Mftrs			Price Each		
List No.	Order Code	1+	5+	10+	
78 03 125	413-4035	14.35	13.90	13.50	
78 13 125	413-4047	16.10	15.60	15.15	
78 23 125	413-4059	16.20	15.70	15.25	
78 61 125	413-4060	14.95	14.50	14.05	
78 71 125	413-4072	16.70	16.20	15.70	
78 81 125	134-3521	15.65	15.20	14.70	
78 91 125	134-3522	17.50	17.00	16.45	

12

0.2 - 1.6

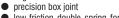
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0.6

# **Electronics Diagonal Cutters Type 77**





low-friction double spring for gentle and even openingthe polish or mirror polish (only finish 2)

together with a fine film of oil offer the best possible rust protection - no circuit faults

caused by peeling chrome from plated tools cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC

special tool steel, oil-hardened and tempered

Tool Steel, Oil-hardened Material of handles: Plastic

Mftrs. Part No. 7702115 7712115 7732115 7742115	Cutting form round head, with small bevel round head, with bevel and lead catcher pointed head, with small bevel pointed head, without bevel	Cutting performance soft/hard 0.3 - 1,6/0.5 0,3 - 1,6/0,5 0,3 - 1,3/0,5 0.3 - 1.3/-	Lentgh 115 115 115 115
7752115 7772115	pointed, flat head, with small bevel pointed, flat head, with small bevel	0,3 - 1,0/0,5 0,3 - 1,0/-	115 115 WET332
7702115 7712115 7732115	333-0400 333-0412 333-0436	1+ 5+ 23.05 22.3 27.60 26.7 25.45 24.7	5 21.65 5 25.95

333-0394

333-0448

333-0450

# **Precision electronics pliers**



24.55 23.35

24.10 25.30 24.10

Cutting values Ø mm Length

26.10



110-9178

the joints are adjusted without play by means of self-securing screwsthe precision-ground joint surfaces ensure an even, low-friction movement over the entire opening range

- DIN ISO 9654 and 9655
- alloyed ballbearing steel, forged
- screwed joint

7742115

7752115

7772115

- opening spring
- nonreflective finish
- ergonomic 2-component handle
- low weight

Mftrs' List No.	Description	soft	medium	hard	mm
79 02 125	Side cutters, rounded head, with facet	0.2 - 1.5	0.8	0.5	125
79 22 125	Side cutters, rounded head, without facet	0.1 - 1.2	0.65	-	125
79 32 125	Side cutters, pointed head, with facet	0.2 - 1.3	0.7	0.4	125
79 42 125	Side cutters, pointed head, without facet	0.1 - 1.0	0.55	-	125
79 02 120	Side cutters, mini, with facet	0.2 - 1.0	0.55	0.3	120
79 22 120	Side cutters, mini, without facet	0.1 - 0.8	0.4	-	120
79 52 125	Side cutters with wire clamp,	0.1 - 1.3	0.7	0.4	125
	pointed head, with very small facet				
79 62 125	Side cutters with wire clamp,	0.1 - 1.0	0.55	-	125
	pointed head, without facet				
34 12 130	Flat pliers, wide jaws, straight	-	-	-	130
34 22 130	Flat, rounded pliers, straight	-	-	-	130
34 32 130	Rounded pliers, pointed jaws, straight	-	-	-	130
					423833

			Price Each		
Mftrs' List No.	Order Code	1+	5+	10+	
79 02 125	110-9174	28.05	27.20	26.35	
79 22 125	110-9176	31.30	30.35	29.40	
79 32 125	110-9178	28.05	27.20	26.35	
79 42 125	110-9180	31.30	30.35	29.40	
79 02 120	110-9183	28.85	28.00	27.10	
79 22 120	110-9185	32.10	31.15	30.15	
79 52 125	134-3523	31.65	30.70	29.75	
79 62 125	134-3525	34.95	33.90	32.85	
34 12 130	110-9166	24.15	23.45	22.70	
34 22 130	110-9168	24.15	23.45	22.70	
34 32 130	110-9172	24.15	23.45	22.70	

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# **Electronics End Cutting Nippers Type 64**





- Precision pliers for ultra fine cutting work, e. g. in electronics and fine mechanics
- Precision box joint
- Low-friction double spring for gentle and even opening
- The polish or mirror polish (only finish 2) together with a fine film of oil offer the
- best possible rust protection no circuit faults caused by peeling chrome from plated tools
- Cutting edge hardness at least 56 HRC
- Special tool steel, oil-hardened and tempered

Tool Steel, Oil-hardened Material: Material of handles:

		е	
Mftrs. Part No.	Cutting form	Copper/Steel	Length
6402115	Normal bevels	2.0/0.6	115
6422115	Mini-blade, small bevels	/	115
6432120	Small bevels	1.5/0.5	120
6442115	Small head, small bevels	1.5/0.5	115
			WFT307

		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
64 02 115	876-021	26.60	25.80	25.00	
64 22 115	876-033	24.05	23.35	22.60	
64 32 120	876-045	28.55	27.70	26.85	
64 42 115	876-057	25.50	24.75	23.95	

#### **Electronics Pliers**

Diagonal Cutters for plastics and lead Type 72





- Cutting face flush ground
- Non-bevelled, for flush cutting sprues off plastic components or soft materials such as lead
- With opening spring
- Vanadium electric steel, oil-hardened and tempered

Material: Chrome Vanadium Oilhardened Material of handles: Plastic Mftrs. Part No. Cutting form Length polished 160 160 7201160 without bevel 7251160 without bevel polished

			Price Each	ı
Mftrs. Part No.	Order Code	1+	5+	10+
7201160	875-995	14.95	14.50	14.05
7251160	876-008	17.55	17.00	16.50

# **Diagonal Insulation Stripper Type 14**



403068



- the essential pliers for electrical installation work
- precision stripping holes for single (solid) conductors of 1.5 and 2.5 mm<sup>2</sup>
- induction hardened precision blades for soft wire up to 4.0 mm Ø, cutting edge
- hardness approx. 60 HRC
- Vanadium electric steel, oil-hardened and tempered

	,				
Mftrs. Part No. 14 22 160	Stripping capacities 1,5 + 2,5 mm2	Capacity 15 + 13 AWG	Length (mm) 160	Weight (g) 205	

			Price Each			
	Mftrs. Part No.	Order Code	1+	5+	10+	
Diagonal Insulation Stripper	14 22 160	875-727	23.00	22.30	21.60	

# **Troubleshooting tips**



Chat live online to one of our technical engineers at www.farnell.co.uk







# **Pliers - Precision - continued**

# Snipe Nose Side Cutting Pliers Type 25 **Radio Pliers**





- Suitable for gripping and cutting work in precision mechanics Pointed, half-round jaws
- Serrated gripping surfaces
- With cutting edges for medium hard and hard wire
- Cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- High grade special tool steel, oil-hardened and tempered
- With two-colour dual component handles According to **DIN ISO 5745**

Mftrs. Part No.	Head	Length	Weight
25 02 140	polished	140	110g
25 05 140	chromed	140	110g
25 05 160	chromed	160	145g
			403087

				Price Eac	h
Description	Mftrs. Part No.	Order Code	1+	5+	10+
Snipe Nose Side Cutting Pliers	25 02 140	413-2026	12.70	12.30	11.95
Snipe Nose Side Cutting Pliers	25 05 140	875-820	15.50	15.05	14.55
Snipe Nose Side Cutting Pliers	25 05 160	875-831	15.00	14.55	14.10

# Snipe Nose Side Cutting Pliers Type 26 Stork Beak Pliers





- High loadable, elastic precision points
- Half-round, long jaws
- Serrated gripping surfaces
- With cutting edges for medium hard wire max. dia. 3.2 mm and hard wire max. dia.

- Cutting edges additionally induction hardened, cutting edge hardness approx. 61 HRC
- Vanadium steel, oil-hardened and tempered
- With two-colour dual component handles
- According to DIN ISO 5745

Mftrs. Part No.	Form	Head	Length (mm)	Weight
26 12 200	straight jaws	polished	200	200g
26 15 200	straight jaws	chromed	200	200g
26 22 200	40° bent jaws	polished	200	200g
26 25 200	40° bent jaws	chromed	200	200g
				403101

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
26 12 200	413-2040	14.00	13.60	13.15
26 15 200	875-855	18.10	17.55	17.00
26 22 200	413-2051	17.80	17.25	16.75
26 25 200	875-867	20.95	20.30	19.70

# **Electronics Mounting Pliers Type 36**





- Precision pliers for ultra fine assembly work, e. g. in electronics and fine mechanics
- For bending and cutting wire ends
- Precision box joint
- Smooth ground gripping surfaces
- Edges carefully deburred
- Low-friction double spring for gentle and even opening
  The mirror polish together with a fine film of oil offer the best possible rust protection no circuit faults caused by peeling chrome from plated tools
- Special tool steel, oil-hardened and tempered

Material:	Tool Steel, Oil-hardened	
Material of handles:	Plastic	
Mftrs. Part No.	Appliance	Length
3612130	to bend wire in shape	130
3622125	to bend and cut wire at 1.6 mm	115
3642125	to cut wire at 1.3 mm	115
		24141
		B. Co. Front

ach
10+
27.75
37.85
35.80
10 15

# **Grab Pliers**

# **Needle Nose Pliers**





- Precision pliers for very exact assembly, bending and adjusting work
- With extra long jaws: length of jaws 55.0 mm
- Smooth ground gripping surfaces
- Edges carefully deburred
- Chrome Vanadium electric steel, oil-hardened and tempered
- 45° bent jaws
- With two-coulor dual component handles

						40431	١
	Le	ngth			Price Eac	h	
Mftrs. Part No.	Jaws-	Overall-	Order Code	1+	5+	10+	
31 25 160	55mm	160mm	413-2063	23.45	22.75	22.05	

# **Round Nose Pliers Type 22**





- For forming wire loops
- Precision ground, short, round jaws Smooth tips
- Special tool steel, oil-hardened and tempered
- With two-colour dual component handles
- According to DIN ISO 5745

Mftrs. Part No.	Head	Length	Weight
		mm	g
22 02 140	Polished	140	135
22 02 160	chrome-plated	160	165
22 05 160	chrome-plated	160	165
			403279

	Mftrs. Part No.	Order Code	1+	Price Each	10.	
	WILLIS. Part NO.	Order Code	1+	5+	10+	
Round Nose Plier	22 02 140	413-1990	10.55	10.25	9.90	
Round Nose Plier	22 02 160	413-2002	10.75	10.45	10.10	
Round Nose Plier	22 05 160	413-5430	13.15	12.75	12.35	

# Flat Nose Pliers 20





Short, flat jaws

Description

www.farnell.co.uk

Flat nose pliers

- Serrated gripping surfaces Special tool steel, oil-hardened and tempered
- Handles: insulated with two-colour dual component handles,
  - According to DIN ISO 5745 Mftrs. Part No. 20 02 140

					4032	77
				Price Eac	h	
on	Mftrs. Part No.	Order Code	1+	5+	10+	
pliers	20 02 140	413-1964	10.75	10.45	10.10	

Head

buffed

# **Small Combination Pliers**



Length



Weight







- Compact combination pliers for professionals and hobbyists
- With gripping zones for flat and round material, suitable for versatile use With cutting edges for soft and hard wire
- Cutting edges additionally induction hardened, cutting edge hardness approx. ca. 60
- Vanadium steel, oil-hardened and tempered
- With two-colour dual component handles

Length (mm) 110 Mftrs. Part No. Head 08 05 110

				Price Each	
1	Viftrs. Part No.	Order Code	1+	5+	10+
Small Combination Plier	08 05 110	413-4199	13.95	13.55	13.10

# Electronic pliers - Case Mftrs List No. 002016



242916



Tool kit for working on electronic compo-

- 3 pairs of electronic gripping pliers 115mm 3 pairs of electronic side-cutters 115mm 1 pair of angle-cutters 120mm
- 1 pair of precision tweezers 115mm

WE	T337

			Price Each	
Mftrs. List No.	Order Code	1+	5+	10+
00 20 16	875-910	128.55	124.70	120.85

# **Side Cutters**





	Overall	Blade	Blade	Cutting Capacity			
	Length	Length	Angle	Soft Steel	Hard Steel	Copper	Order Code
Semi Flush	115	13	15°	1	0.4	1.5	493-650
Full Flush	120	13	15°	1	_	1.5	493-661
						TEE	241X/222781.40199

	Order Code	Price Each 1+
Semi Flush	493-650	16.20
Full Flush	493-661	16.20

# **Side Cutters**





Oval head

Blade length=13 Overall length=115 Blade angle=15°

Cutting capacity 1.0mm Iron wire

1.5mm Copper wire 0.4mm Steel Wire (bevel head only)

				223008
	Mftrs. List No.	Order Code	Price Each 1+	
PVC Handles				
Bevel	3773	108-714	24.90	
Semi Flush	3773F	765-570	28.60	
Full Flush	3773EF	765-582	28.60	
Static Dissipative Handles	:			
Bevel	3773H	109-132	31.47	
Full Fluch	3773HFF	765-600	33.63	

# **Side Cutters**



Blade length=9, Overall length=110, Blade angle=15° Cutting capacity 0.6mm Iron wire 1.0mm Copper wire

222931

	Mftrs. List No.	Order Code	Price Each 1+
PVC Handles Semi Flush Full Flush	3780F 3780EF	765-557 108-713	29.95 29.95

# **Side Cutter**



- Comfortable black plastic
- coated grips anti-slip Spot-welded double leaf springs ensure consistently repeatable functioning
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment
  - Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

Blade Length Overall Length Cutting Capacity

13mm 115mm Copper Soft Wire

1.2mm 0.4mm

(C.K)

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
T3781	151-8915	29.95	28.75	27.55	26.35	

# **Mini Side Cutter**



- Comfortable black plastic coated grips anti-slip
- Spot-welded double leaf springs ensure consistently repeatable functioning
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

Blade Length Overall Length

Cutting Capacity 9mm 110mm Copper Soft Wire

0.6mm

45

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T3880F	151-8916	27.95	26.85	25.70	24.60

# **Heavy Duty 135mm Side Cutters**





- Oval head with mini bevel cut for extra full flush cut
- High grade alloy steel, hot drop forged, Oil hardened and tempered
- Comfortable black plastic coated grips, anti-slip Spot-welded double leaf springs ensure consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean.

				•
уре	Soft Wire	Hard Wire	Overall Length	Blade Length
T3775	2mm	0.7mm	135mm	20mm
T3775EF	2mm	1mm	135mm	20mm







Ту

# **Pliers - Precision - continued**

# Heavy Duty 135mm Side Cutters - continued

					476034
			Price	e Each	
Mftrs. List No.	Order Code	1+	5+	10+	20+
T3775	139-0998	28.80	27.95	27.05	25.90
T3775EF	151-8911	28.50	27.65	26.80	25.65

# 115 mm Tungsten Carbide Side Cutter





- Oval head with tungsten carbide edges for very hard and tough materials
- Mini bevel cut
- High grade alloy steel, hot drop forged, Oil hardened and tempered
- Comfortable black plastic coated grips, anti-slip
- Spot-welded double leaf springs ensure consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean.

	3	, .	
Blade Length			10 mm
Overall Length			115 mm
Cutting Capacity			
Piano Wire			0.6 mm
Soft Wire			2 mm
Hard Wire			1.0 mm

					4801	31
			Price	e Each		
Mftrs. List No.	Order Code	1+	5+	10+	20+	
T3779	139-0999	72 55	69 65	66 75	63 85	

# **Oblique Cutters**





Matt polished, PVC dip coated handles						
Cutting Capacity						
	Soft Steel	Hard Steel	Copper	Order Code		
	1.2	0.5	1.5	493-673		
	1.2	0.5	1.3	493-685		

				IEE243X/222784,401996
Overall	Blade	Blade	Order Code	Price Each
Length	Length	Angle		1+
120	15	70°	493-673	27.10
120	8	45°	493-685	27.10

# **End Cutters**





Overall length=110 Blade angle=75° Cutting capacity: 0 4mm steel wire 1.0mm iron wire 1.2mm copper wire

Blade length=12

				223021
	Mftrs. List No.	Order Code	Price Each 1+	
Semi flush PVC handle Semi flush.	3799F	109-388	31.45	
static dissipative handle	3799HF	109-389	35.70	

# **Oblique Cutter**



- Comfortable black plastic coated grips anti-slip
- Spot-welded double leaf springs ensure consistently repeatable functioning
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment
- Mirror polishing notably reduces risk of corro-
- sion, chrome flaking and is easy to clean Wide head with extra long cutting edges
- Full flush cut

Blade Length Overall Length Cutting Capacity

Copper Soft Wire 15mm 1.6mm 120mm 0.5mm

495155

CK

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T3778F	151-8913	36.00	34.55	33.10	31.70

# 120 mm Oblique Cutter



- Comfortable black PVC coated grips, anti-slip
- High grade alloy steel, hot drop forged, Oil hardened and tempered
   Oblique head angled at 29° for horizontal or vertical use on PCB's

- Full flush and extra full flush cut Spot-welded double leaf springs ensure consistent use Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

Overall Length 120 mm Blade Length

Cutting Capacity

Soft Wire

Copper 0.6 mm 0.8 mm

480096

C.K

Overall Length

130mm 115mm

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T3786F 4	139-1001	31.75	30.50	29.20	27.95

# 130mm Top Cutter



- Very wide and heavy head with long cutting edges High cutting capacity Extra full flush cutting edges

T3776EF 5

T3776F

Туре

- High grade alloy steel, hot drop forged, Oil hardened and tempered

Soft Wire

1.8mm

1.6mm

- Comfortable black plastic coated grips, anti-slip
- Spot-welded double leaf springs ensure consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean.

Hard Wire

0.5mm

					48009
Mftrs. List No.	Order Code	Price Each 1+ 5+ 10+ 20+			
T3776EF 5	139-1000	39.00	37.45	35.90	34.30
T3776F	151-8912	31.50	30.25	29.00	27.70





# **Long Nose Pliers**



Jaw length=22 Jaw width=1 Overall length=120

Long Nose jaws Box joint Matt polished, PVC dip coated handles

TEE242X/222783,401997

(C.K)

CK

Mftrs. List No.	Order Code	Price Each 1+
XF3772S	493-703	17.60

# **Flat Nose Pliers**



Blade length = 22mm Overall length = 120mm Jaw width = 3mm Smooth jaws Box ioint Matt polished, PVC dip coated handles

TEE244X/222785

Mftrs.		Price Each
List No.	Order Code	1+
XF3770S	493-697	18.25

# **Flat Nose Pliers**





- Comfortable black PVC coated grips, anti-slip High grade alloy steel, hot drop forged, oil hardened and tempered
- Spot-welded double leaf springs ensure consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

Туре	Jaw Type	Overall Length	Jaw Length	Tip Width
T3770	Smooth	mm120	22mm	1.5 x 3mm
T3789	Smooth	145mm	40mm	1.5 x 4.5mm
				480074.405835

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
T3770	139-0992	19.95	19.15	18.35	17.55	
T3789	151-8909	25.50	24.50	23.45	22.45	
						ė

# **Snipe Nose Pliers**



223040

C.K

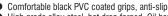


		Overall		Jaw	Mftrs.	
Blade Type	Handles	Length	Jaw length	Width	List No.	Order Code
Long Nose	Static Diss	150	40	1	3777H	628-750

	Overall		Price Each	
	Length	Order Code	1+	
Static Diss.	150	628-750	29.14	

# **Snipe Nose Pliers**





High grade alloy steel, hot drop forged, Oil hardened and tempered Spot-welded double leaf springs ensure consistent use

- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

<b>Type</b> T3772 T3772 1	<b>Jaw Type</b> Smooth Serrated	Overall Length mm120 mm120	<b>Jaw Le</b> 22m 22m	ım	<b>Tip Wid</b> 2 x 1mi 2 x 1mi	m
	rs. List No. T3772 T3772 1	Order Code 139-0994 151-8910	1+ 19.95 19.95	Price 5+ 19.15 19.15	10+ 18.35 18.35	20+ 17.55 17.55

# **Bent Snipe Nose Pliers**





- Comfortable black PVC coated grips, anti-slip
- Bent to 45°

T3769

High grade alloy steel, hot drop forged, Oil hardened and tempered

**Overall Length** 

180mm

120mm

- Spot-welded double leaf springs ensure consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

Jaw Length 44mm

	011100111						
						4800	83
				Price	e Each		
M	lftrs. List No.	Order Code	1+	5+	10+	20+	
	T3769	139-0996	27.90	26.80	25.65	24.55	
	T3767	151-8908	22.95	22.25	21.55	20.65	

# **Needle Nose Pliers**

Jaw Type

Serrated



Jaw Length Bent

18 mm



- Comfortable black PVC coated grips, anti-slip
- Extra slim jaws and fine tips
- High grade alloy steel, hot drop forged, Oil hardened and tempered
- Spot-welded double leaf springs ensure consistent use

Overall Length

- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

Jaw Length

Straight Jaw	mm145	38mm	1.3	omm	
					480086
Mftrs. List No. T3783	Order Code 139-0997	1+ 21.95	Price 5+ 21.05	10+ 20.20	20+ 19.30

# **Round Nose Pliers**

Jaw Type



Comfortable black PVC coated grips, anti-

Tip Width

- High grade alloy steel, hot drop forged, Oil hardened and tempered Spot-welded double leaf springs ensure
- consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of







# **Pliers - Precision - continued**

# **Round Nose Pliers - continued**

corrosion, chrome flaking and is easy to clean

Jaw Type **Overall Length** Jaw Length Tip Width mm120 Smooth 20mm 2 x 1mm

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T3771	139-0993	20.95	20.10	19.25	18.45

# **CEKA 'Electronic' Module**



Order Code

480080



108-713 108-714 Oblique cutters Snipe nose cutters 109-388 108-716 Price Each 86.96

	Order Code
CEKA module	108-853

# **Oblique Cutters** Full Flush

**Long Nose Pliers** 

Serrated

Description

**Side Cutters** 

Semi Flush

Overall

Length

102

Overall

Length

102

Blade

Length

12

54CG

Blade

Angle

16°

170M flush cutter for wire up to 14 AWG Length 127mm. 175M as 170M but fitted with kilp grip to

hold citt off wires. Length 127mm



Price Each

17.50

Order Code

440-231



Jaw Length 12	Overall Length 120	Blade Length 9	Blade Angle 42°	Cutting Capacity (Copper) 1.5	Mftrs. List No. EROP331	Order Code 440-383
					122	1 2/ 220020, 101001

202-332

202-344

Cutting Capacity

Soft Steel

Copper

Order Code

440-231

Mftrs. List No

54CG

5.06

5.85

	Mftrs.			Price	Each	
Overall Length	List No.	Order Code	1+	4+	20+	40+
120	EROP331	440-383	24.00	23.28	22.58	21.90

# Plier/Cutter Set, 6 pce

Full flush side cutters

Full bevel side cutters



Box Set contains: T3773 Side Cutter oval head T3780F Side Cutter tapered head T3799F Oblique Cutter angled at 29° for horizontal and vertical use T3772 Snipenose Pliers straight

T3767 Snipenose Pliers bent nose T3770 Flatnose Pliers The C.K Precision range of pliers and cutters has been designed for use on intricate work

wherever a small, light, yet high qua	lity tool is requir	red.		525114
Mftrs. List No. PLIER / CUTTER SET. 6PCE T3703	Order Code 166-0785	1+ 169.00	Price Each 5+ 159.00	10+ 149.00

# **Electronic Pliers & Shears**





The superior range of electronic pliers are of box joint construction with black burnished heads, double leaf springs and blue PVC covered handles.

# **Side Cutters**

			Price	Each	
Description	Order Code	1+	4+	20+	40+
155 SEB sidecutters for assembly work, for copper wire up to 1.0mm diameter. Length					
110mm. 357 SEB triangular head sidecutters for cop-	800-399	19.13	18.56	18.00	
per wire up to 0.9mm diameter. Length 110mm.	440-267	17.63	17.10	16.59	16.09

A lightweight flush cutter with durable edges for soft wire up to 22 AWG. Comfortable spring handles with cushion grip. Extra slim tips.

# Coming soon



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.

# COOPER



Jaw Width Mftrs. List No. Order Code Jaw Length 57CG 440-632 Standard 140 47 1.75

	Mftrs.		Price Each
	List No.	Order Code	1+
Ctandond	F700	440 000	10.50

**DURATOOL** 

**DURATOOL** 

**DURATOOL** 

# **Diagonal Cutters**

# **DURATOOL**



- Drop forged black oxidized head
- Chrome vanadium steel
- PVC handle with slip guard
- Length: 110mm

1496344: Cutter no bevel round head with spring release handle

1496345: Cutter with bevel round head and spring release handle 1496346: Cutter no bevel with lead catcher round head and spring release handle

	Cutting	Capacity: wire
Size	Soft	Med/Hard
110mm	1.5mm	0.2mm
110mm	1.5mm	0.2mm
110mm	1.5mm	0.2mm

					450020.45200	JU
Size			Price	Each		
	Order Code	1+	5+	10+	20+	
110mm	149-6344	9.25	8.60	7.68	6.69	
110mm	149-6345	8.33	7.72	6.92	6.01	
110mm	149-6346	9.70	9.01	8.05	7.01	

# **Front Cutter**





- Drop forged black oxidized head
- Spring release handle
- Chrome vanadium steel
- PVC handle with slip guard

Length:	130mm
S	ize

Order Code	Pric	e Each		
			493024.4926	78
13011111	1.0	mm		

6.97

Cutting Capacity: Max

6.23

# **Round Nose Plier**

149-6348



5.43



7.50

- Drop forged black oxidized head
- Plain jaws with spring release handle
- Chrome vanadium steel
- PVC handle with slip guard
- Length: 130mm

				493021.492652
		Price	e Each	
Order Code	1+	5+	10+	20+
149-6342	8.27	7.68	6.87	5.97

Over 480,000 products online



# **Snipe Nose Pliers**





- Drop forged black oxidized head
- Plain jaws with spring release handle
- Chrome vanadium steel
- PVC handle with slip guard
- Length: 130mm

				493022.4926	5
Туре		Price	Each		
Order Code	1+	5+	10+	20+	
Straight Nose 149-6343 Bent Nose (30°) 149-6349	7.50 8.49	6.97 7.90	6.23 7.04	5.43 6.13	

# **Flat Nose Plier**



- Drop forged black oxidized head
- Plain jaws with spring release handle
- Chrome vanadium steel
- PVC handle with slip guard
- Length: 130mm

				493020.49264
		Price	e Each	
Order Code	1+	5+	10+	20+
149-6341	7.42	6.90	6.16	5.36

# **Combination Plier**



- Drop forged black oxidized head
- Cutter with spring release handle Chrome vanadium steel
- PVC handle with slip guard
- Length: 120mm

Size 120mm

Cutting Capacity: Max 1.5mm







# **Pliers - Precision - continued**

# **Combination Plier - continued**

493025.492679 Price Each 10+ Order Code 1+ 5+ 20+ 149-6350 8.73 8.11 7.26 6.31

# **Side Cutters**



Blade length = 9.00 Overall length = 132 Blade angle=20°

Cutting capacity=20 AWG Full flush Thick, soft padded handles

Supplied with or without safety clip

	Order Code	Price Each 1+
Without safety clip	202-332	5.06
With safety clip	202-344	5.85

# 5" (125mm) Micro Cutter

# **D**URATOOL

1.2mm

222953



20mm

**Cutting Angle** 

An exceptionally clean smooth cut

Lightweight and easy to handle

23° Cutting Capacity

 Suitable for copper wire, not for use with steel wire

Length: 5" (125mm)

	454577.427439.423850
	Price Each
Order Code	1+
115-6001	3 44

# **Side Cutters**

Jaw Length



Edge Finish	Overall Length	Jaw Length	<b>Cutting Capacity</b>	
Full Flush	125	8	1.3 (16AWG)	312-7485
Safety clip full flush	125	8	1.3 (16AWG)	312-7497
Full Flush	129	9.5	1.3 (16AWG)	312-7436
Full Flush	127	11	1.6 (14AWG)	312-7515

	222925
Order Code	Price Each 1+
312-7485	10.40
312-7497	10.82
312-7436	6.57
312-7515	7.14

# **Side Cutters**



	Overall	Blade	Blade	Cuttin Soft	g capacity Copper	Order
	length	length	angle	iron	ооррог	code
Semi Flush	151	12	15°	2	_	147-208
Full Flush	127	9.5	15°	-	0.8	147-206

TEE42/ 222964,401656

	Order Code	Price Each 1+
Semi Flush	147-208	12.66
Full Flush	147-206	8.60

# **Long Nose Pliers**

# Serrated Jaws



Price Each Order Code 6.44 Long nose pliers 312-7448

# **Flat Nose Pliers**



Jaw Type	Overall Length	Jaw Length	Jaw Width	Order Code
Flat Nose	135	21.5	1.5	147-211
Flat Nose	135	21.5	1.5	147-213
Flat Nose	150	32.5	3	147-212
Flat Nose	150	32.5	3	147-214
				222608

Price Each 1+ 10.66 31.89 10.66 10.66 Order Code Jaw Type Length 147-211 147-213 147-212 135 135 150 150 Flat Nose Flat Nose Flat Nose Flat Nose 147-214

# **Mini Cutters and Pliers**





Long Nose Pliers

Mini cutters and pliers for precision work

Drop forged
Double-dipped handles for added comfort

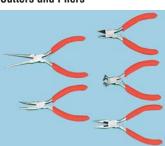
Jaw Capacity: 25mmLength: 120mm

457653.454204

222908

			Price	e Each
Mftrs. List No.	Description	Order Code	1+	5+
D00119	Long Nose Pliers	132-8714	0.85	0.71
D00120	Side Cutters	132-8715	0.99	0.84

# **Cutters and Pliers**



- High quality Electronic Cutters and Pliers, heat treated for excellent cut-ting capacity and durability
- Edges are full cut and recommended for cutting copper and soft lead wires thus ideal for precise circuit board



222837

Snipe nose pliers Bent nose plier Diagonal cutters Long nose plier	145 125 110 125	50 30 14 25	7	312-5373 312-5385 312-5397 312-5415	222894
	Order Code		Price Ea	ach	
Snipe nose pli- ers Bent	312-5373		4.56	6	
nose plier Diagonal	312-5385		3.55		
cutters Long nose	312-5397		4.57		

Jaw Length

Blade Width

4.53

22.50

Order Code

Overall Length

312-5415

312-5427

# **Micro Cutters and Pliers**

Stainless Steel

plier

5pc

and cut-



			'	222890
		Order Code	Price Each 1+	
Cutter Flat Nose Plier	90mm 100mm	312-5476 312-5488	4.60 4.54	
Bent nose plier Round Nose Plier	100mm 100mm	312-5490 312-5506	2.26 2.26	
Long nose plier 5 piece set	100mm	312-5518 312-5520	4.54 20.31	

# **Budget Module - Pressed Steel**



This module includes: Full flush side cutters Flat nose pliers, short serrated	Order Code 147-206 147-213	This module includes: Flat nose pliers, long smooth Large side cutters	Order Code 147-212 147-208	
			:	222640

		Price Each
	Order Code	1+
Budget module pressed	105-414	32.16

# Premium service without a premium price



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# **Budget Module - Forged Steel**



This module includes

	Order Code		Order Cod	
Full flush side cutters	493-661	Long nose pliers	493-703	
Full flush oblique cutters	493-673	Flat nose pliers	493-697	

	Order Code	Price Each 1+
Budget module forged	628-529	57.79

# 5 Piece Mini Plier Set



Carbon steel, hardened and tempered with textured grips and captive double leaf springs. Ideal for the hobbyist and model making

105mm End cutter, 110mm Diagonal Cutter, 120mm Long Nose Plier, 120mm Flat Nose Plier and 120mm Bent Nose Plier

	493854
Order Code	Price Each 1+
135-9492	13.34

# 5 Piece Mini Pliers Set





- Mini plier and cutter set Ergonomic handles for extra comfort
- Two tone anti-slip handles
- Supplied in a handy zipped wallet

# Contents:

Round nose pliers - (5") 120mm Top cutter pliers - (4") 100mm Flat nose pliers - (5") 120mm Bent nose pliers - (4 1/2") 110mm Diagonal cutters - (4 ½") 110mm

		100100
	Pric	e/Set
Order Code	1+	5+
132-8716	6.78	6.22

# **Pliers - Precision ESD**

# Erem cutters and pliers

Semi Flush SF





Super Full Flush Fl



Erem cutters and pliers are unique in terms of quality, precision, reliability, ergonomics and longevity. Erem tools are convincing because of the following: Technology

- Special tool steel owing to particular hardening process extremely compressed and du-
- The invisible Erem magic spring (patented) incorporated guarantees more than 1 million cutting operations with a constant spring force
- Self-locking screw system: play-free, frictionless movement run of the tool jaws
- Opening limitation of the blade points to 5mm: prevention of manual opening for fatique-free work
- ESD-safe

Cut







# **Pliers - Precision ESD - continued**

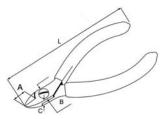
# Erem cutters and pliers - continued

- Induction hardening: high resistive force and cutting capacity 64-65HRC (Rockwell hardness)
- Blades: even, sharp and perfectly matched to one another 3 types of blade according to choice: with facet (semi-flush), without facet (flush), perfectly planar cut (super-full flush)

# Miniature side and pointed cutters Series 600, Micro







Dimensions in mm

- Miniature cutters for extremely fine electronics and very good access even to difficultto-reach places
- Length: 110mm

_	LOI	J-3	aic	

			U	imens	ions	ın mm	
Mftrs' List No.	Head	Cut	L	Α	BC	Max. Cu	Weight
Miniature side cut	tters						
612N	oval head	with facet	110	9	96	1.3	48g
622N	oval head	without facet	110	9	96	1.3	48g
632N	oval head	perfectly planar cut	110	9	96	1.3	48g
622NB	cut-out head	without facet	110	9	96	0.8	48g
776E	cut-out head	perfectly planar cut	110	9	96	0.8	48g
Miniature pointed	cutters						
670E	straight, bevelled head	without facet	110	10.5	96	0.6	48g
670EP	straight, bevelled head	without facet	110	10	96	0.6	48g
670EPF	straight, bevelled head	without facet	110	10	96		48g
							457911

			Price	Each
Mftrs' List No.	Application	Order Code	1+	4+
Miniature side	cutters			
612N	for standard cutting applications	725-6486	28.13	
622N	for standard cutting applications	725-6498	25.20	
632N	for standard cutting applications	NEW 132-6103	28.50	27.65
622NB	for perfect work in tight places	412-2732	28.13	
776E	for perfect work in tight places	904-685	34.13	
Miniature point	ted cutters			
670E	only for fine wires	904-697	38.25	
670EP	for SMD and micro housing contacts			
	up to 0.25mm even with a grid			
	spacing of less than 1/20"	725-6450	44.10	
670EPF	for μ pitches below 0.5mm	NEW 132-6104	53.25	51.65

# Side cutters and pliers of medium size Series 2400 MagicSense





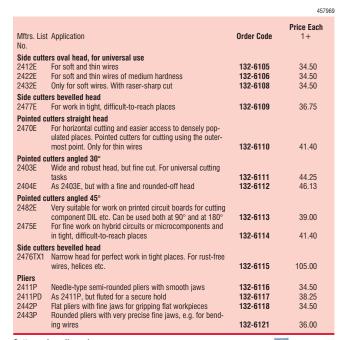


- Cutters of medium size
- Combines robustness, vision and accessibility
- Very wide variety of head shapes for precise work in difficult-to-reach places
- 2400 MagicSense offers an optimum ergonomic shape and a very high hardness grade

Dimensions in mm

ESD-safe

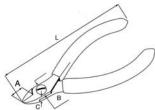
Mftrs' List No.	Cut	L	Α	В (	D	Max. Cu	
Side cutters ova	ıl head						
2412E	with facet	130	12	116	19.2	1.6	
2422E	without facet	130	12	116	19.2	1.6	
2432E	Page: perfectly planar cut	130	12	116	19.2	1.3	
Side cutters bev	relled head						
2477E	without facet	127	9	116	16.2	1.3	
Pointed cutters	straight head						
2470E	without facet	140	4.5	116	29.3	0.6	
Pointed cutters	angled, 30°						
2403E	without facet	130	9.3	116	19.6	1.6	
2404E	without facet	130	9.3	116	19.8	1.2	
Pointed cutters	angled, 45°						
2482E	without facet	135	6.2	116	26.2	1.2	
2475E	without facet	135	4	116	22.4	0.6	
Side cutters bev	relled head						
2476TX1	without facet	130	11	116	18.5	≤1.0	
						Width	Total height
Pliers						of the points	of the 2 points
2411P	Needle-type semi-rounded pliers	146	33.5	116	40.5	1	1.2
2411PD	Needle-type semi-rounded pliers	146	33.5	116	40.5	1	1.2
2442P	Flat pliers	146	33.5	116	40.5	3.4	1.2
2443P	Rounded pliers	146	33.5	116	40.5	Ø 0.8	



**Cutters of medium size** Series 500. Medium







- Combines robustness, vision and accessibility
- Wide variety of head shapes for precise work in difficult-to-reach places
- ESD-safe

				Dimen	sions	in r	mm	
Mftrs' List No.	Surface	Cut	L A	В	С	D	Max. Cu	Weight
Side cutters, oval	head							_
512N	no reflection	with facet	115 10	10.5	6.5		1.6	67g
512E	bronzed	with facet	115 12	2 10.5	6.5		1.6	67g
522N	no reflection	without facet	115 10	10.5	6.5		1.6	67g
522E		without facet	115 12	2 10.5	6.5		1.2	67g
599E		without facet	115 12	2 10.5	6.5		1.6	67g
532N	no reflection	perfectly planar cut	115 10	10.5	6.5		1.6	67g
Side cutters, beve	lled head							
595E		without facet	115 9	10.5	6.5		1.3	67g
Side cutters, cut-o	out head							
592E		without facet	115 12	2 10.5	6.5		0.8	67g
792E		perfectly planar cut	115 13	3 10.5	6.5		0.6	67g
Pointed cutters, 3	0° angled							
503E	no reflection	without facet	110 12	2 10.5	6.5	10	1.6	67g
504AE	no reflection	without facet	110 13	3 10.5	6.5	10	1.3	67g
Pointed cutters, a	ngled narrow							
575E	no reflection	without facet	110 1	5 10.5	6.5	10	0.6	67g
572E	no reflection	without facet	115 18	3 10.5	6.5	6.5	1.3	68g
593AE	no reflection	without facet	115 20	10.5	6.5	4	1.0	68g
582E	no reflection	without facet	115 19	9 10.5	6.5	7	1.3	68g
582EW	no reflection	without facet	115 19	9 10.5	6.5	7	1.3	70g
555E	no reflection	without facet	120 2	1 10.5	6	6.5	1.3	68g
Straight, bevelled	head							
570E	no reflection	without facet	120 2	2 9	6.5	4	0.6	67g
								458007

Mftrs' List No.	Application	Order Code	Price Each 1+
Side cutters, ov	val head		
512N	For universal use	725-6462	25.20
512E	For universal use and		
	robust applications	904-661	34.50
522N	For universal use	725-6474	25.20
522E	For universal use	101-4374	
599E	For universal use	101-4372	36.00
532N	For universal use.	VIIIV 400 0000	00.40
	Only suitable for soft wires	NEW 132-6096	28.13
Side cutters, be			
595E	For cutting tasks in		
	difficult-to-reach places	NEW 132-6097	35.25
Side cutters, cu			
592E	For work in tight and difficult to reach places.		
	For copper wires	NEW 132-6098	36.75
792E	For work in tight, difficult-to-reach places.		
	For fine, soft wires	NEW 132-6099	41.25
Pointed cutters			
503E	For universal cutting tasks	101-4375	43.50
504AE	For universal cutting tasks	NEW 132-6100	46.13

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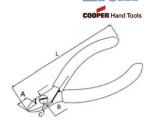
# New

514902

#### Price Each Mftrs' List No. Application Order Code Pointed cutters, angled narrow 575E 45° angled. For fine work on hybrid circuits or microcomponents 39.75 904-703 572E 40° angled. For work in tight and difficult-to-reach places 101-4376 40.50 593AE 50° angled, Ideal maintenance tool For tightly packed printed circuit boards. 725-6449 39.90 Cuts DIL contacts from behind 45° angled. Very suitable for work on printed circuit boards, 582E component terminals, etc. as 582E but with wire support 101-4373 132-6102 582EW Ideal for work with a high cutting force in tight places 555E 132-6101 44.25 Pointed cutters, bevelled head For cutting at the outermost point 904-715 37.00

# Side cutters Series 800, Maxi





- The strongest and most robust head shape for general electronics
- Cuts relatively large wire diameters and for applications in which accessibility is not a
- Length: 120mm
- ESD-safe

					UIII	iensio	ins ir	i mm	
Mftrs' List No.	Head	Surface	Cut	L	Α	В	С	Max. Cu	Weight
812N	oval head	no reflection	with facet	120	15	13.5	7.5	1.8	85g
822N	oval head	no reflection	without facet	120	15	13.5	7.5	1.8	85g
886E	bevelled head		without facet	120	15	13.5	7.5	1.8	83g
884E	cut-out head	no reflection	without facet	120	15	13.5	7.5	1.6	81g
									458059

		Price	Each
Mftrs' List No.	Order Code	1+	4+
Side cutters for relatively thick wires			
812N	101-4379	36.25	35.16
822N	101-4380	36.25	35.16
886E	101-4371	45.50	44.14
884E	NEW 132-6095	47.75	46.32

# **High Precision Swiss Tool Kit** Serie 2450K









- For use in electronics, PCB assembly wire, connection handling and stripping of fine wires
- MagicSense moulded handle with soft touch for increased comfort and grip
- Induction-hardened cutting edges in Rockwell hardness 64-65 HRc
- High grade of hardness for exceptionally long life
- High grade tool steel, non-reflecting surface, ESD-safe, resharpenable
- Internal Erem Magic Spring: constant spring force, guarantees more than 1 million op-
- High precision screw joint: smooth jaw action with no play, smooth cutting operation with no iaw overlapping
- Maximum opening stop: the limited extent to which the handles can open prevent user hand fatigue

Order Code	Mftrs List No:		
132-6105	2412E	Ergo, oval head, semi-flush	Most widely used head shape. It is robust and size
			for size offers the highest cutting capacity.Hard
			wire 0,5mm, medium hardness 1,0mm,Cu.
			1,6mm
904-739	510AE	High precision stripping pliers	Suitable for all types of insulation and optical
		(AWG 30-18)	fibres. Integral side cutting blade
132-6116	2411P	Ergo, Needel nose plier	With very precise, smooth and rounded jaws
			514901

			Price Each	
Mftrs List No:	Order Code	1+	3+	5+
2450K	161-5471	114.75	111.31	107.97

# **High Precision Swiss Tool Kit** 2400 MagicSense



 3-piece tool kit in an ESD-safe plastic case (L x W x D: 270x170z50mm Weight 605g)

- For use in electronics, PCB assembly, wire and connection handling
- MagicSense moulded handle with soft touch for increased comfort and grip
- Induction-hardened cutting edges in Rockwell hardness 64-65 HRc
- High grade of hardness for exceptionally long life
- High grade tool steel, non-reflecting surface, ESD-safe, resharpenable
- Internal Erem Magic Spring: constant spring force, guarantees more than 1 million op-
- High precision screw joint: smooth jaw action with no play, smooth cutting operation with no jaw overlapping
- Maximum opening stop: the limited extent to which the handles can open prevent user hand fatique

Order Code Mftrs Part

132-6105 2412E Ergo, oval head, semi-flush Most widely used head shape. It is robust and size for size offers the highest cutting capacity. Hard wire 0.5mm, medium hardness 1,0mm,Cu. 1.6mm. 132-6113 2482E Ergo, Tip cutter, 45° angled For precise cuts at different working angles. medinarrow head, flush, um hardness 0.6mm, CU, 1.2mm 132-6116 2411P Ergo, Needel nose plier With very precise, smooth and rouded jaws

		ı	Price Each	
Mftrs Part No.	Order Code	1+	3+	5+
2400KMS	161-5472	108.00	104.76	101.62

# **INOX Stainless Steel Pliers**

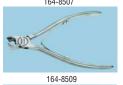
For use in clean rooms (autoclavable), antiseptic or in ESD protected areas















- Swaged stainless steel pliers
- Fine polished surface High corrosion resistance which guarantees a long life time also under agressive influence
- Abrasionproof
- Smooth surface which prevents any kind of sediments and so simplifies the
- Cleaning proccess
- Toxical attributes which especially in the hygienical area are from major importance
- With screwed stainless double leaf spring
- Box joint construction
- Suitable for use in industries like aerospace, medical and dental technique, chemical and electronic, shipbuilding and oil/gas production and finally for the food production

	Length		Weight		
Mfrs.List No.	mm	soft wire	hard wire	copper wire	g
33-115	110	0.4	0	1.1	36
33-215	115	0.6	0.2	1.1	53
33-135	110	0.6	0.2	0.8	40
33-235	120	0.2	0	0.4	43
33-255	120				43
33-275	120				44
					52226

Mftrs.			Price Each	
List No. Description	Order Code	1+	5+	10+
33-115 SIDE CUTTERS, STAINLESS STEEL	164-8506	47.90	45.55	43.15
33-215 SIDE CUTTERS, STAINLESS STEEL	164-8507	46.40	44.10	41.75
33-135 OBLIQUE CUTTERS, STAINLESS STEEL	164-8508	52.40	49.80	47.15
33-235 TOP CUTTERS, STAINLESS STEEL	164-8509	53.60	50.95	48.25
33-255 SNIPE NOSE PLIERS, STAINLESS				
STEEL	164-8510	42.35	40.25	38.10
33-275 FLAT NOSE PLIERS, STAINLESS STEEL	164-8511	42.35	40.25	38.10







# **Pliers - Precision ESD - continued**

# **Side Cutters** Oval Head



**LINDSTROM** 

**▶LINDSTROM** 

(ergo)



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		1	-
	-HIE		

	Overall length	Blade length	Cutting capacity	Mftrs. list no.	Order code
Micro Bevel	133.5	8.5	0.2 - 1.0mm	RX8130	904-764
Micro Bevel	135.5	10.5	0.2 - 1.25mm	RX8140	904-776
Flush	135.5	10.5	0.1 - 1.25mm	RX8141	904-788
Ultra Flush	135.5	10.5	0.1 - 1.0mm	RX8142	904-790
Micro Bevel	138	13	0.3 - 1.6mm	RX8150	904-806
Micro Bevel	145	16	0.4 - 2.0mm	RX8160	352-4061
Flush	145	16	0.3 - 1.6mm	RX8161	352-4073
Ultra Flush	145	16	0.3 - 1.6mm	RX8162	352-4085
				TEE	103/222602,401978

Cutting Edge	Blade Length	Order Code	Price Each 41.25 37.55 40.22 44.94 40.73 42.15
Micro Bevel	8.5	904-764	
Micro Bevel	10.5	904-776	
Flush	10.5	904-788	
Ultra Flush	10.5	904-790	
Micro Bevel	13	904-806	
Micro Bevel	16	352-4061	
Flush	16	352-4073	48.05
Ultra Flush	16	352-4085	55.45

# **Side Cutters**

# **Tapered Head**



Flush cutting edge

 $\begin{array}{l} \text{Overall Length} = 139 \\ \text{Blade Length} = 10.5 \\ \text{Cutting Capacity} = 0.1 - 1.25 \end{array}$ 

		TEE105/222604,40		
ftrs. List No.	Order Code	Price Each		
(8144	904-818	37.40		

# **Electronic Pliers & Cutters RX Series**



Ergonomically designed range of pliers and cutters with handles that fit comfortably in the hand, thus allowing repetitive use without causing discomfort. Unique return spring can be adjusted to suit customer's own requirements and reduces the effort required as the force is concentrated on the cutting action.

# **Side Cutters**

				Price	Each	
Model	Description	Order Code	1+	4+	20+	40+
RX8140	Side cutter with oval head, medium jaws and micro-bevel cut. Cuts copper wire 0.2 - 1.25mm. Length					
RX8141	135.5mm, jaw length 10.5mm. Side cutter with oval head, medium jaws and flush cut. Cuts copper wire 0.1 - 1.25mm. Length 135.5mm,	904-776	37.55	36.80	36.07	35.35
RX8142	jaw length 10.5mm. Side cutter with oval head, medium jaws and ultra-flush cut. Cuts copper wire 0.1 - 1.0mm. Length 135.5mm,	904-788	40.22	39.42	38.63	37.86
RX8150	jaw length 10.5mm Side cutter with oval head, large jaws and micro-bevel cut. Cuts copper wire 0.3 - 1.6mm. Length 138mm,	904-790	44.94	44.04	43.16	42.29
RX8151	jaw length 13mm. Side cutter with oval head, large jaws and flush cut. Cuts copper wire 0.2 - 1.6mm. Length 138mm, jaw length		40.73	39.92	39.12	38.34
	13mm.	135-6211	37.91	37.16	36.41	35.68

# Flat Nose



Price Each						
Model	Description	Order Code	1+	4+	20+	40+
RX7490	Flat nose pliers with smooth jaw.					
	Length 146.5mm, jaw length 20mm.	904-831	33.60	32.25	30.90	29.55

#### **Round Nose**

				Price	e Each	
Model	Description	Order Code	1+	5+	10+	20+
RX7590	Round nose pliers with very fine jaw. Length 146.5mm, jaw length 20mm.		25.72	35.01	34.31	33.62
	Lengur 140.5min, Jaw lengur Zumin.	100-0212	33.72	33.01	34.31	33.02

# **Snipe Nose**

				Price	e Each		
Model	Description	Order Code	1+	5+	10+	20+	
RX7890	Flat nose pliers with smooth jaw.						
	Length 146.5mm, jaw length 20mm.	135-6213	35.72	35.01	34.31	33.62	
RX7891	Snipe nose pliers with serrated jaw.			05.04	05.00	0.4.5.4	
	Length 158.5mm, jaw length 32mm.	135-6214	36.67	35.94	35.22	34.51	

# Snipe nose plier with bent tip



These pliers are made New from high performance

tools steel with specially

forged box joint with polished surface, extra long contact surfaces made possible by a special manufacturing technique.

**LINDSTROM** 

LINDSTROM<sup>®</sup>

The pliers are toughness hardened to 45-48 HRC

Handles in two component synthetic material and come with return spring

This plier has smooth jaws Bent tip angled at 60° Length 155.5 mm Length, jaw 29 mm

527302

Mftrs.		Price Each			
List No.	Order Code	1+	5+	10+	
RX7892	167-1584	39.63	37.64	35.65	

# Oblique cutters 45° long head



These cutters are made from high performance ball bearing steel, black Numerically oxidised.



New

controlled machine grinding guarantees edge angle accuracy and contact which increases the tools reliability and consistency.

Precision induction hardened edges 63-65 HRC.

This Oblique cutter is ideal for rework and close assembly needs.

Handles in two component synthetic material and come with return spring.

Length, 143 mm Capacity, jaw 0.2-1.0 mm

Length, jaw 18 mm Flush Cut

**LINDSTROM** 

527305

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
RX8247	167-1586	71.35	67.78	64.77

# **Oblique cutters**



These cutters are made from high performance ball bearing steel, black Numerically



controlled machine grinding guarantees edge angle accuracy and contact which increases the tools reliability and consistency. This

Oblique cutter is ideal for rework and close assembly needs.

Precision induction hardened edges 63-65 HRC.

Handles in two component synthetic material and come with return spring.

Length, 134.5 mm Capacity, jaw 0.2-1.2mm Length, jaw 9.5 mm Flush cut.









# Oblique cutters 45° long head

# **LINDSTROM**



These cutters are made from high performance ball bearing steel, black oxidised. Numerically



controlled machine grinding guarantees edge angle accuracy and contact which increases the tools reliability and consistency.

Precision induction hardened edges 63-65 HRC.

This Oblique cutter is ideal for rework and close assembly needs.

Handles in two component synthetic material and come with return spring.

Length, 143 mm

Capacity, jaw 0.2-0.8 n	nm
Length, jaw 18 mm	
Flush Cut	

|--|

# Tip cutters

# >LINDSTROM



These cutters are made from high performance ball bearing steel, black oxidised. Numerically

New controlled machine grinding guarantees edge

angle accuracy and contact which increases

the tools reliability and consistency. Precision induction hardened edges 63-65 HRC.

Handles in two component synthetic material and come with return spring. This Tip cutter is ideal for use with multi-lead components and for rework.

Length, 139 mm Capacity, jaw 0.1-0.6 mm

Length, jaw 14 mm

Flush cut

				52731
Mftrs.	Onden Oede	4.	Price Each	10.
List No.	Order Code	1+	5+	10+
RX8149	167-1588	85.58	81.29	77.01

# Heavy duty cutter

# **LINDSTROM**





Side cutter with progressive edges designed to cut hard material such as hard steel wire close to the joint and cut soft material such as copper wire and plastic insulated wire at the tip.

- Black oxidised, anti-corrosion treated finish
- Material: Chrome-Vanadium steel
- Two-component handles: Polypropylene core with a thermoplastic surface for superior grip and comfort
- Shape: An open lapjoint with rivet, in which the distance from the joint to the cutting edges is reduced, results in greater leverage and increased cutting capacity
- Progressive cutting edges give improved accessibility in confined spaces and return spring featuring an on/off function
- Cutting capacity: Hard steel wire
- Length 210 mm
- Capacity, jaw 2.25 mm
- Length, jaw 22 mm

				5	2/360
		Price Per Set			
Set	Order Code	1+	5+	10+	
TRX-8180	167-1600	40.70	38.66	36.62	

# **Tension Springs**

\* Replacement springs for RX Series

# **LINDSTROM**



	222

5 Per Pack		Price Per Pack
Mftrs.List No.	Order Code	1+
RX01	893-663	4.40

# **Electronics Side Cutting Pliers ESD**





876-434 876-434

413-5593 876-446 876-446

- ESD version: electrically conductive dissipative,
- precision-ground cutting without facets to surface cut
- precision-shaped tips also cut wires up to Ø 0.2 mm
- extremely light operation for reduced fatigue

	•	grips made o	of moulded	I SOTT PIASTIC	, to protects r	iands
1	$\overline{}$					

Mftrs. List No.	
78 13 125 ESD	Cutting hardness approx. 53 HRc, without facet
78 03 125 ESD	Material: INOX stainless steel
78 61 125 ESD	Inductively hardened cutting for higher exposure time
78 71 125 ESD	Cutting hardness approx. 64 HRc, without facet Material: special tool steel, head burnished

Mftrs.		Cutting vali	ues Ø mm		Length
List No.	Design	Soft	Medium	Hard	mm
78 13 125 ESD	With wire clamp	0.2 - 1.6	1.0	-	125
78 03 125 ESD	With wire clamp	0.2 - 1.6	1.0	-	125
78 61 125 ESD	also for glass fibre cable	0.2 - 1.6	1.2	0.6	125
78 71 125 ESD	With wire clamp	0.2 - 1.6	1.2	0.6	125
	·				243029

		Mftrs. List No.	Order Code	1+	Price Each 5+	10+
Е	SD pliers	78 13 125 ESD	413-5581	15.85	15.35	14.90
Е	SD pliers	78 03 125 ESD	876-434	17.30	16.80	16.25
Е	SD pliers	78 61 125 ESD	413-5593	16.40	15.90	15.40
Е	SD pliers	78 71 125 ESD	876-446	17.90	17.35	16.85

# **ESD Diagonal Cutters Type 77**





- precision pliers for ultra fine cutting work, e. g. in electronics and fine mechanics
- precision box joint
- low-friction double spring for gentle and even openingthe polish or mirror polish (only finish 2)
- together with a fine film of oil offer the best possible rust protection no circuit faults

caused by peeling chrome from plated tools

- cutting edges additionally induction hardened, cutting edge hardness approx. 62 HRC
- special tool steel, oil-hardened and tempered

		Cutting performance	
Mftrs. Part No.	Cutting form	soft/hard	Length
7702115	round head, with small bevel	0.3 - 1,6/0.5	115
7712115	round head, with bevel and lead catcher	0,3 - 1,6/0,5	115
7722115	round head, without bevel	0,3 - 1,3/-	115
7732115	pointed head, with small bevel	0,3 - 1,3/0,5	115
7742115	pointed head, without bevel	0,3 - 1,3/-	115
7752115	pointed, flat head, with small bevel	0,3 - 1,0/0,5	115
7772115	pointed mini-head, with small bevel	0,3 - 1,0/-	115
Material:	Tool Steel, Oil-ha	rdened	

Material of handles:

				WET332
		1+	5+	10+
77 02 115 ESD	876-100	24.35	23.60	22.90
77 12 115 ESD	876-112	28.70	27.85	27.00
77 22 115 ESD	876-124	24.60	23.85	23.10
77 32 115 ESD	876-136	26.35	25.55	24.75
77 42 115 ESD	876-148	26.20	25.40	24.65
77 52 115 ESD	876-150	27.40	26.60	25.75

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# **Pliers - Precision ESD - continued**

# **ESD** precision electronics pliers







The joints are adjusted without play by means of self-securing screws the precision-ground joint surfaces ensure an even, low-friction movement over the entire opening range.

- DIN ISO 9654 and 9655
- High quality ball bearing steel, forged
- Joint with screw
- Opening spring
- Non-reflective finish
- Ergonomically shaped, two-colour dual component ESD handles, black/grey
- Low weight

		Cutting v	≀alues Ø n	nm	Length
Mftrs' List No.	Description	soft	medium	hard	mm
79 02 125 ESD	Side cutters, rounded head, with facet	0,2 - 1.5	0.8	0.5	125
79 22 125 ESD	Side cutters, rounded head, without facet	0,1 - 1.2	0.65	-	125
79 32 125 ESD	Side cutters, pointed head, with facet	0,2 - 1.3	0.7	0.4	125
79 42 125 ESD	Side cutters, pointed head, without facet	0,1 - 1.0	0.55	-	125
79 02 120 ESD	Side cutters, mini, with facet	0,2 - 1.0	0.55	0.3	120
79 22 120 ESD	Side cutters, mini, without facet	0,1 - 0.8	0.4	-	120
79 52 125 ESD	Side cutters with wire clamp,	0,1 - 1.3	0.7	0.4	125
	pointed head, with very small facet				
79 62 125 ESD	Side cutters with wire clamp,	0,1 - 1.0	0.55	-	125
	pointed head, without facet				
34 12 130 ESD	Flat pliers, wide jaws, straight	-	-	-	130
34 22 130 ESD	Flat, rounded pliers, straight	-	-	-	130
34 32 130 ESD	Rounded pliers, pointed jaws, straight	-	-	-	130
					423847

		Price Each	
Mftrs' List No.	Order Code.	1+ 5+	
79 02 125 ESD	110-9175	29.20 28.30	
79 22 125 ESD	110-9177	32.40 31.45	
79 32 125 ESD	110-9179	29.20 28.30	
79 42 125 ESD	110-9181	32.40 31.45	
79 02 120 ESD	110-9184	30.00 29.10	
79 22 120 ESD	110-9186	33.15 32.15	
79 52 125 ESD	134-3524	32.80 31.80	
79 62 125 ESD	134-3526	36.05 34.95	
34 12 130 ESD	110-9167	25.30 24.55	
34 22 130 ESD	110-9171	25.30 24.55	
34 32 130 ESD	110-9173	25.30 24.55	

# **Electronics Pliers Type 35 ESD**





3522115 ESD

- precision pliers for ultra fine assembly work, e. g. in electronics and fine mechanics
- for gripping, holding and bending
- precision box joint
- smooth ground gripping surfaces
- edges carefully deburred
- low-friction double spring for gentle and even opening
- the polish or mirror polish (only finish 2) together with a fine film of oil offer the best possible rust protection - no circuit faults caused by peeling chrome from plated tools
- special tool steel, oil-hardened and tempered

Mftrs. Part No.	Form	Length
35 12 115 ESD	flat, wide jaws	115
35 22 115 ESD	half-round jaws	115
35 32 115 ESD	round, pointed jaws	115
35 42 115 ESD	45° bent, half-round jaws	115
Material:	Special Tool Steel	
Material of handles:	Plastic	

				WLIGGI	
Mftrs. Part No.	Order Code	1+	5+	10+	
35 42 115 ESD	875-776	19.65	19.05	18.45	
35 22 115 ESD	875-752	18.20	17.65	17.10	
35 32 115 ESD	875-764	18.20	17.65	17.10	
35 42 115 ESD	875-776	19.65	19.05	18.45	

# **Electronics Pliers Set, 6 parts**

for working on electronic components







- 6 parts, contains 6 ESD electronics pliers, electrically discharging version
- case made of hard-wearing polyester fabric, pliers are held by elastic band, with zip fastener

ent:	
. Part No.	De
3 4 4 E EOD	-

Content:			
Mftrs. Part No.	Description	Length	Order Code
35 12 115 ESD	Electronics pliers, flat, wide jaws	115mm	876-740
35 22 115 ESD	Electronics pliers, half-round jaws	115mm	876-752
35 42 115 ESD	Electronics pliers, 45° bent, half-round jaws	115mm	876-776
64 32 120 ESD	Oblique End Cutter, short head, with small bevel	120mm	875-697
77 02 115 ESD	Electronics Diagonal Cutters, round head, with small bevel	115mm	876-100
77 32 115 ESD	Electronics Diagonal Cutters ESD, pointed head, without bevel	115mm	876-136
			404673

				Price Eac	h
	Mftrs. Part No.	Order Code	1+	5+	10+
Electronics Pliers Sets	00 20 17	916-8290	130.05	126.15	122.25

# SensoPlus ESD Tungsten Carbide Side Cutter







- Oval head with tungsten carbide edges for very hard and tough materials
- Mini bevel cut
- SensoPlus handle design taliored to your hand shape and feel High grade alloy steel, hot drop forged, Oil hardened and tempered

139-1002 146-5985

- ESD safe 2 compound ergonomic handles
- Spot-welded double leaf springs ensure consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean

Mftrs List N	n .	Order Code	1	Price Eac	n ∩⊥ 20⊥
					47603
125 mm	0.4 mm	1.8 mm	0.8 mm	T3787DF 115	146-5985
125 mm	0.6 mm	2 mm	1.0 mm	T3779D 115	139-1002
	Piano Wire	Soft Wire	Hard Wire	Mftrs. List No.	Order Code
Overall Length	L.	outling Gapacity	/		

# Technical information at your fingertips



T3779D 115 T3787DF 115

Over 352,000 technical datasheets available online.

Visit www.farnell.co.uk and look for the Tech Info heading in your search results.





66.75 67.10

63.85 64.20

# SensoPlus ESD Side Cutter





# **Side Cutters** Tapered







Type of head Tapered	Overall Length 120	Cutting Edge 9	Hard	Cutting Capacity Soft Steel 0.6	Copper	Order Code 872-209
Tapered Tapered	125 125	13 13	0.4	1.0 1.0	1.2 1.2	872-210 872-222
Tapered	125	13		1.0	1.2	872-234
						220264

			Price Each
Mftrs. List No.	Cut Type	Order Code	1+
T3780 DF-110	Full Flush	872-209	29.95
T3781 D-115	Mini Bevel	872-210	29.95
T3781 DF-115	Full Flush	872-222	29.95
T3781 DEF-115	Extra Full Flush	872-234	29.95

# Sensoplus side cutters with wire catch

- Oval head with mini bevel cut
- SensoPlus handle design talliored to your hand shape and feel High grade alloy steel, hot drop forged, Oil hardened and tempered Comfortable black plastic coated grips, anti-slip
- Spot-welded double leaf springs ensure consistent use
- Precision box joint means butter smooth action for exact guidance of jaws without need of readjustment.
- Mirror polishing notably reduces risk of corrosion, chrome flaking and is easy to clean.

Blade Length Overall Length	12 mm 125 mm
Cutting Capacity	
Copper	1.5 mm
Soft Wire	2 mm

		Price	e Each	
Order Code	1+	5+	10+	20+
139-1003 151-8921	38.55 39.95	37.40 38.35	36.25 36.75	34.70 35.15
	139-1003	<b>139-1003</b> 38.55	<b>Order Code</b> 1+ 5+ <b>139-1003</b> 38.55 37.40	<b>139-1003</b> 38.55 37.40 36.25

# **Side Cutters**





			Cutting capacity		
Type of head	Overall length	Cutting edge	Soft steel	Copper	Order Code
Oval	120	9	0.6	1.2	872-283
Tapered/Relieved	120	9	0.6	1.0	872-106
Tapered/Relieved	120	9	0.6	1.0	872-118

Mftrs. List No.	Cut Type	Order Code	Price Each 1+
T3880 DF-110	Full flush	872-283	28.65
T3766 DF-110	Full Flush	872-106	29.40
T3766 DEF-110	Extra Full Flush	872-118	29.40

# **Side Cutters** Oval





Type of head	Overall Length	Cutting Edge	Cutting capacity Soft steel	Copper	Order Code
Oval	125	13	1.0	1.5	872-155
Oval	125	13	1.0	1.5	872-167
Oval	125	13	1.0	1.5	872-179

			2202
Mftrs. List No.	Cut Type	Order Code	Price Each 1+
T3773 D-115	Mini Bevel	872-155	28.60
T3773 DF-115	Full Flush	872-167	28.60
T3773 DFF-115	Evtra Full Flush	872-179	28.60

# **ESD Oblique Cutter**







- Soft, comfortable and slip-free thermplastic material compound grips
- Anti-slip bow enhances pinpoint control
- Spot-welded double leaf spring ensures consistently repeatable functioning Precision box joint means butter smooth action for exact guidance of jaws without need for readjustment
- Mirror polishing notably reduces risks of corrosion, chrome flaking, and is easy to
- Long-life cutting edges are induction hardened to maintain cutting ease

Blade length 9mm 120mm Overall Length Cutting Capacity
Copper
Soft Wire 2mm 1mm

					49517
		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T3760DE 110	151_2017	97.05	9.4.45	80.00	77.40

# **Oblique Cutters**





	Overall	Cutting	Cutting Ca	apacity	
Type of head	Length	Edge	Soft Steel	Copper	Order Code
Slim	135	20	0.6	0.8	872-246
Extra Long	135	21		0.6	872-260
					220265

Mftrs. List No.	Cut Type	Order Code	Price Each 1+
T3786 DF-120	Full Flush	872-246	33.95
T3871 DF-120	Full Flush	872-260	45.00

# **Angled Flush Cutters**



Type of head
Oblique

Overall Length 120

Cutting Edge 10

**Cutting Capacity** Soft Steel

Order Code









220263

# **Pliers - Precision ESD - continued**

# **Angled Flush Cutters - continued**

Price Each Mftrs. List No. Cut Type Order Code T3799 DF-110 Full Flush 872-258 35.50

# ESD Snipe Nose Pliers - Bent



Overall Length Jaw Length		151-8918 120mm 25mm		151-8 150n 33m	nm
Mftrs. List No.	Order Code	1+	Price 5+	<b>Each</b> 10+	20+
T3767D 120 T3769D 150	151-8918 151-8919	26.90 29.00	25.80 27.85	24.75 26.70	23.65 25.50

# **ESD Round Nose Pliers**





Technical Data
Length:
Jaw Specification:
Inside Surface
Longth

135mm Smooth 20mm

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
T3771D 120	151-8920	22.95	22.05	21.10	20.20	

# **ESD Needle Nose Plier**



495338

495045.471379



- Straight extra-slim long smooth jaws
- Soft comfortable slip-free thermoplastic grip
- Fatigue-free safe control for the most exacting
- Spot-welded double leaf spring, anti-slip box, precision box joint and mirror polished

Jaw Type Smooth Overall Length Jaw Length 38mm

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T3783D	151-8922	26.05	25.25	24.50	23.45

# **ESD Cutters**

220266

(C.K)





- Drop forged fine polished black oxidized head Plain jaws with spring release handle
- Chrome vanadium steel
- 2-Component handle with slip guard
- ESD Electro static discharge certified

Length: 130mm1496354: Cutter no bevel round head with spring 1496355: Cutter with bevel round head and spring

1496356: Cutter no bevel with lead catcher round head and spring

	Cutting	Capacity: wire
Size	Soft	Med/Hard
110mm	1.5mm	0.2mm
110mm	1.5mm	0.2mm
110mm	1.5mm	0.2mm

					493029.492684	
Size	Price Each					
	Order Code	1+	5+	10+	20+	
110mm	149-6354	11.03	10.23	9.14	7.96	
110mm	149-6355	9.83	9.13	8.16	7.10	
110mm	149-6356	10.05	9.33	8.34	7.26	

# **ESD Front Cutter**







- Drop forged fine polished black oxidized head
- Cutter with spring release handle Chrome vanadium steel
- 2-Component handle with slip guard
- ESD Electro static discharge certified
- Length: 130mm

Size 130mm		Cutting Cap 1.5	pacity: Max mm	493030.492685
Order Code	1+	Price 5+	e Each 10+	20+

149-6357 9.93 9.21 8.23

# **ESD Snipe Nose Pliers**







**D** URATOOL

- Drop forged fine polished black oxidized head Plain jaws with spring release handle Chrome vanadium steel

- 2-Component handle with slip guard ESD Electro static discharge certified

Length: 130mm

				493028.4926	82
Туре		Price	Each		
Order Code	1+	5+	10+	20+	
Straight Nose 149-6353	9.23	8.59	7.67	6.67	
Bent Nose (30°) 149-6358	10.42	9.68	8.65	7.54	



# **ESD Flat Nose Plier**







- Drop forged fine polished black oxidized head
- Plain jaws with spring release handle
- Chrome vanadium steel
- 2-Component handle with slip guard
- ESD Electro static discharge certified
- Length: 130mm

493026.492680

		Price	e Each	
Order Code	1+	5+	10+	20+
149-6351	9.25	8.60	7.68	6.69

# **ESD Round Nose Plier**





- Drop forged fine polished black oxidized head
- Plain jaws with spring release handle
- Chrome vanadium steel
- 2-Component handle with slip guard ESD Electro static discharge certified
- Length: 130mm

493027.492681

	Price Each						
Order Code	1+	5+	10+	20+			
149-6352	10.48	9.72	8.69	7.57			

# **ESD Combination Plier**







- Drop forged fine polished black oxidized head
- Cutter with spring release handle
- Chrome vanadium steel
- 2-Component handle with slip guard
- ESD Electro static discharge certified
- Length: 130mm

Size 120mm	Cutting Capacity: Max 1.5mm	493031.4926
	Price Fach	

				00001.102001		
	Price Each					
Order Code	1+	5+	10+	20+		
149-6361	10.93	10.16	9.08	7.91		

# **Pliers - Waterpump**

# **Groove Joint Pliers**



Overall length = 250mm Jaw opening = 45mm

Manufactured from chrome vanadium steel, drop forged and heat treated and fitted with PVC handle

	Price Each
Order Code	1+
312-7862	2.38

# **Water Pump Pliers**

# Soft Jaws



- Seven position selection up to 40mm jaw opening
- Sprung adjuster mechanism prevents adjusted plier slipping and thus opening the jaws

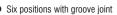
TEE359 401828 222898

	Price Each
Order Code	1+
312-7898	12.05

# **Waterpump Plier**

# **DURATOOL**





- 2-component handle with slip guard for comfort
- Shock proof handle
- Drop forged, heat treated fully polished steel

Size 250mm

Max Jaw Width 36mm

493011.492592

#### **Price Each** Order Code 1+ 5+ 10+ 20+ 149-6329 8.22 7.63 6.82 5.94

# Waterpump Plier



Manufactured from hot deep forged chrome vanadium steel, oil hardened and tempered. Featuring box joint construction for accuracy and long life. 7 position

adjustment and parrallelogram shaped jaws for gripping smooth and irregular surfaces. Built in stops prevent fingers being caught and handles are PVC coated. Manufactured to DIN5231D/ISO 8976.

(NIPEX

Size (in)	Size (mm)	Jaw Cap. (mm)	Order Code	Price Each	
(111)	(111111)	(111111)	Oluel Coue	1+	
91/2	240	32	010-781	15.24	
12	300	38	010-782	25.33	

# "Smart-Grip" Water Pump Plier **DIN ISO 8976**











# Pliers - Waterpump - continued

# "Smart-Grip" Water Pump Plier - continued DIN ISO 8976 - continued

self-controlled adjustment on the workpiece simply by squeezing the handles - ideal for frequent changeover to workpieces of different size one-hand operation for left and right handed people locking lever for space saving transport with reliable closed handles fine adjustment for favourable handle width slim dimensions for good access to the workpiece capacity: for nuts 10 - 36 mm (1 3/8") a/f; for pipes 1/8" - 1 1/4" box-joint design: high stability because of double guide and secure catching of the hinge bolt self-locking on pipes and nuts: no slipping on the workpiece and low handforce required gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and secure gripping favourable lever action:optimum transmission of force guard prevents operators' fingers being pinched Chrome Vanadium electric steel, forged, oil-hardened and tempered

		Capacity for	Capacity for fluts		
Mftrs. Part No.	Handles	pipes O Inch	(mm)	Length (mm)	Weight (g)
85 01 250	with non-slip plastic coating	1 1/4	10 - 36	250	340

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
85 01 250	110-9187	29.30	28.40	27.55

## **Pliers Wrench**

# Pliers and wrench in a single tool



Typ 86 03



Typ 86 05

- excellent for gripping, holding, pressing and bending workpieces
- for careful installation of finished-surface components
- zero backlash jaw surface pressure prevents damage to edges of sensitive compo-
- fast adjustment by pushing a button directly on the workpiece
- no unintentional shift of the gripping jaws and no slipping of the joint
- replaces a complete set of spanners
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum size
- the action of the jaws allows screwed connections to be tightened and released quickly using the ratchet principle
- lever transmission greater than 10 1 for strong gripping power
- also for tile breaking

Mftrs. Part No.	Head	Handles	Working Ca	pacities	Length	Weight
			mm	Inch	mm	g
86 03 180	nickel-plated	with plastic coating	up to35	13/8"	180	260
86 03 250	nickel-plated	with plastic coating	up to46	13/4"	250	540
86 05 180	nickel-plated	with two-colour dual comp. handle	up to 35	13/8"	180	280
86 05 250	nickel-plated	with two-colour dual comp. handle	up to 46	13/4"	250	570

(NIPE)

		Price Each			
Mftrs. Part No.	Order Code	1+	5+		
86 03 180	348-3563	34.00	33.00		
86 03 250	628-530	38.95	37.80		
86 05 180	NEW 916-8435	34.65	33.60		
86 05 250	NEW 916-8443	40.10	38.90		

# HiTech Water Pump Pliers Mini-"Cobra" **DIN ISO 8976**







Typ 87 51: die neue Greif-Cobra. Länge: 250mm. Patentiert

- fast adjustment directly on the workpiece; fast and comfortable handling
- fine adjustment: ensures optimum adjustment to differently sized workpieces and userfriendly handle position. Number of adjustment positions see table
- secure catching of the hinge bolt: no unintentional shifting
- box-joint design:
   high stability because of double guide
- self-locking on pipes and nuts: no slipping on the workpiece and low handforce required
- gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and secure gripping
- one-hand adjustment
- guard prevents operators' fingers being pinched favourable lever action:
- optimum transmission of force
- Chrome Vanadium electric steel, oil-hardened and tempered
- length: 250 mm
- very large gripping capacity
- good access to the workpiece
- high load capacity having a slim design

		Capacity for Ca	apacilles for fluc	stengui (IIIII)	weignt (g	J)
Mftrs. Part No	.Handles	pipes O Inch	(mm)			
87 01 150	with non-slip plastic coating	1 1/4	30	150	150	
87 01 180	with non-slip plastic coating	1 1/4	30	180	170	
87 01 250	with non-slip plastic coating	1 1/2	36	250	300	
87 51 250	with non-slip plastic coating	1/8 - 1 1/2	10 - 35	250	325	
87 02 250	with two-colour dual comp. handle	1 1/2	36	250	320	
87 01 300	with non-slip plastic coating	2	46	300	545	
87 01 180 87 01 250 87 51 250 87 02 250	with non-slip plastic coating with non-slip plastic coating with non-slip plastic coating with two-colour dual comp. handle	1 ½ 1 ½ ½ ½ 1/8 - 1 ½	30 36 10 - 35 36	180 250 250 250	170 300 325 320	

405350

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
87 01 150	NEW 916-8451	14.45	14.00	13.60
87 01 180	842-229	17.20	16.70	16.15
87 01 250	501-001	18.20	17.65	17.10
87 51 250	NEW 110-9188	16.75	16.25	15.75
87 02 250	NEW 439-4185	18.55		
87 01 300	833-150	25.00	24.25	23.50

# Wrench Pliers, 1000V insulated

#### Pliers and wrench in a single tool



- Pliers and Wrench in a single tool
- excellent for gripping, holding, pressing and bending workpieces
- zero backlash jaw surface pressure prevents damage to edges of sensitive and soft
- with scale for presetting the opening width apart from the workpiece
- no unintentional shift of the gripping jaws and no slipping of the joint
- parallel jaws allow infinitely variable gripping of all widths to the specified maximum
- the action of the jaws allows screwed connections to be tightened and released quickly using the ratchet principle
- lever transmission greater than 10 1 for strong gripping power

Mftrs. Part No.	Head	Handles	Capa	ity	Length	Weight
			mm	Inch	mm	g
86 07 250	nickel-plated	plastic dipped, VDE-tested	bis 46	13⁄8"	250	660

474832

(NIPE

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
86 07 250	134-3527	39.65	38.45	37.25

# 'Cobra' Multiple Slip Joint Spanner





- for hexagonal screws and nuts width across flats 10 32 mm (3/8" 1 1/4"); self-locking in the range of 17 - 32 mm (11/16" - 1 1/4"). No slip on workpieces; less effort re-
- replaces a complete set of spanners
- perfect fitting grip on bolt heads and nuts with metric or imperial sizes; no rounding of gripping surfaces
- the plier-type gripping movement of the jaws allows threaded connections to be tightened and released quickly using the ratchet principle
- ideal for tightening locknuts
- secure and tight grabbing of even bolt heads with rounded edges, rusted nuts or heavily coated workpieces
- secure catching of the hinge bolt: no unintentional shifting
- box-joint design:
- high stability because of double guide
- guard prevents operators' fingers being pinched





- ergonomic handle design with non-slip plastic coating for comfortable grip particularly
- with large and tight nuts one-hand fine adjustment by pushing a button with 15 adjustment positions directly on the workpiece for perfect grip on different sized workpieces and a favourable position of the hand
- Chrome Vanadium electric steel, oil-hardened and tempered

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
87 41 250	815-6948	18.65	18.10	17.55

# "Alligator" Water Pump Pliers Type 88 **DIN ISO 8976**





box-joint design:high stability because of double guide self-locking on pipes and nuts: no slipping on the workpiece and low handforce required guard prevents operators' fingers being pinched favourable lever action:optimum transmission of force gripping surfaces with special hardened teeth, teeth hardness approx. 61 HRC: low wear and secure gripping Chrome Vanadium electric steel, oil-hardened and tempered

		40
Capacity for	Capacity for nuts	

		υαρασιτή τοι	oupdoity for fluts		
Mftrs. Part No.	Griffe	pipes O Inch	(mm)	Length (mm)	Weight (g)
88 01 180	with non-slip plastic coating	1 1/4	30	180	185
88 01 250	with non-slip plastic coating	1 1/2	36	250	315
88 01 300	with non-slip plastic coating	2	46	300	505

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
88 01 180	NEW 916-8460	11.95	11.60	11.25
88 01 250	108-355	12.95		
88 01 300	NEW 916-8478	19.10	18.55	17.95

# Pliers Waterpump





High performance multigrip pliers. 7 position slip joint 52mm capacity. Chrome finish for maximum rust protection. Non-slip comfort grip handle for a secure grip.

						10020	1
	Size	Size			Price Eac	h	
Model	(mm)	(in)	Order Code	1+	5+	10+	
180CPE	250	10	352-2106	17.39	16.94	16.70	

# **Multi-Pliers**





Strong jaws with aligned teeth for secure grip. Heavier forged section where most strain occurs.

# Straight Jaws

		Size			Price	e Each	
Model	(mm)	(inches)	Order code	1+	5+	10+	20+
R27CV	178	7	137-1652	15.97	15.49	15.03	14.58
R210CV	254	10	137-1653	25.19	24.43	23.70	22.99
R212CV	305	12	137-1655	25.19	24.43	23.70	22.99

# **Curved Jaws**

							4032	92
		Size			Price	e Each		
Model	(mm)	(inches)	Order Code	1+	5+	10+	20+	
R410CV	254	10	137-1656	20.97	20.34	19.73	19.14	

# Over 480,000 products online



# **Pliers - Locking**

# **Locking Pliers**





A selection of adjustable locking pliers manu-factured from heat treated drop forged steel

- Fully polished jaws
  - Straight jaws
- Serrated for extra grip

481973.457888

				Price Each		
Size	Order Code	1+	5+	10+	20+	50+
127mm	144-7410	1.75	1.50	1.42	1.32	1.18
177mm	144-7411	2.05	1.87	1.63	1.54	1.41
254mm	144-7412	2.34	2.11	1.87	1.75	1.59

# **Locking Pliers**

#### **Curved Jaw**



Self-locking, adjustable, curved jaws incorporating a wire cutter

222910

Length (open)	Order Code	Price Each 1+
125/5"	312-7746	6.22
175/7"	312-7734	8.84
250/10"	312-7722	7.61

# **Grip Pliers**





- holds round, section and flat material securely
- heavy duty model
- with adjustment screw and release lever
- one-hand operation
- high clamping pressure due to toggle lever action
- pliers body: high strength spring steel inserted jaws made from Chrome Vanadium steel, drop forged

Mftrs. Part No.	Order Code	Clamping width (mm)		Length (mm)
		0		
41 04 180	541-6590	8 - 35	0 - 20	180
41 04 250	541-6607	8 - 35	0 - 20	250

344234

			Price Each		
	Mftrs. Part No.	Order Code	1+	5+	10+
Grip Pli	er 41 04 180	541-6590	11.65	11.30	10.95
Grip Pli	er 41 04 250	541-6607	11.50	11.15	10.80

# **Self Grip Wrenches**



- Straight and curves laws for gripping round and
- square material Black rust resistant epoxy coated finish
- Quick release action
- Hot drop forged chrome vanadium steel lower jaw and head
- Chrome vanadium steel upper jaw welded to pressed steel frame

Overall Length			
Max. Round Object			
Max. Flat Object			

442-458	151-8905
180mm	250mm
25mm	35mm
25mm	32mm

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
36387	442-458	13.70				
T3638 10	151-8905	16.70	16.20	15.70	15.05	







# Pliers - Locking - continued

# **Self Locking Wrenches**



Wrench — Overall length 91/2" (241mm)

Order Code 442-460 Straight

- Self locking adjustable jaws. Quick release lever. Riveted assembly for extra strength. Finger control screw for accurate grip
- Chrome plated jaws for protection. Enamelled hammer finish to body

1	223	30	8

		Price Each
	Order Code	1+
9 1/2" Standard	442-460	15.80

# 4 Piece Locking Pliers Set



# **D** URATOOL

- Drop forged, heat treated, serrated steel
- jaws Adjustment screw and quick release lever
- Black finish
- Set contents:
- 125mm (5") curved jaws 180mm (7") curved jaws 150mm (6") long nose 250mm (10") straight jaws

		481974.45788
Price/Set	00.	50.

	Price/Set					
Order Code	1+	5+	10+	20+	50+	
144-7413	7.85	7.51	6.29	5.89	5.36	

# Selr Grip Wrench

Chain Clamp



Adjusts quickly around any shape in difficult places. Will not crush thin walled tube or plastic pipes.

	Size	Capacity		Price Each	
(mm)	(in)	(mm)	Order Code	1+	
250	10	160	216-088	19.46	

# **Chain Pipe Wrenches**



491558



Useful in confined spaces, for instance where the pipe is in a trench, against a wall or close to a nest of other piping. Double ended reversible jaws provide maximum grip on round and irregular shapes. This design carries the USA Federal proof torque specification.

								4000	20
	Capacity	Length	Proof Torque			Price	e Each		
Model	0.D. (mm)	(mm)	(lb / in)	Order Code	1+	5+	10+	20+	
2311/2	61	356	3600	134-8455	99.95	96.00	93.10	86.21	
2321/2	90	546	6000	134-8456	153.00	147.25	141.15	130.71	
234C	220	1295	20000	134-8454	379.00	366.00	349.00	323.17	
235C	330	1638	25000	134-8457	495.00	475.00	455.00	429.07	

# Pliers - Circlip

# **4 Piece Circlip Pliers Set**





Drop forged, heat treated steel

#### Contents:

- Internal-Straight tip 180mm
- Internal 90° tip 170mm
- External-Straight tip 180mm External 90° tip 170mm

481979.462084

	Price/Set					
Order Code	1+	5+	10+	20+	50+	
144-7423	4.11	3.59	3.27	2.88	2.40	

# 4 Piece Circlip Plier Set



# DURATOOL

- Drop forged, heat treated steel
- Double-
- dipped handles Blow moulded storage tray Contents:
- 180mm Internal straight tip
- 170mm Internal 90° tip
- 180mm External straight tip - 170mm External 90° tip

481986.460955

	Price/Set				
Order Code	1+	5+	10+	20+	50+
144-7422	8.71	8.22	7.21	6.55	5.94

# **Precision Circlip Pliers Set**



- 4-piece precision circlip pliers set in a roll-bag or thermoform
- Each fitted with 1 item:
- 48 11 J1 internal circlip pliers (holes) 48 11 J2 internal circlip pliers (holes) 49 11 A1 external circlip pliers (shafts) 49 11 A2 external circlip pliers (shafts)
- Size of contact surfaces of the tips: virtually
- no twisting of the circlips, easy installation. No rim, with inserted tips composed of highly
- compressed spring steel wire. High load capacity even in continuous use.
- The tips are attached in an interlocking manner by pressing, and are thus held captive.
- precise, easy-movement screw joint
- Thin pliers head for optimum access to the workpiece
- both models with straight tips
- External circlip pliers (Models 49 11) with opening spring protected in the joint.
- Head phosphated
- Handle coated with rough plastic, to prevent slipping

Material of pliers: chrome-vanadium electrical steel, forged Roll-up bag material: soft synthetic leather

# Comprises:

Mftrs. List No.	Shape	for holes/shafts $\varnothing$ mm	Length mm	Weight g
48 11 J1	Straight	8 - 13	140	100
48 11 J2	Straight	8 - 13	180	180
49 11 A1	Straight		140	100
49 11 A2	Straight		180	180
				311191

		Price Each		
Mftrs. List No.	Order Code	1+	3+	5+
00 19 57	440-1311	48.50	47.05	45.60

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#### **Circlip Plier Sets**

4 Piece



Quality circlip plier with extra protective black finish and colour coated handles Red (external) Blue (internal).

GEDORE ///

Contents	Size (mm)	Description
1x A2 External	19 - 60 capacity	Straight nose
1x A21 External	19 - 60 capacity	Bent nose
1x J2 Internal	19 - 60 capacity	Straight nose
1x J21 Internal	19 - 60 capacity	Bent nose

Order Code	1+
136-9607	30.99

#### 8 Piece



The complete kit to cover sizes 1 & 2 straight and bent nose.

Contents	Ciza (mm)	Description
	Size (mm)	Description
1x A1 External	10 - 25 capacity	Straight nose
1x A2 External	19 - 60 capacity	Bent nose
1x A11 External	10 - 25 capacity	Straight nose
1x A21 External	19 - 60 capacity	Bent nose
1x J1 Internal	10 - 25 capacity	Straight nose
1x J2 Internal	19 - 60 capacity	Bent nose
1x J11 Internal	10 - 25 capacity	Straight nose
1x J21 Internal	19 - 60 capacity	Bent nose

KNIPE

	Price Each
Order Code	1+
136-9608	54.49

### **Precision Circlip Pliers**

for internal circlips (bore holes)



- for fitting circlips on bore holes, range of application from 8 140 mm dia.
- inserted tips of high density drawn spring wire heavy duty under continuous use; up to 10 times longer service life
- lacktriangleprecise, smoothly-operating screw joint
- forged
- large contact faces on the tips: no distortion of circlips, easy fitting
- slim head style allows use in confined areas
- handles with non-slip plastic coating
- Chrome Vanadium electric steel Model 48 11 with straight tips
- Model 48 21 with bent tips
- Material: chrome vanadium electric steel, forged

Mftrs. Part No.	Form	for bore holes $\varnothing$ mm	Length mm	Weight g
48 11 J0	Straight	8 - 13	140	100
48 11 J1	Straight	8 - 13	140	100
48 11 J2	Straight	8 - 13	180	180
48 11 J3	Straight	8 - 13	225	260
48 11 J4	Straight	8 - 13	320	580
48 21 J01	90° bent	8 - 13	130	100
48 21 J11	90° bent	8 - 13	130	100
48 21 J21	90° bent	8 - 13	165	180
48 21 J31	90° bent	8 - 13	210	260
48 21 J41	90° bent	8 - 13	305	580



#### **Precision Circlip Pliers**

For external circlips (shafts)





- for fitting circlips on shafts, range of application from 3 140 mm dia.
- inserted tips of high density drawn spring wire
- heavy duty under continuous use; up to 10 times longer service life
- precise, smoothly-operating screw joint
- large contact faces on the tips: no distortion of circlips, easy fitting
- slim head style allows use in confined areas
- protective captive spring in the joint
- handles with non-slip plastic coating
- Chrome Vanadium electric steel

Material: chrome vanadium electric steel, forged

Mftrs. Part No.	Form	for shaft ∅ mm	Length mm	Weight g
49 11 A0	Straight		140	100
49 11 A1	Straight		140	100
49 11 A2	Straight		180	180
49 11 A3	Straight		225	260
49 11 A4	Straight		320	595
49 21 A01	90° bent		130	100
49 21 A11	90° bent		170	100
49 21 A21	90° bent		210	180
49 21 A31	90° bent		210	260
49 21 A41	90° bent		305	595
				31119

Mftrs. Part No.	Order Code	1+	Price Each 5+	10+
49 11 A0	440-1219	11.05	10.70	10.40
49 11 A1	440-1220	10.35	10.05	9.75
49 11 A2	440-1232	11.45	11.10	10.75
49 11 A3	440-1244	12.50	12.15	11.75
49 11 A4	440-1256	21.65	21.00	20.35
49 21 A01	440-1268	12.00	11.65	11.30
49 21 A11	440-1270	11.35	11.00	10.65
49 21 A21	440-1281	12.50	12.15	11.75
49 21 A31	440-1293	13.70	13.30	12.90
49 21 A41	440-1300	23.60	22.90	22.20

#### **Resettable Circlip Pliers**



- Interchangeable tips: straight; 15 and 90 degrees
- Easliy adapted for use for internal or external circlips as required

**BAHCO** 

Regulation stop mechanism for easier use and prevention of damage due to excess force

	internai	External	WHES.	Oraer
	Circlips	Circlips	List No.	Code
Resettable Circlip pliers	8-25	3-25	2928-160	723-8617
Resettable circlip pliers	10-48	10-48	2928-200	723-8629
Spare tips for Circlip pliers 160	(Order Code 723-8617)		2928-1	723-8630
Spare tips for circlip pliers 200	(Order Code 723-8629)		2928-2	723-8642

	trs. order Co	Price Each de 1+	
	28-160 <b>723-861</b> 28-200 <b>723-862</b>		
Spare Tips 29	28-1 <b>723-863</b> 28-2 <b>723-864</b>	0 8.00	







311184

#### Pliers - Circlip - continued

#### **Circlip Pliers**





- Manufactured from high quality chrome-nickel carbon steel
- Correctly hardened and tempered
- Polished joints
- Fitted with non-slip comfort grips

				22324
Type	Size	Mftrs. List No.	Order Code	Price Each 1+
Internal Straight	180	38995	722-1034	9.95
Internal Bent	170	38996	722-1046	9.95
External Straight	180	38997	722-1058	10.53
External Bent	170	38998	722-1060	10.53

#### **IDC / Punchdown Tools**

#### Cable Stripper & Punch Down Tool





- A clever little stripping tool for stripping different size cables up to 6.2mm in diameter
- The unit is also a punch down tool, ideal for IDC connection
- The tool measures only 95mm in length, which makes is small enough for a key ring 481954.411434

	Price Each	
Order Code	1+	5+
144-7388	1.16	1.08

#### **IDC Hand Tool**

#### **DURATOOL**



- Professional BT type terminal tool
- Manufactured from toughened plastic with a hardened steel blade
- Quickly and safely cuts and terminates cables
- Handle houses wire hooks and extractors
- Supplied with moulded belt holder

				427039.41190
	Price Each			
Order Code	1+	10+	20+	50+
11/ 0070	7 20	6.03	6.54	6.15

#### **IDC Hand Tool**



The professional terminal hand tool is designed to be used with the BT 2A type connector. Manufactured from toughened plastic and fitted with a hardened steel blade. This tool is ideal for telephone engineers as it terminates and trims the wire to the correct length in one push of the impact tool. The handle houses wire hooks and extractors. Supplied with moulded, plastic belt loop holder.

	230090
Order Code	Price Each 1+
394-9280	23.15

#### Insertion Tool for LSA-Plus



Length: 175 mm

- Insertion Tool for use with boards, sockets and patch fields
- Cut and push down in one operation For UTP and STP cables, conductor cross section 0.4mm to 0.8mm diameter
- Integrated pulling hook and release blade Conductor
- Body, plastic construction

Mftrs	Conductor	Length	
List No.	cross section	mm	
97 40 10	4.4 - 0.8	175	

Mftrs			Price Each	
List No.	Order Code	1+	5+	10+
97 40 10	413-4096	25.75	25.00	24.20

#### **Punchdown Tool**



- For seating Telecom and data cables into terminals
- Automatically trims excess wires during punchdown action Suitable for a wide range of terminal blocks, including KRONE and similar
- Handle includes wire extractor hook and spudger
- Size 180mm

1836	55 47	1151	

243012

(CK)

Mftrs.		Price	Each Each	
List No.	Order Code	1+	5+	
495033	128-3225	22.80	22.10	

#### **Punch Down Tools** For twisted Pair Cable





Terminates and cuts telephone wire and data cable Removable blades for cabeling into 110 and Krone LSA panels. The optional detachable LED light makes working in dark cabinets or during power failures very much easier. The tool will accept all manufacturers twist and lock blades. Within the handle the adjustable impact force control ensures that the tool meets the demands of all cables. Also fitted to the handle are two tools, a hook to feed wires through holes and a multi use spudger: screwdriver and IDC contact insertion tool.

222647

	Price	Price Each		
	List No.	Order Code	1+	10+
Tools - with Blades				
SurePunch with 110 reversible Blade	3592	748-7711	56.16	47.90
SurePunch with Krone LSA Blade	3595	748-7720	56.16	47.90
Replacement parts				
Krone LSA Blade	4575	748-7754	13.68	12.52

#### **Component Forming**

#### **Bending and Cropping Tools**







Simple to use hand tools for precise lead bending of printed circuit board components, such as resistors, capacitors etc. The TP9 and TP12 have the additional facility of cropping the leads to the required length. Both operations (cropping and bending) are carried out simultaneously. The length of cut is adjustable, each side independent of the

	TP8	TP12	TP9
Wire capacity diameter	0.25-1.0	0.25-1.00	0.25-1.0
Maximum Length of Bend	30	16	32
Minimum length of bend	9.5	6	9.5
Minimum distance of bend from	1	1	1
body of component			
Maximum component diameter	12.5	12.5	12.5
Maximum length of cut	_	16	64
Minimum length of cut	_	6	19
Weight	226g	240g	350g

Description	Mftrs. List No.	Order Code	Price Each 1+
Forming handtool		441-053	32.24
Form/Crop handtool, s		441-065	59.66
Form/Crop handtool, la		441-077	59.66



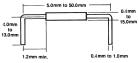


#### **Component Pre-Form Machine**





This machine is designed to cut to length and pre-form axial leaded components ready for fitting into PCB's, where the component is parallel to the board. The components are fed in bandoliered form and are cut and formed without scoring or damaging the leads.



The unit is manufactured with heavy steel plate sides with free running tool steel cutting blades of 35mm diameter. The cutting and bending wheels are in high carbon steel. (Not fitted with tray.)

Available as either manually operated or assembled motor driven versions.

Input 2	240V ac	Capacity	25000 Pieces / Hour	222648
Description		Order Code	Price Each 1+	
Manual machine Assembled motor	version	147-835 150-396	435.73 653.76	

#### **Electronics Accessories**

#### Glass Fibre Pen Type Holder



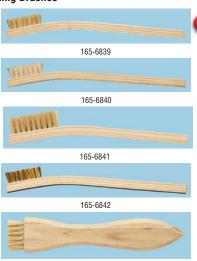
Pen type holder with glass fibre brush for fine cleaning of metallic components. The brush can be adjusted to give differing degrees of stiffness.

~		494647
De- scrip-	Order Code	Price Each 1+
tion Micro scratch		
brush Box of 10 re-	142-1553	5.61
fills	142-1555	6.30

#### **General Cleaning Brushes**

#### **TECHSPRAY**

New



165-6844

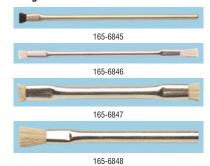
Techspray® has designed a brush line which offers a brush for your specific needs, whether you are cleaning sensitive optics or scrubbing heavy soils. The bristle cut is designed to offer optimum cleaning with minimum effort. The quality natural bristle materials selected are thoroughly cleaned prior to manufacturing.

Wide Range Various Bristle Materials Static safe brushes

TechBrush® handles are designed for a comfortable fit, while offering a variety of handle materials, including anodized aluminum, stainless steel, wood, and Delrin® material. The TechBrush® manufacturing process insures a durable long- lasting brush which will suit your specific needs.

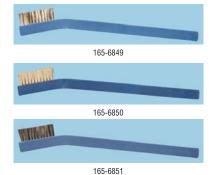
Bristle Material	Handle Length / Material	Mftrs. List No.	Order Code	1+	Price Each 6+	12+
Hog Bristle Hog Bristle Soft Brass	7.3/4" Wood Laminate 7.3/4" Wood Laminate 8.3/8" Wood Laminate 7.3/4" Wood Laminate 4.15/16" Wood Laminate	2020-1 2021-1 2022-1 2025-1 2027-1	165-6839 165-6840 165-6841 165-6842 165-6844	2.02 2.95 6.06 6.88 4.92	1.92 2.80 5.74 6.52 4.66	1.81 2.64 5.43 6.21 4.45

#### **Technical Cleaning Brushes**



		Mftrs.			Price Each	
Bristles	Handle	List No.	Order Code	1+	6+	12+
Goat Hair	3.1/2" Stainless Steel	2030-1	165-6845	6.16	5.85	5.54
Horse Hair	4.1/2" Stainless Steel	2031-1	165-6846	5.64	5.38	5.07
Horse Hair	4.1/2" Zinc Plated Steel	2032-1	165-6847	5.43	5.18	4.92
Horse Hair	4.1/2" Zinc Plated Steel	2033-1	165-6848	5.12	4.87	4.61

#### **Metal Handle Brushes**



		Mftrs.			Price Each	
Bristles	Handle	List No.	Order Code	1+	6+	12+
Horse Hair	6.7/6" Anodized Aluminium	2040-1	165-6849	7.71	7.71	7.30
Horse Hair	6.7/6" Anodized Aluminium	2042-1	165-6850	13.20	12.52	11.90
Stainless Stee	I 6.7/6" Anodized Aluminium	2043-1	165-6851	13.61	12.94	12.27

#### **Static Dissipative Brushes**



These dissipative brushes have a surface resistivity of 106 - 108 ohms, which makes them an excellent addition to any ESD program. Each brush is made with a revolutionary, non-sloughing, static dissipative material to prevent any static generation. For your safety, please use these brushes with a wrist strap or other mechanism to provide a good path to ground.

Bristle	Handle	Mftrs.			Price Each	
Material	Length / Material	List No.	Order Code	1+	6+	12+
Static Dissipative Material	6 7/16" Aluminium	2061-1	165-6852	15.01	15.01	14.23

#### 700 products added online every week



See our pick of the hottest products and latest technologies in 'What's New?' at www.farnell.co.uk







## **Electronics Accessories - continued**

#### **ESD-Safe Wands**







For a large variety of applications in the electronic industry as well as in laboratories. These tools can be used as:

- probe in lead-free soldering operationsn

- positioning aid in assembly operations spatula for applying adhesives, dosing chemicals in labs stirring rod for the preparations of adhesives, solutions
- scraper to remove solder masking agents, rubber latex, adhesive coatings

The Magic Wands are made of ESD safe high performance PEEK (CP) very high rigidity, excellent tensile and flexural strength, fatigue and creep resistance. Excellent wear and abrasion resistance. Extremely high heat capability (max. 300°C), good dimensional stability. Excellent resistance to chemicals and aggressive agents, excellent resistance to thermal ageing. ESD safe material, 10E6 Ohm

443386
--------

			Price Each	
Mftrs List No.	Description	Order Code	1+	5+
MPT1.CP	fine tip and flat strong tip	125-6969	4.03	3.72
MPT2.CP	curved fine tip and flat strong tip	125-6971	4.03	3.72
MPT3.CP	flat large fine tip and flat fine sharp tip	125-6972	4.03	3.72
MPT123.CP	Kit (MPT1, MPT2 & MPT3)	136-0344	8.55	8.14

#### **Helping hand**



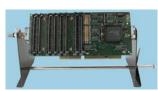
- Allows a PCB or any delicate or small work item to be held in position using the two crocodile clips
- The user can keep both hands free for positioning, soldering and assembling

#### TFF444/222989

ideal-tek Switzerland

Order Code	Price Each 1+
312-5350	6.07

#### **Board holder**



- Versatile PCB-Holder Ideal for populating, desoldering and repairing printed circuit boards
  - New
- The board can be turned through 360°
- Dimensions: 300 x 120x 120 mm
- Max. board length: 250 mm
- The holder is supplied without the printed circuit board

Mftrs.		Price Each			
List No.	Order Code	1+	5+	10+	
PC-40	136-0332	30.53	29.01	27.49	

#### **Stencils**

#### **Interlocking Brass Sets**



In plastic wallet. 2 each A to Z (1 each to Q, X, Z). 1 each &, £, p. 2 each no 0 and 1. 1 each 2, 3, 4, 5, 6, 7, 8, 9.

493625

Size (mm)	Order Code	Price Each 1+
25	012-876	25.71
37.5	012-877	30.91
50	012-878	33.08

#### 30 Piece A-Z

1 each A to Z, spaces, obliques and blanks.

Size (mm)	Order Code	Price Each 1+
25	012-879	11.50
50	012-881	13.64

#### 13 Piece 0-9

1 each 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. 3 spaces and blanks.

Size (mm)	Order Code	Price Each 1+
25	012-882	4.53
012883	012-884	6.27

### **Extraction & Pick-up Tools**

#### **PLCC Extractor Tool**



- **DURATOOL** For removing
- PLCC type devices from their sockets Prevents damage
- to the IC packaging and socket
- Easy to use, simply squeeze the tool handle to extract
- Lenath: 98mm

443416.435486

	Price Each				
Order Code	1+	5+	20+	50+	200+
125-7169	3.08	2.75	2.54	2.42	2.13

#### **PLCC Extractor**



A spring assisted clip carrier extraction tool, specially designed for the safe removal of PLCCs from their sockets without damage to component parts

222981

	Price Each
Order Code	1+
312-5361	19.01

#### **PLCC Extraction Tool - Static Safe**







- Eliminates the risk of component and socket damage when removing PLCC IC
- Simple and safe 'squeeze to remove' operation Durable hardened steel extraction jaws
- E.S.D. safe plastic arms

  - Universal size fits all PLCC packages

	Price Each			
Order Code	1+	5+	10+	
517-082	16.10	15.60	15.15	

## Coming soon



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.

#### **Extraction Tool Set Type 401B5**

For Flat And Round Receptacle Terminals





This Extraction Tool Set including 10 pieces is suitable for extracting round and flat receptacle terminals. All tools of this set have red handles and are packed in a black coated steel plate box. Its dimensions are 225 x 115 x 38mm.

Blade Material: Chrome vanadium steel

Handle Material: Cellulose acetate (impact proof and cadmium free)

Content: 10 pieces

1 Extraction tool Ø 3.3mm

1 Extraction tool Ø 5.0mm

4 Space Sleeves Ø 3,3mm 2 Space Sleeves Ø 5,0mm

1 Extraction tool for plugs 3.3mm 1 Extraction tool for plugs 6.3mm

Weight: 808a

		Price Per Set	
Mftrs. List No.	Order Code	1+	5+
401B5	832-479	82.33	75.92

#### **SMD Vacuum Pick Up Tool**







- This vacuum pick up tool has been designed to secure and place SMD flat components without touching or bending the leads  $\,$
- Manufactured with a full metal body and conductive tips to ensure total ESD protection for static sensitive components
- H.P. spare parts set can be ordered separately. Contents: 2 H.P. ESD probes (1 straight and 1 45° angled), 1 straight needle and 2 ESD-cups (Ø 4 - 6mm)

			Price Each	
Description	Order Code	1+	5+	10+
Vacuum Pick Up Tool	468-1812	39.90	35.60	32.90
H.P. ESD Spare Parts Set	473-3599	16.95	15.25	14.25

#### Vacuum Pen



A lightweight, portable vacuum pump suitable for the picking and placing of small components weighing up to 50g and having a flat surface, DIL packages and surface mount components etc. Held like a pen, the vacuum is operated by a simple press and release action of a button, side mounted within the aluminium body.

Supplied with 3 angled and 3 straight pick-up heads with a choice of 3mm, 6mm or 10mm cup diameters

				TEE230X/222772
		Price Each		
Order Code	1+	5+	10+	
201-170	59.09	53.19	49.75	

#### Vacuum Pick-Up Heads



A variety of different replacement pick-up heads for use with many vacuum pens.

Lightweight probe with syringe style connection, internal diameter nominally 4mm. Blue silicone cup. Style, straight or angled.

222	78

			Price Each
Cup Diameter	Style	Order Code	1+
3mm	Straight	483-989	3.94
3mm	Angled	483-990	4.21
6mm	Straight	484-003	3.94
6mm	Angled	484-015	4.21
10mm	Straight	484-027	3.94
10mm	Angled	484-039	4.21

#### **Medium Duty**



- 5 spring hooks, 2 extensions and a handle in stainless steel
- Ideal for pushing and placing springs

Wallet

H=120, W=55, D=9

L=110 to 380 (dependent on extensions), Dia=4.8

222717

	Price Per Set
Order Code	1+
222-598	17.61

#### Small



- 5 spring hooks supplied in a combined holder/handle
- Fitted with a pocket clip., ideal for service/maintenance engineer

Order Code	Price Each 1+
109-153	12.73

#### **Spring Hooks**



- Precision tools for handling small springs, wires, etc.
- Ideal for the service/maintenance engineer

		122 110,222000,10101
		Price Each
Hook Design	Order Code	1+
C-Lift	312-5312	2.44
C-W	312-5324	2.35

### 4 Piece Hook And Pick Set



Designed to ease the removal of O rings, cotter pins, seals and bushes in various automotive and engineering applications. Blades are stainless steel hardened and tempered with impact resistant handles.

AW1 Clevis pin remover OLO and OVO hooks

	Price Each
Order Code	1+
135-9500	6.64







#### **Extraction & Pick-up Tools - continued**

#### Magnetic



L = 115 closed, 480 open, Dia = 8

This telescopic tool is fitted with a powerful permanent magnet and is designed to retrieve small magnetic objects. Fitted with a pocket clip.

Price Each
1+
5.21

#### **Pick Up Tool With LED**

#### **DURATOOL**



- Powerful magnet bearing weight up to
- Long life LED helpful in narrow and dark ar-
- Lightweight and compact
- Wrist strap attached
- Adjustable length from 225mm to 650mm
- Handle diameter: 19mm

481959
<b>Price Each</b> 1+ 7.49

#### Telescopic Magnetic Pick Up Tool

#### **D** URATOOL



- Pen style with black body and pocket clip
- Extends from 130mm to 625mm
- Powerful magnet for retrieving objects up to 5lb (2.27kg)
- Ideal for home, shop, garage and workplace
- . Weight: 0.04kg

		457689.452313
	Р	rice/Set
Order Code	1+	5+
132-8721	1.02	0.83

#### Magnetic Pick-up Tool



 Magnetic tip on an extendable chrome-plated blade Extended blade length = 480mm (overall 540mm)

Price Each Order Code 4.14 312-5671

## **Express checkout**



With no need to re-enter your details, returning customers can now buy products even faster - order online today at www.farnell.co.uk

#### Nut-Launcher/Pick-up Tool



Three gripping prongs extended by pressing a button

Ideal for launching nuts or retrieving objects

			TEE1/UX/222/14,401/40
		Price Each	
Order Code	1+	+	+
312-7783	5.49		

#### 600mm Claw Pick Up Tool

#### **DURATOOL**

A 600mm long claw tool for retrieving small objects

ROCOL

					482100.4544	95
			Price Each	ı		
Order Code	1+	5+	10+	20+	50+	
144-7564	1 1/	0.03	0.84	0.78	0.67	

#### Safe Step

200

Colour

Grey Safety yellow



A high performance anti-slip coating suitable for heavy vehicular traffic. Suitable for interior and exterior conditions. Ideal for use on fork lift truck ramps and loading bays. Coverage 5m<sup>2</sup> per pack.

494856 Order Code

#### **Tweezers**

112-461 112-463

## **Precision Tweezer Set**





## **DURATOO**

115.80

The 5 most used precision tweezers supplied in a practical plastic wallet

in anti-magnetic stainless steel (SA)

Description Total length 00 SA Tweezers with flat, strong tips 2A SA Tweezers with flat, rounded tips 120mm 120mm 3C SA Tweezers with very sharp tips 5 SA Tweezers with very fine tips 110mm 110mm Tweezers with fine, bent tips 110mm

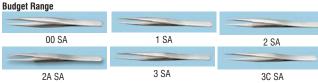
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**DURATOOL** 

		Price Each	
Order Code	1+	5+	10+
130-6402	25.59	23.53	20.45

## **Precision Tweezers**

www.farnell.co.uk







AC SA

MM SA

SS SA

- A budget range of precision tweezers in anti-magnetic stainless steel (SA)
- wide choice of shapes for a large variety of industrial applications
- quality controlled packaged in a practical plastic

Mftrs.			Len	gth
List No.	Model	Description	inches	mm
D00334	00 SA	Flat edges, thick	4 3/4	120
D00335	1 SA	Accurate, strong tips	4 3/4	120
D00337	2 SA	Flat, sharp fine tips	4 3/4	120
D00337	2A SA	Flat, round tip	4 3/4	120
D00338	3 SA	Very sharp tips	4 3/4	120
D00339	3C SA	Very sharp tips, superior finish	4 1/4	110
D00340	4 SA	Fine tips	4 1/4	110
D00341	5 SA	Extra fine tips	4 1/2	115
D00342	5A SA	Extra fine tips	4 1/2	115
D00343	7 SA	Fine curved tips	4 1/2	115
D00344	7A SA	Fine strong curved tips	4 1/2	115
D00345	AA SA	Strong tips for general use	5	130
D00346	AC SA	Strong tips, serrated grips	4 1/4	110
D00347	MM SA	General purpose, strong fine tips	5	130
D00348	SS SA	Super slim, extra fine	5 ½	140

					450985.506125
Mftrs. List No.	Tweezers Model	Order Code	1+	Price Each 5+	10+
D00334	00 SA	130-6385	5.14	4.71	4.09
D00335	1 SA	130-6386	5.14	4.71	4.09
D00336	2 SA	130-6387	5.14	4.71	4.09
D00337	2A SA	130-6389	5.14	4.71	4.09
D00338	3 SA	130-6391	5.14	4.71	4.09
D00339	3C SA	130-6392	5.14	4.71	4.09
D00340	4 SA	130-6393	5.61	5.24	4.56
D00341	5 SA	130-6394	5.61	5.24	4.56
D00342	5A SA	130-6395	5.61	5.24	4.56
D00343	7 SA	130-6396	5.61	5.24	4.56
D00344	7A SA	130-6397	5.61	5.24	4.56
D00345	AA SA	130-6398	4.09	3.83	3.46
D00346	AC SA	130-6399	5.61	5.24	4.56
D00347	MM SA	130-6400	4.09	3.83	3.46
D00348	SS SA	130-6401	5.14	4.71	4.09

#### **High Precision Tweezer Set** 5-Piece





The set is comprised of hand-made precision tweezers which have perfect symmetry and identical weight. Polished edges and matt surface, the tweezers are made of high quality stainless steel (DIN1.4404, AISI316L)This material has the following properties:- antimagnetic

- resistance against most other chemical substances and acids

- resistance to corrosion Supplied complete in a plastic storage case.

Тур	Description	Total length
00 SA	Tweezers with flat, strong tips	120mm
2A SA	Tweezers with flat, rounded tips	120mm
3C SA	Tweezers with very sharp tips	110mm
5 SA	Tweezers with very fine tips	110mm
7 SA	Tweezers with fine, bent tips	110mm

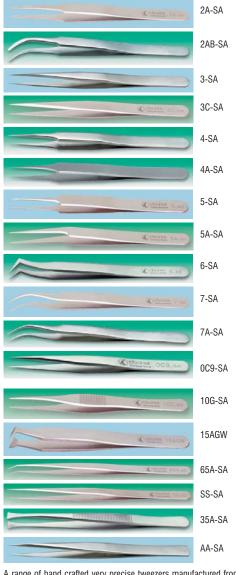
242819. 386280

			Price Each	
	Order Code	1+	5+	10+
High precision tweezers set	397-2951	40.57	39.33	37.22

#### **High Precision Tweezers**







A range of hand crafted very precise tweezers manufactured from anti-magnetic stainless steel (SA) with a wide choice of shapes for a large variety of industrial applications like: small component assembly, microcircuit handling, etc

- accurate symmetry, balanced
- fine polished, mat anti-glare finish
- optimized tension
- piece by piece quality controlled

burr-free edges

		Length	
Mftrs. List No.	Description	inches	mm
00-SA	Flat edges, thick	4 3/4	120
00D-SA	Flat edges, thick, serrated handle	4 3/4	120
1-SA	Accurate, strong tips	4 3/4	120
2-SA	Strong, fine tips	4 3/4	120
2A-SA	Flat, round tip	4 3/4	120
2AB-SA	Flat, round and bent tips	4 3/4	120
3-SA	Very sharp tips	4 3/4	120
3C-SA	Very sharp tips, superior finish	4 1/4	110
4-SA	Fine tips	4 1/4	110
4A-SA	Fine and strong tips	4 1/4	110
5-SA	Extra fine tips	4 1/2	115
5A-SA	Extra fine tips	4 1/2	115
6-SA	Fine angled tips	4 1/2	115
7-SA	Fine curved tips	4 1/2	115
7A-SA	Fine strong curved tips	4 1/2	115
0C9-SA	Flat edge, fine, short	3 1/2	90
10G-SA	Fine tips, serrated handle, general use	4 1/4	110
15AGW	For cutting hairsprings	4 1/2	115
65A-SA	Super slim, bent tip	5 ½	140
SS-SA	Super slim, extra fine	5 ½	140
35A-SA	Flat tip, fine and smooth	4 3/4	120
AA-SA	Strong tips, for general use	5	130
			040005 000000

				240865, 38628
Mftrs. List No.	Order Code	1+	Price Each 5+	10+
00-SA 00D-SA 1-SA 2-SA 2A-SA 2AB-SA 3-SA 3-SA 4-SA 4-SA 5-SA	348-0616 468-1538 468-1540 136-0331 348-0628 468-1551 468-1563 348-0630 468-1575 468-1587 348-0641	8.74 9.62 8.45 8.20 8.74 9.88 8.45 8.61 9.42 9.42	8.45 9.14 8.05 7.80 8.45 9.42 8.05 8.25 8.94 8.94	7.85 8.67 7.58 7.39 7.85 8.94 7.58 7.72 8.45 8.45 9.42







#### Tweezers - continued

#### **High Precision Tweezers - continued**

Mftrs. List No.	Order Code	1+	Price Each 5+	10+
5A-SA 6-SA 7-SA 7A-SA 0C9-SA 10G-SA 15AGW 65A-SA 35A-SA	348-0653 468-1599 348-0665 468-1605 468-1617 348-0677 348-0689 348-0690 348-0707 468-1629	10.49 12.80 11.17 10.90 8.45 10.36 18.68 8.94 8.25 7.58	10.09 12.19 10.76 10.43 8.05 9.88 17.94 8.61 7.85	9.42 11.50 10.09 9.82 7.58 9.28 16.79 8.12 7.38 6.83
AA-SA	468-1630	5.00	4.77	4.54

#### **Tweezers For SMD Components** 5-Piece Set





The set is comprised of hand-made precision tweezers. Different tips and angles for all areas of application. Ergonomically designed. Matt finish, flat surface. The tweezers are made of high quality stainless steel (DIN1.4404, AISI316L) This material has the following properties:

- antimagnetic - resistant against most other chemical sub-
- stances and acids
- resistant to corrosion

Supplied complete in a plastic storage case

Тур	Description	Total Length
SM 103	To grip and hold components in SOT housing. Angle: 45°	115mm
SM 107	07 To grip all flat SMD housing. Angle: 60°	
SM 108	With slot to hold components up to 1mm wide. Extra-light cushioning.	120mm
SM 111	To hold 5mm chip capacitors with flat base. Tips 2mm long with slot.	120mm
SM 115	With slot and 30° angle to grip cylindrical housing.	120mm

242824, 386281

			Price Each	
Description	Order Code	1+	5+	10+
Tweezer set for SMD applications	397-2963	52.75	49.50	45.80

#### **SMD Tweezers**





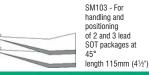
- Specifically intended for a smooth handling and positioning of most SMD components
- Accurate symmetry and balance Fine polished, mat anti-glare finish Manufactured from anti-magnetic stainless steel (SA).





SM2 -For SOT packages length 120 mm (43/4")











SM107 - For





SM108 - For

positioning and soldering 1 mm wide

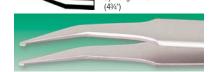




with flat base. Grooved tips











SM116 - Grooved positioning of cylindrical devices ( up to 1mm⊘ or more) Length 120mm (4¾")

			24	40884, 386287
Mftrs. List No.	Order Code	1+	Price Eac 5+	<b>:h</b> 10+
SM2 SM103 SM104 SM107 SM107 SM111 SM115 SM115 SM116 SA SM117	348-0537 348-0549 348-0550 348-0562 348-0574 348-0586 348-0598 468-1642 348-0604	8.53 8.53 8.53 8.53 8.53 8.53 8.53 8.53	8.19 8.19 8.19 8.19 8.19 8.19 8.19 8.12 8.19	7.64 7.64 7.64 7.64 7.64 7.64 7.64 7.58 7.64

New

COOPER

#### 2 Piece Tweezer Set

#### **LINDSTROM**

Fine tip tweezer set, supplied with a PVC pouch.



356984

230728

Order Code **Price Each** 352-4140

#### **Titanium Precision Tweezer Set** 4 Piece





- Extremely high quality Swiss tweezers
- Tips always line up & meet perfectly
- Reduced glare from satin finish
- Polished edges and hand crafted to perfect tip symmetry & balance
- Made from titanium IMI 125
- Extremely high heat resistance 870°C/1600°F
- Lightweight Solder Resistance
- Acid Resistance
- Supplied in a covered wallet
- 1 x TL 3C-TA
- Extra Fine and Sharp Tips 110mm Strong Precision Tips 130mm 1 x TL AA-TA Extra Fine Tips - 115mm Fine Tips - 120mm 1 x TL 5A-TA

1 x TL 3-TA

			Price Each
Description	Mftrs. List No.	Order Code	1+
Titanium Set	9856	352-4139	112.15

#### **5 Piece General Purpose Tweezer Set**

### **LINDSTROM**



High precision general purpose tweezer set supplied with PVC pouch.

	356
Order Code	Price Each
352-4127	41.50

## **SMD Precision Tweezer Set**



- >LINDSTROM
- Extremely high quality Swiss tweezers All SA Tweezers are anti-acid, anti-magnectic, stainless steel
- Tips always line up & meet perfectly
- Reduced glare from satin finish
- Polished edges and hand crafted to perfect tip symmetry & balance
- Supplied in a covered wallet

- 1 x TL 5C-SA
- 1 x TL SM 101-SA
- 1 x TL SM 102-SA
- 1 x TL SM 107-SA
- 1 x TL SM 108-SA 1 x TL SM 115-SA
- Double bent tips 115mm
  - Picker reverse action. For soldering and desoldering, 8, 14 or 16 lead SMD's Picker reverse action. For soldering and desoldering, 20, 28, 44 and 68 LCC and PLCC pad devices
  - Positioning all flat devices at 60° angle
  - Tips are grooved inside. Anti-crush feature for delicate handling. Up to 1mm wide
  - Grooved tips at 30° angle for holding and positioning cylindrical devices up to

230727

#### Price Each 1+ Mftrs. List No. Order Code Description SMD Tweezers 9854 352-4115 121.40

#### **High Precision Swiss Tool Kit** Toolset SMD 3900KC



- 6-piece tool kit in an ESD-safe plastic case (LxWxD 270x170x50mm
- Weight 602a)
- Tip Cutter to remove fine pitch SMD IC,s High grade tool steel, non reflecting surface, ESD safe
- High precision screw joint: smooth jaw ac-
- tion with no play, smooth cutting operation with no jaw overlapping Internal Erem Magic Spring: constant spring force, guarantees more than 1 millian op-
- Maximum opening stop: the limited extent to which the handles can open prevent user hand fatigue
- High-quality precision tweezers, non magnetic, for SMD work.

r ingii qui	anty production twoozoro
Aftrs List No	Description
51SA	Precision tweezers
102ACA	SMD Precision Tweezers
103ACA	SMD Precision Tweezers
150SAMB	SMD Precision Tweezers

Specification With very pointed Tips, angled 30°, relieved Tip width 0,5mm/.019inch, angled 45°

Tip width 1mm/.039inch,angled 45° With round Tips, dia. 1,2mm-2,5mm/.047inch-.098, angled  $$40^\circ$,$  serrated finger grips for gripping cylindrical components. SMD Precision Tweezers  $\,$  With fine round tips

Miniature Tip Cutter, Flush Filne Tip cutter to remove fine pitch SMD Ics. For SMD and mi-cut, high precision, for cro-package contents up to 0.25mm/.010inch 670EP

SMD and micro-package contacts up to 0,25mm

				314	1904
			Price Each		
Mftrs List no	Order Code	1+	3+	5+	
3900KC	161-5474	137.25	133.13	129.14	

#### **Erem tweezers**



			446822
	Mftrs. List No.	Order code	Price each
Syn. Tips, 130mm	249SA	725-6541	14.80
Syn. Fine ESD,	258SA		
120mm		725-6553	15.80
Flat inside edges,	00SA		
120mm		725-6565	11.00
Serr. tips, 115mm	00DSA	725-6577	10.60
Cutting, Oblique	15AGW		
Head, 115mm		725-6589	16.88

#### **Erem Surface Mount High Precision**

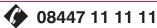


230722

COOPER

Description	Mftrs. List No.	Order Code	Price Each 1+
Angled Head -SMD	102ACA	725-6516	9.60
Bent Tip-SMD	103ACA	725-6528	11.93
Angled Head	102ACAX	725-6530	17.25





### Tweezers - continued

### Xcelite



222708



			LLLIO
Description	Mftrs. List No.	Order Code	Price Each 1+
Sharp Point	ISA	441-132	11.10
Sharp Point	XHT434	441-156	3.00
Cross Lock	XHT412	441-168	3.40
Cross Lock	XHT612	441-170	3.80
Curved	XHT678	441-181	3.90
Straight	XHT700	441-193	3.80
Round Point	XHT600	441-200	4.00

#### **Tweezer Set**



4 piece stainless steel tweezer set. Includes self locking needle point, angle point, straight point and flat point. Supplied in a handy PVC wallet.

	491216
Order Code	Price Each 1+
21/1-82/	8 35



- Range of high quality, stainless steel tweezers, designed to meet the requirements of
- the electronics and precision engineering industries
  Non-magnetic except for order codes 312-7606 and 312-7618
  Fibre handles on order codes 312-7655, 312-7667 and 312-7679

446824

	Order code	Price each
Super fine straight tip, 110mm	312-7576	4.60
Fine curved tip, 110mm	312-7588	4.61
Fine straight tip, 140mm	312-7590	4.61
Universal, 140mm	312-7606	4.70
Reverse action, 160mm	312-7618	5.09
Cutting, 115mm	312-7620	5.09
Extra fine and sharp tip,		
120mm	312-7631	4.75
Long Nose, 200mm	312-7643	6.18
Cross-leg soldering, 160mm	312-7655	2.65
Heavy duty, 160mm	312-7667	2.65
Point, 200mm	312-7679	4.45
Heavy-duty, 160mm	312-7680	2.95
Fine straight tip, 120mm	312-7692	4.61

#### **ESD Black Coating Tweezers**

#### **D** URATOOL



- 2SA.SA ESD 3.SA ESD 3C.SA ESD 5.SA ESD 7A.SA ESD
- Manufactured from Anti-Magnetic Anti-Acid stainless Steel with ESD polyester epoxy coating (10<sup>5</sup>-10<sup>6</sup> Ohm)
- Specifically intended for a smooth handling and positioning of most SMD components
- Accurate symmetry and balance
  - Fine polished, mat anti-glare finish



Mftrs.			Length
List No.	Model	Description	mm
D00830	2A.SA ESD	Flat Round Tweezers	120
D00831	3.SA ESD	Sharp Tweezers	120
D00832	3C.SA ESD	Sharp Tweezers	110
D00833	5.SA ESD	Fine Tips Tweezers	110
D00834	7A.SA ESD	Fine Curved Tweezers	115
D00835	AA.SA ESD	Straight Fine Tweezers	130
D00836	12.SA.SMD	SMD Tweezers for handling and positioning 2 and 3 lead SOT 45° bent	120
D00837	13.SA SMD	SMD Tweezers for handling and positioning 1mm components	120
			516076

Mftrs.		Price Each		
List No.	Order Code	1+	5+	10+
D00830	161-6325	7.95	7.55	7.25
D00831	161-6326	7.95	7.55	7.25
D00832	161-6327	7.95	7.55	7.25
D00833	161-6329	8.55	8.15	7.75
D00834	161-6331	8.55	8.15	7.75
D00835	161-6332	6.95	6.65	6.30
D00836	161-6333	8.95	8.55	8.00
D00837	161-6334	8.95	8.55	8.00

## **Precision Tweezer Sets**

#### ESD-conductive







161-7215 (includes: 3.SA; 7A.SA; 12.SA.SMD; 13.SA.SMD) 161-7216 (includes: 3.SA; 5.SA; 7A.SA; 12.SA.SMD; 13.SA.SMD)

161-7218 (includes: 3.SA; 3C.SA; 5.SA; 7A.SA; 12.SA.SMD; 13.SA.SMD)

- The Set contains the most used precision tweezers Made of Anti-Magnetic Anti-Acid stainless Steel with ESD polyester epoxy coating ( $10^5$   $10^6$  ohm)
- Comfortable handling and insertion of SMD components



Mftrs.List	Type	Description	length
D00831	3.SA ESD	Sharp Tweezers	120
D00832		Sharp Tweezers	110
D00833	5.SA ESD	Fine Tips Tweezers	110
D00834	7A.SA ESD	Fine Curved Tweezers	115
D00836	12.SA.SMD	SMD Tweezers for handling and positioning 2 and 3 lead SOT 45° bent	120
D00837	13.SA SMD	SMD Tweezers for handling and positioning 1mm components	120
			516077

			Price Each	
Mftrs.List No.	Order Code	1+	5+	10+
D00838	161-7215	29.95	28.75	27.55
D00839	161-7216	36.95	35.50	34.00
D00840	161-7218	39.95	38.35	36.75

#### **Fibre Tip Tweezers**



249 CF SA L=130mm Strong tip



269 CF SA L=130mm Strong flat tip

259 CF SA L=130mm Fine tip



00 CF SA L=125mm Strong tip



2A CF SA L=125mm Flat round tip

3C CF SA L=110mm Fine tip, short



5 CF SA L=125mm Very fine tip

5X CF SA L=120mm Very fine tip, reverse ac-

7 CF SA I = 115mm Fine curved tip

Tweezers with different tip shapes and specific high-performance ESD CF carbon fiber reinforced PA66 plastic materials for a large variety of industrial applications. The handle is made of high-quality antimagnetic stainless steel (SA). Typical applications include the handling of scratch and break sensitive components like thin film resistors, SMD parts, microchips, etc. and also cleaning and etching processes.

#### Fibre Tips Technical Data:

- heat stabilized
- very high rigidity, excellent tensile and flexural strength, fatigue and creep resistance
- low friction, self lubricating properties, excellent wear and abrasion resistance good heat capability max 270  $^{\circ}\text{C}$
- good chemical resistance (oils, grease, fuels, non polar solvents); not resistant to strong acids, alkalis and hot water or steam
- ESD safe material, (avoid powder attraction, sparks generation, ignition sources)

				240985, 386288	
Miles Link No.	Ouden Oede	4.	Price Each	10.	
Mftrs List No.	Order Code	1+	5+	10+	
249 CF SA	348-0458	9.04	8.42	7.72	
269 CF SA	348-0460	9.04	8.42	7.72	
259 CF	468-1654	10.17	9.66	9.15	
00 CF SA	348-0471	9.04	8.42	7.72	
2A CF SA	348-0483	9.04	8.42	7.72	
3C CF SA	348-0495	9.04	8.42	7.72	
5 CF SA	348-0501	9.04	8.42	7.72	
5X CF SA	348-0513	11.07	10.36	9.65	
7 CF	468-1666	10.17	9.66	9.15	

### **Plastic Replaceable Tip Tweezers**









249CPR.SA L=130mm Strong rounded tip









5CPR.SA L=130mm Very fine tip



5XCPR.SA L=125mm Very fine tip, self-closing



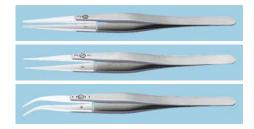


- High precision replaceable plastic tip tweezers Replacement tip set (2 tips + 3 screws) available
- Different tip shapes available for a large variety of industrial applications
- The handle is made of high-quality antimagnetic stainless steel (SA, AISI 316L) Typical applications include the handling of scratch and break sensitive components like thin filmresistors, SMD parts, microchips, etc. Well suited for soldering operations also at lead-freetemperatures.
- The tips are made of ESD safe high performance PEEK (CP)
- ✓ very high rigidity, excellent tensile and flexural strength, fatigue and creep resistance
- ✓ excellent wear and abrasion resistance
- ✓ extremely high heat capability (max. 300°C), good dimensional stability
- ✓ excellent resistance to chemicals and aggressive agents, excellent resistance to thermalageing
- ✓ ESD safe material, 10E6 0hm

Mftrs, List No	Order Code	1+	Price Each	10+
IVIIII 3. LIST IVO	. Oluci oouc	1.1	31	101
242CPR.SA	122-7451	11.09	10.53	9.97
249CPR.SA	122-7453	11.09	10.53	9.97
259CPR.SA	122-7454	11.09	10.53	9.97
2ACPR.SA	122-7456	11.09	10.53	9.97
5CPR.SA	122-7457	11.09	10.53	9.97
5XCPR.SA	122-7458	11.09	10.53	9.97
7CPR.SA	122-7459	11.09	10.53	9.97
			Price Per Pair	
Spare Tips		1+	5+	10+
A242CP	122-7460	3.49	3.29	2.99
A249CP	122-7461	3.49	3.29	2.99
A259CP	122-7462	3.49	3.29	2.99
A2ACP	122-7465	3.49	3.29	2.99
A5CP	122-7466	3.49	3.29	2.99
A7CP	122-7467	3.49	3.29	2.99

### **Ceramic Replaceable Tip Tweezers**





2AMZ. SA Flat rounded tips

71MZ.SA Fine pointed tips

7MZ.SA Fine pointed tips, curved



- Zirconia ceramic precision tips (MZ)
- Surface resistivity 10E12 0hm
- Contamination free, high temperature (1500°C), wear and solder resistant
- Stainless steel (SA) handle
- PATENT PENDING NO.1750/97, alignable replaceable tips system

				496328
Mftrs List No.	Order Code	1+	Price Each 5+	10+
2AMZ.SA 71MZ.SA 7MZ.SA Spare Tips A2AMZ A71MZ	152-3377 152-3378 152-3379 Order Code 152-3380 152-3381	29.17 29.17 29.17 14.59 14.59	27.69 27.69 27.69 <b>Price per Pair</b> 13.87	26.27 26.27 26.27 13.11 13.11
A7MZ	152-3382	14.59	13.87	13.11

Over 480,000 products online









#### Tweezers - continued

#### Wafer tweezers





2WFG.SA

2WFCPR.SA

4WF.SA

4WFG.SA

4WFCPR.SA

SP4T.SA

Mftrs.List No.

707

709

710

- carbon reinforced polyamide - high mechanical properties

- electroconductive (no electrostatic charging)

- good thermal resistance (up to190°C)

- good chemical resistance (oil, grease, solvents)

The tweezers are available in 2 different technical plastics: CF (PA66/CF30)

#### SV (PVDF/CF30)

- carbon reinforced polyvinylidenefluoride - good mechanical resistance and toughness

- electroconductive (no electrostatic charging)

- good thermal resistance (up to 190°C)

- high level of purity (accepted clean room) - excellent resistance against most chemicals paricularily to acids such as fluoride, nitric

Description Tweezers with flat, rounded tip

Tweezer with fine tip

Tweezers with fine, 45° curved tip Tweezers with smooth flat, small tip Tweezers with smooth flat, wide tip

acid and hydrochloric acid.
- High abrasive resistance

- resistant against UV and radioactive radiation (sterilization)

242832, 386282/408098

Total length

116mm

114mm

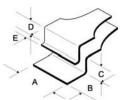
116mm

Order code	Description	Price each
397-2987	CF tweezer set	8.07
397-2999	SV tweezer set	15.53



SP4T.SA: Upper grip area made from Teflon

- made from special stainless steel, nonreflective surface, nonmagnetic
- Developed for extremely sensitive and fragile wafers, glass wafers etc.



					Dimens	sions				
Mftrs' List No.	A mm	Α"	B mm	В "	C mm	С "	D mm	D "	E mm	Е"
2WF.SA	6.5	0.25	9.0	0.35	2.5	0.10	4.0	0.15	2.5	0.10
2WFG.SA	6.5	0.25	9.0	0.35	2.5	0.10	4.0	0.15	2.5	0.10
2WFCPR.SA	6.6	0.25	10.5	0.41	2.0	0.08	3.5	0.14	4.5	0.18
4WF.SA	12.0	0.47	9.0	0.33	2.5	0.1	4.0	0.15	2.5	0.10
4WFG.SA	12.0	0.47	9.0	0.33	2.5	0.1	4.0	0.15	2.5	0.10
4WFCPR.SA	12.0	0.47	10.5	0.41	2.0	0.08	3.5	0.14	4.5	0.18
SP4T.SA	12.0	0.47	8.5	0.33	-	-	6.5	0.25	-	-

					473290
			Price Each		
Mftrs' List No.	Order Code	1+	5+	10+	
2WF.SA	136-0333	9.14	8.68	8.21	
2WFG.SA	136-0335	9.14	8.68	8.21	
2WFCPR.SA	136-0336	11.57	11.00	10.44	
4WF.SA	136-0337	9.14	8.68	8.21	
4WFG.SA	136-0338	7.31	6.94	6.57	
4WFCPR.SA	136-0339	11.57	11.00	10.44	
SP4T.SA	136-0340	16.27	15.44	14.67	

## **Insulated Tweezer Set**







2 Piece economic type tweezer with insulated coating handle

Non-magnetic



Material: AISI304

Lenght:145mm

-					525	5409
				Price Each		
Description	Mftrs. List No.	Order Code	1+	5+	10+	
Insulated Tweezer Set	908-T301	166-6210	5.02	4.77	4.25	

#### **Anti-static Tweezer Set**





The set comprises 5 precision tweezers made of reinforced plastic. These tweezers are particularly suited for secure handling of sensitive parts and use with aggressive chemicals (cleaning and caustic baths, production of semiconductors etc.)

#### **Plastic Tweezers**



- 132-0040
- Strong flexible and durable glass-filled Delrin™ body and tips
   Resistant to commercial solvents such as Nitric Acid, Aqua-Regia, Acetic acid, Acetone

132-0050

Tips will not open/spread when extra pressure is applied

Length: 115mm

					493782
			Price	e Each	
Mftrs. List No.	Order Code	1+	5+	10+	20+
132-0023	151-8408	2.94	2.74	2.67	2.56
132-0024	151-8411	3.21	3.10	2.95	2.74
132-0025	151-8412	9.22	8.99	8.54	8.35
132-0029	151-8413	4.58	4.44	4.34	4.18
132-0033	151-8414	3.21	3.08	2.87	2.75
132-0034	151-8415	3.76	3.69	3.60	3.57
132-0035	151-8416	4.43	4.34	4.25	4.21
132-0036	151-8417	4.43	4.34	4.25	4.21
132-0040	151-8418	3.21	3.15	3.08	3.04
132-0048	151-8419	2.84	2.78	2.72	2.69
132-0050	151-8420	6.07	5.94	5.83	5.77

### **Forceps**

#### Seizers



Used for gripping and holding wires and retrieving small parts. May also be used as a heat sink.

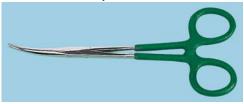
495209





#### Order Code Туре Size (mm) 386-1284 6.02 Straight 150 Bent 150 386-1296

#### **Stainless Steel Forceps**



Serrated jaw, three position snap lock, box joint, stainless steel forceps

				TEE433/222978,40180	Jt
			Price Each		
	Order Code	1+	+	+	
Straight, (6") 150mm	312-5294	7.44			
Curved, (6") 150mm	312-5300	7.50			

### **Trimming Tools**

#### **Trimming Tool Set**



- 10 piece Trimming Tool Set
- Fits all popular Trimmer sizes

	223035
Order Code 312-5063	Price Each 1+ 3.26

#### **Anti-static Trimmers** 3 Piece Set





Duplex, trimmer and square/hex tools

 Conductive nylon - non-insulating TEE441/222987,401815

		Price Each		
Order Code	1+	+	+	
312-5051	4.91			

#### **Ceramic Blade Screwdriver Set**



Non-conductive



High heat resistance High resistance to wear

Corrosion resistant

slotted 0.9mm, 2.6mm phillips No. 0 Blade 15mm length



#### A set of 3 high quality ceramic blade screwdrivers with anti-static handles and rotating palm rests. Ideal for use in electronics production, supplied in a plastic box.

		222/08
	Price Each	
Order Code	1+	
609-780	40.54	

### **Screwdrivers - Precision**

#### 6 Piece Jewellers Screwdriver Set

## **DURATOOL**



A 6 piece precision screwdriver set containing a selection of screwdrivers, all manufactured with selected steel handles and chemically hardened, high carbon steel blades. The set is supplied in a rigid, hinged case. The set contains: Phillips: PH0, PH1

Slotted: 1.4, 2, 2.4 and 3mm

462026.461194

	Price/Set			
Order Code	1+	5+	10+	20+
134-1142	0.99	0.90	0.84	0.68

#### 11 Piece Precision Screwdriver Set

#### **D** URATOOL



An 11 piece precision screwdriver set manufactured with steel blades which have precision ground tips and metallic handles with a rotating tip. The kit is supplied in a moulded, impact resistant case with a durable hinge and a snap shut fastener. The kit contains

- 6 x Slotted Screwdrivers, 1, 1.2, 1.4, 1.8, 2.4, and 3mm
- 3 x Phillips Screwdrivers, PH00, PH0 and PH1
- 1 x Pointing Awl
- 1 x Magnetic Pick-up Tool

462028.461199

	Price/Set					
Order Code	1+	5+	10+	20+		
134-1143	1.92	1.58	1.49	1.30		

#### 6 Piece Torx Jewellers Screwdriver Set

#### **DURATOOL**



A 6 piece precision screwdriver set containing a selection of screwdrivers, all manufactured with selected steel handles and chemically hardened, high carbon steel blades. The set is supplied in a rigid, hinged

The set contains: Torx: T5,T6,T7,T8,T9 and T10

461233.461189

	Price/Set			
Order Code	1+	5+	10+	20+
134-1141	1.59	1.39	1.21	1.09

#### 5 Piece Long Jewelers Screwdriver Set

### **DURATOOL**



- Superslim jewellers screwdriver set
- Rotating caps allow ease of use and greater control
- 150mm blade length

Contents:

Slotted screwdriver (2mm tip) Slotted screwdriver (3mm tip)

Phillips screwdriver (PH00 tip) Slotted screwdriver (4mm tip) Phillips screwdriver (PH0 tip)

457692.454529

	Price/Set		
Order Code	1+	5+	
132-8722	2.10	1.59	

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#### **Screwdrivers - Precision - continued**

#### **Jewellers Screwdrivers**



#### Service Set

Screwdriver body with revolving black plastic hexagon cupped head. Hardened steel blade provides a positive grip in the screw. Set of six complete screwdrivers in a fitted case: 1 each - 0.6mm, 1.0mm, 1.4mm, 1.8mm, 2.1mm, 2.5mm blade width.

		Price Per Set			
Model	Order code	1+	5+	10+	20+
777/1	137-3789	33.93	33.25	32.58	31.93

#### Pocket Set

Comprising a screwdriver body and chuck with six interchangeable blades - widths 0.6 mm to 2.5 mm. Each blade is contained in a separate compartment.

					400001
			Price Eac	h	
Model	Order code	1+	5+	10+	20+
777/2	137-3790	12.96	12.70	12.44	12.19

#### **Precision Screwdrivers**



482150.464822



- Soft grip handles with swivel tops for added control
- Blade length: 75mm; Overall length: 165mm

		Price Each					
Type/Size	Order Code	1+	5+	10+	20+		
Slotted							
1.5 x 75mm	144-7590	1.24	1.11	1.01	0.86		
2.0 x 75mm	144-7591	1.24	1.11	1.01	0.86		
3.0 x 75mm	144-7593	1.24	1.11	1.01	0.86		
4.0 x 75mm	144-7594	1.24	1.11	1.01	0.86		
Phillips							
PH00	144-7595	1.24	1.11	1.01	0.86		
PH0	144-7596	1.24	1.11	1.01	0.86		
PH1	144-7597	1.24	1.11	1.01	0.86		

## 6 Piece Precision Screwdriver Set Slotted & Phillips

#### DURATOOL



- Soft grip handles with swivel tops for added control
- Blade length:
   75mm; Overall length: 165mm
- Tip sizes, Slotted: 2, 3, 4mm; Phillips: PH00, PH0, PH1

				482161.464818	
	Price Set				
Order Code	1+	5+	10+	20+	
144-7588	9.09	8.28	7.22	5.87	

#### 6 Piece Precision Insulated Screwdriver Set

#### **DURATOOL**



- Soft grip handles with swivel tops for added control
- Blade length: 75mm; Overall length: 165mm
- Tip sizes, Slotted: 2, 3, 4mm; Phillips: PH00, PH0, PH1

# #82153.464834 Price/Set Order Code 1+ 5+ 10+ 20+ 144-7604 9.90 9.01 7.85 6.38

#### **Torx Precision Screwdrivers**

### **D** URATOOL



- Soft grip handles with swivel tops for added control
- Blade length: 75mm; Overall length: 165mm

					482151.46483	2
			Price	Each Each		
Size	Order Code	1+	5+	10+	20+	
T5	144-7598	1.29	1.12	1.02	0.88	
T6	144-7599	1.29	1.12	1.02	0.88	
T7	144-7600	1.29	1.12	1.02	0.88	
T8	144-7601	1.29	1.12	1.02	0.88	
Т9	144-7602	1.29	1.12	1.02	0.88	
T10	144-7603	1.29	1.12	1.02	0.88	

#### 6 Piece Precision Torx Set

### **DURATOOL**



- Soft grip handles with swivel tops for added control
- Blade length: 75mm; Overall length: 165mm
- Tip sizes: T5, T6, T7, T8, T9, T10

482149.464820

	Price Set				
Order Code	1+	5+	10+	20+	
144-7589	9.61	8.76	7.64	6.20	

### 6 Piece Precision Insulated Torx Screwdriver Set DURATOOL



- Soft grip handles with swivel tops for added control
- Blade length: 75mm; Overall length: 165mm
- Tip sizes: T5, T6, T7, T8, T9, T10

				482154.464836
	Price/Set			
Order Code	1+	5+	10+	20+
144-7605	10.18	9.29	8.11	6.58

#### 15 Piece Precision Screwdriver Set





- Cushion handle provides super soft comfortable grip allowing use over prolonged periods
   Supplied in a convenient plastic carry case
- Set contents:

Set contents: Slotted - 2 x 65mm, 2.5 x 65mm, 3 x 65mm, 4 x 65mm

Phillips - PH000 x 65mm, PH00 x 65mm, PH0 x 65mm, PH1 x 65mm

Torx - T6 x 50mm, T7 x 50mm, T8 x 50mm, T9 x 50mm, T10 x 50mm, T15 x 50mm, T20 x 50mm

482105.462293



#### Order Code 10+ 20+ 50+ 144-7570 7.26 6.45 5.75 4.95 5.31

#### **Electronic Screwdriver Set** 7 pcs





New Kit Content: Screwdriver

-Slotted: 2.4x75mm, 3.0x100mm, 4.0x150mm -Phillips: 1x150mm, 0x100mm, 0-2x75mm Alignment tool

25407	

222995

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Electronic Screwdriver Set	8PK5141N	166-6209	10.20	9.69	9.17

#### **Precision Screwdriver Set**

#### **Duplex Colour Handles**



- Duplex colour precision screwdriver set
- Nylon handles with soft-grip panels and plastic revolving top
- Blades manufactured from chrome-molybdenum vanadium steel with a satin finish
- Set supplied in a plastic case

Contents: Slot 1.6, 2.0, 2.4, 3.0, Phillips No.00, 0, 1 all 50mm long

	Price Per Set
Order Code	1+
7 piece set <b>312-5531</b>	12.37

#### 14 in 1 Reversible Screwdriver Set

#### **Duplex Colour Handle**



- Duplex colour reversible precision screwdriver set
- Nylon handle with soft-grip panels, plastic revolving top and collar chuck
- Blades manufactured from chrome-molybdenum vanadium steel with a satin
- Blade sizes: PH.1 PH.0, PH.0 Slot 3.0, Slot 1.5 3.0, Slot 2.0 PH.00, Slot 4.0 PH.1, Hex 2 Ball Hex 2, Hex 2.5 Ball Hex
- Supplied in a plastic case

		LLLSST
		Price Per Set
	Order Code	1+
14 in 1 set	312-5543	12.68

#### **Precision Screwdriver Sets**



- Screwdriver sets with CV-Molybdan steel blades, hardened and tempered, and nylon handles with revolving tops
- Sets supplied in plastic cases

Set contents:

6 piece Slot/Phillips PH.00, 0, Slot 1.5, 2, 2.5, 3 all 50mm long PH.00, 0, Slot 2, 2.5, 3, Torx TX15, T20 all 50mm long TX6. TX7, TX8. TX9. TX10. TX15. TX20 all 50mm long 7 piece Slot/Phillips/Torx

/ picce ruix	170, 171, 170, 170, 1710, 1710, 1720	all John long	
			222973
		Price Each	
	Order Code	1+	
6 piece Slot/Phillips	312-6936	9.15	
7 piece Slot/Phillips/Torx	312-6948	1.99	
7 piece Torx	312-6950	7 64	

#### 14 in 1 Precision Screwdriver Set



- 7 double-ended blades manufactured from CV or SNCM steel, hardened and tempered with black tips
- Nylon handle fitted with plastic revolving top and collar chuck
- Blade sizes: TX6xTX10, TX7xTX15, TX8xTX20, TX9xTX15, PH.00xSlot 2.0, PH.0xSlot 3.0, PH.1xSlot 4.0
- Supplied in a plastic case

222974

	Price Each
Order Code	1+
312-6961	10.58

#### **Electronic Screwdriver Set**



1.4 x 20mm, 1.8 x 20mm, 2.4 x 20mm

Phillips No.00 20mm, No.0 20mm, No.1 20mm

222984

	Price Per Set
Order Code	1+
312-5555	5.02

#### **Precision Screwdrivers**





- Ergonomic handle design with soft zone for comfortable work
- Easy-movement rotating cap for rapid hand action
- Colour-coded marking of the drive symbol for easy identification
- Through-hardened, chromeplated blade made of chromevanadium-molybdenum steel
- Wiha ChromTop® tip guarantees a secure hold in the screw head
- Ideal for all fine, filigree applications in electronics and precision-mechanics applications, as well as for DIY and model-building

				33808
	Тур	Size	Order Code	Price Each 1+
Slotted - 260 P	Series			
	475	0.8 x 40	282-212	5.48
	478	1.5 x 40	282-224	4.10
	482	2 x 40	282-236	2.36
	486	2.5 x 50	282-248	3.27
	490	3 x 50	282-250	3.08
	493	3 x 150	282-261	2.66
Phillips - 261 P	Series			
	513	Phillips No 000 x 40	282-297	6.40
	512	Phillips No 00 x 40	282-303	4.46
	511	Phillips No 0 x 50	282-315	3.62
	516	Phillips No 1 x 60	282-327	2.87
	518	Phillips No 1 x 150	282-339	3.49
Pozidriv - 274 S	Series			
	4461	Pozidriv No.0 x 50	282-273	2.66
	4462	Pozidrive No1 x 60	282-285	4.64
Ball Hex - 264	P Series			
	531	1.3 x 40	310-6159	3.64
	532	1.5 x 50	310-6160	3.30
_	533	2.0 x 50	310-6172	2.91
	534	2.5 x 60	310-6184	2.71
	535	3.0 x 60	310-6196	2.60
Ball Hex Socke	t - 265 P S	eries		
	544	1.5 x 60	310-6202	4.53
	546	2.0 x 60	310-6214	4.19
	548	60 x 60	310-6238	3.38
	551	4.0 x 60	310-6251	4.19
	552	4.5 x 60	310-6263	4.11
	553	5.0 x 60	310-6275	4.11







#### **Screwdrivers - Precision - continued**

#### Precision Screwdrivers - continued

	Тур	Size	Order Code	Price Each 1+
TORX - 267 P	566	T5 x 40	630-354	5.85
	567	T6 x 40	630-366	3.45
	568	T7 x 40	630-378	3.45
	569	T8 x 40	630-380	3.45
	570	T9 x 40	630-391	3.50

#### **Precision Screwdriver Set** 6 Pieces. With Practical Rack





Dimensions in mm

- "Electronic" range of screwdrivers are designed for delicate assembly of small components
- Handle has free rotating cap
- Blades made from chrome vanadium molybdenum steel satin chrome plated
- Slim handle made from high quality cadmium free engineering plastic
- The screwdriver set is supplied with a 6 space stand/

F	7	₹.
_		•

Content:		6 pieces 4 Slot and 2 Phillips screwdrivers	
T	ip Size	Blade Length	Phillips Size
	1,5 2,0 2,5 3,0	40 50 50 50 40 50	00 0
Weight:	160g		

		Price Each
Mftrs. Part No.	Order Code	1+
260K6	282-340	25.78

#### **Precision Screwdriver Set Ball Hex** With 6 Space Stand/Holder



241182



- "Electronic" range of screwdrivers are designed for delicate assembly of small components
- Handle has free rotating cap
- Blades made from chrome vanadium molybdenum steel satin chrome plated
- Wiha ChromTop finish on tip for a perfect fit every time

Tip Size Ba 0,9	dl	Blade Length 40
Tip Size 1,3 1,5 2,0 2,5 3,0	Blade Len 40 50 50 60	gth
Weight:	195g	

Dimensions	in	mm	

		Pric	e Each
Mftrs. List No.	Order Code	1+	5+
264PK6	831-608	25.80	23.79

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#### Precision Screwdriver Set Type 265PK6 With 6 Space Stand/Holder





- "Electronic" range of screwdrivers are designed for delicate assembly of small components
- Handle has free rotating cap
- Blades made from chrome vanadium molybdenum steel satin chrome plated
- Wiha ChromTop finish on tip for a perfect fit

Tip Size	Blade Length	Tip Size	Blade Length
2,5	60	4,0	60
3,0	60	5,0	60
3.0	60	5.5	60
Weight:		3,3 240g	00

Dimensions in mm

241187

	Price Each			
Mftrs. Part No.	Order Code	1+	5+	
265PK6	831-610	33.83	30.95	

#### TORX® MagicSpring screwdriver set







- MagicSpring holding spring made of stainless steel holds any TORX® screw reliably.
- No more tedious searching for dropped screws
- Ideal when access is difficult
- Also suitable for TORX® screws composed of aluminium, stainless steel, plastic and ti-
- Blades composed of high-quality, chrome-vanadium-molybdenum steel, continuously hardened and matt-chromium-plated
- Wiha PicoFinish handle for lightning-fast screwdriving
- With practical plastic holder for hanging up or placing down

#### Content:

6 pieces as follows T6x40, T7x40, T8x40, T9x50, T10x50, T15x60

Dimensions in mm

			413	19
Mftrs.		Price Per Set		
List No.	Order Code	1+	5+	
OCZDD VC	070 7600	20.10	26.75	

#### Precision Screwdriver Set, TORX® 6 Pieces, With Practical Rack





- Ideal for high-precision work with electro-technical and precision components, e.g. mobile phones
- High Quality chrome vanadium molybdenum steel, through hardened, chrome-plated
- Wiha ChromTop finish on a tip for a perfect fit every time
- Handle for a rapid rotation
- 6 space stand/holder

Content: T4, T5, T6, T7, T8, T9 6 space stand / holder

0	 i.

		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
267 PK 6 M	358-4562	20.79	20.06	19.36	

#### **Screwdrivers with Magic Spring** TORX® Magic Spring Screwdriver Set - 6 Pieces





Magic Spring retaining spring holds TORX® screws securely in place. With rotating cap and rapid turning zone.

#### Blade:

High quality chrome-vanadium-molybdenum steel, through hardened chrome plate.

Wiha Chrome Top finish on tip for a perfect fit every time.

#### Handle:

Wiha Pico Finish handle for rapid rotation.

Application:

For setting and tightening TORX® screws in hard to reach areas. Extra:

With practical plastic rack with hanging holes.

485384	1

Mftrs.		Order	P	rice Per Se	t
List. No.	TORX Size	Code	1+	5+	10+
	T6, T7, T8,				
27747	T9, T10, T15	978-7690	28.19	26.75	25.35
	List. No.	List. No. TORX Size T6, T7, T8,	List. No. TORX Size <b>Code</b> T6, T7, T8,	List. No. TORX Size <b>Code</b> 1+ T6, T7, T8,	List. No. TORX Size <b>Code</b> 1+ 5+ T6, T7, T8,

#### Precision Screwdriver Set Torx, 6 pieces Type 267 PK 6 with Wiha PicoFinish Tip and Holder





- Wiha PicoFinish Handle for rapid rotation Blade made of chrome vanadium molybdenum steel, through hardened, chrome-plated, Tip: Wiha ChromTop
- Ideal for high-precision work with small com-

Content: 40xT7; 40XT8; 50XT9; 50XT10; 60XT15; 60XT20

4	_	

				241162
			Price Per Set	
Mftrs. Part No.	Order Code	1+	4+	20+
267PK6	310-6743	22.82	19.04	17.49

#### **Electronics Screwdriver Micro** Series 2035/6A





- Electronic screwdriver with improved ergonom-
- For slotted and Phillips screws
- 6 pieces in a display carton + Rack

#### Content:

Slotted: PH·

0.30x1.8x60; 0.40x2.0x60; 0.40x2.5x80; 0.50x3.0x80 PH00: PH0



				241152
		Pric	e Each	
Туре	Order Code	1+	5+	
2025/64	076 707	15.00	14.05	

## Technical information at your fingertips



Over 352,000 technical datasheets available online.

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#### TORX® BO Screwdriver Set with Rack Typ 2067/6





6 pieces in a display carton + Rack

TORX® socket screws with safety pin (BO = with bore hole)

Blade:

Round Mat nickel, Black Point

Kraftform Micro with anti-roll protection and rotating cap, multi-component Handle: Content: TX7; TX8, TX9; TX10; TX15; TX20



241173

			Price Each	
Type	Order Code	1+	5+	10+
2067/6	311-0539	20.01	18.97	18.48

#### **Xonic Precision Screwdrivers**





Handles are manufactured in shatterproof cellulose acetate. The blades of chrome vanadium or chrome molybdenum steel as appropriate for use, are matt chrome plated with gun finished tips. Blades fully hardened along whole length to 52-60 HCR.

- Colour coded cap, indented to fit index finger, and revolves independently of the screwdriver
- Set of 4 Slot/Phillips: Slot 1.5 x 60, 2.5 x 75, 3.0 x 100mm, PH 0 60
- Set of 5 Tamperproof Torx Precision Screwdrivers, TX07 TX08, TX09, TX10, TX15  $\,$
- Set of 7 Slot/Phillips: Slot 2.5 x 75, 3.0 x 100, 4.0 x 100, 4.0 x 150mm, PH 0 60, PH 1 80

	Set of 5	Mftrs. List No.	Order Code	Price Per Set 1+
	Tamperproof Torx		724-6614	40.80
•	Blade length x tip (mm) Slotted tip			1+
	60 x 1.5	T4880X 15	139-1004	4.05
	60 x 2.5	T4880X 256	327-9224	3.45
	75 x 2.5	T4880X 257	327-9236	3.70
	100 x 3	T4880X 310	327-9248	3.45
	150 x 4	T4880X 415	327-9250	4.10

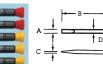
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	Mftrs. List No.	Order Code	Price Each 1+	
<b>Phillips</b> 60 x 000 60 x 00 60 x 0	T4882X 000 T4882X 00 T4882X 0	327-9261 327-9273 327-9285	5.65 4.90 3.10	
Torx 60 x T08 Sets Set 4 Slot/PH	T4877X 08	327-9303 307-8851	4.15	
֡	60 x 000 60 x 00 60 x 0 <b>Torx</b> 60 x T08 <b>Sets</b>	List No.  Phillips  50 x 000 T4882X 000  50 x 00 T4882X 0  50 x 0 T4882X 0  Torx  50 x T08 T4877X 08  Sets  Set 4 Slot/PH T4884X	List No. Code  Phillips 80 x 000 T4882X 000 327-9261 80 x 00 T4882X 00 327-9273 80 x 0 T4882X 0 327-9285  Torx 80 x T08 T4877X 08 327-9303  Sets Set Set 300t/PH T4884X 307-8851	List No. Code 1+  Phillips  50 x 000 T4882X 000 327-9261 5.65 50 x 00 T4882X 00 327-9273 4.90 50 x 0 T4882X 0 327-9285 3.10  Torx  50 x T08 T4877X 08 327-9303 4.15  Sets  Set Set Solv/PH T4884X 307-8851 13.45

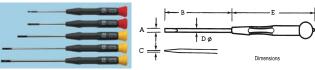
#### **Pocket**



#### **DUO Superslim** Set of 5







- Shatterproof polypropylene handles, chrome vanadium blades, gun finished tips
- Speed Grip adjustable finger grip for improved comfort and handling
- Swivel top for greater ease of use







#### **Screwdrivers - Precision - continued**

#### **DUO Superslim - continued**

Set of 5 - continued

			Dimensions		
Blade Type	Α	В	С	D	Ε
Slot	2.5	75	0.4	2.5	85
Slot	3.0	100	0.5	3.0	85
Slot	4.0	100	0.6	4.0	85
Phillips	No.0	60	_	3.0	85
Phillips	No.00	60	_	2.5	85

Mftrs.		Price Each
List No.	Order Code	1+
T4880X/5 S	722-5817	17.95

#### 7 Piece



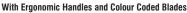


- Comfortable two component screwdriver handle, shaped to provide ideal grip for both high torque and fine tuning action
- Oval rotating indented end allows fingertip control
- Double-ended, fully hardened, chrome plated blades with black anti-peel tips Blades hold securely in brass ferrule
- Supplied in a storage case
- Blades contain following tip sizes:
- Slotted: 1.5, 2, 3, 4mm
- Phillips: PH000, PH00, PH0, PH1
- Torx: T05, T06, T07, T08

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Mftrs	Order code	Price
list no.		each
T4896	109-8819	8.89

#### SYSTEM 4

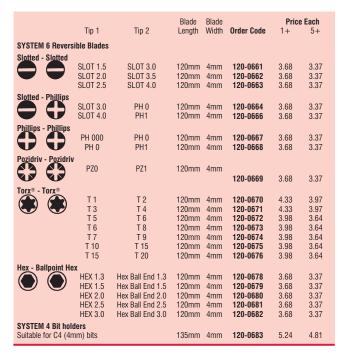






- Ideal for precision work
- Flexible and versatile industry quality reversible blade system
- Ergonomic handles for all applications
- Colour-coded blades made of high-quality, tough-but-flexible chrome-vanadium-molybdenum steel, through-hardened, chrome-plated
- The new SoftFinish® telescopic handle with click-stop ball clamping for a secure hold and rapid blade change

	Mftrs. List No.	Hex Retainer	Length	Width max.	Order Code	Price Each
SYSTEM 4 Handles SoftFinish-telescopic handles Precision handles Precision-telescopic ESD handles	2691 269 280UTG	4mm	110mm	14mm	120-0658 120-0659 120-0660	5.39 2.54 3.33



#### System 4 Kits in Clip / Roll-Up Pouches









120-0686

120-0684

- Through hardened and chrome plated blades made from high-quality, tough-but-flexible chrome-vanadium-molybdenum steel
- Colour coded Wiha ChromTop® blade tips
- In extra strong clip or roll-up black artificial leather pouches

- 111 0710	a oa ong	0p 0	up Diaon arane	nai loadiloi pou	0.100
		Kit Contents:			
Reversib	le Blades	120-0684	120-0685	120-0686 155-2693	
Tip 1	Tip 2	In Clip / F	Roll-up Pouch		In Roll-up Pouch
	•	2.0 - PH00 3.0 - PH0 4.0 - PH1			
			1.5 - 3.0 2.0 - 3.5 2.5 - 4.0	1.5 - 3.0 2.0 - 3.5 2.5 - 4.0	1.5 - 3.0 2.0 - 3.5 2.5 - 4.0
0	0		PH000 - PH00 PH0 - PH1	PH000 - PH00 PH0 - PH1	PH000 - PH00 PH0 - PH1
0	0				T6 - T8 T7 - T9
				1,3 - 1,3 1,5 - 1,5 2,0 - 2,0 2,5 - 2,5 3,0 - 3,0	1,5 - 1,5 2,0 - 2,0 2,5 - 2,5
System 4	4 Handle:	Soft	Finish®-telescopi	ic handle	Precision-telescopic ESD handle

434985

		Price Each		
Mftrs. List No.	Order Code	1+	5+	10+
269 T4	120-0684	17.57	16.11	14.87
269 T6	120-0685	26.23	24.05	22.20
269 T11	120-0686	45.15	41.38	38.20
2691 T11 ESD	155-2693	47.65	45.25	42.85



#### System 4 Set 16 pieces







Content:	
<b>(</b>	4,0x104
0	4,0x110
0	1,5x0,25; 2,0x0,4; 3,0x0,5; 4,0x0,8
•	PH00x28; PH0x28; PH1x28
0	T6x28; T8x28; T10x28; T15x28
	2,0x28; 2,5x28; 3,0x28

- The universal set for all precision assembly work
- With Bit holder and Slotted/ Phillips/ TORX®/ Hex C4-Bits
- DIN 3126, ISO 1173, Style C4

413175

		Price Each		
Mftrs. Part No.	Order Code	1+	5+	10+
7000 EB16	978-7712	32.61	30.98	29.34

### **Screwdrivers - ESD**

#### **Precision ESD Screwdrivers**









**Price Each** 

- Dissipative handle designed to discharge uniformly, surface resistance 106-109 Ohms
- Safety as a result of electrostatic discharge

7635 7636 7637

7638 7639

7640

7641 7642

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7650 7651

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7659 7660

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7662 7663

7665

- Rotating cap with large surface for extra fast working
- Large handle end for powerful tightening and loosening screws
- Wiha ChromTop®-finish on tip for a perfect fit every time

ESD	6-Part	Screwdriver	Sets.
-----	--------	-------------	-------







- Blade: High-strength chrome vanadium molybdenum steel, super-hardened, smooth chrome-plated
- Grip: Wiha micro-finish grip with rotary cap made from electrostatically-discharging
- Standards: DIN EN 61340-5-1/ 61340-5-2
- Applications: for all types of work on components susceptible to electrical discharge

Mftrs. List No.		Contents
272K6		Slot: 1.5 - 2.0 - 2.5 - 3.0 Philips: PH00 - PH0
278K6		TORX: T5 - T6 - T7 - T8 - T10 - T15
275 K6		Hex: 0.9; 1.3; 1.5; 2.0; 2.5; 3.0mm
277 K6	<b>(B)</b>	Nutdriver: 2.5; 3.0; 3.5; 4.0; 5.0; 5.5mm

330688

			Price Eac	h
Mftrs. List No.	Order Code	1+	3+	5+
272K6	443-1443	24.76	23.98	22.74
278K6	443-1455	34.36	32.98	31.26
275 K6	155-2691	16.85	15.95	15.15
277 K6	155-2692	29.20	27.75	26.30

#### **ESD Screwdriver Sets**









Mftrs. Part No. Order Code 10+ 272 Series 3.42 2.91 2.71 1.5 x 0.25 2 x 0,40 2.5 x 0,40 3 x 0,50 3.5 x 0,60 443-1169 443-1170 443-1182 3.20 2.97 2.23 3.07 2.85 2.14 2.03 443-1194 3.19 3.07 2.92 4 x 0,80 443-1200 3.39 3.26 3.09 -273 Series Phillips No 00 443-1212 4.09 3.92 3.72 Phillips No 0 Phillips No 1 443-1224 443-1236 3.19 3.73 3.07 3.58 2.92 274 Series Pozidriv No1 443-1248 4.09 3.92 3.72 Ball Hex - 276 Series 443-1250 4.45 4.27 4.05 1.5 2.0 443-1261 443-1273 4.57 4.09 4.39 3.0 443-1285 3.15 3.03 2.88 Socket - 277 Series 2.5 443-1297 5.90 5.65 5.35 3.0 443-1303 5.90 5.65 5.35 3.5 4.0 443-1315 6.19 5.94 5.62 443-1327 443-1339 5.94 6.09 6.19 5.62 5.0 6.34 5.78 443-1340 6.07 TORX - 278 Series T5 5.37 4.08 443-1352

## Coming soon

T6 T7

T8 T9

T10 T15



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.

443-1364 443-1376

443-1388 443-1390

443-1406 443-1418

443-1420

2.98

4.48 4.50

2.86

4.31 4.32

4.52

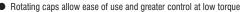
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4.29

2.96





Manufactured in high alloy chrome vanadium steel for strength and durability

Black tips for ultimate screw fit, non-peel

Set of 4: 1.5 x 60, 2.5 x 75, 3 x 100mm, PH 0 x 60

Set of 7: 2.5 x 75, 3 x 100, 4 x 100, 4 x 150mm, PH 0 x 60, PH 1 x 80mm

480780.471414

Description	Mftrs. List No.	Order Code	Price Each 1+
Set of 4	T4884X	307-8851	13.45
Set of 7	T4883X	307-8954	20.25

## Troubleshooting tips



Chat live online to one of our technical engineers at www.farnell.co.uk





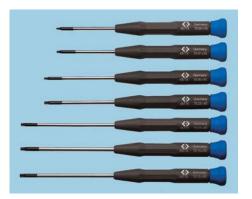


#### **Screwdrivers - ESD - continued**

#### **ESD Torx Screwdriver Sets**







- Rotating caps allow ease of use and greater control at low torque
- Manufactured in high alloy chrome vanadium steel for strength and durability
- Black tips for ultimate screw fit, non-peel

Contents:

TX06 x 50, TX07 x 50, TX08 x 60, TX09 x 60, TX10 x 80, TX15 x 80, TX20 x 100mm

					100022
			Price	Per Set	
Mftrs. List No.	Order Code	1+	5+	10+	20+
T4877PX	139-1005	25.00	24.25	23.50	22.50

#### **ESD Tamper Proof Torx Screwdriver Set**







- Rotating caps allow ease of use and greater control at low torque
- Manufactured in high alloy chrome vanadium steel for strength and durability
- Black tips for ultimate screw fit, non-peel

Contents:

TX07 x 50, TX08 x 60, TX09 x 60, TX10 x 80, TX15 x 80mm

		4807	Ö
		Price Each	
Mftrs. List No.	Order Code	1+	
4881X/5	724-6614	40.80	

#### **ESD Hexagon Screwdriver Set**



480823



- Rotating caps allow ease of use and greater control at low torque
- Manufactured in high alloy chrome vanadium steel for strength and durability
- Black tips for ultimate screw fit, non-peel

Contents:

Hex 07. x 50, 0.9 x 50, 1.3 x 50, 1.5 x 50, 2.0 x 50, 2.5 x 60, 3.0 x 60mm

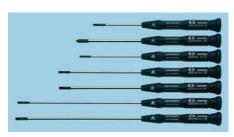
		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T4874X	139-1006	28.90	28.05	27.15	26.00

## **Xonic Precision Screwdrivers**

FSD

Set 7

Set 4



- High quality Electro-Static Discharge (ESD) screwdrivers that safely discharge static charges without damaging nearby delicate electronic components
- Screwdrivers meet the requirements of the relavent DIN/EN standards Resistivity between blade and handle:  $10^2 10^5 \Omega$
- •

Mftrs. List No. T4883XESD Order Code

2.5 x 75, 3 x 100, 4 x 150, 4 x 150 0 x 60, 1 x 80 Parallel Blade

Phillips Mftrs. List No. T4884X ESD

939-8775 1.8 x 60, 3 x 100, 4 x 150 Order Code Parallel Blade

222862

CK

	Mftrs. List No.	Order Code	Price Each 1+
Sets	T4883XESD	725-4246	25.50
	T4884X ESD	939-8775	17.10

#### **ESD Screwdriver Set** 5-Piece





- ESD Phillips head screwdriver set, 5-piece round blade
- High strength chrome vanadium molybdenum steel, super-hardened, smooth chrome-
- Wiha ChromTop blade point guarantees optimum dimensional stability
- Ergonomic Wiha SoftFinish® multi-component grip with slip protection, electrostatically insulating (dissipative)
- Surface resistance 10<sup>6</sup>-10<sup>9</sup> Ohm
- According to DIN EN 61340-5-1/ 61340-5-2
- For work on all electronic components susceptible to electrostatic charges

413197

		Price Per Set		
Mftrs. List No.	Order code	1+	5+	10+
302ESD HK5 01	978-7704	20.62	19.59	18.56

#### **Triton ESD** Dissipative



- Triton ESD screwdrivers for use in static safe areas
- Injection moulded from black, dissipative special plastic material direct on to blade Tri square sculptured design for fatigue free user comfort
- Chrome-Vanadium or Chrome-Molybdenum alloy steel blades with black antipeel finish
- Available individually or as sets





Mftrs. List No Set Contents Order Code Slotted 75 x 3, 100 x 3, 125 x 5 PZD/SDV 0, 1, 2 T4741ESD 628-670 Slotted 75 x 3, 100 x 3, 125 x 5 PH 0, 1, 2 T4741SESD 628-682 TX08, TX09, TX10, TX15, TX20 4730ESD 628-694

Warning: Dissipative tools do not offer insulating properties

		222834
Blade length x tip	Order Code	Price Each 1+
Slot ,Parallel Blade		
75 x 3	311-6967	2.05
100 x 3	311-6979	2.30
125 x 5	311-6980	2.90
150 x 5	311-6992	2.95
Posidrive		
60 x No.0	311-7029	2.90
80 x No.1	311-7030	3.30
100 x No.2	311-7042	4.00
Phillips		
60 x No.0	311-7054	2.25
80 x No.1	311-7066	3.05
100 x No.2	311-7078	3.90
Tamperproof Torx		
80 x TX09	311-6920	6.00
80 x TX10	311-6931	6.50
90 x TX20	311-6955	6.50
		Price Per Set
Sets		1+
T4741ESD	628-670	17.90
T4741SESD	628-682	16.35
4730ESD	628-694	24.35

#### **ESD Magnetic Bit Holder**



495507



- To use with 1/4" bits ESD Safe
- 125mm in length

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T4582ESD	151-8939	8.60	8.35	8.10	7.75

### **Screwdrivers - Standard**









- Long, fine neck for ultimate fingertip control
- Ergonomically shaped smooth, round head to allow it to pivot easily in the palm of the
- Ridges along the head for that last ¼ turn of power when tightening down Range features Grip-Tip™ technology\* specially designed ribs positively engage with the screw slot to reduce the risk of Cam-out and slipping
- Permanent tip type marking on the end of the handle for convenient identification
- Non-roll flats won't roll off uneven surfaces

- Precision machine tip for ultimate screw fit and high torque output Toughened, high alloy steel blade for excellent wear resistance Torque performance substantially in excess of the international standard requirements

	Tip size	Blade length (mm)	Mftrs. List No.	Order Code	
Engineers Slo	otted				
	4.0	75	T49110-040	166-4292	
	5.5	100	T49110-055	166-4294	
	6.5	150	T49010-065	166-4295	
	10.0	200	T49110-100	166-4296	
Phillips				•	
	PH0	60	T49112-0	166-4297	
v	PH1	80	T49112-1	166-4298	
	PH2	100	T49112-2	166-4299	
	PH3	150	T49112-3	166-4301	
Phillips long versions					

	Tip size	Blade length (mm)	Mftrs. List No.	Order Code
	PH1	250	T49112-1250	166-4302
V	PH2	250	T49112-2250	166-4303
Pozidriv				
	PZ0	60	T49113-0	166-4304
	PZ1	80	T49113-1	166-4305
	PZ2	100	T49113-2	166-4306
	PZ3	150	T49113-3	166-4307
Pozidriv lor	ng versions			
	PZ1	250	T49113-1250	166-4308
	PZ2	250	T49113-2250	166-4309
nstrument	Slotted			
	3.0	75	T49125-030	166-4324
	3.0	250	T49125-03025	166-4322
	3.5	100	T49125-035	166-4325
	4.0	125	T49125-040	166-4326
	5.5	150	T49125-055	166-4327
orx				
	TX06	70	T49117-06	166-4310
	TX07	70	T49117-07	166-4312
	TX08	70	T49117-08	166-4313
	TX09	70	T49117-09	166-4314
	TX10	80	T49117-10	166-4315
	TX15	80	T49117-15	166-4316
	TX20	90	T49117-20	166-4317
	TX25	90	T49117-25	166-4318
	TX27	110	T49117-27	166-4319
	TX30	110	T49117-30	166-4320
	TX40	120	T49117-40	166-4321

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
<b>Engineers Slotted</b>				
T49110-040	166-4292	3.10	3.00	2.90
T49110-055	166-4294	3.55	3.45	3.35
T49010-065	166-4295	4.45	4.30	4.20
T49110-100	166-4296	6.75	6.55	6.35
Phillips				
T49112-0	166-4297	3.10	3.00	2.90
T49112-1	166-4298	3.95	3.85	3.70
T49112-2	166-4299	4.35	4.20	4.10
T49112-3	166-4301	5.30	5.15	5.00
Phillips long version				
T49112-1250	166-4302	5.45	5.30	5.10
T49112-2250	166-4303	6.30	6.10	5.90
Pozidriv				
T49113-0	166-4304	3.10	3.00	2.90
T49113-1	166-4305	3.70	3.60	3.50
T49113-2	166-4306	4.35	4.20	4.10
T49113-3	166-4307	6.75	6.55	6.35
T49143-3	166-4277	7.80	7.55	7.35
Pozidriv long vers		F 0F	F F0	F 00
T49113-1250	166-4308	5.65	5.50	5.30
T49113-2250	166-4309	6.90	6.70	6.50
T49125-030		0.75	0.05	0.00
	166-4324 166-4322	2.75	2.65	2.60
T49125-03025 T49125-035	166-4325	4.55 3.10	4.40 3.00	4.30 2.90
T49125-035	166-4326	3.95	3.85	3.70
T49125-040	166-4327	3.95 4.65	3.05 4.50	4.35
Torx	100-4327	4.00	4.00	4.33
T49117-06	166-4310	5.05	4.90	4.75
T49117-07	166-4312	5.05	4.90	4.75
T49117-08	166-4313	4.65	4.50	4.35
T49117-09	166-4314	4.65	4.50	4.35
T49117-10	166-4315	5.05	4.90	4.75
T49117-15	166-4316	5.05	4.90	4.75
T49117-20	166-4317	5.30	5.15	5.00
T49117-25	166-4318	5.35	5.20	5.05
T49117-27	166-4319	5.95	5.75	5.60
T49117-30	166-4320	6.20	6.00	5.85
T49117-40	166-4321	7.45	7.25	7.00

#### 7 Piece Screwdrivers Sets



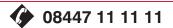




- Designed in conjunction with professionals optimised for specific tasks
- Extra response, extra feel and extra speed
- Long, fine neck for ultimate fingertip control
- Ergonomically shaped smooth, round head to allow it to pivot easily in the palm of the







#### 7 Piece Screwdrivers Sets - continued

- Ridges along the head for that last  $\frac{1}{4}$  turn of power when tightening down
- Range features Grip-Tip™ technology\* specially designed ribs positively engage with the screw slot to reduce the risk of Cam-out and slipping
- Permanent tip type marking on the end of the handle for convenient identification
- Non-roll flats won't roll off uneven surfaces
- Precision machine tip for ultimate screw fit and high torque output
- Toughened, high alloy steel blade for excellent wear resistance
  Torque performance substantially in excess of the international standard requirements

◥	
	_

Content 166-4329
Engineers Slotted
4.0x75 mm
5.5x100 mm
6.5x150 mm
Instrument Slotted
3.0x75 mm
Phillips
PH 0x60 mm
PH 1x80 mm
PH 2x100 mm



ntent 166-4330
Engineers Slotted
4.0x75 mm
5.5x100 mm
6.5x150 mm
Instrument Slotted
3.0x75 mm
PZ 0x60 mm
PZ 1x80 mm
PZ 2x100

526905

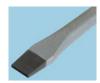
Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
T49162	166-4329	22.55	21.85	21.20
T49163	166-4330	22.75	22.05	21.40

#### 5 Piece Screwdrivers Sets - Dextro Series









- Designed in conjunction with professionals optimised for specific tasks
- Extra response, extra feel and extra speed
- Long, fine neck for ultimate fingertip control
- Ergonomically shaped smooth, round head to allow it to pivot easily in the palm of the
- Ridges along the head for that last 1/4 turn of power when tightening down
- Range features Grip-TipT<sup>xx</sup> technology\* specially designed ribs positively engage with the screw slot to reduce the risk of Cam-out and slipping
- Permanent tip type marking on the end of the handle for convenient identification
- Non-roll flats won't roll off uneven surfaces Precision machine tip for ultimate screw fit and high torque output
- Toughened, high alloy steel blade for excellent wear resistance
- Torque performance substantially in excess of the international standard requirements

Content			
	Engineers Slotted		
	4.0x75 mm		
	5.5x100 mm		
	6.5x150 mm		
	Pozidriv		
<b>\$</b> 3	PZ 1x80 mm		
	PZ 2x100 mm		

				52691
Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
T49153	166-4328	17.25	16.75	16.20

## Technical information at your fingertips



Over 352,000 technical datasheets available online.

Visit www.farnell.co.uk and look for the Tech Info heading in your search results.

#### Screwdrivers





A range of screwdrivers with a satin finish shaft, magnetic tip and a 2 component han-

				Price Each		
Type/Size	Order Code	1+	5+	10+	20+	50+
Slotted						
3 x 0.4mm	144-7443	1.11	1.01	0.89	0.80	0.67
4 x 0.7mm	144-7444	1.11	1.01	0.89	0.80	0.67
5.5 x 0.8mm	144-7445	1.29	1.12	1.05	0.95	0.88
6.5 x 0.9mm	144-7446	1.29	1.12	1.05	0.95	0.88
8 x 1.5mm	144-7447	1.39	1.19	1.10	0.98	0.89
Pozi						
1 x 80mm	144-7448	1.11	1.01	0.89	0.80	0.67
2 x 100mm	144-7449	1.29	1.12	1.05	0.95	0.88
2 x 38mm	144-7450	1.29	1.12	1.05	0.95	0.88
3 x 150mm	144-7532	1.55	1.29	1.23	1.10	1.00
Phillips						
PH0 x 80mm	144-7533	1.11	1.01	0.89	0.80	0.67
PH2 x 100mm	144-7534	1.29	1.12	1.05	0.95	0.88

#### 20pc Screwdriver Set





A 20pc screwdriver set contained in an neat little carry case with handle. Set contains the following items:- 6 workshop screwdrivers 5 x 100, 6 x 100, 8 x 100, slotted 3 workshop screwdrivers 0 x 75, 1 x 85, 2 x 100, pozi 3 precision screwdrivers pozi 0 x 40, slotted 2 x 40, 5 x 40mm 1 magnetic bit holder

10 chrome vanadium screwdriver bits 10 x 25. 1/4in hex drive, phillips 1, 2, torx TX10, 15, 20, 25, 30, hexagon bits 2, 3, 4.

494188

	Price Each
Order Code	1+
010-784	20.11

#### 42 Piece Screwdriver Accessory Kit





The kit contains:

- 1 x 150mm flexible shaft
- 1 x High torque screwdriver bit holder
- 2 x Insulated chrome vanadium screwdrivers: Slotted 5 x 75mm & Phillips 1 x 75mm
- 6 x Chrome vanadium screwdrivers: Slotted 6 x 100mm, 8 x 150mm, 6 x 38mm, Phillips: PH2
- x 100mm, PH3 x 150mm, PH2 x 38mm 7 x Chrome vanadium precision screwdrivers

25 x 25mm/1\* Chrome vanadium screwdriver bits with holder: Slotted 3mm, 4mm, 5mm, 6mm, 7mm, Phillips PH0, PH1, PH2, PH3, Torx T10, T15, T20, T25, T30, T40, Hex 2,,m 3mm, 4mm, 5mm, 5.5mm, 6mm

Kit supplied in moulded case

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			Price Each		
Order Code	1+	5+	10+	20+	50+
144-7441	7.60	7.05	6.08	5.71	5.19



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#### 21 Piece Screwdriver Set **Cushion Grip**



- Cushion grip handles enable extra torque to be applied
- Chrome vanadium steel blades with hardened magnetised tips
- Supplied in a blow moulded case

#### Contents

5 cushion grip screwdrivers

1 insulated cushion grip screwdriver 1 cushion grip screwdriver handle

14 Hex bits

Slot 4 75, 6 100, 8 150 Phillips No.1 75, No.2 100 Slot 3 60

Torx T10, T15, T20, T25, T 27, T30, T 40 Hex 2, 2.5, 3, 4, 5, 5.5, 6mm

		2	2290
		Price Each	
	Order Code	1+	
21 piece set	312-7000	3.98	

#### 30 Piece Screwdriver Set



- Cushion grip handles enable extra torque to be applied
- Chrome vanadium steel blades with hardened magnetised tips
- Supplied in a blow moulded case

#### Contents:

- 5 cushion grip screwdrivers 2 insulated cushion grip screwdrivers
- 7 precision screwdrivers

Torx T15 50, T20 50

1 extra torque cushion grip handle, 1 flexible Hex shaft 14 hex bits Slot 3, 4, 5, 5.5, 6mm, Phillips No.1, 2

Torx T10, T15, T20, T25, T30, Hex 5, 6mm

 $\begin{array}{l} {\sf Slot}\ 4\ 75,\ 6\ 100,\ 8\ 150,\ Phillips\ No.1\ 75,\ No.2\ 100\\ {\sf Slot}\ 5\ 75,\ Phillips\ No.1\ 75\\ {\sf Slot}\ 2\ 50,\ 2.5\ 50,\ 3\ 50 mm,\ Phillips\ No.00\ 50\ No.0\ 50 \end{array}$ 

		Price Each
	Order Code	1+
30 piece set	312-7011	16.15

#### 20 in 1 Screwdriver Set **Extra Torque Cushion Grip**



- Chrome vanadium steel interchangeable blades with hardened, magnetised tips
- torque to be applied
- The cushion grip handle enables extra
- Supplied in a blow moulded case

Extra torque, cushion grip, screwdriver handle 10 175mm long, double end screwdriver blades: Phillips No. 1, 2, Pozi No. 1, 2, Torx T10, T15, T20, T25, T30, T40

Hex and Ball Hex 4, 5, 6mm

#### Price Each Order Code 20 in 1 set 312-6997 12.03

#### **Stainless Steel Tool Set**

**Inox Stainless Steel** 



The ideal tool set for threaded connections with stainless steel screws. Kraftform® Stainless Steel Screwdriver, Stainless Steel wrench set, bit-check® with 9 bits and a Rapidaptor®- holder for a quick bit exchange. Stainless Steel tools avoid the risk of extrane-

Delivered in a practical storage and transport

	Wrench:
0	each 1 x SW 1.5; SW 2.0; SW 2.5; SW 3.0; SW 4.0; SW 5.0; SW 6.0; SW 8.0; SW 10.0
•	Bits:
<b>O</b>	1 x holder 1/4" x 50
•	1 x PH2
<b>3</b>	1 x PZ 1; 2 x PZ2
0	each 1 x TX 10; TX 15; TX 20; TX 25; TX 30
	Screwdriver:
	1 x 0.5 x 3.0 x 80mm 1 x 1.2 x 6.5 x 150mm
<b>•</b>	each 1 x PH1/80; PH2/100
	each 1 x PZ1/80; PZ2/100

4	2	7	9

			Price Each	
Mftrs. List No.	Order code	1+	3+	5+
05071118001	135-9358	79.07	76.99	75.02

#### Screwdriver with hexagonal blade





- Screwdriver for the industrial use
- Hexagonal blade allows the use of a jaw wrench or a ring wrench for a better torque
- Extremly robust and durable
- Kraftform with anti-roll protection, multi-component
- Mat nickel, Lasertip

222960

Slotted: DIN 5264-A, ISO 2380, Lasertip®, DIN 5260-PH, ISO 8764-PH, Lasertip®

								4/4//2
	Type	Size	Hexagonal size	wrench support	Order Code	1+	Price Each 5+	10+
Slotted	007670 007671 007672	3.5 x 75mm 4.0 x 90mm 4.5 x 90mm	4 mm 4 mm 5 mm	- - 8 mm	133-7743 133-7744 133-7745	2.79 3.47 3.91	2.53 3.15 3.55	2.33 2.90 3.25
Phillips	(PH) 008750 008751 008752	Ph0 x 60mm Ph1 x 80mm Ph2 x 100mm	- 5 mm 6 mm	- 8 mm 10 mm	133-7746 133-7747 133-7748	3.78 4.21 5.89	3.44 3.84 5.36	3.15 3.51 4.91

#### 334/6 Rack Screwdriver set Kraftform® Plus **Lasertip**®



6 pieces set in display carton + rack



Content: each
3.5 x 75mm; 4.0 x 90mm
5.5 x 100mm; 6.5 x 125mm
PH1/80; PH2/100

With Lasertip hexagon blades + Rack For slotted and Phillips screws







222934

334/6 Rack Screwdriver set Kraftform® Plus Lasertip® - continued 6 pieces set in display carton + rack - continued

				474793
Type	Order Code	1+	9 Price Each 5+ 23.78	10+
334SK/6	133-7751	26.15		21.79

#### Srewdriver- Series 300





- Externely robust and durable
- Kraftform with anti-roll protection, multi-component
- Mat nickel, Lasertip®

						33419
					Price Each	
	Тур	Size	Order Code	1+	5+	10+
	тур	SIZE	Oluci Goue	17	JT	10+
Slotted						
	8007	2,5 x 75	311-3917*	2.97	2.72	2.34
	110001	3 x 80	311-3929*	2.53	2.30	1.95
	8015	3,5 x 100	311-3930	2.71	2.53	2.11
	110004	4 x 100	311-3942	3.14	2.93	2.46
	110007	5,5 x 125	311-3954	4.80	4.44	3.71
Phillips (Ph	IV.					
Tillips (III	8705	PH0 x 60	310-9290*	3.20	2.98	2.71
	8710	PH1 x 80	310-9306	4.42	4.11	3.74
•	8720	PH2 x 100	310-9320	6.08	5.61	5.13
	8735	PH3 x 150	310-9343	8.83	8.15	7.50
		1110 % 100	0.000.0	0.00	0.10	
Pozidriv (P		Destruction and the	440.0000	4.00	4.40	4.40
63	9310	Posidriv No1 x 80	443-2836	4.66	4.43	4.19
	9315	PZ No.2 x 100	443-2848	6.36	6.04	5.72
TORX®						
	28000	T5 x 60	443-2850	3.72	3.53	3.35
	28001	T6 x 60	443-2861	3.72	3.53	3.35
	28002	T7 x 60	443-2873	3.64	3.47	3.28
	28003	T8 x 60	443-2885	3.64	3.47	3.28
	28004	T9 x 60	443-2897	3.64	3.47	3.28
	28005	T10 x 80	443-2903	3.75	3.56	3.38
	28008	T15 x 80	443-2915	3.79	3.59	3.41
	28010	T20 x 100	443-2927	3.87	3.66	3.47
	28012	T25 x 100	443-2939	4.14	3.94	3.72
	28013	T27 x 115	443-2940	4.49	4.26	4.05
	28015	T30 x 115	443-2952	4.58	4.35	3.99
	28020	T40 x 115	443-2964	5.34	5.04	4.78
TQBX® with	n bore hole					
	138260	T10 x 80	310-9136	5.29	4.90	4.51
	138261	T15 x 80	310-9148	5.41	5.00	4.58
	138262	T20 x 80	310-9150	5.54	5.10	4.68
TRI-WING®						
	28120	2 x 80	311-0655	6.34	5.59	5.13
57	28122	3 x 80	311-0679	6.34	5.59	5.12
			311-0079	0.34	5.59	5.12
Ballhead H	exagon Screwo					
B	22795	1,5 x 60	310-9185	3.12	2.90	2.60
	22800	2,0 x 100	310-9197	3.12	2.90	2.60
	138070	2,5 x 100	310-9203	3.13	2.91	2.61
	22805	3,0 x 100	310-9215	3.15	2.91	2.61
	22810	4,0 x 100	310-9227	3.54	3.27	2.97
	22815	5,0 x 100	310-9240	3.78	3.48	3.18
*not oug!l-b	22820	6,0 x 125	310-9264	5.30	4.94	4.49
mot avallat	ne as Lasertip®	version. Delivered with Sta	iliuald blade.			

#### TORX® HF Kraftform Plus Screwdriver set with holding function + Rack





6 pieces set in display carton + Rack Torx® screwdriver with holding function of Camcar Textron

	Туре	Content: each
0	367/6 HF	TX10; TX15; TX20; TX25; TX30; TX40

		Price Each		
Туре	Order Code	1+	5+	10+
367/6 HF	967-3261	20.44	19.62	18.40

Over 480,000 products online



413077

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## HF TORX® Screwdriver with holding function

Series 367 HF



- For TORX® socket screws
- Round blade Kraftform handle with anti-roll protection, multi component
- With holding function for TORX® screws according to Acument Global Technologies

						413108
	Туре	Size	Order Code	1+	Price Eac 5+	<b>h</b> 10+
TORX®						
	367 HF TX 10	Torx	967-3270	3.59	3.44	3.18
_	367 HF TX 15	Torx	967-3288	3.75	3.59	3.39
	367 HF TX 20	Torx	967-3296	3.87	3.70	3.44
lacksquare	367 HF TX 25	Torx	967-3300	4.07	3.92	3.64
	367 HF TX 30	Torx	967-3318	4.69	4.48	4.17
	367 HF TX 40	Torx	967-3326	5.21	5.05	4.74

#### Screwdriver Set Kraftform Plus Lasertip + Rack with Lasertip® round blades + rack

For slotted and Pozidriv screws

6 pieces set in display carton + Rack





	Content: each
	3.0 x 80mm; 4.0 x 100mm
	5.5 x 125mm; 6.5 x 150mm
63	PZ1/80; PZ2/100

413018

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		1	Price Eac	h
Туре	Order Code	1+	+	+
334/355/6	439-4136	23.66		

#### TORX® screwdriver set - series 300

6 pieces set in display carton + Rack





	Туре	Content: each
0	367/6 TORX	TX10; TX15; TX20; TX25; TX30; TX40
$\odot$	367/6 BO	TX10; TX15; TX20; TX25; TX30; TX40
$lue{lue}$		

334207

		Price Each			
Type	Order Code	1+	5+	10+	
367/6 TORX	443-2976	24.69	23.45	22.23	
367/6 BO	333-1120	16.68			

## **Troubleshooting tips**



Chat live online to one of our technical engineers at www.farnell.co.uk



#### Vario set in metal box





#### 11-piece range specifically for high load

Content:		
	0.6 x 4 - 1.0 x 6; 0.8 x 5 - 1.2 x 7	
0	SW4 - SW4; SW5 - SW5; SW6 - SW6	
•	PH1 - PH2	
	PZ1 - PZ2	
0	TX10 - TX15; TX20 - TX25; TX30 - TX40	

			241140
		Price	Each
Mftrs. List No.	Order Code	1+	+
88/1Vario set	333-1040	37.08	

#### Chiseldriver



- Hexagon "pound-thru" with impact cap, hexagonal bolster from 0.8 x 4.5
- Extra tough
- Mat nickel, Black Point
  Kraftform® handle with anti-roll protection

						334155
	Туре	Size	Order Code	1+	Price Eac 5+	<b>h</b> 10+
Slotted	18262 18264 18266 18268 18270 18272	0,8 x 4.5 1,0 x 5.5 1,2 x 7 1,6 x 9 1,6 x 10 2,0 x 12	443-3038 443-3040 443-3051 443-3063 443-3075 443-3087	4.10 5.38 6.61 8.79 11.06 14.13	3.90 5.08 6.28 8.34 10.52 13.42	3.69 4.83 5.96 7.92 9.97 12.72
Phillips (PH) Pozidriv (PH)	17005 17010 17015 17020 17050 17052 17054	Phillips No 1 Phillips No 2 Phillips No 3 Phillips No 4 Posidriv No1 PZ No.2 Posidriv No 3	443-3099 443-3105 443-3117 443-3129 443-3130 443-3142 443-3154	4.79 6.74 9.90 12.52 5.09 7.30 10.51	4.56 6.42 9.42 12.00 4.85 6.94 9.99	4.32 6.07 8.93 11.48 4.59 6.57 9.45

#### Chiseldriver set





- For slotted and Phillips screws
- Hexagon "pound-thru" blade with impact cap, hexagonal bolster from 0.8 x 4.5
- Mat nickel, Black Point
- Suitable for loosening of firmly bonded screws, as well as

Content: each				
	3.5 x 80mm; 4.5 x 90mm			
	5.5 x 100mm; 7.0 x 125mm			
	PH1/80; PH2/100			

				334169
		1	Price Eac	:h
Type	Order Code	1+	+	+
932/6	439-4148	29.14		

#### SoftFinish® Screwdrivers





with round blade

with hex blade

- Multi-component SoftFinish handle provides maximum user comfort
- Ergonomically perfect handle design
- Printed screw symbol on handle end for fast identification
- Available in versions with round or hex blade
- Blade made of chrome vanadium molybdenum steel, through hardened, chrome-plated
- Wiha ChromTop finish on tip for a perfect fit every time

	Tip Size	Blade Length			Price Eacl	1
Mftrs. Part No.	(mm)	(mm)	Order Code	1+	5+	10+
Slotted - 302 Series						
685	2.5mm	75	401-7353	1.98	1.71	1.44
686	3	80	830-835	2.40	2.18	2.00
691	3.5	100	401-7365	2.36	2.05	1.70
692	4	100	830-859	2.94	2.69	2.44
700	5.5	150	830-872	4.35	3.97	3.60
703	6.5	150	835-432	5.39	5.11	4.66
707	8	175	830-902	5.89	5.38	4.86
711	10	200	830-926	8.34	7.65	6.93
Slotted with hex blade - 3	202 Sarias					
733	5.5	100	401-7328	4.64	4.13	3.34
735	7	125	401-7330	5.05	4.39	3.64
_	,	123	401-7550	3.03	4.00	0.04
Phillips - 311 Series	Dhillie - N - O	60	024 000	0.00	0.70	0.40
754 756	Phillips No 0	60 80	831-098 831-104	2.98 3.65	2.70 3.34	2.46 3.03
756 757	Phillips No 1 Phillips No 1	200	831-104 831-116	4.56	3.34 4.22	3.03
759 760	Phillips No 2 Phillips No 2	100 200	831-128 831-130	4.58 5.79	4.22 5.36	3.79 4.84
762	Phillips No 3	150	831-141	6.74	6.19	5.60
	FIIIIIIps No 3	150	031-141	0.74	0.19	5.00
Pozidriv - 313 Series	D. 111 N. 0	00	004 477	0.00	0.04	0.70
768	Pozidriv No.0	60	831-177	3.29	3.01	2.73
770	Pozidrive No1	80 100	831-189	3.93 5.48	3.60	3.26
772	Pozidrive No2	100	831-190	5.48	5.03	4.55
Ball Hex - 367 Series	0.511.17	400				
26305	2.5 Hex Key	100	832-042	2.93	2.70	2.45
26328	3 Hex Ball	100	832-054	2.77	2.55	2.29
26329	4 Hex Ball	100	832-066	3.49	3.23	2.93
26330	5 Hex Ball	100	832-078	3.45	3.16	2.88
26331	6Hex Ball	125	832-080	4.57	4.22	3.80
TORX - 362 Series						
1286	<u>T6</u>	60	831-633	3.20	2.91	2.64
1287	T7	60	831-645	3.44	3.16	2.87
1288	T8	60	831-657	3.64	3.34	3.03
1289	T9	60	831-669	3.05	2.77	2.52
1290 1291	T10 T15	80	831-670	3.14	2.92	2.65
1291 1292	T20	80 100	831-682 831-694	3.17 3.18	2.92 2.94	2.64
1292	T25	100	831-094	3.18	3.13	2.85
1293	125 T27	115	831-700	4.01	3.13	3.33
1294	T30	115	831-712	3.76	3.69	3.13
1295	T40	130	831-724	4.67	4.29	3.86
1290	T45	130	831-748	5.59	5.10	4.64
			201-140	0.00	0.10	7.04
TORX - TR Series 362TR	T10	<b>s</b> 80	215-557	9.67		
1300	T15	80 80	215-557	9.81		
1301	T20	100	215-509	9.81		
1302	T25	100	282-182	10.09		
1304	T27	115	282-194	4.67		
1305	T30	115	282-194	5.56		
1000	100	110	202-200	3.30		

#### 6 Piece Electricians Screwdriver Set **Hex Blades with Hex Bolster**





- Multi-component SoftFinish handle provides maximum user comfort
- Ergonomically perfect handle design Blade made of chrome vanadium molyb-
- denum steel, through hardened, chrome-
- Wiha ChromTop finish on tip for a perfect fit every time

Types: Slotted:  $3,5 \times 75; 4,5 \times 90; 5,5 \times 100; 7,0 \times 125$  PH  $1 \times 80; 2 \times 100$ 



		Price Per		
lftrs. List No.	Order Code	1+	5+	
08 HK 6	381-1608	29.31	27.03	







<%≥Wera

## Screwdriver Set: Slotted and Phillips









- WihaSoftFinish handle, 6 pieces
- Hex blade extending through handle, hex bolster for additional torque
- Solid steel cap

High Quality chrome vanadium molybdenum steel, through hardened, chrome-plated, Wiha ChromTop Tip Size: 8; 10

Components: Slotted: 75x3,5; 90x4,5; 100x5,5; 125x6,5 Phillips: 80x1; 100x2



					24114
			Price Per Set		
Mftrs. Part No.	Order Code	1+	3+	10+	
530 HK 6	310-6780	33.19	30.18	26.63	
				Mftrs. Part No. <b>Order Code</b> 1+ 3+	Mftrs. Part No.         Order Code         1+         3+         10+

#### **TORX® MagicSpring Screwdrivers**



2/11/6





- Especially for dry and general applications
- Made of high quality materials in well-known Wiha quality
- Ideal for Torx Screws made of Aluminium, Steel, Plastic and Titani-
- High Quality chrome vanadium molybdenum steel, through hardened, chrome-plated
- Ergonomic handle with Roll-off protection

408	36

		Tip Size	Blade Length			Price Eac	
Mft	rs. Part No.		(mm)	Order Code	1+	5+	10+
TORX® MagicSp	oring - 362R S	Series					
3	362R T6	T6	60	958-2509	3.45	3.14	2.88
3	362R T7	T7	60	958-2517	3.10	2.84	2.63
3	362R T8	T8	60	958-2525	3.10	2.84	2.63
_ 3	362R T9	T9	60	958-2533	3.52	3.22	2.97
3	62R T10	T10	80	958-2541	3.77	3.40	3.13
3	62R T15	T15	80	958-2550	3.82	3.45	3.19
3	62R T20	T20	100	958-2568	4.17	3.78	3.50
3	62R T25	T25	100	958-2576	4.04	3.69	3.36
3	62R T27	T27	115	958-2584	4.40	3.98	3.65
3	62R T30	T30	115	958-2592	4.81	4.39	4.02
3	62R T40	T40	130	958-2606	5.20	4.79	4.37

#### TORX® MagicSpring Screwdriver Set







- Retaining Spring holds TORX® screw in Place Especially for dry and general
- applications



- Made of high quality materials in well-known Wiha quality
- High Quality chrome vanadium molybdenum steel, through hardened, chrome-plated
- Ideal for TORX® screws made of aluminium, steel, plastic and titanium
- Ergonomic handle with Roll-off protection

#### Content:

6 pieces Torx Screwdrivers T10x80; T15x80; T20x100; T25x10; T30x115; T40x130mm

Dimensions in mm

408415

		Price	e Each
Mftrs. List No.	Order Code	1+	5+
362R K6 S0	958-2614	25.21	22.89

#### Screwdriver Set Torx Type 362 K7



- Wiha SoftFinish Handle, 7 pieces
- Through hardened, chrome plated



Blade material: Chrome Vanadium Molybdenum special steel Handle material: Cellulose acetate (impact-proof and cadmium-free)

7 pieces

7 screwdriver Torx T8, T9, T10, T15, T20, T25, T30

Weight: 670a Dimensions in mm



			241170
Mftrs List No. 362 K7	Order Code 831-761	1+ 22.13	<b>e Each</b> 5+ 20.30

#### **Torx Screwdriver Set** 362 K6 Series



Wiha SoftFinish handle, 6 pieces Through hardened, chrome-plated

Chrome - Vanadium - Molybdenum Blade: Content: T10 - T15 - T20 - T25 - T30 - T40



			241166
		Price Each	
Type	Order Code	1+	5+
362 K6 S0	831-750	18.01	16.63

#### Screwdriver Sets



- Handle moulded direct to bar for durability High grade steel bar allows for high torque
- and reduce the chance of tip breakage Anti-slip soft grip handle provides excellent comfort and grip
- Large diameter handle offers extra torque for driving screws
- Smooth doomed end for spinning speed

and comfort Colour coded ends for easy identification

### Contents:

7 Piece: Flared 5.5 x 100, 8 x 150mm Parallel: 3.5 x 75, 3 x 100mm Pozidriv: PZ0 x 75, PZ1 x 100, PZ2 x 125mm

**10 Piece**: Flared: 4 x 100, 8 x 150mm Parallel: 3 x 100, 4 x 100, 5.5 x 150mm Pozidriv: PZ0 x 75, PZ1 x 30, PZ1 x 100, PZ2 x 125mm and carry case **20 Piece**: Flared: 4 x 100, 5.5 x 100, 6.5 x 30, 8 x150mm Parallel: 2.5 x 50, 3 x 100, 4 x

100, 4 x 150, 5.5 x 150mm Phillips: PH00 x 50, PH0 x 75, PH1 x 30, PH1 x 100, PH2 x 125, PH3 x 150mm Pozidriv: PZ0 x 75 PZ1 x 100, PZ2 x 30, PZ2 x 125, PZ3 x 150mm and

405972 405919

STANLEY

					100010.100010
				Price	Each
3	Sets	Mftrs. List No.	Order Code	1+	5+
7	7 Piece	0-65-425	152-0953	20.87	19.22
1	10 Piece	5-65-427	152-0954	31.74	29.26
2	20 Piece	5-62-572	152-0961	63.51	58.53

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#### FatMax XL Screwdriver Sets

## **Fat**Max



- Flared style handle with anti-slip soft grip for excellent comfort and grip
- Pinched waist for detailed presision adjustment
- Handle moulded direct to bar for durability
- High grade steel bar allows for high torque and reduce the chance of tip breakage
- Large diameter handle offers extra torque for driving screws
- Smooth doomed end for spinning speed and comfort
- Colour coded ends for easy identification

**12 Piece**: Flared: 4 x 100, 6.5 x 150, 8 x 175. 10 x 200mm Parallel: 3 x 75, 3.5 x 100, 5.5 x 150mm, Phillips: PH0 x 60, PH1 x 80, PH2 x 100mm, Pozidriv: PZ1 x 80, PZ2 x 100mm and carry case

**7 Piece:** Flared: 4 x 100, 6.5 x 150, 8 x 175mm Parallel: 3 x 100, 5.5 x 150mm Pozidriv: PZ1 x 80, PZ2 x 100mm

**10 Piece**: Flared: 4 x 100, 6.5 x 150, 8 x 175. 10 x 200mm Parallel: 3 x 100, 5.5 x 125mm, Phillips: PH0 x 60, PH1 x 80, PH2 x 100mm, Pozidriv: PZ1 x 80, PZ2 x 100mm and carry case

49	95	8	75	9	5	8	6	

			Price	Per Set
Mftrs. List No.	Sets	Order Code	1+	5+
5-66-281	12 Piece	152-0956	45.35	41.78
0-66-282	7 Piece	152-0958	27.21	25.07
5-66-296	10 Piece	152-0959	39.31	36.77

#### Slotted Phillips Screwdriver PH Type 153 Extra Long Blade









Slotted Phillips Screwdriver according to DIN5262 with extra long blade and red, transparent square handle. The blade is through hardened and nickel-plated. Series includes extra long dimensions for screws in difficult to reach locations.

Blade material:	Chrome vanadium molybdenum steel
Handle material:	Cellulose acetate (impact-proof and cadmium-free)

			Blade	Total	Handle	Square	Weight
Mftrs. Part No.	PH Size	Blade length	Ø	length	length	handle	(g)
153-2+	Phillips No 1	350	4,5	295	95	24	0.9
153-2+	Phillips No 2	350	6	455	105	28	150
153-3+	Phillips No 3	300	8	415	115	32	240

Dimensions in mm

		Price Each
Mftrs. Part No.	Order Code	1+
153-2+	630-408	3.83
153-2+	830-800	5.69
153-3+	830-811	7.04

#### **Slotted Screwdriver 186 Series Extra Long Blades**



241275





Slotted Screwdrivers according to DIN5262 with extra long blade and red, transparent square handle. The blade is through hardened and nickel-plated. Series includes extra long dimensions for screws in difficult to reach location.

Blade material:	Chrome vanadium molybdenum steel
Handle material:	Cellulose acetate (impact-proof and cadmium-free)

Mftrs. Part No.			Blade- $\Omega$			Square handle	
18630	3mm	300	3	385	85	22	50
18640	4mm	300	4	385	85	22	70
18650	5mm	300	5	395	95	24	100
18680	8mm	300	7	415	115	32	190

Dimensions	in	mm	
------------	----	----	--

		£10000
Mftrs. Part No.	Order Code	Price Each 1+
18630 18640 18650 18680	108-708 108-709 108-710 108-711	2.91 3.33 6.29 9.83

#### **Holding Screwdriver 390 Series**





Holding screwdriver with red transparent square handle. Blade through hardened and nickel-plated.

Blade material: Chrome vanadium steel

Handle material: Cellulose acetate (impact-proof and cadmium-free)

							worgill
Mftrs. Part No.	Tip size	Blade length	Tip strength	Total length	Handle length	Handle $\varnothing$	(g)
390-3.5	3.5	125	0,6	220	95	24	78
390-5.5	5.5	125	0,6	220	95	24	78
Dimensions in m	ım						

				211200
			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
390-3.5	831-049	11.13	10.20	9.27
390-5.5	831-050	10.36	9.49	8.58

#### Offset Double End PH Driver, 161 Series



241230



Offset Double End Driver PH according to DIN 5208 with black plastic handle, through hardened and chrome-plated.

Blade material:	Chrome vanadium molybdenum steel
Handle material:	ABS plastic (impact-proof and cadmium-free)

	Weight
Blade∅	(g)
5,5	27
8,0	76
	5,5

Dimensions in mm

					241297
				Price Each	ı
N	lftrs. Part No.	Order Code	1+	5+	10+
1	61-1+2	831-153	3.50	3.21	2.92
1	62-2+3	831-165	5.39	4.94	4.47

#### Offset Double End PZ Driver, 224 Series







Offset Double End Slot Driver Pozidriv with red plastic handle. Blades through hardened, black finish.

Blade material: Chrome vanadium molybdenum steel Handle material: ABS-plastic (impact-proof and cadmium-free)

Тур	PZ size	Total length	Short journal	BladeØ	Weight (g)
224-1+2	Pozidrive No 1 + No 2	125	14.5	5.5	27

Dimensions in mm

Blade material:

207-8.0

				24	41475
			Price Each		
Mftrs. Part No.	Order Code	1+	5+	10+	
224-1+2	831-219	4.18	3.84	3.50	

#### Offest Double End Slot Driver 207 Series





Offset Double End Slot Driver with black plastic handle. Blades through hardened and chrome-plated. Chrome vanadium molybdenum steel

Handle material:	ABS-plastic (impact-proof and cadmium-freei)						
						Weight	
Mftrs. Part No.	Tip size	Total length	Short side	Blade strength	Blade ∅	(g)	
207-3.5	3.5	90	8,5	0,6	3,5	12	
207-4.0	4.0	100	9,0	0,8	4,0	0.1	
207-5.5	5.5	125	10.5	1.0	5.5	32	
207 6 5	6.5	125	12.5	1 2	6.5	0.04	







#### Offest Double End Slot Driver 207 Series - continued

Dimensions in mm

				241219
Mftrs. Part No.	Order Code	1+	Price Each 5+	10+
207-3.5 207-4.0 207-5.5 207-6.5 207-8.0	831-074 108-701 831-086 108-702 108-703	2.94 4.54 3.41 6.18 7.12	2.72  3.13 	2.47  2.83 

#### SYSTEM 6

With Ergonomic Handles and Colour Coded Blades





- Flexible & versatile industial quality tools
- Ergonomic handles for almost every application
- Colour-coded blades made of high-quality, tough-but-flexible chrome-vanadium-molybdenum steel, through-hardened, chrome-plated
- The new SoftFinish® telescopic handle with click-stop ball clamping for a secure hold and rapid blade change.

	Mftrs. List No.	Hex Retainer	Length	Width max.	Order Code	Price Each
SYSTEM 6 Handles						
SoftFinish-telescopic Handle	284	6mm	115mm	36mm	120-0625	6.65
Topra Ratchet*	282	6mm	100mm	85mm	282-170	25.94
* for System 6 reversible blades und 1/4" bits						

Blade Blade Order Code Price Each Tip 1 Tip 2 Length SYSTEM 6 Reversible Blades SLOT 3.5 SLOT 4.5 150mm 6mm 120-0626 150mm 120-0627 3.04 **SLOT 5.5 SLOT 6.5** 150mm 6mm 120-0629 3.04 2.77 150mm 6mm 2.77 SLOT 6.0 PH2 150mm 6mm 120-0632 3.04 SLOT 6.5 PH3 150mm 6mm 120-0633 3.04 PH1 PH2 150mm 6mm 120-0634 3.04 PH3 150mm 6mm 120-0635 3.04 2.77 PZ2 150mm 6mm 120-0636 2.77 PZ3 150mm 6mm 120-0637 3.04 2.77 HEX 2.5 Hex Ball End 2.5 120-0638 3.04 150mm 6mm 2.77 HEX 3.0 Hex Ball End 3.0 150mm 6mm 120-0639 3.04 HEX 4.0 Hex Ball End 4.0 150mm 6mm 120-0640 3.04 2.77 HEX 5.0 Hex Ball End 5.0 150mm 6mm 120-0642 3.04 2.77 150mm 6mm 120-0643 3.05 150mm 6mm 120-0644 T 15 T 10 150mm 6mm 120-0645 3.33 3.05 T 20 T 25 150mm 6mm 120-0646 3.33 3.05 T 40 T 30 150mm 6mm 120-0647 3.33 3.05 TW 1 150mm 6mm 120-0648 3.32 TW 2 TW 3 150mm 6mm 120-0649 3 62 3.32 TW 4 150mm 6mm 120-0650 3.62 SYSTEM 6 Bit Holders / Adapters Bit holder - suitable for C 6.3 and E 6.3 (1/4") bits 164mm 6mm 120-0651 6.18 5.68 Adapter blade - suitable for 1/4" square nuts 164mm 6mm 5.04 120-0652 5.50 Extension blade for reversible blades 166mm 6mm 120-0654 5.50 5.04

#### System 6 Starter Kits 6 Piece







- Through hardened and chromeplated high-quality chrome-vanadium-molybdenum-steel
- Colour-coded Wiha ChromTop® tips
- Delivered with:

SYSTEM 6 SoftFinish®-telescopic handle (120-0655) SYSTEM 6 SoftFinish® ESD handle (120-0656) SYSTEM 6 magnetic handle (120-0657)

In durable canvas pouch with Velcro fastening for practical storage

Kombiklingen:		
		3.5 - 4.5; 4.0 - 6.0; 5.5 - 6.5
•	<b>+</b>	PH1 - PH2
		5 - 5

434970

Mftrs. List No.	Order Code	<b>Price Each</b> 1+ 5+ 10				
281 T6 284 ESD T6 01	120-0655 155-2694	21.26 23.95	19.48 22.75	17.99 21.55		
481 T6	120-0657	17.52	16.95	16.42		

### System 6 Set

12 Piece









Clearly arranged blades Additional blades can be added

hairdryers, kettles ...)

screws

Robust folding bag, space-saving

in narrow, recessed areas

SoftFinish handle for dry and general purposes

Tri-Wing®, Torq-Set®, TORX®TR Locking screws are used for

Blade diameter reduced, so that it is also possible to operate screws

electrical equipment (games consoles,

Ideal tool set for technicians

31.15

Contents:

4 Tri-Wing® blades: TW1, TW2, TW3, TW4 2 Torg-Set blades: TS6, TS8

5 TORX® TR blades: TR10, TR15, TR20, TR25, TR30

28.92

25.57

Weight: 500 g

Mftrs. List No.

U 110 T12

241505 **Price Each** Order Code 1+ 10 +

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#### System 6 - Reversible Blade Screwdriver Set 11 Pieces





Content:	
P	6,0x100
0	4,0 - 6,0; 5,5 - 6,5
<b>(</b>	PH1 - PH2
	PZ1 - PZ2
0	T10 - T15 T20 - T25 T30 - T40
	4 - 4 5 - 5 6 - 6

- Slotted/ Phillips/ Pozidriv/ TORX®/ Hex/ Ball Hex
- Chrome vanadium molybdenum steel, through hardened, chrome-plated
- Wiha ChromTop-Blade tip for best quality
- SYSTEM 6 Topra handle Ratchet
- Supplied in a robust metal box

				4	113196
			Price Each		
Mftrs. Part No.	Order Code	1+	5+	10+	
282B 11-1	978-7720	55.73	52.94	50.15	

#### 'T' Handle, 6mm Hex Blades



Overall length = 110

A roller ratchet 'T' handle for use with Wiha and other manufacturers 6mm Hex screwdriver blades.



The roller ratchet has three working positions, forward, locked and reverse, it is smooth and quiet in operation. The handle is very strong being virtually solid engineering plastic. The handle fits comfortably in the hand allowing considerable torque to be applied to the screwdriver blade.

				TEE185X,401796		
	Price Each					
Order Code	1+	+	+	+		
282-170	25.94					

#### **Xcelite Compact Convertible**





- 'Piggy Back' torque amplifier handle that slips over the top of the colour codedmidget drivers to provide larger gripping surface, extended reach and increased driving power Set is housed in a rigid flip-open transparent case

0	Length	Tip width	Di a Dichica de la	Length	Tip width
Green slotted driver	89mm	2.38mm	Blue Phillips driver	89mm	No. 0
Red slotted driver	89mm	3.18mm	Brown Phillips driver	89mm	No. 1
Black slotted driver	89mm	3.96mm	Amber Phillips driver	89mm	No. 2
Orange slotted driver	89mm	4.76mm	Black torque amplifier handle		
Amber slotted driver	89mm	6.35mm			

		222131
Mftrs. List No.	Order Code	Price Per Set
PS88V	441-491	28.50
1 000 V	771-431	20.00

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#### **Metric/Imperial Sets**

#### **Xcelite Compact Convertible**





- Two sets, nine piece metric and nine piece imperial supplied in a flip-open transparent case
- The sets include a 'piggy back' torque amplifier handle

Contents			Blade	Width Acros	s Flats
Description	Metric	Imperial	Length	Metric	Imperial
Allen hex socket driver	P78	P18	90mm	0.89mm	0.028"
Allen hex socket driver	P71	P19	90mm	1.27mm	0.035"
Allen hex socket driver	P72	P20	90mm	1.50mm	0.05"
Allen hex socket driver	P73	P21	90mm	2.0mm	1/16"
Allen hex socket driver	P74	P22	90mm	2.5mm	5/64"
Allen hex socket driver	P75	P23	90mm	3.0mm	3/32"
Allen hex socket driver	P76	P764	90mm	4.0mm	7/64"
Allen hex socket driver	P77	P24	90mm	5.0mm	1/8"
Torque amplifier handle	TA-2	TA-2	90mm	_	_

	Mftrs. List No.	Order Code	Price Each 1+
Metric	PS90MM	442-290	27.08
Imperial	PS89V	442-306	27.36

#### **Compact Convertible Nutdrivers**

### **Xcelite**



Compact convertible nutdriver sets, include a range of miniature drivers together with slip on 'torque amplifier' handle, which provides a larger gripping surface and extended reach.

#### Model PS120 hex AFin

#### Contents:-

Torque amplifier handle

One each of the following nutdrivers:

P3 - 3/32", P4 - 1/8", P5 - 3/32", P6 - 3/16", P7 - 7/32" P8 - 1/4", P9 - 9/32", P10 - 5/16", P11 - 11/32", P12 - 3/8"

		Price	Per Set	
Order Code	1+	4+	20+	40+
442-380	32.40	31.43	30.49	29.57

#### Model PS121MM hex AF Metric

#### Contents:-

Torque amplifier handle

One each of the following nutdrivers:

P3MM - 3mm, P3.5MM - 3.5mm, P4MM - 4mm, P4.5MM - 4mm, P5MM - 5mm P5.5MM - 5.5mm, P6MM - 6mm, P7MM - 7mm, P8MM - 8mm, P10MM - 10mm

				486877
		Price	Per Set	
Order Code	1+	4+	20+	40+
442-379	40.05	38.85	37.68	36.55

#### Screwdriver Service Set 99PS-41MM



Compact. interchangeable blade, hex socket metric screwdrivers. A 9-piece kit comprising 7 metric across flat keys together with a handle and a 101mm extension. Working lengths of tools 101mm.

**Xcelite** 

#### Contents:-

- Regular handle, 99-1
- ●One extension blade, 99-X5
- One each of the following hex type screwdrivers:







#### Screwdriver Service Set - continued

99PS-41MM - continued

99-71MM - 1.27mm, 99-72MM - 1.5mm, 99-73MM - 2mm, 99-74MM - 2.5mm,

99-75MM - 3mm, 99-76MM - 4mm, 99-77MM - 5mm

				10100
		Price	Per Set	
Order Code	1+	4+	20+	40+
442-318	43.61	42.29	41.03	38.97

COOPER

#### Screwdriver/Nutdriver Set

Xcelite Series 99



Thirteen-piece set, in stand up plastic see-through cover.

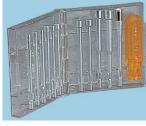
		Blade	across
Contents	Description	Length	flats
99-6V	Nutdriver blade	92mm	4.76mm opening
99-7V	Nutdriver blade	92mm	5.56mm opening
99-8V	Nutdriver blade	92mm	6.35mm opening
99-9V	Nutdriver blade	92mm	7014mm opening
99-10V	Nutdriver blade	92mm	7.94mm opening
99-11V	Nutdriver blade	92mm	8.73mm opening
99-12V	Nutdriver blade	92mm	9.53mm opening
99-811V	Slotted screwdriver blade	98mm	4.76mm tip width
99-250V	Slotted screwdriver blade	98mm	6.35mm tip width
99-821	Phillips screwdriver blade	102mm	No. 1 point size
99-822	Phillips screwdriver blade	102mm	No. 2 point size
99-X5V	Extension shaft	102mm	_ '
99-1V	Regular handle	102mm	_

Note: Case subject to design change

		2	_
Mftrs. List No.	Order Code	Price Per Set 1+	
99PS50	441-508	49.50	

#### Screwdriver Service Set

99PS-51MM Compact Interchangeable Shank Metric Nutdrivers



Twelve-piece set comprising 10 of the most frequently used metric sizes. Complete with a regular handle and extension piece. In fitted see-through plastic case. Working length of tools 92mm.

Width

- ●Regular handle, 99-1
- One extension blade, 99-X5

● One each of the following nutdrivers: 99-4MM - 4mm, 99-4.5MM - 4.5mm, 99-5MM - 5mm, 99-5.5MM - 5.5mm, 99-6MM - 6mm 99-7MM - 7mm, 99-8MM - 8mm, 99-9MM - 9mm, 99-10MM - 10mm, 99-11MM - 11mm

		Price	Per Set		
Order Code	1+	4+	20+	40+	
442-392	54.90	53.25	51.66	50.11	

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#### **Screwdriver and Nutdriver Set** Xcelite Series 99®



- 12 piece screwdriver and nutdriver set
- Designed for use with cordless rechargeable screwdriv-
- Contains 7 nutdrivers, 4 screwdrivers and a power
- Spring collar connection on power adaptor
- Supplied in plastic wallet

Contents:	Nutdrivers	6,7,8,9,10,11,12	Phillips screwdi
	Slotted screwdrivers	4.76mm, 6.35mm	Power adaptor
	Stotled screwarivers	4./611111, 6.3511111	Power adaptor

lriver No.1, No.2 222835

Mftrs.		Price Per Set
List No.	Order Code	1+
99-PA50	628-402	23.00

#### 99 Series Interchangeable Driver System





Interchangeable blades, shanks and handles are available seperately, allowing the econommical selection of individual items without having to purchase complete sets.

					Price Eac	h
	Descrip	tion Model	Order Code	1+	4+	20+
Regular 99-1 <b>441-521</b> 3.87 3.75 3.	Regular	99-1	441-521	3.87	3.75	3.64
Tee 99-4 <b>441-533</b> 5.13 4.98 4.	Tee	99-4	441-533	5.13	4.98	4.83
Tee ratchet 99-4-R <b>441-557</b> 24.30 23.57 22.	Tee rato	het 99-4-R	441-557	24.30	23.57	22.86

## Screwdriver Blades - Ballpoint Hexagon Socket Type

#### Metric

**Xcelite** 

				Price Each	
Model	Size	Order Code	1+	4+	20+
99-74	2.5mm	441-946	5.22	5.06	4.91
99-75	3.0mm	441-958	5.22	5.06	4.91
99.76	4.0mm	441-960	5.22	5.06	4.91

#### **Hexagon Socket Type**

AF

				Price Each	
Model	Size	Order Code	1+	4+	20+
9920	0.05"	441-661	3.20	3.10	3.01
9921BP	1/16"	441-831	5.54	5.37	5.21
9922BP	5/64"	441-843	5.54	5.37	5.21
9923BP	3/32"	441-855	5.54	5.37	5.21
99764BP	7/64"	441-867	5.49	5.33	5.17
9924BP	1/8"	441-879	5.54	5.37	5.21
99964BP	9/64"	441-880	5.49	5.33	5.17
9925BP	5/32"	441-892	5.54	5.37	5.21
9926BP	3/16"	441-909	5.54	5.37	5.21

#### **Hexagon Socket Type**

#### Metric

				Price Each	
Model	Size	Order Code	1+	4+	20+
9920	0.05"		3.20	3.10	3.01
9972	1.5mm	441-764	4.10	3.98	3.86
9973	2mm	441-776	4.10	3.98	3.86
9974	2.5mm	441-788	4.10	3.98	3.86
9975	3mm	441-790	4.10	3.98	3.86
9976	4mm	441-806	4.10	3.98	3.86
9977	5mm	441-818	4.10	3.98	3.86



#### **Hexagon Socket Type**

				Price Each	
Model	Size	Order Code	1+	4+	20+
9920	0.05"	441-661	3.20	3.10	3.01
9921	1/16"	441-673	3.20	3.10	3.01
9922	0.078125"	441-685	3.20	3.10	3.01
9923	5/64"	441-697	3.20	3.10	3.01
99764	7/64"	441-703	3.20	3.10	3.01
9924	1/8"	441-715	3.20	3.10	3.01
9926	3/16"	441-740	3.20	3.10	3.01

#### **Nutdrivers**

#### Metric

				Price Each	
Model	Size	Order Code	1+	4+	20+
994	4mm	442-136	4.10	3.98	3.86
995	5mm	442-150	4.10	3.98	3.86
995.5	5.5mm	442-161	4.10	3.98	3.86
996	6mm	442-173	4.10	3.98	3.86
997	7mm	442-185	4.10	3.98	3.86
998	8mm	442-197	4.10	3.98	3.86
999	9mm	442-203	5.00	4.85	4.70
	10mm	442-215	5.00	4.85	4.70

#### **Extensions**

					485	5409
Model	Extends by	Order Code	1+	Price Each	20+	
99-X5	100mm	442-239	5.04	4.89	4.74	
99-X10	175mm	442-240	5.49	5.33	5.17	

#### Kraftform Kompakt® 60

17 pieces set



- Suitable for manual or machine drive
- High-quality assembly tools for screws
- Pouch with 89 mm long bits

Content:		
Each	•	PH1; PH 2; PH 3
Each		PZ 1; PZ 2; PZ 3
Each	0	TX 10; TX 15; TX 20; TX 25; TX 30
Each		1.0 x 5.5
Each	0	SW 3; SW 4; SW 5; SW 6
1 Kraftform bitholdin	ig screwdriver 816 R w	rith Rapidaptor quick release chuck

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≼%>Werα

			Price Eac	h
Type	Order Code	1+	5+	10+
KRAFTFORM KOMPAKT 60	762-1205	44.39	40.36	37.00

#### Kraftform Kompakt® 61

17 pieces set



- Suitable for manual or machine drive
- High-quality assembly tools for screws Pouch with 89 mm long bits

Content:		
Each	<b>(</b> )	TX 10; TX 15; TX 20; TX 25; TX 30
Each	•	#6; #8; #10
Each	€	#1; #2; #3; #4
Each	•	#4; #6; #8; #10
1 Kraftform bitholdir	ng screwdriver 816 R w	ith Rapidaptor quick release chuck

#### Price Each 5+ Order Code KRAFTFORM KOMPAKT 61 762-1213 44.01 40.00 36.68

#### Screwdriver- and Bit-Set 14 pieces



- Applicable for switch cabinet buildings
- With 90 mm bits for reaching lower-lying screws in switch cabinet systems, fuse boxes and terminal blocks
- CentroFix quick release holder, style E6.3 Bit holder with SoftFinish handle
- Practical, space-saving roll-up bag for the workbench and on the road

	Bits, style E6,3:				
PH1, PH2 Xeno-Bit, slotted/Philips For terminal screws					
	PZ1, PZ2 Xeno-Bit, slotted/Pozidriv For terminal screws				
•	PH1, PH2				
<b>***</b>	PZ1, PZ2				
0	T10, T15, T20; T25				

		Price Each		
Mftrs. List. No.	Order Code	1+	5+	10+
79187 T01	162-9861	54.90	52.15	49.40

#### 46 Piece Ratchet Screwdriver/Socket Set





- Screwdriver style driver with a hi-torque reversible ratchet
- Magnetised shaft holds bits
- Cushion grip with internal bits storage
- 12 chrome plated alloy steel 1/4" sockets on 2 removable plastic clips
- 32 high grade bits with rust resistant finish on 4 removable plastic clips

- Reversible ratchet screwdriver
- Metric sockets: 6, 7, 8, 10, 11, 12mm A/F sockets:  $^3$ /16,  $^1$ /4,  $^5$ /16,  $^1$ /32,  $^3$ /8,  $^7$ /16"
- Slotted bits: 3, 4, 4.5, 5, 6, 7, 8, 9mm
- Phillips bits: PH0, PH1, PH2, PH3
- Pozidriv bits: PZ0, PZ1, PZ2, PZ3
- Tamperproof torx bits: T8, T10, T15, T20, T25, T27, T30, T40
- Hexagon bits: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6mm
- 1/4" square drive adaptor

		419497, 422837
Mftrs. list no. T4826D	Order code 109-8818	Price each 25.60

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#### 29 Piece Articulated Ratchet Set





- A compact set containing the most popular sizes of 1/4" drive sockets and bits
- Articulated ratchet allows access where conventional drivers cannot reach
- High torque joint adjustable from 45° to 90°
- Right and left hand action Cushioned comfort handle with storage space for bits
- Hex drive shaft magnetised to hold bits securely

- Reversible ratchet screwdriver
- Sockets: 5.5, 6, 7, 8, 9, 10, 12mm Slotted bits: 4, 5, 6, 7.2mm
- Phillips bits: PH1, PH2, PH3
- Pozidriv bits: PZ1, PZ2, PZ3
- Tamperproof torx bits: T15, T20, T25, T27, T30
- Hexagon bits: 4, 5, 6, 7mm
- Bit holder

419496, 422836

Mftrs.	Order code	Price
list no. T4818S	109-8817	<b>each</b> 19.85

#### **Offset Ratchet Set**



**Xcelite** 



- All purpose 5 piece midget reversible ratchet offset screwdriver set
- Simple to use in all kinds of assembly adjustment and repair work involving Phillips and slotted screws

#### Contents

Slotted screw bits 4.76mm (XL25), 6.35mm (XL17). Phillips screw bits No. 1 (XL20), No. 2 (XL21). 95mm Reversible ratchet arm (XL27) All driver bits 6.35mm hex shank





Mftrs. List No. Order Code XL75 441-478	<b>Price per Set</b> 1+ 18.63
---	-------------------------------------

#### **Offset Ratchet Set**





Contents:

Slotted screw bits 6.35m, 4.76mm Allen hex type screw bits (width across flats) 1.27mm, 1.98mm, 2.38mm, 1.54mm, 3.17mm, 3.57mm, 3.97mm, 4.76mm, 5.56mm, 6mm, 7.94mm

Phillips bits No 1, No 2, 95mm Reversible ratchet arm. 150mm Spinner extension (25mm x 76mm handle, 76mm shaft). 6.35mm hex to 6.35mm square adap-



222748

#### Mftrs. List No. Price Per Set Order Code XL70 66.78

#### 14-in-1Stubby Ratchet Screwdriver

### **DURATOOL**

- Stubby ratchet screwdriver
- 3 Settings forward, reverse and fixed Supplied with 7 x 32mm long double ended bits
- Phillips, slotted, torx, hex and square combination bits
- Overall length: 120mm

Bit Combinations:

PH1 - SL3, PH2 - SL5, PH3 - SL6, T15 - T20, T25 - T30, H4 - H5, S1 - S2 (square)

482148.464816

	Price Each			
Order Code	1+	5+	10+	20+
144-7587	5.35	4.71	4.11	3.34

#### 14-in-1 Ratchet Stubby Screwdriver

### **DURATOOL**



- High torque ratchet screwdriver handle
- Can be angled up to 60°
- Precision 3 setting ratchet function
- Screwdriver bits fit comfortably in the handle
- 6 x sockets 6, 8, 9, 10, 12, 13mm
- 1 x socket adaptor
- 6 x screwdriver bits: Slotted: 3/16", 9/32", Phillips: PH1, 2
- Torx: T15, 20
- Length: 120mm

	482920.43518
Drice Each	

	Price Each					
Order Code	1+	5+	10+	50+		
139-0404	3.14	2.95	2.71	2.45		

#### 6-in-1 Gearless Angled Ratchet Screwdriver





- High torque ratchet screwdriver handle
- Fixed angle at 60°
- Operates with friction rather than teeth for a smoother, non-stepping action
- Forward and reverse settings
- Screwdriver bits store easily in the handle
- Comfortable, ergonomic rubber grip
- 6 x screwdriver bits:

Slotted: ¾16", ¼, Phillips: PH1,PH2, Torx: T15, T20

Overall length: 195mm

				481956.435199			
	Price Each						
Order Code	1+	5+	10+	50+			
144-7390	4.56	4.29	4.05	3.64			

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#### **Gearless Ratchet Screwdrivers**

### **DURATOOL**



- Gearless ratchet screwdrivers for confident driving
- Operates with friction rather than teeth for a smoother, non-stepping action
- Forward and reverse settings
- Available as long shaft or stubby versions
- 6 x screwdriver bits:

  - Slotted: 5, 6mm Phillips: PH1, 2 Pozidriv: PZ1, 2
- Length: 300mm (Long Shaft), 110mm (Stubby)

		Price Each				
Description	Order Code	1+	5+	10+	50+	
Long Shaft Screwdriver	133-6739	4.25	4.02	3.78	3.42	
Stubby Screwdriver	133-6740	3.82	3.57	3.18	2.99	

#### 40 Piece GearDriver™ Set

#### GEARWRENCH



Package Case Contains:

- GearDriverTM Handle, Stubby GearDriverTM Handle and T- Handle
- 2 Pc. Magnetic Bit Driver Shafts 3-1/2" and 6" 2 Pc. Driver Shafts 3-1/2" and 6" 180° Cable Drive Flex Shaft, 1/4" Drive Adap-
- ter, 180° Cable Driver Flexible Shaft

Mftrs.		Price Each			
List No.	Order Code	1+	5+	10+	
8940	164-7971	51.70	49.63	47.56	

#### 39 Piece GearDriver™ Set

### GEARWRENCH



Package Case Contains:

- GearDriver™ Handle
- 7 Shafts:
- Magnetic Bit (3-1/2", 6" and 10")
- 1/4" Socket (3-1/2", 6" and 10")
- 6" Flexible Shaft
- 30 Piece Bit Set:
- (8 Torx, 12 Hex, 4 Phillips, 6 - Slotted)

524	4	4	

BRITOOL

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
8939	164-7972	35.45	34.05	32.60

#### **Screwdrivers Gearless Ratcheting Screwdrivers**







All feature a gearless ratcheting mechanism. Fewer moving parts & the absence of teeth results in a stronger mechanism & eliminates slipping. Each screwdriver comes complete with the following 6 bits in a holder: Slotted 4, 6.5mm, Pozidriv #1& 2, Phillips #1 & 2.

		Price Each				
Length (mm)	Type	Order Code	1+	5+	10+	20+
225	Standard	141-8799	7.13	6.99	6.84	6.71
115	Stubby	141-8800	8.02	7.86	7.71	7.55
310	Long reach	141-8801	8.03	7.87	7.71	7.56

#### **Stepless Ratchet**





- T4921S
- Cam-Drive stepless ratchet driver, with smooth positive action
- Operates with friction rather than teeth and eliminates the need to go onto the next tooth when tightening up
- 1/4" hexagon drive magnetic bit holder has Hi-Torque capability C Driver supplied with 8
- Reversible chunky handle with bit storage offers an easy one-hand, drive-direction adiustment
- T4921
- Cam-Drive stepless ratchet driver as 4921S above but with extra long 190mm blade
- Supplied without bits
- T4920
- Cam-Drive stepless ratchet driver with stubby handle and short blade
- Supplied without bits

Blade	Handle	Overall	Mftrs, List No.	Order Code
45	65	110	T4920	709-9228
190	120	310	T4921 190	709-9230
100	120	220	T4921 100	709-9241

225205

Order Code	Price Each 1+
709-9228	13.40
709-9230	12.63
709-9241	13.04

#### Ratchet

#### Magnetic







H=230 Dia.=35

- High Torque reversible ratchet screwdriver
- Magnetic shaft holds steel screws to bit for ease of positioning
- Easy to adjust reversing collar Magazine in handle stores 9 spare bits
- Supplied with POZI 0, 1, 2 Slotted 3, 4.7, 6.3mm and Hexagon 3, 4, 5mm

STANLEY

	Price Each
Order Code	1+
609-742	10.40

#### **Ratchet Screwdriver**



3 position audible ratcheting mechanism screwdriver. Tri-lobular

bi-material handle with textured finish for maximum torque with minimum effort. Magnetic bit holder for quick, secure change over of standard 1/4in bits. Supplied with 10 assorted bits.

				470100
	Price Each			
Order Code	1+	5+	10+	20+
135-3429	10.05	9.75	9.25	8.83

### 20 in 1 Screwdriver

#### With Telescopic Pick-up Tool



- Screwdriver complete with bits: Slot 4, 5, 6mm, Phillips No. 1, 2, 3, Pozi No. 1, 2, 3, Torx T15, T20, Hex 4, 6mm, 1/4" Sockets 4, 5, 6, 7, 8mm and Hex to 1/4" Drive adaptor
- Includes a telescopic magnetic pick-up tool

		LLLU
	Price Each	
Order Code	1+	
312-6857	5.40	

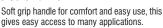






#### 10 Way Flexible Screwdriver

Contents:





Soft grip handle for comfort and easy use, this flexible shaft screwdriver

Set includes a range of popular size bits in Phillips, slotted and torx.

222907



Magnetic bit screwdriver, socket bit holder, socket adaptor Hex bits: Slot 3,4,5mm, Phillips No. 1,2,3, Security Hex 2,2.5,3,4,5,5.5,6 Security Torx T7, T8, T9, T10, T15, T20, T25, T30, T40

#### 109 Piece Professional Multi-bit Set

Security Square Drive No. 0,1,2,3



Contains 108 high grade S2 steel, detachable 1/4" bits with rust protected finish. Hardened and heat treated for maximum strength and durability. 14 different patterns - all the bits you will ever need. Complete with extensions and adaptors. Includes quick release multi-bit screwdriver with rubberised, soft grip handle.

Price Each

4	9	6	2

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Order Code	Price Each 1+
141-8802	39.93

### Kraftform Kompakt® 90 and 91

22 pieces set





Kraftform Kompakt® 90

Kraftform Kompakt® 91

Quick fastening and easy direction reversal with only one hand with the Kraftform Kompakt® Handy-Ratchet.

Content:			Content:				
Kraftform	Kompakt® 9	0, 22-pcs	Kraftform	Kraftform Kompakt® 91, 18-pcs			
Each	0	TX10; TX15; TX20 TX25; TX30; TX40	Each	0	TX15; TX20; TX25; TX30		
2 Bits 3 Bits			Each	0	PH1/25; PH2/25; PH3/25		
1 Bit PZ3/25		Each	P	SW3; SW4; SW5			
Each		PH1/25; PH2/25; PH3/25	ll .				
	V		Bits:	Bits:			
Each	Each 1,0x5,5; 1,2x6,5		Each		SW5,5; SW7; SW8; SW10; SW13		
Each SW3; SW4; SW5			1/4" Kraftform Kompakt® Handy-Ratchet with quick-release chuck				
1/4" Kraftform Kompakt® Handy-Ratchet with			1 Univers	1 Universal bit holder			
quick-release chuck			1 Adaptor	1 Adaptor			
1 Adaptor			Ι Αυαριοί				

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			Price Eac	h	
Description	Order Code	1+	3+	5+	
KRAFTFORM KOMPAKT 90	440-0884	65.23	59.29	54.36	

#### Kraftform Kompakt® 70 and 71

32 pieces set

482940.423840

**D** URATOOL





Kraftform Kompakt® 70

Kraftform Kompakt® 71

- Kraftform Kompakt® 70 ideal for all common applications in trade and industry
- Kraftform Kompakt® 71 ideal for all common applications in service and maintenance For both manual and machine operation
- Engineered to the highest quality for professional use

Packaged in unique, spacesaving format

477914

	Price Each			
Order Code	1+	5+	10+	20+
135-3420	10.05	9.75	9.25	9.07

#### 8 in 1 Screwdriver

#### **DURATOOL**



8 in 1 screwdriver with built in magnetic telescopic pick up tool Includes

1 x Magnetic pick up tool 2 x Slotted - 4 and 6mm

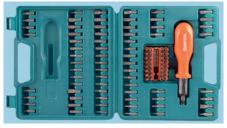
3 x Phillips - PH1, PH2 and PH3

2 x Pozi - PZ1 and PZ2

	Price Per Set				
Order Code	1+	5+	10+	20+	50+
136-7041	1.05	0.99	0.84	0.80	0.71

#### 105 Piece Screwdriver Bit Set

#### **DURATOOL**



A complete screwdriver bit set including a heavy-duty ratchet screwdriver with forward, reverse and fixed settings. All bits fit any 1/4" hex driver and most power screwdrivers. Kit contains following bits:

- Slotted 3/2", 7/64", 1/6", 9/64", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16"
   Phillips PHO, PH1, PH2, PH3, PH4, drywall PH2
- Star Drive 5, 5.5, 6, 7, 8, 9, 10, 15, 20, 25, 27, 30, 35, 40, 45, 50 Square Drive 0, 1, 2, 3 Hex SAE 1/16", 5%4", 3%2", 7%4", 1%", 9%4", 5%2", 3%6", 7%2", 1/4", 9%2", 5%6" Pozidriv PZO, PZ1, PZ2, PZ3, PZ4

- Hex 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 7, 8mm Clutch 1/8", 5/32", 3/16", 1/4", 7/32"
- Tamperproof Torx T8, T10, T15, T20, T25, T27, T30, T35, T40 Torx - 6, 8, 10mm
- Security Hex 5/32", %4", 1/6", 7/64", 3/32", 5/64", 2, 2.5, 3, 4, 5, 6mm Tri-Wing #1, #2, #3, #4
- Spanner 4, 6, 8, 10mm
- 25/16" magnetic extension bit holder
- 1/4" hex x 1/4" dr. socket adaptor

Price/Set Order Code 1+ 5+ 115-5996 13.91 12.64

### Screwdriver and Bits Set

29 Piece



Content:				
Kraftform H	(ompakt® 70:			
Each		3x PH1/25; 3x PH2/25; 3x PH3/25		
Each		3x PZ1/25; 3x PZ2/25; 3x PZ3/25		
Each	0	TX10; TX15; TX20 TX25; TX30; TX40		
Each	0	SW4; SW5; SW6		
Each 0,6x4,5; 1,0x5,5; 1,2x6,5				
1 Kraftform bitholding screwdriver with Rapidaptor quick release chuck				

	Conter	Content:						
1	Kraftfo	rm Kompa	kt® 71:					
;	Each	0	SW2;SW2,5; SW3; SW4; SW5; SW6					
	Each	•	#4; #6; #8; #10					
	Each	0	TX7; TX8; TX9; TX10; TX15; TX20; TX25; TX30; TX40					
+	Each	•	#6; #8; #10; #½"					
or	Each		#1; #2; #3					
	Each	0	#0; #1; #2; #3					
		form bithol elease chu	ding screwdriver with Rapidaptor					

al	bit holder	

		Price Each			
Description	Order Code	1+	3+	5+	
KRAFTFORM KOMPAKT 70	440-0860	37.42	37.42	37.42	
KRAFTFORM KOMPAKT 71	440-0872	56.50	56.50	56.50	

1 Universa

### Kraftform Kompakt® 50

With bayonet blade, 14 pcs

1 Universal bit holder



Kraftform Kompakt® 50





Handle with withdrawn blade

- The right tool for all users who place the greatest emphasis on versatility
- For both manual and machine operation Engineered to the highest quality for professional use
- Packaged in unique, spacesaving format

Content: Kraftform Kompakt® 50:				
Each		PZ1/25; PZ2/25		
Each	•	PH1/25; PH2/25		
Each		0,6x4,5; 1,0x5,5		
1 bayonet bit hold	der 817 R Kraftform v	vith quick-release chuck Rapidaptor		

278337

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			Price Eac	h	
Description	Order Code	1+	3+	5+	
KRAFTFORM KOMPAKT 50	440-0859	35.82	35.82	35.82	

#### Kraftform Kompakt® 30, 31 and 32

For every application the right range, 11 piece



Content:					
Kraftform Kompakt® 30:					
Each		PZ1/25; PZ2/25; PZ3/25			
Each		PH1/25; PH2/25; PH3/25			
Each		0,6x4,5; 1,0x5,5; 1,2x6,5			
1 bit holder 815/4/1 Kraftform with quick-release chuc					
1 Universal hit holder 895/4/1					

Kraftform Kompakt® 30



	Conten	Content:		
	Kraftfo	rm Komp	oakt® 31:	
	Each	0	TX10; TX15; TX20; TX25; TX30; TX40	
L	Each		PZ1/25; PZ2/25; PZ3/25	
9	1 bit holder 815/4/1 Kraftform with quick-release chuck			
4	1 Unive	ersal bit h	older 895/4/1	

Kraftform Kompakt® 31



Content:						
Kraftform I	Kraftform Kompakt® 32:					
Each		PZ1/25; PZ2/25; PZ3/25				
1 bit holder 815/4/1 Kraftform with quick-release chuck						
1 Universal	bit holder 89	95/4/1				

Kraftform Kompakt® 32

- Compact tools for both manual and power screwdriving
- For continuous operation in industry and handcraft
- With quick release adapter for electric, cordless and pneumatic screwdriver
- Strong magnet 1 bit holder 815/4/1 Kraftform with quick-release chuck, 1 Universal bit holder 895/4/1

		Price Each
Туре	Order Code	1+
KRAFTFORM KOMPAKT 30	440-0823	24.44

#### Kraftform Kompakt ®22 with pouch





- For 1/4" DIN 3126-C 6,3 und E 6,3 (ISO 1173) hexagon socket Opening mechanism supported by a
- spring
- Integrated magazin with 6 Bits
   Connector, bayonet, Rapidaptor rapid-in,

rapid-out, rapid-spin, chuck-all, and single-hand technology

Kraftform® handle with anti-roll protection, multi-component, integrated magazine



Content:		
1 x		PZ 1
2 x		PZ 2
Each	0	TX15; TX20; TX25;

413043

			Price Each	
Туре	Order Code	1+	5+	10+
KRAFTFORM KOMPAKT 22	967-3253	24.63	23.54	22.04

#### Kraftform Kompakt® 20 with nouch





spring Integrated magazine with 6 Bits

For 1/4" DIN 3126-C 6,3 and E 6,3 (ISO

Opening mechanism supported by a

Connector, bayonet, Rapidaptor rapid-in,

rapid-out, rapid-spin, chuck-all, and single-hand technology

Kraftform® handle with anti-roll protection, multi-component, integrated magazine

Content:		
Each	•	PH 1; PH 2
Each		1,0 x 5,5; 1,2 x 6,5
Each		PZ 1x25; PZ 2x25

			Price Each	
Туре	Order Code	1+	5+	10+
KRAFTFORM KOMPAKT 20	967-3245	24.63	23.54	22.04





08447 11 11 11

**Security Bits-Collector 27 Piece** Type 7928-928 For All Standard Locking Screws





- Universal, with universal holder ¼", magnetic and microfinish handle for
- screwing in locations where access is diffi-
- For all standard security screws

Contents: 1each:7015TZR8-10-15-20-25-27-30-40x25 7019 TS6-8-10x5 7019 TW1-2-3x25 7019 SP4.0-6.0-8.0-10.0x25 7013 TR 5/4"-3/32"7/62"1/6"9/64" 5-32"x25 7113 1/4", 281-2

2	4	1	3	4	

			Price Each	
Mftrs. List No.	Order Code	1+	5+	10+
09393	310-7267	42.25	38.70	33.74

#### 33 Piece Security Bit Set

#### **DURATOOL**



A 33 piece security bit set ideal for use with cordless screwdrivers and drills.

- Compact pocket sized bit box
- Supplied with 1 x 60mm bit holder
- Torq T8,T10,T15,T20,T25,T27,T30,T35,T40
- Hex bits:  $\frac{5}{64}$ ,  $\frac{3}{32}$ ,  $\frac{7}{64}$ ,  $\frac{1}{8}$ ,  $\frac{9}{64}$ ,  $\frac{5}{32}$ . Hex bits: 2,2.5,3,4,5,6mm
- Tri-Ling bits: #1,#2,#3,#4
- Spanner bits: .#4.#6.#8.#10
- Cross-head bits: #6,#8,#10
- Magnetic bit holder

		Prio	ce/Set		
Order Code	1+	5+	10+	20+	
134-1140	4.05	3.91	3.58	3.31	

#### **Hex Bit Set**



495504

461231.461186



- High grade alloy steel bits with rust resistant finish
- 1/4 " hex drive
- Held securely in a handy clip
- Length: 25 mm

Contents:

Hex: 1,5, 2, 2.5, 3, 4, 5, 5.5, 6mm

					10001	•
			Price	e Each		
Mftrs. List No.	Order Code	1+	5+	10+	20+	
T4524	151-8936	3.40	3.28	3.19	3.09	

#### **8 Piece Torx Bit Set**

#### **DURATOOL**



- An 8 piece tory bit set for use with screwdriver handles and portable screwdrivers with 1/4" hex drives
- Manufactured from chrome vanadium steel
- Bit lengths: 50mm
- Sizes included: T8, T10, T15, T20, T25, T27, T30 and T40

4820	)72.	453	112

			Price/Se	t	
Order Code	1+	5+	10+	20+	50+
144-7535	1.30	1.12	1.00	0.93	0.79

#### Help us to help the environment



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Please recycle after use.

#### **Torx Bit Set**



- High grade alloy steel bits with rust resistant finish
- 1/4 " hex drive
- Held securely in a handy clip

Length: 25 mm Contents

Torx: T8, T10, T15, T20, T25, T27, T30, T40

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T4523	151-8935	3.40	3.28	3.19	3.09

#### Screwdriver with Bit Magazine 8 different bits





162-8089

- Blade made of high grade chrome-vanadium steel, through
- Ergonomic Wiha SoftFinish® multi-component handle with roll-off protection
- Stainless steel bits with strong magnet According to DIN 3126, ISO 1173, style D 6.3 Bit length: 25 mm
- Alternative to a screwdriver set

Containe	d bits:
	6.5mm
	PH1; PH2; PH3
0	T15; T20; T25
	PZ2

518338

				Price Each	
	Mftrs. List No.	Order Code	1+	5+	10+
	38090101	162-8089	13.50	12.85	12.15

#### Hex Bit Driver, Flexible 1/4"I 386 Series







WIHA SoftFinish multi-component handle with roll-off protection. Suitable for: 1/4 DIN3126 FORM C 6,3.

Made from rust proof steel. Plastic coated flexible metal. For offset screws. Mftrs. Part No. - Tip Size Blade Length Total Length

Price Each Mftrs. Part No Order Code 10+

#### Hex Bit Driver, Magnetic 1/4 Zoll Type 385

386 - 1/4



250





9.03

Bit holder with red multi-component handle with roll-off protection. It is made from rust proof steel. Hex bolster for higher torque.

Blade material: Chrome Vanadium Steel

Handle material: Cellulose acetate (Impact resistant and cadmium-free)

Order Code

832-492

Mftrs Part No. 385	1/4"	Blade Length 120	Overall Length 200	Gewicht 134g
Dimensions in mm				
				24122
			Price Each	

Over 480,000 products online



10+





# Magnetizer/De-Magnetizer





- Pocket sized magnetizer/demagnetizer
- Magnetizes or demagnetizes most steel screwdrivers or other small tools
- Collects metal items from inaccessible places
- Allows easy and precise handling in confined spaces

4955	nα	41	ns	67
1000	00.	71	UU	

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T1350	151-8941	5.70	5.55	5.35	5.15

# Magnetiser/De-Magnetiser



A neat simple device to magnetise or de-magnetise screwdriver blades, tweezers, allen keys or similar tools made from

Supplied with instructions

H = 50, W = 52, D = 29

	40187
Order Code 150-2627	Price Each 1+ 4.33

# **Screw Remover**





- Removes damaged screws in seconds
- Works on all types of screws
- Pack contains 2 sizes for screws 6 -10 and 12 - 14mm
- To be used with reversible drill

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
422003	146-5984	9.10	8.85	8.55	8.20

# 5 Piece Screw Extractor Set





- Removes broken screws or bolts without damaging hole threads
- Manufactured from chrome vanadium steel
- Black oxide finished for durability
- Comes complete with plastic storage case
- Contains sizes: 3-6mm 1/8 1/4", 6-8mm 1/4" 5/16", 8-11mm 5/16" 7/16", 11-14mm 7/16" - 9/16" and 14-19mm 9/16" - 3/4"

					482080.461012
Order Code	1+	5+	Price/Set 10+	20+	50+
144-7442	2.85	2.52	2.22	1.95	1.73

# **Screwdrivers - Mains Testers**

# Mains Tester With Neon Indicator - (150-250V ac)





VDE approved

222741

Blade (mm)	Order Code	Price Each 1+
60 x 3	108-753	1.80
100 x 4	108-754	2.51

# Voltage Tester Type 255-8





Chrome Vanadium

Voltage tester 150-250V according to VDE 0680/6 und DIN 57680/6. Proofed Safety «GS»-Mark. With long slotted blade

Blade material: Blade insulation and handle:

Cellulose acetate, black

Tip Size Lenath Weight Blade Length Handle Length Handle ∅ Mftrs. Part No. 255-8 (g) 32 3.5 100 185 85 19

Dimensions in mm

241117

		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
255-8	831-591	6.22	5.72	5.16	

# VDE





- 220-250Vac VDE approved mainstester with pocket clip
- Blade manufactured from chrome vanadium steel
- One piece moulded blade and handle insulation for assured safety

					42284
Tip size 3mm 3.5mm	Blade length 65mm 100mm	Overall length 140mm 185mm	Mftrs. list no. 440007 440012	Order code 109-8821 151-8946	Price each 1.90 2.80





- 100-250Vac mainstester with pocket clip
- Blade manufactured from chrome vanadium steel

419502, 422840
Price

Tip Blade Overall size length length 3.5mm 55mm 140mm	Mftrs. <b>Order</b> list no. <b>code</b> 440005 <b>109-8820</b>	Price each 3.40
---	---	-----------------------

# Screwdriver



Multi-test screwdriver Multi-function mains tester screwdriver battery powered. Suitable for:-AC voltage test contact 70-250VAC

AC voltage test non-contact 70-600VAC Polarity test 1.5V-36VDC Continuity check 0.50MQ

Microwave leakage detection 5MW/CM<sup>2</sup>

Battery life 5 hours continuous operation. CE and GS approved.

	Price Each	
Order Code	1+	
151-0926	5.17	







# **Screwdrivers - Impact**

1/2" (12.7 mm)





- For loosening or tightening stubborn
- nuts, bolts or screws Supplied with a selection of screw-driver bits in a metal storage case

H=40, W=190, D=43

					TEE288X
Mftrs.			Price	Each	
List No.	Order Code	1+	4+	20+	40+
4928	629-947	15.95	15.45	15.00	14.35

# **Nutspinners**

# **Nut Driver Set**





6 piece nut driver set. Feature a rotating head which allows for greater control of the blade. Supplied in a plastic storage case.

		49	0956
Contents	Order Code	Price Each 1+	
3.2, 4.0, 5.0, 5.5mm 1/8, 3/16in AF	490-9562	47.94	



419479, 422823



- Chrome vanadium steel with injection moulded cellulose acetate handles
- Extra deep sockets to reach nuts through which bolts protrude
- Heavy duty comfort

Tip size 3mm 3.5mm 4mm 4.5mm 5.5mm 6mm	Blade length (mm) 130 130 130 130 130 130	Overall length (mm) 220 220 220 220 220 220 220 220	Mftrs. list no. T4334M 03 T4334M 045 T4334M 04 T4334M 05 T4334M 05 T4334M 05	Order code 109-8791 109-8793 109-8794 109-8795 109-8796 109-8797 109-8798	Price each 7.65 7.65 7.65 7.65 7.65 7.65 7.65
8mm	130	230	T4334M 08	109-8800	8.65
9mm	130	230	T4334M 09	109-8801	8.85
10mm	130	230	T4334M 10	109-8802	8.85
11mm	120	220	T4334M 11	109-8803	9.70
12mm	120	220	T4334M 12	109-8804	9.50
13mm	120	220	T4334M 13	109-8805	12.05

# **Hex Nutdriver Type 341 For Dry Applications**





- Wiha SoftFinish handle, DIN 3125
- Blade chrome vanadium molybdenum steel, chrome-plated
- Deep drawn socket





246084

				Price Eac	h
Mftrs. Part No.	Size x Blade Length	Order Code	1+	5+	10+
1020	5x125mm	310-6615	3.34	2.78	2.45
1021	5.5x125mm	310-6627	3.34	2.78	2.45
1022	6x125mm	310-6639	3.34	2.78	2.45
1023	7x125mm	310-6640	4.17	3.55	3.16
1024	8x125mm	310-6652	4.31	3.62	3.24
1026	10x125mm	310-6676	4.55	3.77	3.40
1028	12x125mm	310-6718	5.64	4.90	4.28
1029	13x125mm	310-6731	6.45	5.84	4.90

# **Nutdriver 336 Series** Imperial





Handle material:	ABS plastic (imp	pact-proof and cadmiur	n-free)	
Mftrs. Part No.	Tip Size	Blade length	Handle length	Weight (g)
336-53	3/16"	150		84
336-59	1/4"	150		82
336-65	5/16"	150		94
336-71	3/8"	150		96

Dimensions in mm

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
336-53	832-418	4.04	3.92	3.53
336-59	832-420	5.02	4.85	4.40
336-65	832-431	4.57	4.42	3.99
336-71	832-443	4.98	4.79	4.35

# 9 Piece Metric Ratcheting Nut Driver Set

GEARWRENCH

246093



Package Case Contains: GearDriver™ Stubby Handle 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm Nut Driver Shaft

524446

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
8909	164-7973	31.00	29.76	28.51

# **Hex Keys**

# **Short Hexagonal Ball Ended Keys**





- A range of high quality chrome vanadium steel, metric hexagonal keys
- Smaller metric sizes are precision ground Chamfered ball point head enables users to use at angles up to 25°

494556.472583

	Longest	Shortest	Pack			Price	Each	
Diameter	Length	Length	Size	Order Code	1+	5+	10+	20+
1.5mm	45mm	14mm	5	151-7780	0.87	0.82	0.78	0.75
2mm	50mm	16mm	5	151-7781	0.87	0.82	0.78	0.75
2.5mm	55mm	19mm	5	151-7782	0.87	0.82	0.78	0.75
3mm	63mm	21mm	5	151-7783	0.87	0.82	0.78	0.75
4mm	70mm	27mm	5	151-7784	1.16	1.10	1.05	1.01
4.5mm	70mm	29mm	1	151-7785	1.29	1.19	1.14	1.08





Diameter	Longest Length	Shortest Length	Pack Size	Order Code	1+	Price 5+	Each 10+	20+
5mm	81mm	31mm	1 1 1	151-7787	1.29	1.19	1.14	1.08
5.5mm	87mm	34mm		151-7789	1.35	1.27	1.19	1.13
6mm	92mm	36mm		151-7791	1.41	1.34	1.27	1.19
8mm	104mm	42mm	1	151-7792	1.61	1.51	1.44	1.37
10mm	116mm	48mm		151-7793	2.20	2.08	1.98	1.89

# **Long Ball Hex Keys**

# **DURATOOL**



A range of high quality chrome vanadiun steel, metric hexagonal keys

Chamfered ball point end on one side allows user to work at angles up tp 25°

								494559.472593
	Longest	Shortest	Pack			Price	Each	
Diameter	Length	Length	Size	Order Code	1+	5+	10+	20+
1.5mm	90mm	14mm	5	151-7794	1.10	1.04	0.99	0.97
2mm	100mm	16mm	5	151-7795	1.13	1.07	1.02	1.00
2.5mm	111mm	19mm	5	151-7796	1.17	1.10	1.05	1.02
3mm	125mm	21mm	5	151-7797	1.29	1.19	1.14	1.11
4mm	140mm	27mm	5	151-7798	1.66	1.55	1.48	1.44
4.5mm	152mm	29mm	1	151-7799	1.39	1.32	1.26	1.18
5mm	161mm	31mm	1	151-7800	1.45	1.38	1.32	1.24
5.5mm	170mm	34mm	1	151-7801	1.57	1.49	1.43	1.36
6mm	182mm	36mm	1	151-7802	1.64	1.54	1.48	1.41
8mm	202mm	42mm	1	151-7803	1.95	1.85	1.77	1.67
10	000	40	4	454 7004	0.04	0.50	0.40	0.00

# **Loose Keys and Bagged Sets**





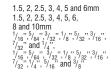
The sets are supplied as bagged loose keys

Dimensions are Across Flats (AF)

Metric 7 piece Metric 9 piece

Imperial 8 piece

Imperial 10 piece



	/32 , /4 , /16 👊	iu /8
		223245
Keys Order Multiple=1		Price Each
Imperial	Order Code	1+
•		
0.050" (1.27mm)	109-226	0.45
'/ <sub>16</sub> (1.59mm)	109-227 108-661	0.23 0.44
3/ 3/ (0.00)		0.44
1/ <sub>16</sub> " (1.59mm) 5/ <sub>64</sub> " (2mm) 3/ <sub>32</sub> " (2.38mm) 1/ <sub>8</sub> " (3.18mm) 5/ <sub>32</sub> " (3.97mm)	109-229 109-230	
<sup>1</sup> / <sub>8</sub> (3.18IIIIII) 5/ " (2.07mm)		0.23 0.53
3/ 2 (4.70)	109-231	0.37
<sup>3</sup> / <sub>16</sub> " (4.76mm)	100-638 100-639	0.37
7/ <sub>32</sub> " (5.56mm)	100-039	0.49 1+
Order Multiple=1	100.004	0.47
1/4" (6.35mm)	109-234 100-640	0.47
<sup>5</sup> / <sub>16</sub> " (7.94mm)	100-641	0.56
%" (9.53mm)	100-642	1.89
½" (12.7mm)	100-042	1.09
Order Multiple=1		
Metric		1+
1.27mm	109-226	0.45
1.5mm	108-660	0.44
2.0mm	108-661	0.44
2.5mm	108-662	0.44
3.0mm	108-663	0.44
4.0mm	108-664	0.52
5.0mm	100-675	0.28
6.0mm	100-671	0.37
Order Multiple=1		1+
8.0mm	100-672	0.56
10.0mm	100-673	1.03
12.0mm	109-248	2.26
14.0mm	100-674	3.20
Sets		1+
Metric 7 piece	109-232	4.36
Metric 9 piece	109-233	7.82
Imperial 8 piece	109-235	5.98
Imperial 10 piece	100-236	0.50

# **Hex Key Sets**



**DURATOOL** 

Metric and imperial hexagonal key sets manufactured from hardened and tempered chrome vanadium steel. Each set is supplied with a plastic holder for easy storage.

8 piece: 2, 2.5, 3, 3.5, 4, 5, 5.5 and 6mm 11 piece: 1.2, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, and 6mm

Imperial Sets 8 piece: 3/42, 7/64, 1/6, 5/64, 5/42, 3/16, 7/32, and 1/4" 11 piece: 0.05", 1/16, 5/64, 3/42, 7/64, 1/8, 5/64, 5/32, 3/16, 7/32, and 1/4"

494560	.47340
--------	--------

			Pric	e/Set	
Description	Order Code	1+	5+	10+	20+
8PC Metric	151-7805	2.12	1.79	1.66	1.55
8PC Imperial	151-7807	2.12	1.79	1.66	1.55
11PC Metric	151-7808	2.94	2.50	2.26	2.07
11PC Imperial	151-7809	2.94	2.50	2.26	2.07

# 3 - Way Handle Hex Key Sets





Metric hexagonal key sets manufactured from hardened and tempered steel. Each set is supplied with a plastic holder/handle for easy storage. The plastic handle can be fitted with individual keys to work as a 3 way handle this gives more torque for the user compared to conventional hexagonal

keys **Metric:** 2, 2.5, 3, 4, 5, 6, 8, and 10mm

494561 473420

**DURATOOL** 

			Pric	e/Set	
Description	Order Code	1+	5+	10+	20+
8PC Metric	151-7810	5.26	4.83	4.50	4.17

# **Hex Keys** 9 Piece Sets



- Hardened chrome vanadium steel, professional quality keys with a gun finish
- 9 piece sets supplied in a storage bracketLong or short series

Set sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm

				222910/40172
	Order Code	1+	Price Each +	+
Hex short series	312-6900	2.28		
Hex long series	312-6912	5.02		
Ball hex short series	312-6882	5.20		
Ball hex long series	312-6894	8.00		







# **Hex Keys - continued**

# **Ball End Hex Key Sets**

# **DURATOOL**



- Quality sets of Ball End Hex keys manufactured from hardened chrome vanadium steel
- 8 piece sets supplied in a unique multihandle case
- Contents: 2, 2.5, 3, 4, 5, 6, 8 and 10mm

222943/,401766

			Price Each	
	Order Code	1+	+	+
Ball Hex	312-7140	6.11		
Long Ball Hex	312-7102	6.56		

# 9 Piece Ball Ended Hex Key Sets





- A range of high quality chrome vanadium steel, metric hexagonal keys
- Chamfered ball point end on one side allows user to work at angles up to 25°
   Metric: 1.5, 2, 2.5, 3, 4, 5, 6, 8, and 10mm

Imperial: 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, and 3/8"

494562.473443

			Pric	e/Set	
Description	Order Code	1+	5+	10+	20+
9PC Metric 9PC Imperial	151-7812 151-7813	7.93 7.93	7.49 7.49	7.20 7.20	6.93 6.93

# 13 Piece Long Arm Ball Ended Hex Key Sets

# **DURATOOL**



- A range of high quality chrome vanadium steel, metric and imperial hexagonal keys
- Extra long arm for deep insertions of hex nuts or screws
- Chamfered ball point end on one side allows user to work at anales up to 25°

**Metric:** 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 5, 5.5, 6, 7, 8, and 10mm

Imperial: 0.05, ½16, 5/64, 3/32, 7/64, ½8, %4, 5/32, 3/16, 7/32, 1/4, 5/16, and 3/8"

494563.473445

			Pric	e/Set	
Description	Order Code	1+	5+	10+	20+
13PC Metric	151-7814	13.08	11.77	10.80	9.89
13PC Imperial	151-7815	13.08	11.77	10.80	9.89

# 6 Piece Metric Flexible Hex Key Set.

GEARWRENCH



Pouch Contains: 3mm, 4mm, 5mm, 6mm, 8mm, 10mm Flexible Hex Key

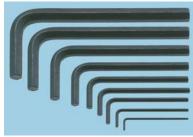
- 180 degree flex head
- Thinner profile vs traditional fold-ups
- Canvas pouch for compact storage
- Available in:
- Torx®Head Style
- Hex Head Style

524413

Mftrs.	Order		Price Each	1	
List No.	Code	1+	5+	10+	
82410	164-7965	51.70	49.63	47.56	

# Imperial/Metric Hexagon Key Sets





A/F Set, 10 Keys: 1/16", 5/64", 3/62", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", and 3/8" Metric Set, 9 Keys: 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10mm

2	2	3	3	3

≼",≥Wera

	Order Code	Price Each 1+
A/F sizes (set of 10)	105-605	7.95
Metric sizes (set of 9)	105-606	6.25

# Magnet Hex Key Set, BlackLaser®



- Hex Keys for hexagon socket screws, Hex-Plus, metric
- 7 pieces in two-component clip with magnetizer

Content: 1.5x90: 2.0x101: 2.5x112: 3.0x123: 4.0x137: 5.0x154; 6.0x172

475517

475522

			Price Each	
Туре	Order Code	1+	5+	10+
950 SPKL/7B SM	133-7755	16.34	14.85	13.62

# Hex Key Set, BlackLaser® Hex-Plus





Content : 1.5x90 (Regular hexagon); 2.0x100; 2.5x112; 3.0x126; 4.0x140; 5.0x160; 6.0x180; 8.0x200; 10.0x219

- 9 pieces in two-component clip
- Hex Keys for hexagon socket screws, Hex-Plus, metric

Price Eacl	h

			Price Each	
Type	Order Code	1+	5+	10+
950 PKL/9 BM N	133-7756	11.24	10.21	9.36

# **Ballpoint Hex L-Key Set Inch** Set With 13 Pieces In Holder ProStar







- Space saving ProStar allows the easy removal or each key without moving any others Especially for inch-sized screws that are difficult to access
- Chrome vanadium steel, through hardened, manganese-phosphated
- 13 Inch sizes for all common screw sizes

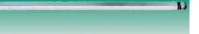
 $0,05,\frac{1}{16};\frac{5}{64};\frac{3}{32};\frac{7}{64};\frac{1}{8};\frac{9}{64};\frac{5}{32};\frac{3}{16};\frac{7}{32};\frac{1}{4};\frac{5}{16};\frac{1}{8};$ 

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
SB 369 SZ 13B	358-4598	17.55	16.10	15.16

# Ballpoint Hex L-Key Set in Holder 369 Series









Version in mm and inch available

Material: Chrome vanadium steel

369-H7 Mftrs Part No. Content: 7 pieces

7 Ballpoint Hex L-Keys

1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0mm

Weight: 135g

369-H9 Mftrs. Part No. Content: 9 pieces

9 Ballpoint Hex L-Keys

1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8; 10mm 420g

Weight: 369-HZ8 Mftrs. Part No. Content:

8 pieces 8 Ballpoint Hex L-Keys

5/64; 3/32; 1/8; 5/32; 3/16; 7/32; 1/4; 5/16 ZOII.

Weight:

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
369-H7	832-017	12.89	11.85	10.74
369-H9	832-029	13.39	12.25	11.01
369-HZ8	832-030	13.71	12.51	11.31

# Ballpoint Hex L-Key Set in ProStar With MagicRing, Type 369R S9, 9 pieces



241407





- Insert screws into or remove from boreholes, especially in areas that are difficult to access
- Space saving ProStar allows the easy removal of each key without moving any
- MagicRing made from Spring steel holds all standard screws tight at various angles (available from 3mm)
- The Ballpoint enables the user to work at angles up to 25°
- Surface chrome-plated

Sizes:1,5;2,5;3,4;5,6;8,10

			Price Per Set	
Mftrs. Part No.	Order Code	1+	5+	10+
369R S9	301-7977	18.73	16.81	15.14

# **Hex L-Key Set in ProStar** Wrench Key with MagicRing Type 352R S9, 9 pieces



246121



- Insert screws into or remove from boreholes, especially in areas that are difficult to ac-
- MagicRing made from spring steel holds all standard screws tight at various angles (available from 3mm)
- Blade nickel-plated

Size:1,5;2,5;3,4;5,6;8,10

		Price Each
Mftrs. Part No.	Order Code	1+
352RS9	301-7989	11.52

# Ballpoint Hex L Key Set in ProStar Type 369 S9, 9 pieces



- The ballpoint enables the user to work at angles up to 25°
- Space saving ProStar allows the easy removal of each key without moving any others
- Chrome vanadium steel, surface chrome-plated
- SW:1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0

246123

		Price	Per Set
Mftrs. Part No.	Order Code	1+	5+
369 S9	871-886	19.47	19.06

# Folding Ball End Hex Key Set



# **DURATOOL**

- Chamfered ball point end allows user to work at angles up to 25°
- Keys easily fold into case for easy storage
- Manufactured from hardened and tempered chrome vanadium steel
- Set contains 8 popular sizes Metric Set - 1.5, 2, 2.5, 3, 4, 5, 6 and 8mm

494564.473535

		Pric	e/Set	
Order Code	1+	5+	10+	20+
151-7816	3.64	3.43	3.14	2.95

# Mini Pocketstar Hex Fold Out Sets





- Practical fold out holder for mini keys so they not longer get lost Chrome vanadium steel, through hardened, electro-plated
- Ergonomic, reinforced fibreglass housing, 55mm long
- Particularly suitable for use with the smallest screws, e.g. when tightening screws or for the accurate setting of sensors
- Robust casing with eject button for simple and easy key selection
- Hanging loop with matching snap-hook
- With additional blades, 8 pieces

	978-7550	978-7569
	0,7; 0,9; 1,3; 1,5; 2,0	2,0
	1,5; 2,0	1,5; 2,0
	PH 00	PH 00
0		T4; T5; T6; T7

		Price Per Set		
Mftrs. Part No.	Order Code	1+	5+	10+
SB 351 PM8X	978-7550	10.32	9.80	9.29
SB 363 PM8X	978-7569	12.18	11.58	10.97







# **Hex Keys - continued**

# PocketStar Hex Key Fold Out Set Type 369 RP7 Ballpoint with MagicRing, 7 pieces







- MagicRing fixes screws in every position through spring steel ring
- Practical fold out holder
- Ergonomic, reinforced fibreglass housing, 95mm long
- Chrome vanadium steel, through hardened, electro-plated

Sizes: 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0

241361

		Price Each		
Mftrs.Part No.	Order Code	1+	5+	10+
369RP7	310-8028	13.57	11.93	10.57

# PocketStar Hex Key Fold Out Set In Large PocketStar Holder, 7 pieces





- Chrome vanadium steel, through hardened, electro-plated
- Ergonomic, reinforced fibreglass housing, 120mm long
- Practical fold out holder for hex screws in the workplace or on the job
- Robust casing with eject button for simple and easy key selection
  - Sizes: 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0

	Price Each					
Mftrs. Part No.	Order Code	1+	5+	10+		
351 PG7	310-8030	7.75	6.81	6.28		

# PocketStar Hex Key Fold Out Set In Small PocketStar, 7 pieces







- Chrome vanadium steel, through hardened, electro-plated
- Ergonomic, reinforced fibreglass housing, 95mm long
- Practical fold out holder for hex screws in the workplace or on the job
- Robust casing with eject button for simple and easy key selection

Sizes: 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0

24139

			P	rice Each	
M	ftrs. Part No.	Order Code	1+	5+	10+
35	1 PK7	310-8193	7.06	6.52	5.84

# **Ball Hex Driver 540 Series**





Ball Hex Driver with T-Handle. The blades are through hardened and nickel-plated.

							241490
						Price Each	1
M	ftrs. Part No.	Tip Size (mm)	Blade length (mm)	Order code	1+	5+	10+
54	10-4	4	150	848-700	2.91	2.60	2.38
54	10-5	5	150	848-712	3.76	3.43	3.21
54	40-6	6	150	848-724	4.60	4.18	3.75

# **Hex Driver 334 Series**





Hex driver with T-Handle. Blades through hardened and nickel-plated. For high torque transfer with low effort. Chrome vanadium steel

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nanule material.	Ado piastic (impact-proof and caumium-nee)				
Mftrs. Part No.	Tip Size	Blade length	Handle length	Weight (g)	
334-2.0	2.0	100	70	28	
334-2L	2.0	200	70	31	
334-2.5	2.5	100	70	30	
334-2.5L	2.5	200	70	35	
334-3.0	3.0	100	70	32	
334-3L	3.0	200	70	40	
334-4.0	4.0	100	70	38	
334-5.0	5.0	100	90	60	
334-5L	5.0	200	90	82	

Dimensions in mm

Blade material:

		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
334-2.0	832-108	1.93	1.79	1.59	
334-2L	832-110	2.62	2.37	2.17	
334-2.5	832-121	1.99	1.83	1.65	
334-2.5L	832-133	2.62	2.37	2.17	
334-3.0	832-145	1.83	1.66	1.52	
334-3L	832-157	2.65	2.30	2.20	
334-4.0	832-169	1.95	1.77	1.61	
334-5.0	832-182	2.21	1.99	1.81	
334-5L	832-194	2.68	2.45	2.23	

# **Hex Driver 334 Series** Imperial





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خنسب	V	

Mftrs. Part No.	Tip Size	Blade length	Handle length	Weight (g)
334-53	3/32"	150	70	31
334-56	7/64"	150	70	34
334-59	1/8"	150	70	36
334-62	9/" 11	150	70	40
334-68	3/64 16	150	90	70
334-71	7/32"	150	90	79

Dimensions in mm

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
334-53	832-510	2.51	2.28	2.09
334-56	832-522	2.51	2.28	2.09
334-59	832-534	2.40	2.20	1.97
334-62	832-546	2.47	2.27	2.03
334-68	832-560	2.59	2.35	2.13
334-71	832-571	2.89	2.67	2.41

# Hex Driver with ComfortGrip



- Hex Driver with T-Handle, MagicRing (Holding function) and Side Blade
- Wiha ComfortGrip, the comfortable multi-component T-handle with soft zones for maximum working comfort.
- For comfortable high torque transfer. Especially useful for loosening or tightening screws that are hard to move.
- One piece blade, through the handle with-

3/1	565

AF size			Price Each	
mm	Order Code	1+	5+	10+
3 x 100	762-3658	3.14	2.86	2.62
4 x 150	762-3666	3.60	3.27	3.00
5 x 150	762-3674	3.77	3.44	3.15
6 x 150	762-3682	4.04	3.66	3.34
8 x 200	762-3690	5.37	4.89	4.48
10 x 200	762-3704	8.33	7.59	6.95
	mm 3 x 100 4 x 150 5 x 150 6 x 150 8 x 200	mm Order Code 3 x 100 762-3658 4 x 150 762-3666 5 x 150 762-3674 6 x 150 762-3682 8 x 200 762-3690	mm         Order Code         1+           3 x 100         762-3658         3.14           4 x 150         762-3666         3.60           5 x 150         762-3674         3.77           6 x 150         762-3682         4.04           8 x 200         762-3690         5.37	mm         Order Code         1+         5+           3 x 100         762-3658         3.14         2.86           4 x 150         762-3668         3.60         3.27           5 x 150         762-3674         3.77         3.44           6 x 150         762-3682         4.04         3.66           8 x 200         762-3690         5.37         4.89



# Hex Driver Set with T-Handle



345776





- Blister-packed, 6 pieces
- 6 common sizes packed in set

Mftrs. I	Part No.	Order Code	1+	Price Each 5+	10+
334DS	K6 Hex	762-3798	15.23	13.84	12.69
364DS		762-3801	26.44	24.03	22.02

# **Torx Keys**

# 7 piece Hex Key set with Magic Spring function Angled Screwdriver Set With MagicSpring









- MagicSpring holding spring composed of stainless steel reliably holds any TORX®screw firmly.

  No more tedious searching for screws that have been dropped
- Ideal where access is difficult
- Manufactured from high-quality materials based on the known Wiha quality
- Also suitable for TORX® screws composed of aluminium, stainless steel, plastic and ti-

					010111
Mftrs.				Price Per Set	
List No.	Sizes	Order Code	1+	5+	10+
371RHM	17 7pcs. (T6 to T20)	762-3780	15.13	14.60	13.99
Single K	evs				
371R T6		135-9433	3.34	3.18	3.08
371R T7	Tx 7	135-9434	3.23	3.13	2.98
371R T8	Tx 8	135-9436	3.23	3.13	2.98
371R T9	Tx 9	135-9437	3.29	3.13	3.03
371R T1	0 Tx 10	135-9438	3.40	3.29	3.13
371R T1	5 Tx 15	135-9439	3.50	3.39	3.23
371R T2		135-9440	3.60	3.44	3.29
371R T2		135-9441	3.82	3.65	3.49
371R T2		135-9442	3.99	3.81	3.65
371R T3		135-9443	4.19	4.02	3.86
371R T4	0 Tx 40	135-9444	4.88	4.70	4.48

# TORX® L-Key Set 13 pieces in ProStar holder







- Space saving ProStar allows the easy removal of each key without moving any other
- For all TORX screw applications
- All keys from T5 to T50 in one set
- 13 TORX sizes for all common screw sizes
- Chrome vanadium steel, through hardened,

manganese-phosphated

T5; T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40; T50

				2414	28
Mftra Dart Na	Order Code	1.	Price Each	10.	
Mftrs. Part No.	Order Code	1+	5+	10+	
SB 366 SZ 13	358-4586	23.33	21.88	20.94	

# 6 Piece Torx® Flexible Hex Key Set



- 180 degree flex head
- Thinner profile vs traditional fold-ups
- Canvas pouch for compact storage
- Available in:
  - Torx®Head Style — Hex Head Style

Pouch Contains: T-25, T-27, T-30, T-40, T-45, T-50 Flexible Torx Key

524436

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Mftrs.	Order	Price Each		
List No.	Code	1+	5+	10+
82420	164-7966	60.39	57.96	55.58

# TORX® BO Key Set, BlackLaser® 967 SPKL/9



- L-Key Sets for TORX® screws
- Powerful, long service life, ergonomic
- 9 pieces in two-component clip with magnetizer

F					
Content:					
Each TX 8x76 <sup>1</sup> ; TX 9x79 <sup>1</sup> ; TX 10x85 <sup>2</sup> ; TX 15x90; TX 20x96; TX 25x104; TX 27x11: 30x122; TX 40x132					
<sup>1</sup> Product without bore hole at the short and without ball-end at the long arm <sup>2</sup> Product without ball-end at the long arm					

475525

			Price Each		
Туре	Order Code	1+	5+	10+	
967 SPKL/9 TORX BO	133-7757	23.90	21.73	19.91	

# 9 Piece Tamperproof Torx Key Set





9 piece torx key set comprising of the following sizes:

- T10, T15, T20,
- T25, T27, T30, T40, T45 and T50
- Chrome plated finish
- Supplied in a handy, impact resistant holder which allows easy access to each

482085 462205

	Price/Set						
Order Code	1+	5+	10+	20+	50+		
144-7546	5.79	5.19	4.64	4.35	3.95		

# **40 Piece Torx Set** TX-Star



- Super TX-Star offset wrenches, sockets and 1/4", 3/8", 1/2" Square Drive socket bit holders complete in a metal case
- Inserts are hardened and tempered, with a matt finish
- Sockets are chrome vanadium steel, hardened and tempered with a chrome plated finish

	222965
Order Code 312-7242	<b>Price Each</b> 1+ 44.37







# **Torx Keys - continued**

# Torx Driver with T-Handle and Side Blade





- For comfortable high torque transfer Especially useful for loosening or tightening screws that are hard to move
- One piece blade, through the handle withstands even the highest stresses

• One piece blade, through the name with stands even the highest successes								
						345765		
Mftrs. Part No.	AF size mm	Order Code	1+	Price Each 5+	10+			
364DST10 364DST15 364DST20	T10 x 100 T15 x 100 T20 x 100	762-3712 762-3720 762-3739	4.68 4.86 5.24	4.26 4.42 4.77	3.90 4.05 4.37			
364DST25 364DST27	T25 x 150 T25 x 150 T27 x 150	762-3747 762-3755	5.24 5.24 5.37	4.77 4.77 4.89	4.37 4.48			
364DST30 364DST40	T30 x 150 T40 x 150	762-3763 762-3771	5.42 5.67	4.93 5.16	4.53 4.73			

# Hex Driver Set with T-Handle







- Blister-packed, 6 pieces
- 6 common sizes packed in set

				Price Each	
Mftrs. Part No.		Order Code	1+	5+	10+
334DSK6 364DSK6	Hex TORX	762-3798 762-3801	15.23 26.44	13.84 24.03	12.69 22.02

# PocketStar TORX® Key Fold Out Set

In Small PocketStar, 7 pieces



345776





- Chrome vanadium steel, through hardened, electro-plated
- Ergonomic, reinforced fibreglass housing, 95mm long
- Practical fold out holder for TORX® Tamper Resistant (with security pin) screws in the
- Robust casing with eject button for simple and easy key selection. Borehole in every

Sizes: T7; T8; T9; T10; T15; T20; T25

				241406
Mftrs. Part No. 363 P7	Order Code 310-8223	1+ 10.48	Price Each 5+ 9.54	10+ 8.64
000	0.000	10.10	0.01	0.0 .

# PocketStar TORX® Key Hold Out Set In Large PocketStar, 8 pieces







- Chrome vanadium steel, through hardened, electro-plated
- Ergonomic, reinforced fibreglass housing, 120mm long
- Practical fold out holder for TORX® screws in the workplace or on the job
- Robust casing with eject button for simple and easy key selection.

Sizes: T9; T10; T15; T20; T25; T27; T30; T40

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
363 P8	310-8235	11.39	10.54	9.57

# **Tamperproof Torx Bit Set**



241420



- High grade alloy steel bits with rust resist- Held securely in a handy clip
  - Length: 25 mm
- ant finish 1/4 " hex drive

Contents:

T06, T07, T08, T09, T10, T15, T20, T25

	Price Each						
Aftrs. List No.	Order Code	1+	5+	10+	20+		
4407	151-8937	22.65	21.95	21.30	20.40		

# **Switch Keys**

# Pen-Style Control Cabinet Key with voltage tester for all standard cabinets and shut-off systems



495506





- with voltage tester for contactless detection of alternating current 50-60 Hz
- easy to carry pen-style control cabinet key with fastening clip
- four different key profiles can be utilized by swivelling the key holder for control cabinets and shut-off systems in the supply of gas,
- water and electricity
- for technical installations in buildings, e. g. air conditioning and ventilation systems, shut-off valves, mains switch-boards, etc
- magnetic 1/4" bit adapter for standard bits as well as additional bit adapter for 1/4" bits inside one key profile
- cross recess PH 2 bit included
- battery compartment with bayonet catch for easy battery exchange (2 x LR44)
- corpus and fastening clip made from plastic material;
- tool holder and key profiles of diecast zinc

				50	06100
			Price Each		
Mftrs' List No.	Order Code	1+	3+	5+	
00 11 17	156-0898	40.58	38.52	36.51	

# Pen-type switchgear cabinet key for current cabinets and shut-off systems





- transport-friendly switchgear cabinet key in the form of a ballpoint pen with fastening clip
- by swivelling out the key holder four different key profiles can be made available for use
- for switchgear cabinets, shut-off systems
- for gas, water and electricity supply for technical installations in buildings such as air-conditioning and ventilation systems, shut-off valves, mains switchboards etc. square 5 / 6 / 8 mm
- triangle 9 mm
- two-way key bit Ø 5 mm (inner) / Ø 9 mm (outer)
- universal 1/4" bit holder for conventional bits (permanent magnet for fixing)
- additional bit holder for 1/4" bits in a key profile
- with bit: cross recess PH 2 and option of storing a second bit
- fastening clip for secure storage
- length: 145 mm

	Price Each		
1+	5+	10+	
C 0F	45.55	45.40	



# Pen-type professional key

for current shut-off systems



- transport-friendly switchgear cabinet key in the form of a ballpoint pen with fasten-
- by swivelling out the key holder four different key profiles can be made available for use
- universal key for all building tradesmen key for the sectors of heating, air-conditioning, hygiene and buildings engineering, e.g. for door and window handles or for heating deaeration
- square 5 / 8 mm
- triangle 9 mm
- stepped square 6 / 7 / 8 / 9 mm
- universal 1/4" bit holder for conventional bits (permanent magnet for fixing)
- additional bit holder for 1/4" bits in a key profile
- with bit: cross recess PH 2 and option for storing a second bit
- fastening clip for secure storage
- Length: 145 mm

			Price Each	
Mftrs' List No.	Order Code	1+	5+	10+
00 11 08	134-3519	16.05	15.55	15.10

# Universal Pen Style Switch Key





Unique, compact pen-style key, designed to be stored with ease and fit conveniently in the pocket, the keys fold back into the body.

- Pocket clip
- Multi-purpose functionality for use on locking systems of electric, gas and water cupboards and mains consoles etc
- Features a Modulo size 2 terminal screwdriver bit

47	604	2.5	09	48

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
T4451-1	139-1009	17.25	16.65	15.92	15.22

# Wrench Switch Key





A multi purpose tool designed for use on locking systems of electric, gas and water cupboards,in industry and / or technical equipment in buildings such as air conditioning, ventilation systems, stop valves, mains consoleseto

- Manufactured from zinc -die cast
- The tool comprises of:
- 6mm, 8mm, square, 9mm triangular and 5mm double pin type keys
- Key supplied with tooling adaptor for 1/4" hex bits
- Complete with double ended screwdriver bit, 7mm slotted x Phillips No.2

Mftrs.		Price	Each	
List No.	Order Code	1+	5+	
495002	128-3272	8.06	7.91	

# Technical information at your fingertips



Over 352,000 technical datasheets available online.

Visit www.farnell.co.uk and look for the Tech Info heading in your search results.

# **Switchgear Cabinet Spanner** Small and large version







- For all standard locking systems for gas, water and electricity supply, as well as technical systems in buildings such as air-conditioning and ventilation systems, shut-off valves, mains switch panels, etc. with alternate bit insert and matching holder
- 6 + 8 mm quadrilateral
- 9 mm triangle
- 9 mm diameter double bit
- With attachment chain
- Bit insert: 1.0 x 7 mm slot and PH2 cruciform slot
- 413-3889: small version, super-handy (use and capacity as 413-3890!)

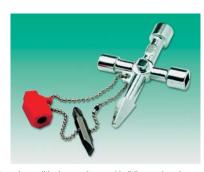
Mftrs. List No.	Length	Capacity	Capacity	Capacity	Weight
	mm			Ø	g
		Quadrilateral	Triangle	Double bit	
00 11 02	44	6 + 8			50
00 11 03	76	5/6/8		9	50

Material Zinc casting

Mftrs.		Price Each		
List No.	Order Code	1+	5+	10+
00 11 02	416-3989	8.00	7.75	7.50
00 11 03	416-3990	8.85	8.60	8.30

# **Profi-Key**





- key for heating, air-conditioning, sanitary and building engineering, e. g. for door and window handles or for air bleeding heaters
- with bit insert: slot 1.0 x 7 mm and cross recess PH 2
- with adapter for 1/4" bits on securing chain
- additional bit adapter for 1/4" bits in one arm
- total length: 90 mm
- zinc die-casting

Knipex	Capacity Square	Capacity step-like square	Bit Slotted Screwdriver	Bit Phillips
Mftrs. Part No.	mm	mm	mm	
00 11 04	5/7/8	4 - 10	1,0 X 7 mm	PH 2

242858

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
00 11 04	416-4003	7.80	7.55	7.35

# Switch Key Wrench



This switch key wrench has been designed for unlocking electric, gas and water cupboards. It

can also be used to gain access to air conditioning, ventilation systems, stop valves or mains consoles etc. It is supplied with a tooling adaptor for 6.35mm (1/4") hexagon bits and a double ended slotted screwdriver 7mm and Philips No2 bits.

			Price	Each	
Mftrs. List No.	Order Code	1+	5+	10+	20+
495015	151-8931	11.62	11.27	10.92	10.57





08447 11 11 11



# **Torque Tools**

# Adjustable torque screwdriver & sets with Rapidaptor® quick-release chuck







133-7760



133-7765



- Simple:rapid adjustment of the torque value without auxiliary tool
- Variable:rapid and unproblematic bit replacement thanks to the Rapidaptor® quick-re-
- Ergonomic: fitted with a multi-component Kraftform® handle
  Exact:meets the standard EN ISO 6789 in relation to the measurement accuracy
- For 1/4" bits DIN 3126-C 6.3 and E 6.3
- Certificate:a test certificate is also supplied
- Set 133-7765 includes: torque drivers 7440 and 7441; hexagon bits (2.0; 2.5; 3.0; 4.0;
- Set 133-7766 includes: torque drivers 7440 and 7441; nexagon bits (2.0, 2.3, 3.0, 4.5 to; 6.0), Torx bits (TX6; TX7, TX8, TX9, TX10, TX15, TX20, TX25, TX30); TorxPlus bits (6IP; 7IP; 8IP, 9IP; 10IP, 15IP, 20IP, 25IP, 30IP)

  Set 133-7766 includes: torque drivers 7440, 7441 and 7442; hexagon bits (2.0; 2.5; 3.0; 4.0; 5.0; 6.0), Torx bits (TX6; TX7, TX8, TX9, TX10, TX15, TX20, TX25, TX30); TorxPlus bits (6IP; 7IP; 8IP, 9IP; 10IP, 15IP, 20IP, 25IP, 30IP)

				Le	ngth
Mftrs' List No.	Holder	Measurement range Nm	Scale graduation	mm	Inch
7440	1/4"	0.3 - 1.2	0.05 Nm	155	6
7441	1/4"	1.2 - 3.0	0.10 Nm	155	6
7442	1/4"	3.0 - 6.0	0.25 Nm	150	6

<%>Wera

			Price Each	
Mftrs' List No.	Order Code	1+	3+	5+
7440	133-7758	44.09	40.70	37.81
7441	133-7759	36.69	33.87	31.46
7442	133-7760	52.80	48.73	45.25
7440/41	133-7765	90.68	83.70	77.72
7740/41/42	133-7766	135.42	124.99	121.38

# Preset torque screwdriver

with Rapidaptor® quick-release chuck



133-7761 133-7763



133-7764

- Supplied with a fixedly preset torque
- The torque can nevertheless be altered within the measurement range\*
- For 1/4" bits DIN 3126-C 6.3 and E 6.3
- ideal for all applications in which the same torque is constantly required and a high de-

- gree of repetition accuracy is required
- The preset torque screwdrivers meet the requirements of the standard EN ISO 6789 in relation to the measurement accuracy of  $\pm$  6%
- A test certificate is also supplied
- \* For this remove the cap at the upper end of the handle and actuate the adjusting nut with the aid of a plug-in key screwdriver. After setting the desired torque by means of a conventional torque testing unit,

		preset		Le	ngth
Mftrs' List No.	Holder	Torque Nm	Measurement range Nm	mm	Inch
7460	1/4"	0.3 Nm	0.3 - 1.2	155	6
7461	1/4"	1.2 Nm	1.2 - 3.0	155	6
7462	1/4"	3.0 Nm	3.0 - 6.0	150	6

475630

		Price Each			
Mftrs' List No.	Order Code	1+	3+	5+	
7460	133-7761	27.48	25.38	23.57	
7461	133-7763	27.48	25.38	23.57	
7462	133-7764	33.62	31.04	28.82	

# **ESD Adjustable Torque Screwdrivers** with Rapidaptor® Quick-Release Chuck







Easy: Quick and easy pre-set torque adjustment through an integrated adjustment ring: no special tool required

Flexible: the Rapidaptor quick release bit holder allows changing of bits in seconds - even single-handedly

Ergonomic: Kraftform® Handle with ergonomic shape and excellent power transfer capa-

Accurate: meet the standards of the EN ISO 6789 with regards to measuring accuracy Better than the Norm: perform better than the European Norm EN 100-015 Part 1 with regards to ESD safety

Certifified: All torque screwdrivers are supplied with a calibration certificate

				Le	ength
Mftrs List No.	Drive	Measuring Range	Graduation	mm	Inch
7440 ESD	122-7106	0.3 - 1.2N-m	0,05 Nm	155	6
7441 ESD	122-7107	0.3 - 1.2N-m	0,10 Nm	155	6
7445 ESD	122-7108	2.5 - 11.5 in.lbs	0.5 in.lbs.	155	6
7446 ESD	122-7109	11.0 - 29.0 in.lbs	1.0 in.lbs.	155	6

440382

		Price Each		
Mftrs List No.	Order Code	1+	3+	5+
7440 ESD	122-7106	53.40	49.11	45.37
7441 ESD	122-7107	46.75	43.00	39.73
7445 ESD	122-7108	51.94	47.78	44.14
7446 ESD	122-7109	51.94	47.78	44.14

# 13 Piece Torque Vario - S® ESD Set







- ESD-safe
- with variable torque setting capability
- With universal bit holder and 10 Slot/Phillips/Pozidriv/TORX standard bits
- Numerical torque indication on a window scale
- Torque variable as required within the specified torque range
- The torque itself is read on a commercially available torque meter

GUIILEIIL.		
	2882	ESD TorqueVario-S® 0.8 to 2.0 Nn
	2889	ESD Bit Holder 1/4x4
	288-900	ESD Adjusting Tool ToqueSetter
	7013 Z	4.0x25 5.5x25
Bit Series	7011 Z	PH0x25 PH1x25
	7012 Z	PZ0x25 PZ1x25
	7015 Z	T7x25 T8x25 T9x25 T10x25

		Price Each			
Mftrs. List No.	Order Code	1+	3+	5+	
TorqueVario-S® ESD Set	132-7539	103.25	98.09	92.92	



# 13 Piece Torque Vario - S® Set TorqueVario-S<sup>{+</sup>} Set









# 13-Piece With Scale

- with variable torque setting capability
- With universal bit holder and 10 Phillips/Pozidriv/TORX/hexagonal standard bits
- Numerical torque indication on a window scale
- Torque variable as required within the specified torque range
- The torque itself is read on a commercially available torque meter

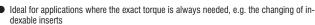
	2852	TorqueVario-S® 1.0 to 5.0 Nr
	26163	Standard Bit Holder
	26864	Adjusting Tool ToqueSetter
Bit Series	7011 Z	PH1 PH2
	7012 Z	PZ1 PZ2
	7015 Z	T10 T15 T20 T25
	7013 Z	SW 2.5 SW 3

				333302
			Price Each	
Mftrs. List No.	Order Code	1+	3+	5+
TorqueVario-S® Set	443-1492	89.83	86.27	82.70

# easyTorque Torque Screwdriver With a Pre-Set Fixed Torque Setting







- Comfortable handle for good power transfer
- Lightweight design, torque value printed on toot
- Internal mechanism slips when torque value has been attained
- Opening torque not mechanically limited in anti-clockwise direction
- Release accuracy ± 10%
- Interchangeable blades with colour coding

				421222
Mftrs. List No./			Price Each	
Torque (Nm)	Order Code	1+	3+	10+
291 0,5	115-6338	22.07	20.98	19.87
291 0,6	115-6339	21.48	20.40	19.32
291 0,9	115-6340	21.48	20.40	19.32
291 1,1	115-6341	21.48	20.40	19.32
291 1,2	115-6343	21.48	20.40	19.32
291 1,4	115-6344	21.48	20.40	19.32
291 2,0	115-6345	21.48	20.40	19.32
291 2,5	115-6346	21.48	20.40	19.32
291 3,0	115-6347	21.48	20.40	19.32
291 3,8	115-6348	21.48	20.40	19.32

# **Ergonomic Torque Screwdriver**

# TorqueFix® and TorqueVario®

- Designed especially for industrial applications
- Ergonomical in use
- Precise and compact in construction
- Click signal at achieving torque
- Both ideal for dry and humid applications
- Colour-coded reversing blade
- Universal Bitholder for all C6,3 and E6,3 bits
- Adapting blades for all 1/4" wrench sockets
- Meets following requirements: EN ISO 6789, BS EN 26789, ASME B107.14M

# Coming soon



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.

# **Torque Screwdriver TorqueFix®**

With Defined Fix Torque Value





- Ideal for applications with continuous same torque value, i.e.
- for industrial serial screwing
   for changing of reversible plate on CNC-working centres
- TorqueFix® is offered in torque interval 0,5 7,2Nm (±6%)
- Supplied in convenient plastic box

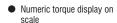
		Torq	ue (±6%)	Handle Length
Mftrs. Part No.	Order Code	Nm	in.lbs	mm
26127	443-1509	0.5	4,43	112
26047	443-1510	0.6	5,32	112
26048	443-1522	0.9	7,79	112
26133	443-1534	1.1	9,74	119
26051	443-1546	2.0	17,7	119
26128	443-1558	2.5	22,1	119
26052	443-1560	3.0	26,6	126
26129	443-1571	3.8	33,6	112
26130	443-1583	5.5	48,7	132
26131	443-1595	7.2	63,7	132

				333299	
		Price Each			
Mftrs. Part No.	Order Code	1+	3+	5+	
26127	443-1509	49.44	47.45	44.98	
26047	443-1510	49.44	47.45	44.98	
26048	443-1522	49.44	47.45	44.98	
26133	443-1534	54.65	52.47	49.73	
26051	443-1546	54.65	52.47	49.73	
26128	443-1558	43.72	41.98	39.78	
26052	443-1560	49.71	47.73	45.24	
26129	443-1571	54.70	52.52	49.78	
26130	443-1583	62.31	59.82	56.69	
26131	443-1595	62.31	59.82	56.69	

# Torque Screwdriver TorqueVario-S® With Scale With Variable Torque Adjustment Possibility









- Torque can be adjusted continuously within defined Torque interval
- Separate tool for changing torque (torque-setter) supplied
- Torque can be read off at standard torque tester
- Supplied in convenient plastic box

		Torq	Length	
Mftrs. Part No.	Order Code	Nm	in.lbs	mm
26461	443-1467	0.4 - 1.0	3,54 - 8,85	127
26462	443-1479	0.8 - 2.0	7,08 - 17,7	131
26463	443-1480	1.0 - 5.0	8,85 - 53,1	138

·				333298	
		Price Each			
Mftrs. Part No.	Order Code	1+	3+	5+	
26461	443-1467	57.18	54.88	52.03	
26462	443-1479	54.10	51.94	49.22	
26463	443-1480	71 72	68 87	65 29	

# **Reversing Blades**

For TorqueFix® and TorqueVario®-S



- Chrome vanadium steel, through hardened and chrome-plated
- Wiha ChromTop Blade tip
- For Slotted, Phillips, Pozidriv, Torx® and Allen screw

S						
Mftrs. Part No.		Colour Code	Order Code	1+	Price Eac 3+	: <b>h</b> 5+
26277	Slotted 0,5x3,0	gray	443-1601	2.77	2.66	2.52
26278	Slotted 0,6x3,5	gray	443-1613	2.77	2.66	2.52
26279	Slotted 0,8x4,0	gray	443-1625	2.77	2.66	2.52
					_	









# **Torque Tools - continued**

# **Reversing Blades - continued**

For TorqueFix® and TorqueVario®-S - continued

					Price Eac	h
Mftrs. Part No.		Colour Code	Order Code	1+	3+	5+
26199	Phillips No 000	dark blue	443-1637	2.77	2.66	2.52
26196	Phillips No 00	dark blue	443-1649	2.77	2.66	2.52
26197	Phillips No 0	dark blue	443-1650	2.77	2.66	2.52
26058	Phillips No 1	dark blue	443-1662	2.77	2.66	2.52

	5					
Mftrs. Part No.		Colour Code	Order Code	1+	Price Eac 3+	<b>h</b> 5+
26198 26198	Pozidriv No.0 Posidriv No1	light blue light blue	443-1674 443-1686	2.22 2.77	2.13 2.66	2.02 2.52

					Price Eac	h
Mftrs. Part No.		Colour Code	Order Code	1+	3+	5+
26158	T5	dark green	443-1698	2.77	2.66	2.52
26064	T6	dark green	443-1704	2.77	2.66	2.52
26065	T7	dark green	443-1716	2.77	2.66	2.52
26066	T8	dark green	443-1728	2.77	2.66	2.52
26059	Т9	dark green	443-1730	2.22	2.13	2.02
26067	T10	dark green	443-1741	2.77	2.66	2.52
26068	T15	dark green	443-1753	2.77	2.66	2.52
26069	T20	dark green	443-1765	2.77	2.66	2.52
26070	T25	dark green	443-1777	2.77	2.66	2.52

						333304
Mftrs. Part No.		Colour Code	Order Code	1+	Price Eac 3+	<b>h</b> 5+
26221	SW 1,5	red	443-1789	2.77	2.66	2.52
26222 26223	SW 2 SW 2,5	red red	443-1790 443-1807	2.77 2.77	2.66 2.66	2.52 2.52
26224 26225	SW 3 SW 4	red red	443-1819 443-1820	2.77 2.77	2.66 2.66	2.52 2.52

# **Preset Torque Screwdriver**

# >LINDSTROM



Comfortable shape and user friendly designed grip these torque screwdrivers feature camover torque limiting clutch for repeatability and accuracy. (Accuracy  $\pm\,6\%$  DIN/ISO 6789, EN 26789/1994), 1/4 hexagon non-magnetic spring loaded bit holder is fitted to avoid damaging sensitive equipment or components in electronic applications. Also included is an adaptor to use 1/4 sockets.

Model PS501-2	Torque Range (cNm) 7 - 70	Square Drive (inch) 1/4	Length (mm) 141	Order Code 352-4188	Price Each 109.62

# Micro adjustable torque screwdriver

# >LINDSTROM



This torque screwdriver features a cam-over torque limiting clutch for repeatability and accuracy. An easy to read window scale and easy to use adjustment knob for precise settings. (Accuracy  $\pm$  6% DIN/SIO 6789, EN26789/1994). A comfortable friendly designed grip makes the tool easy to use. A 1/4in hexagon non-magnetic spring loaded bit holder is included to avoid damaging sensitive equipment or components in electronic applications. Also included is a 1/4in adaptor to use hexagon sockets.

Model MA500-1 MA500-3	Torque Range (cNm) 10 - 80 50 - 450	Square Drive (inch) 1/4 1/4	Length (mm) 138 171	Order Code 352-4218 352-4231	<b>Price Each</b> 159.36 166.46	
-----------------------------	--	--------------------------------------	------------------------------	------------------------------------	---------------------------------	--

# **Torque wrench** Type FS

# Insert:

monitored screw tightening in the range from 0.02 -13.6 N.m

GEDORE)

- production installation with tightening to a con-. stant value
- electronics industry, precision mechanics and industrial manufacture

### Version:

- fixed presettable torque wrench without scale with 1/4"hexagonal insert holder for operation of 1/4" bits to DIN 3126 - C 6.3
- also with adapter fitting 1/4"socket inserts to DIN 3124
- release accuracy: ±6% tolerance of the selected value
- to DIN EN ISO 6789, traceable to national stan-
- precision revolving ball coupling for monitored clockwise and anti-clockwise tightening
- precision mechanism slips on reaching the selected value
- automatic reset to the original position
- light design with anodized aluminium handles
- ESD (Electro Static Discharge) = proof against electrostatic discharge (except for the Model 755 05)
- the fixed setting can be produced autonomously on suitable test equipment

# Items supplied:

- ✓ Torque wrench
  ✓ ¼" square/hexagonal adapter drive piece (No. 757-20)
- ✓ Test certificate to DIN EN ISO 6789
  ✓ Operating instructions
- ✓ Supplied in a robust carton

Mftrs.	Colour	Order Code	1_	Price Each		5.4
755-05	979-1507	7 1/4"	1 - 13.6 N m	137	Black	325g 334175
755-04	472-6844	1/4"	6 - 406 cN m	127	Green	280a
755-03	472-6832	2 1/4"	2 - 135 cN m	111	Blue	210g
755-02	472-6820	) 1/4"	0.5 - 22 cN m	104	Gold	72g
IVITUS LIST INO.	Order Cod	e Drive	Forque Range	Length mm	Colour	vveigni

Mftrs. List No.	Colour <b>Or</b> o	ler Code	1+	Price Each 3+	5+
755-02			23.69	118.66	114.02
755-03	Blue 47	<b>2-6832</b> 1	02.44	97.33	92.69
755-04	Green 47	<b>2-6844</b> 1	10.75	105.32	99.88
755-05	Black 97	<b>9-1507</b> 1	60.97	152.99	144.80

# **Dial Indicating Screwdriver**



Dial measuring torque screwdrivers for the measurement and application of low torque values. Accuracy  $\pm$  5% of reading. All models can be used in either track mode, where the pointer tracks the applied torque, or in memory mode where the pointer remains at the maximum torque applied. The mode is easily changed by withdrawing a slider and resetting the bezel ring. Flat torsion spring mechanism gives the best linear characteristics in both directions. Stainless steel shafts with colour coded aluminium handles and glass filled nylon dials. All with 1/4in female hexagon drive. Supplied with calibration certificate traceable to International Standards.

|--|

Model	Range	Sub Division	Colour	Order Code	Price Each 1+
TT50 F/Hex	14 - 70 ozf in 10 - 50 cNm	2 ozf in 2 cNm	Gold	150-9456	112.93
TT100 F/Hex	28 - 140 ozf in 20 - 100 cNm	5 ozf in 5 cNm	Blue	150-9458	112.93
TT250 F/Hex	4 - 20 lbf in 80 - 250 cNm	0.5 lbf in 10 cNm	Red	150-9459	119.88
TT500 F/Hex	8 - 40 lbf in 100 - 500 cNm	1 lbf in 20 cNm	Green	150-9460	119.88

# **Torque Wrench**



- 1/2" square drive with reversible ratchet head, calibrated in Nm and Mkg, settings etched on barrel.
- Micrometer type sleeve ensures accurate setting of torque, individually calibrated with Certificate of Calibration. Manufactured to DIN 3122
- Housed in strong storage case with 120mm extension and %" adaptor Range: 28-210Nm/2.9-21.4Mkg, 600mm long, weight 1.8kg

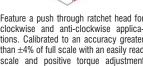
Mftrs.		Price Each
List No.	Order Code	1+
T4463	327-9870	48.50





# **Slimline Torque Wrenches** Slimline





orbar'

489086

orbar

ator comfort. Supplied with a traceable certificate of calibration.

Feature a push through ratchet head for
clockwise and anti-clockwise applica-
tions. Calibrated to an accuracy greater
than ±4% of full scale with an easily read
scale and positive torque adjustment
locking ring. The handle has been mould-
ed to aid correct hand location and oper-
of colibration

	Torque Ran		Square				Each	
Model	(Nm)	(lbf.ft)	drive	Order Code	1+	5+	10+	20+
SL1	8 - 54	5 - 40	3/8	137-5318	53.30	49.50	46.20	43.31
SL1	8 - 54	5 - 40	1/2	137-5288	53.30	49.50	46.20	43.31
SL2	30 - 150	20 - 110	1/2	137-4364	55.81	51.82	48.37	45.90
SL3	50 - 230	40 - 170	1/2	137-4365	68.82	67.46	66.10	63.54

# **Torque Wrenches**



Designed for applications at the lower end of the torque scale. Available in 1/4in or 3/8in reversible ratchets or as %in fixed head. Calibrated to an accuracy greater than ±4% of full scale exceeding all international standards. Supplied with a traceable certificate of calibration.

						494268
Model	Torque R (Nm)	ange (lbf.in)	Square Drive	Order Code	Price Each 1+	
SLO SLO SLOFH	4 - 20 4 - 20 4 - 20	40 - 180 40 - 180 40 - 180	3/8	137-5312 137-5307 137-5317	52.40 52.40 52.40	

# **Professional Torque Wrenches Industrial Ratchet Models**



The push-through ratchets on these models are robustly engineered for strength and durability. The strength and high wear resistance comes from the design of the tooth pattern while a principle of offset ratchet pawls gives a narrow engagement angle.

The push through square drive is not only a robust design but allows the wrench to be used for torque

control in both the clockwise and anti clockwise directions. Please note that the 3/4" square drive of Model 400 has to be removed and re-inserted on the other side of the ratchet head rather than pushed through.

								403033
	Torque Rar	nge	Square			Price	Each	
Model	(Nm)	(lbf.ft)	drive	Order Code	1+	5+	10+	20+
330	60 - 330	45 - 250	1/2	137-4372	104.37	102.28	100.24	98.23
400	80 - 400	60 - 300	3/4	137-5287	146.52	143.59	140.72	137.90

# **Torque Wrenches** Miniature Torque Safe Slipper Wrenches

Range

1-5N-m



Increments

0.05 Nm

1/4" square-drive ratchet slipper wrenches



- Automatic resetting with audible click when wrench
- Eliminates the possibility of overtightening
- Wrench incorporates micrometer-style fine adjustment with positive lock

Mftrs, List No.

TSC 5

Z-1011-111	U. I IVIII	133	200	130 10	100-3040		
					225293		
				Price Each			
	Order Code			1+			
708-9636				137.50			
	708-9648			141 29			

Weight (g)

235

Over 480,000 products online

Lenath

195



Order Code

708-9636

# **Breaking Torque Handles**



Length (mm)



Order Code

- Production lever-type wrenches for applying low torque values
- Ideal for use in restricted space

Range Nm

Torque handles break at predetermined torque value to give movement in either direction Weight (g)

	Order Code		Price Each	h
1.0 - 10.0	105	120	TBN 10	709-0717 225297
0.20-2.00	105	100	IBN 2	/09-0/05

# Interchangeable End Fittings

709-0717



Open end spanner fitting for TBN 2 and TBN 10 handles

80.28

Available in popular metric sizes

Mftrs. List No.



Price Each List No Order Code Metric 5.5 6 012015 709-0833 25.54 709-0845 25.54 012020 012025 012030 709-0857 24.48 10 012040 709-0870 25 54

### **Professional Torque Wrenches Automotive Ratchet Models**



45



- Accuracy of  $\pm 3\%$  of reading exceeds all international standards for torque wrenches
- Every wrench is supplied with a calibration certificate to satisfy the requirements of ISO 9000:2000
- Soft feel handle provides excellent grip even in oily conditions
- Handle material and lens resist all chemicles in common automotive, industrial and aviation use
- Locking mechanism prevents accidental adjustment of the wrench during operation Long scale graduated in N.m and lbf.ft allows for foolproof and accurate setting
- Supplied in moulded box for storage and protection

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						486630
Model	Torque Range (Nm)	(lbf.ft)	Square Drive	Order Code	Price Each 1+	
60 100 200	8 - 60 20 - 100 40 - 200	5 - 45 15 - 80 30 -150	3/8 3/8 1/2	722-8909 137-5311 722-8922	90.06 78.26 107.32	

# **16mm Male Spigot Torque Handles**





Based on the professional wrench range designed primarily for use with hydraulic and pneumatic pipe unions, bolts or studs, and where space restrictions limit the use of standard ratchet tools. Accuracy greater than ±3% of full scale. Supplied with a traceable certificate of calibration to satisfy the requirements of BS5750/ISO9000.

494	87

	Torque Ra	nge		Price Each
Model	(Nm)	(lbf.ft)	Order Code	1+
60TH	8-60	5-45	137-5310	55.11
100TH	20-100	15-80	137-5299	55.11
200TH	40-200	30-150	137-5300	60.85
300TH	60-300	45-220	137-5302	72.63

### **Production Torque Wrenches** Model 5



The model 5 is a unique torque wrench that offers high accuracy and the convenience of interchangeable 1/4in hexagon bits. Accuracy better than  $\pm$  3% of full scale exceeding all torque wrench standards. The model 5 is non length dependant maintaining accuracy regardless of hand position. Supplied in a plastic case







# **Torque Tools - continued**

# **Production Torque Wrenches - continued**

**Fixed Scale Models - continued** 

with a traceable calibration certificate to satisfy ISO9000 quality systems.

							48660	
					Price	e Each		
Mo	del Range	Square Drive	Order Code	1+	4+	10+	20+	
5	1-5 N-m	0.25"	722-8892	131.64	118.55	111.96	105.37	
5	10-50 lbf	. in 0.25"	137-5308	92.98	91.12	89.30	87.52	

### **Fixed Scale Models**

Developed specifically for the requirements of production line work. These models have no adjustment scale and must be pre-set against an electronic torque wrench analyser or similar instrument. Hexagon key setting prevents unauthorised adjustment. All models feature a colour coded end cap seal to identify wrenches outside their calibration period.

	Torque Range Squ		Square		Price Each			
Model	(N-m)	(lbf.ft)	Drive	Order Code	1+	5+	10+	20+
5P	1-5		1/4"	137-5309	92.98	91.12	89.30	87.52
60P	8-60	5-45	3/8"	137-5315	64.46	63.17	61.91	60.67
200P	20-200	15-150	1/2"	137-4373	70.43	69.02	67.64	66.29
300P	30-300	22-220	1/2"	137-5319	91.04	89.22	87.43	85.69
550P	110-550	80-400	3/4"	137-5316	299.86	293.87	287.99	282.23

# **Industrial Torque Wrenches**





The robust construction of this wrench gives accurate results to ±4% even in arduous working conditions. The break action improves accuracy by reducing the possibility of over torquing and gives an unmistakable signal. These wrenches are supplied with a traceable calibration certificate that should satisfy the requirements of BS5750/IS09000.

								10001
Model	Torque Rang (Nm)	je (lbf.ft)	Length (mm)	(in)	Square Drive	Order Code	Price Each 1+	
3AR 3AR/01 4R 4AR 4AR/01	100 - 500 100 - 500 150 - 700 200 - 800 200 - 800	70 - 350 70 - 350 100 - 500 150 - 600	915 1090 1090 1140 1140	36 43 43 44.9 44.9	3/4 1 3/4 3/4 1	137-4366 137-5294 137-5289 137-5293 137-5296	203.29 224.79 216.11 218.29 239.84	
5R 5R/01 5AR/01	300 - 1000 300 - 1000 700 - 1500	200 - 750 200 - 750 500 - 1000	1470 1470 1470	57.9 57.9 57.9	3/4 1 1	137-5290 137-5297 137-5298	242.98 221.00 310.49	

# **Production Torque Wrenches**

# Safe Slipper

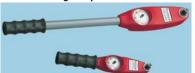


Designed to suit production torque requirements in high volume manufacturing. Accuracy  $\pm$  5%, repeatable, guarantees equal tightness every time. Lightweight construction provides less fatigue for the operator and encourages use. Wrenches slip when predetermined torque setting is reached, thus completely eliminating overtightening. Automatic reset signalled by audible click. All models have corrosion resistant stainless steel head and moulded non slip hand grip.

TSN25D has 36 teeth ratchet. TSN55 and TSN125 have 48 teeth ratchet. Setting the required torque is easily done using either static or electronic instruments.

Model	Torque Ran (Nm)	ge (lbf.ft)	Length (mm)	(in)	Square Drive	Order Code	Price Each 1+
TSN25D TSN55 TSN125	3 - 25 15 - 55 40 - 125	2 - 18 10 - 40 30 - 90	216 324 460	8.5 12.8 18.1	1/4 3/8 1/2	150-9454 150-9455 150-9453	150.84 193.15 219.45

# **Dial Indicating Torque Wrenches**



Robustly constructed for the precise application and measurement of torque values. Easy to read SI and imperial two-tone dual scale with clearly visible main and slave pointers. Double ended spindle ratchet mechanism on all models allowing

torque to be measured in both

clockwise and anti-clockwise directions. All models are accurate to  $\pm 3\%$  of reading and have overload protection. Each tool is supplied with a traceable calibration certificate. The preferred and certified ranges of these tools is in accordance with the requirements of ISO 6789:1992 and BS 6703. 150-9451has an audio visual signal that shows when the required torque is reached.

### Torque Range (Nm) Length (mm) Square Drive Price Each imperial Order Code ADS4 0.3 - 4 - 5lbf in 9.6 150-9447 160.43 ADS8 ADS12A 0.5 - 8.5 0.5 - 13.5 - 75lbf in - 120 lbf in 9.6 9.6 9.6 9.6 165.37 165.37 244 150-9452 244 244 244 149-8347 ADS25 1 - 27 3 - 40 10 - 240 lbf in 20 - 360 lbf in 150-9444 160.43 165.37 150-9448 ADS40 17.1 20.2 251.49 251.49 BDS80F 6 - 80 5 - 60 lbf ft 435 150-9449 20 - 215 15 - 160 lbf ft 515 BDS200 CDS400S 30 - 400 20 - 300 lbf ft 150-9451 405.10

# Adjustable Wrenches

# **Adjustable Wrenches**

# **D** URATOOL



- Adjustable wrenches with metric scale
- Drop forged, heat treated jaws
- Polished and chrome plated

48	1969	1.462	055

Length	Jaw Size	Price Each					
-		Order Code	1+	5+	10+	20+	50+
150mm	20mm	144-7404	1.87	1.69	1.49	1.36	1.12
200mm	24mm	144-7405	2.29	2.11	1.84	1.63	1.43
250mm	30mm	144-7406	2.89	2.81	2.31	2.17	1.94
300mm	40mm	144-7407	3.96	3.71	3.16	2.94	2.52

# Adjustable Wrench Chrome Finish

# **DURATOOL**



- Drop forged, chrome vanadium steel
   Metric scale to assist pre-setting the jaw
- Precision machined, positive action thumbwheel and jaw

222937

Lei	ngth	Max. Jaw Opening	Order Code	Price Each 1+
100	(4")	13	313-3412	4.46
150	(6")	20	313-3424	4.98
200	(8")	27	313-3436	7.15
250	(10")	30	313-3448	9.79

# Adjustable Wrenches with Soft Grip Handles

# **D** URATOOL



- Adjustable wrenches with metric scale
- Rubberized soft grip
- Drop forged, heat treated, polished and black nickel plated jaws
- Laser marked graduations

481975.462064

Length	Jaw Size	Order Code	1+	5+	Price Eac 10+	h 20+	50+
150mm	20mm	144-7414	2.34	2.19	1.87	1.75	1.59
200mm	25mm	144-7416	3.17	2.89	2.55	2.40	2.17
250mm	30mm	144-7417	4.01	3.85	3.20	3.01	2.72
300mm	40mm	144-7418	5.66	5.52	4.54	4.24	3.85

# Adjustable Wrench Soft Grip Handle

# DURATOOL



Phosphated with a soft grip handle
 Metric scale to assist pre-setting the jaw

 Precision machined, positive action thumbwheel and jaw



**BRITOOL** 

Len	gth	Max. Jaw Opening	Order Code	Price Each 1+
100mm	(4")	13	312-7850	6.14
150mm	(6")	20	312-7849	6.14
200mm	(8")	27	312-7837	7.18
250mm	(10")	30	312-7825	8.92

# **Adjustable Wrench Set**



2 piece adjustable wrench set manufactured from chrome vanadium steel with black phosphate finish. Set comprised of 200 and 300mm

	493421
Order Code 248-017	<b>Price Each</b> 1+ 16.47

### ВАНСО **Ergo Adjustable Wrenches** Phosphate



								484583	
Model	Lenç	gth	Jaw Opening	Order Code	1+	Price 5+	<b>Each</b> 10+	25+	
8069 8070 8071 8072	110mm 155mm 205mm 255mm	4" 6" 8" 10"	13mm 20mm 27mm 30mm	105-214 135-6221 105-216 105-217	11.80 11.40 13.45 17.60	11.35 11.16  16.90	10.85 10.94  16.20	10.40 10.64  15.50	
8073 8074 8075	305mm 380mm 455mm	12" 15" 18"	34mm 44mm 53mm	105-218 708-7482 708-7494	25.65 42.55 49.31	40.85 47.97	39.15 46.71	 37.45 45.51	

# **Ergo Adjustable Wrenches** 90 series



Features include an ergonomic handle that provides a comfortable non-slip grip, even when the handle is oily and dirty. Models 9070P, 9071P, 9072P and 9073P all have a reversible jaw that converts the wrench into an efficient pipe wrench.

BAHCO

					404000	,
	Siz	e	Jaw Opening	Order Code	Price Each 1+	
9070 9070P. 9071 9071P 9072 9072P 9073	152mm 158mm 203mm 208mm 254mm 257mm 305mm	6" 6" 8" 8" 10" 12"	20mm 21mm 27mm 28mm 31mm 33mm 34mm	501-499 326-2509 501-505 326-2510 501-517 326-2522 590-265	15.70 14.80 17.13 19.00 21.75 24.60 31.60	
9073P	308mm	12"	35mm	326-2534	25.90	

# **Spanners**

# **Jaw Spanners**

Manufactured To BS192 And DIN3110.



# Whitworth

Whit (in)	Order Code	Price Each 1+
1/8 X 3/16	248-144	2.64
3/16 X 1/4	248-145	2.75
1/4 X 5/16	248-146	3.87
5/16 X 3/8	248-147	5.10
3/8 x 7/16	248-148	7.30
7/16 X 1/2	248-149B	6.69
1/2 X 9/16	248-150B	9.78
9/16 X 5/8	248-151	11.65
7⁄8 x 1	248-153	22.03

# AF

		Price Each
AF (in)	Order Code	1+
3/8 x 7/16	248-231	2.64
7/ <sub>16</sub> x ½	248-232	2.91
1/2 X 9/16	248-233	3.60
9/16 X 5/8	248-234	3.71
11/16 X 3/4	248-236	4.67
15/16 X 1	248-238	8.55

# **Metric Spanners**



Size			Price Each
(mm)	Number	Order Code	1+
4 x 5	2JM45	137-7864	3.09
5.5 x 7	2JM557	137-7865	3.09
6 x 7	2JM67	137-7852	2.61
8 x 9	2JM89	137-7854	2.85
8 x 10	2JM810	137-7855	2.95
10 x 11	2JM1011	137-7856	3.10
10 x 13	2JM1013	137-7944	3.73
12 x 13	2JM1213	137-7857	3.66
13 x 17	2JM1317	137-7858	4.23
14 x 15	2JM1415	137-7859	4.20
16 x 17	2JM1617	141-8702	4.28
17 x 19	2JM1719	141-8703	5.13
18 x 19	2JM1819	141-8704	5.00
19 x 22	2JM1922	141-8705	6.40
20 x 22	2JM2022	141-8706	7.00
21 x 23	2JM2123	141-8707	7.03
22 x 24	2JM2224	141-8708	9.04
24 x 27	2JM2427	141-8710	11.30
24 x 30	2JM2430	141-8715	14.97
25 x 28	2JM2528	137-7866	14.55
27 x 30	2JM2730	141-8711	15.28
30 x 32	2JM3032	141-8712	14.20
32 x 36	2JM3236	141-8821	20.46
36 x 41	2JM3641	141-8822	31.90
46 x 50	2JM4650	141-8823	43.45
55 x 60	2JM5560	141-8824	62.05

# AF

			Price Each
AF (in)	Number	Order Code	1+
1/4 x 5/16	2J2531	137-7847	2.65
5/16 X 3/8	2J3137	141-8691	2.65
3/8 X 7/16	2J3743	137-7848	2.95
7/16 X 1/2	2J4350	141-8692	3.50
½ X 9/16	2J5056	137-7849	3.80
9/16 5/8	2J5662	141-8693	4.07
9/16 X <sup>11</sup> /16	2J5668	141-8814	4.28
5/8 X 11/16	2J6268	141-8694	4.20
5/8 x 3/8	2J6275	141-8815	5.27
11/16 X 3/4	2J6875	141-8696	5.00
3/4 x 7/8	2J7587	141-8697	5.70
13/16 X 7/8	2J8187	141-8698	6.23
13/16 X 15/16	2J8193	141-8699	6.48
15/16 x 1	2J93100	141-8700	7.71
15/16 x 11/8	2J93112	141-8716	12.63
11/16 x 11/8	2J106112	141-8813	13.15
1 1/16 x 11/4	2J106125	137-7850	13.63
11/4 x 17/16	2J125143	141-8817	21.40
15/16 x 11/2	2J131150	141-8818	22.85
15/8 x 113/16	2J162181	141-8819	34.33
111/16 x 17/8	2J168187	141-8820	35.48







# **Spanners - continued**

# **Metric Spanners - continued**

# Whitworth

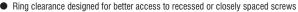
			49469
Whit (in)	Number	Order Code	Price Each 1+
1/8 X 3/16	2J3344	141-8682	4.48
3/16 X 1/4	2J4452	141-8684	4.92
5/16 X 3/8	2J6071	141-8685	6.28
3/8 X 7/16	2J7182	141-8686	7.81
<sup>7</sup> ∕16 X <sup>1</sup> ∕2	2J8292	141-8687	9.27
½ X 9/16	2J92101	141-8688	11.57
9∕16 X 5⁄8	2J101110	141-8689	15.16
9/16 X 11/16	2J101120	141-8717	18.75
5/8 X 11/16	2J110120	141-8690	18.20
3/4 x 7/8	2J130148	141-8811	33.63
7⁄8 x 1	2J148167	141-8718	46.96
11/8 x 11/4	2J186205	141-8812	55.17

# Combination wrenches - metric/inch 440 Series





- High mechanical performance Wide range of openings: —Metric sizes: 4 to 41 mm
- Inch sizes: 1/4" to 1 1/2"



- 12-point OGV profile for a high torque without damaging the nut/prefix H
- Angled at 15[Degree]
  Optimised open end / handle geometry for increased accessibility
- Ground contact faces
- Satin chrome finish

N	e	w	
_	_	_	

						520429
Size	Lenght	Mftrs. List No	Order Code	1+	Price Each 5+	10+
(mm)	(mm)					
4	105	440.4H	164-0727	3.39	3.22	3.05
5	113	440.5H	164-0728	3.41	3.25	3.07
5.5	113	440.5.5H	164-0729	3.43	3.26	3.09
6	113	440.6	164-0730	3.41	3.25	3.07
7	101	440.7	164 0721	2.44	2.27	2.10

(mm)	(mm)						
4	105	440.4H	164-0727	3.39	3.22	3.05	
5	113	440.5H	164-0728	3.41	3.25	3.07	
5.5	113	440.5.5H	164-0729	3.43	3.26	3.09	
6	113	440.6	164-0730	3.41	3.25	3.07	
7	121	440.7	164-0731	3.44	3.27	3.10	
8	130	440.8	164-0733	3.52	3.33	3.16	
9	137	440.9	164-0734	3.55	3.38	3.21	
10	145	440.10	164-0735	3.60	3.42	3.25	
11	153	440.11	164-0736	3.81	3.61	3.42	
12	161	440.12	164-0737	3.91	3.72	3.51	
13	170	440.13	164-0739	4.20	4.00	3.78	
14	178	440.14	164-0740	4.31	4.08	3.87	
15	185	440.15	164-0741	4.99	4.74	4.49	
16	193	440.16	164-0742	5.23	4.96	4.71	
17	200	440.17	164-0745	5.95	5.65	5.36	
18	208	440.18	164-0746	6.21	5.90	5.58	
19	216	440.19	164-0747	6.68	6.34	6.01	
20	224	440.20	164-0748	7.33	6.96	6.60	
21	233	440.21	164-0749	7.69	7.31	6.93	
22	248	440.22	164-0750	7.90	7.50	7.11	
23	258	440.23	164-0751	8.44	8.01	7.59	
24	268	440.24	164-0752	9.00	8.56	8.10	
25	270	440.25	164-0753	9.60	9.12	8.64	
26	284	440.26	164-0754	10.25	9.74	9.23	
27	294	440.27	164-0755	10.70	10.17	9.63	
28	305	440.28	164-0757	11.23	10.67	10.11	
29	320	440.29	164-0758	11.74	11.17	10.58	
30	340	440.30	164-0759	12.58	11.94	11.32	
32	356	440.32	164-0760	13.00	12.36	11.70	

# **Combination Spanners**

# Bi-Hexagon Ring



Forged from the finest chrome vanadium steel. Satin finish shanks, polished jaws and chrome plated overall. Manufactured to BS7586 and DIN3113.

		Price Each
Size (mm)	Order Code	1+
7	386-0619	2.83
8	386-0620	2.48
9	386-0632	2.48
10	386-0644	2.95
11	386-0656	2.88

		Price Each
Size (mm)	Order Code	1+
12	386-0668	4.16
13	386-0670	3.46
14	386-0681	4.64
15	386-0693	4.85
16	386-0700	4.19
17 18	386-0711 386-0723	4.67 4.82
19	386-0735	4.02 6.94
20	386-0747	7.79
21	386-0759	8.32
22	386-0760	7.89
24	386-0784	8.38
27	386-0814	10.98
30	386-0838	14.74
32	386-0840	16.46

# Whitworth

		Price Each
Whit (in)	Order Code	
3/16	248-123	3.90
1/4	248-124	4.58
5/16	248-125B	6.38
3/8	248-126	6.86
7/16	248-127	8.88
1/2	248-128	13.09
9/16	248-129	15.10
11/16	248-131	22.60
3/4	248-132	28.75

AF

		490892
		Price Each
AF (in)	Order Code	
5/16	155-4410	0.83
3/8	155-4412	0.83
1/2	248-213	3.27
5/8	248-215	4.93
11/16	248-216B	4.92
3/4	248-217	6.50
7/8	248-218	8.59
15/16	248-118	9.39
1	248-119	10.32
11/16	248-120	11.30
11/8	248-172	10.32
11/4	248-121	11.54

# **Combination Spanners**

# Metric



 Chrome alloy steel Bi-hexagon ring

**BRITOOL** 

			494477
			Price Each
Size (mm)	Number	Order Code	1+
6	RJM6	141-8354	3.30
7	RJM7	137-7880	3.30
8	RJM8	137-7881	3.30
9	RJM9	141-8355	3.50
10	RJM10	137-7882	3.29
11	RJM11	137-7883	3.93
12	RJM12	137-7884	3.99
13	RJM13	137-7885	4.40
14	RJM14	137-7886	4.50
15	RJM15	141-8356	4.97
16	RJM16	141-8357	5.13
17	RJM17	137-7888	5.90
18	RJM18	141-8358	6.18
19	RJM19	137-7889	6.89
20	RJM20	141-8359	7.61
21	RJM21	141-8360	8.17
23	RJM23	141-8362	9.98
24	RJM24	137-7891	10.83
25	RJM25	141-8363	11.68
26	RJM26	141-8410	13.52
27	RJM27	141-8411	13.55
28	RJM28	141-8412	16.57
30	RJM30	137-7892	18.53
32	RJM32	141-8413	20.80
36	RJM36	141-8414	32.59
41	RJM41	141-8416	42.60
46	RJM46	141-8347	58.97
50	RJM50	141-8349	72.31
55	RJM55	141-8351	102.33
60	RJM60	141-8352	140.06
65	RJM65	141-8353	169.74

# Single Open Ended Spaners









DRAPER

Metric	Metric 485315								
				Price	Each				
Size	Length	Order Code	1+	5+	10+	20+			
6mm	73mm	136-9609	2.25	2.13	2.03	1.90			
7mm	78mm	136-9610	2.18	2.08	1.97	1.85			
8mm	94mm	136-9612	2.46	2.33	2.23	2.05			
9mm	100mm	136-9613	2.30	2.18	2.08	1.95			
10mm	106mm	136-9614	2.23	2.13	2.03	1.85			
11mm	112mm	136-9615	2.46	2.33	2.23	2.05			
12mm	124mm	136-9616	2.62	2.48	2.38	2.20			
13mm	132mm	136-9617	2.07	1.95	1.88	1.75			
14mm	140mm	136-9618	2.66	2.53	2.38	2.25			
15mm	145mm	136-9619	3.41	3.24	3.09	2.85			
16mm	155mm	136-9620	3.41	3.24	3.09	2.85			
17mm	159mm	136-9621	3.11	2.94	2.78	2.60			
18mm	159mm	136-9622	5.66	5.37	5.11	4.75			
19mm	170mm	136-9624	3.82	3.65	3.44	3.20			
22mm	193mm	136-9625	4.12	3.90	3.70	3.45			
24mm	217mm	136-9626	5.56	5.27	5.01	4.65			
25mm	217mm	136-9627	5.82	5.52	5.27	4.90			
27mm	239mm	136-9628	6.53	6.23	5.87	5.50			
30mm	263mm	136-9629	7.88	7.49	7.09	6.60			
32mm	275mm	136-9630	8.49	8.05	7.64	7.10			
34mm 36mm	290mm 305mm	136-9631 136-9632	17.05 11.66	16.20 11.09	15.34 10.48	14.30 9.80			
38mm	305mm	136-9633	13.42	12.76	12.10	11.25			
41mm	344mm	136-9634	14.60	13.87	13.16	12.25			
46mm	380mm	136-9636	18.04	17.16	16.25	15.15			
50mm	413mm	136-9637	24.47	23.24	22.02	20.55			
55mm	459mm	136-9638	27.64	26.27	24.86	23.20			
60mm	494mm	136-9639	35.32	33.56	31.79	29.65			
65mm	528mm	136-9640	43.54	41.36	39.18	36.55			
70mm	572mm	136-9641	37.91	36.01	34.13	31.82			
80mm	645mm	136-9643	56.32	53.51	50.67	47.29			
85mm	688mm	136-9644	78.91	74.97	71.04	66.24			
90mm	740mm	136-9645	92.69	88.06	83.42	77.81			
95mm	740mm	136-9646	120.34	114.32	108.30	101.01			
100mm	740mm	136-9648	125.98	119.67	113.40	105.77			
105mm	847mm	136-9649	185.84	176.55	167.27	156.03			
110mm	1000mm	136-9650	280.39	266.39	252.37	235.40			
120mm	1000mm	136-9652	402.30	382.17	362.07	337.75			

# **Spanner Sets**

# 11 Piece Combination Spanner Set



# **D**URATOOL

- 11 piece metric combination spanner set in a
- Drop forged and chrome plated Sizes included: 6, 7, 8, 9, 10, 11, 12, 13. 14. 17 and 19mm

				4	482088.462213
			Price/Se	t	
Order Code	1+	5+	10+	20+	50+
144-7549	4.34	3.57	3.42	3.09	2.65

# 14 Piece Spanner Set



# **DURATOOL**

- Drop forged, heat treated steel and satin
- Extra soft contoured grips for max-
- imum comfort and superior control High polish finish helps reduce corrosion and retain original luster
- Precision machined open and boxed ends
- Sizes: 6, 8, 10, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30 and 32mm
- Supplied with a heavy-duty vinyl pouch

16.93

15.86

14.42

Price Each	
481958.46	2048

19.65

21.15

# **Troubleshooting tips**

144-7392



Chat live online to one of our technical engineers at www.farnell.co.uk

# **Combination Wrench Set 11pc** 'Expert Range'



- Forged from chrome vanadium steel, hardened and tempered
- Chrome-plated for corrosion protection
- Polished bi-hexagon ring and jaw offset at 15°
- DIN 3113, ISO 3318, ISO 1085
- Supplied in vinyl wallet Available in metric and AF sets

6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19mm

 $1/4",\,5/16",\,3/8",\,7/16",\,1/2",\,9/16",\,5/8",\,11/16",\,3/4",\,13/16",\,7/8"\;AF$ 

HAT26.401880

(CK)

	Mftrs. list no.	Order Code	Price Each 1+
Metric	29545 29546	707-8997 707-9000	15.79 18.50
AF	29546	707-9000	18.50

# 6 Piece





- 'Ratchet' speed action enables the user to reposition the spanner without removing it from the nut
- Manufactured from drop forged chrome vandium steel
- Colour coded for quick selection of correct size
  - Contents: 10, 12, 13, 14, 15, 17mm

419483, 422825

Mftrs List No.	Order Code	Price Each
T4345/6ST	109-8806	28.30
14343/051	109-8800	28.30

# **Standard Combination Wrench Sets**







- OGV® Series 440 combination spanners in 9 and 12 piece sets
- Torque capacity exceeds standard specifications
- 12 point ring angled at 15°
- Slim ends offer easy accessibility
- Satin chrome finish
- Supplied in storage box
- 9 piece sizes: 8, 10, 11, 12, 13, 16, 17, 18, 19
- 12 piece sizes: 7, 8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24

520430 Mftrs. Price/Set Set List No. **Order Code** 1+ 10+ 440.JP9PB 440.JP12PB 164-0761 164-0762 42.50 61.67 9 Piece 12 Piece 41.41 60.09

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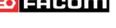


# **Spanner Sets - continued**

# **Combination Wrench Sets**

in thermo-formed modules





- New
- OGV® Series 440 combination wrech set Compatible with the FACOM modular stor-
- age system 16 piece sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24
- Supplied in thermo-formed modules

527080	

STANLEY

Mftrs.		Price/Set		
List No.	Order Code	1+	5+	10+
MOD440-1	164-0763	76.94	74.92	73.00

# 14 Piece Combination Spanner Set

14 piece set ranging from 10mm to 32mm complete with storage roll.

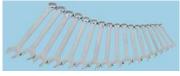
Spanners conform to ISO 3318/DIN 3113. • 10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 28, 30, 32mm



	Price Each			
Order Code	1+	5+	10+	20+
135-3669	41.86	41.02	40.21	39.42

# **Open Jaw Spanners**





Supplied in a PVC wallet.

			4303
Туре	Contents	Order Code	Price Each 1+
Metric 7 piece Metric	10, 11, 12,13, 14, 17,19mm 8.10.11.12.13, 14.15.16.17.	386-0863	24.54
11 piece	18,19mm 38, 7/16, ½, 9/16, 5/6, 11/16, 3/4in AF	386-0875	40.08
7 piece WW	1/8. 3/16. 1/4. 5/16. 3/6. 7/16. 1/2 in Whit	248-262	24.92
7 piece AF	3/8, 7/16, 1/2, 9/16, 5/8, <sup>11</sup> /16, 3/4, <sup>13</sup> /16, 7/8,	248-267	29.06
10 piece AF	<sup>15</sup> / <sub>16</sub> 3/8, 7/ <sub>16</sub> , 1/2, 9/ <sub>16</sub> , 5/8, <sup>11</sup> / <sub>16</sub> , 3/4, 7/8, <sup>15</sup> / <sub>16</sub> ,	867-3390	47.46
14 piece	1, 11/16, 11/8, 11/4	867-3403	89.55

# Kamasa 24 Piece Combination Spanner Set Imperial/Metric 🎑



Set contains 24 spanners 6mm to 22mm and 1/4in to 1in A/F. All spanners are fully polished chrome Vanadium stell. Spanners supplied in a reinforced storage wallet.

	4924
Order Code	Price Each 1+
Oluci Couc	I T
040-278	18.60

# **Combination Spanner Set**

12 Piece Ratcheting Combination Wrench Set



Contains Ratcheting metric combination wrenches: 8 · 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 -19mm1.5kg

486652

**FACOM** 

		Price Each	
Order Code	1+	5+	10+
855-7101	179.11	170.14	161.19

# **Metrinch Combination Spanner Set**

4 and 6WD







- High quality 6, 7, 8, 10, 14, and 15 piece metric/imperial sets
- Metrinch 4 and 6 wall drive profile
- Chrome vanadium steel, chrome plated and polished

METRINCH® is a trade mark of Surelab, USA.

### Size

### Metric / Imperial

6 Piece 7 Piece 10, 11, 13, 14, 16, 17 mm - 3/8", 7/16", 1/2", 9/16", 5/8", 11/16" 10, 11, 13, 14, 16, 17, 19 mm - 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm - 3/8", 7/16", 15/32", 1/2", 9/16", 19/32", 5/8", 11/16", 23/32", 3/4" 8mm to 22mm - 5/16" to 7/8" 8mm to 32mm - 5/16" to 1-1/4" 10 Piece

14 Piece 15 Piece

TMM23X,401894

	Order code	Price each
6 Piece	282-583	28.12
7 Piece	282-595	32.79
10 Piece	321-6858	41.33
14 Piece	321-6860	63.57
15 Piece	321-6871	101.66

# **Combination, Small Metric**

**ELORA** 



Set of six chrome vanadium metric spanners in a plastic wallet

Sizes covered: 5, 5.5, 6, 7, 8, and 10mm.

TMM21X 401877

Mftrs List No	Order Code	Price Each
04212	105-965	32.41

# Slim Type Open Ended

**ELORA** 



4, 4.5, 5, 5.5, 4, 6 6, 7, 8, 9, 10, 11 6, 7, 8, 9, 10, 11 12, 13, 14, 15, 16, 17 Order Code METRIC: Order Code (Set 1) 108-819 (Set 2) 104-685

Sets of six chrome vanadium spanners

15° angle opening, chrome plated and polished

401904

Mectric spanner set 1 Mectric spanner set 2	Order code 108-819 104-685	Price each 29.31 29.31
	108-819	29.





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**BAHCO** 

# **Open Jaw Spanner Sets**



The open jaw spanner sets conform to DIN3110/ISO1085, 15° angle. Supplied in plastic wallet.

Set	Contents
6M/8T	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22mm
6M/S8	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22mm

6W/10T 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 24 x 27, 30 x 32mm 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 6M/12T 30 x 32mm

1/4 x 5/16, 5/16 x 11/32, 3/8 x 7/16, 1/2 x 9/16, 19/32 x 11/16, 5/8 x 3/4, 13/16 x 7/8, 15/16 x 1 inch AF

			1101011
Set	Order Code	Price 1+	Per Set 5+
6M/8T 6M/S8 6M/10T 6M/12T 6Z/8T	802-396 706-2308 135-6206 706-2310 706-2321	28.15 31.15 40.80 56.90 44.15	27.00 29.90 39.99 54.60 42.40

# **Open Jaw Spanners**





Supplied in a PVC wallet.

484611

		H32300
Type Contents	Order Code	Price Each 1+
AF 5/6 x 3/6, 7/6 x 1/2, 9/6 x 5/6, 11/16 x 3/4, 3/6 x 7/6, 6 piece 15/6 x 1 in AF WW 1/6 x 3/16, 3/16 x 1/4, 1/4 x 5/16, 5/16 x 3/6, 3/8 x 7/16.	248-264	22.36
7 piece 7/6 x 1/2, 1/2 x 9/6 in Whit AF 1/4 x 5/16, 5/16 x 3/8, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16,	248-268	29.01
10 %6 x %, % x 11/6, 11/6 x 3/4, 3/4 x 7/6, 15/16 x 1 piece	867-3373	20.93

# **Electronic Double Open-End Spanner Set**



- High-quality, 6-piece metric spanner set Head angle 15° with one end 10° offset
- Spanners extra long and very slender for
- working on electronic appliances
- Conforms to DIN 934
- Supplied in plastic wallet

# Contents: 4x4, 4.5x4,5, 5x5, 5.5x5,5, 6x6, 7x7

		LLULL
		Price Each
Mftrs. List No.	Order Code	1+
1933M/6T	706-2606	28.65

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# Lilliput Double Open-End Spanner Set





- High-quality specialist spanner set
- Chrome vanadium extra finish
- Supplied in plastic wallet



HAT4,401905

DRAPER

223275

Order code	Price each
706-2588	52.70

# **Spanners - Ratchet**

# **Ring Ratchet**



A range of wrenches incorporating a bi-hexagon reversible ratchet ring spanner at each end.

Sizes	Length	Mftrs' List No.	rder Code
6 & 8mm	110	31993	109-206
10 & 11mm	135	31994	109-207
19 & 22mm	225	31997	109-210

Metric Set 6, 8, 10, 11, 13, 14, 15, 17, 19 and 22mm

Mftrs. List No. 31991 = 109-215

		Price Each
	Order Code	1+
6 & 8mm	109-206	4.86
10 & 11mm	109-207	3.98
19 & 22mm	109-210	7.38
Metric set	109-215	34.96

# **Ratcheting Box Spanners**



- High-quality spanners incorporating a bi-hexagon reversible ratchet ring at each end
- All spanners chrome vanadium
- Metric spanners 9-10 have 6-point heads

Imperial spanners all have 12-point heads Ideal for use in areas of restricted access

22	5	2	3,

Size	Mftrs. List No.	Order Code	Price Each 1+
<b>Metric</b> 9 - 10	1320M-9-10	706-2394	22.71
Imperial 3/8 - 7/16"	1320Z-3/8-7/16	706-2461	22.19

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# **Spanners - Ratchet - continued**

# Offset Ring Ratchet Wrench

Metric, 5 Piece Set



- Chrome vanadium steel body and hardened sockets 5 piece set containing: 6x8, 10x12, 11x13, 15x17, 19x21mm

Order Code 312-8088 23.38

# **Ratchet Ring Spanners**

# BRITOOL

222940



Ratcheting ring spanners are designed for use in areas where access is restricted. The ratchet is reversed simply by turning the wrench over. The bi-hexagon ring form is broached for accuracy to ensure a perfect non slip fit. The wrench body is nickel and chrome plated to prevent corrosion and extend tool life.

### Metric

Size			Price Each
(mm)	Number	Order Code	1+
7 x 8	RBB78	137-7963	7.30
9 x 10	RBB910	137-7964	8.45
11 x 12	RBB1112	141-7905	10.71
13 x 14	RBB1314	137-7965	8.15
15 x 17	RBB1517	141-7906	12.83
16 x 18	RBB1618	141-7907	12.83
19 x 21	RRR1921	137-7967	13.80

ΑF

		49531
Number	Order Code	Price Each 1+
RBB2531	141-7908	6.87
RBB3743	141-7909	8.10
RBB4350	141-7910	12.28
RBB5056	141-7911	11.87
RBB5662	137-7968	13.64
RBB6268	141-7912	13.53
RBB7587	141-7913	13.76
	RBB2531 RBB3743 RBB4350 RBB5056 RBB5662 RBB6268	RBB2531 141-7908 RBB3743 141-7909 RBB4350 141-7910 RBB5056 141-7911 RBB5662 137-7968 RBB6268 141-7912

# 5 Piece Ratchet Spanner Set

# **DURATOOL**



- Metric flat ratchet ring spanner set
- Ideal for getting
- at hard to reach nuts & bolts
- 12 point for maximum surface contact
- Drop forged heat treated steel
- Sizes: 6x8, 10x12, 11x13, 14x17 and

19x21mm

Price/Set Order Code 5+ 20+ 144-7550 8.19 7.22

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www.global-legislation.com

# 5 Piece Offset Ratchet Spanner Set



- **DURATOOL** Metric offset
- ratchet ring spanner set Ideal for getting at
- hard to reach nuts & bolts 30° offset design helps prevent bruised and scraped nuckles
- 12 point for maximum surface contact
- Drop forged heat treated steel
- Sizes: 6x8, 10x12, 11x13, 14x17 and 19x21mm

482090.454406

			Price/Se	t	
Order Code	1+	5+	10+	20+	50+
144-7551	8.19	7.22	6.56	6.15	5.59

# Offset Ratchet Spanner Set



5 piece reverse action offset spanner set. Manufactured from chrome vanadium

491362

		Price Each
Contents (mm)	Order Code	1+
6 x 8, 10 x 11, 12 x 14, 15 x 17, 19 x 21	393-6314	24.51

# 12 Piece Combination Ratchet Spanner Set





# Contents:

- Lever rachet offset to 15°
- Spanners 8, 9,10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- Adaptors for ratcheting function
- Sq. Drive ½" x 19mm, ¾" x 15mm, ¼" x 10mm
   Hex Drive ⅓16" x 13mm, ¼" x 8mm

485318

	Price Each			
Order Code	1+	5+	10+	20+
136-9705	191.48	181.90	172.30	165.00

# Ratcheting ring spanner set



New



- Ratcheting box spanner in Metric siz-
- Finish: Forged, nickel and chromeplated, matt-finished
- Material: CrV
- Turnable for left and right direction. 5° action
- 12-point with Dynamic-Drive Profile™
- 3 pcs set in practical pouch to carry on your belt 12 sizes: 8x9x10x11, 12x13x14x15,
- 16x17x18x19 mm

		Price Per Set		
Set	Order Code	1+	5+	10+
4SRM/3T	167-1609	39.00	37.05	35.10



# **Ratchet combination spanner Set** metric





- Ratchet in the ring and New a switch for quick change of right and left direction, 5° Action 15° offset head. With Dynamic-Drive-Pro-
- file TM Sets with practical plastic handle to carry
- or for hanging on the wall Finish: forged, nickel and chrome-plated, fine-polished
- Material: CrV
- Set of ratchet combination wrenches in Metric sizes: 8 10 12 13 14 17 mr

m	
	527335

		Price Per Set			
Set	Order Code	1+	5+	10+	
1RM/S6	167-1611	69.95	66.45	62.95	

# **Ratchet combination spanner Set** metric





- Ratchet in the ring and a switch for quick change of right and left direction
- $5^{\circ}$  Action and  $15^{\circ}$  offset head
- With Dynamic-Drive-Profile TM
- Sets of ratchet combination wrenches in Metric sizes: 8 9 10 11 12 13 14 15 16 17 18 19 mm
- Sets with practical plastic handle to carry or for hanging on the wall
- Finish: forged, nickel and chrome-plated, fine-polished
- Material: CrV

		Price Per Set			
Set	Order Code	1+	5+	10+	
1RM/S12	167-1610	145.00	137.75	130.50	

# **Flat Ratcheting Ring Wrenches** 64 Series





Chrome plated for corrosion protection, 72 tooth mechanism giving a 5° minimum working arc. Both rings feature OGV® drive increasing grip and reducing fastener wear.

					4878	62
	Price Each					
Size (mm)	Order Code	1+	5+	10+	20+	
6 x 7	137-5423	23.09	22.64	22.18	21.47	
8 x 9	137-5424	24.97	24.48	23.98	23.21	
10 x 11	137-5425	23.96	23.49	23.02	22.28	
12 x 13	137-5426	25.05	24.55	24.06	23.28	
14 x 15	137-5427	27.76	27.21	26.66	25.80	
16 x 18	137-5429	31.12	30.48	29.90	28.92	
17 x 19	137-5431	21.29	20.85	20.45	19.78	
21 x 23	137-5432	38.49	37.71	36.96	35.77	
22 v 24	127 5/22	20.44	20 65	27 00	26.66	

		Price Each				
Size (in)	Order Code	1+	5+	10+	20+	
1/4 x 5/16	137-5434	19.43	19.05	18.66	18.06	
5/16 x 11/						
32	137-5435	21.50	21.07	20.65	19.99	
3/8 x 7/16	137-5436	22.66	22.21	21.76	21.06	
1/2 x 9/16	137-5437	26.80	26.27	25.74	24.91	
5/8 x 11/16	137-5438	31.80	31.14	30.55	29.55	
3/4 x 13/16	137-5439	34.50	33.81	33.14	32.08	
7/8 x 15/16	137-5440	38.91	38.12	37.38	36.17	

# **Gearless Ratchet Spanners**





- Professional quality gearless ratchet spanners
- Ratchet ring and open ended combination
- Heat treated chrome vanadium steel with mirrored chrome finish
- Smooth gearless ratchet mechanism with 72 teeth gear ratchet function

		Price Each				
Size	Order Code	1+	5+	10+	20+	
8 mm	144-7621	4.97	4.35	3.95	3.55	
10 mm	144-7623	5.07	4.44	4.03	3.61	
11 mm	144-7624	5.13	4.51	4.09	3.65	
12 mm	144-7625	5.42	4.74	4.30	3.89	
13 mm	144-7626	5.53	4.85	4.39	3.95	
14 mm	145-6355	5.75	5.17	4.70	4.21	
15 mm	145-6356	6.51	5.69	5.17	4.64	
16 mm	145-6357	6.76	5.92	5.38	4.81	
17 mm	145-6358	7.28	6.38	5.79	5.20	
18 mm	145-6359	7.96	6.96	6.32	5.68	
19 mm	145-6360	7.96	6.96	6.32	5.68	
21 mm	145-6361	10.93	10.37	9.46	8.77	

# **Combination Wrenches**

**67 Series Ratcheting Combination Wrenches** 



Fine tooth mechanism for minimal working arc, minimal reverse torque - avoids loos-ening fastener on reverse, 15° offset for increased accessibility, recessed thumb lever avoids accidental direction change.

40	7		e	e	
40	1	u	υ	U	

**FACOM** 

				Price Each				
Size	e(mm) C	Order Code	1+	5+	10+	20+		
6		137-5414	13.31	13.03	12.77	12.36		
		137-5415	12.86	12.60	12.35	11.95		
8		137-5459	10.32	10.12	9.91	9.60		
9		137-5460	10.32	10.12	9.91	9.60		
10		137-5449	11.11	10.89	10.68	10.33		
11		137-5450	11.40	11.16	10.93	10.59		
12		137-5451	11.84	11.60	11.37	11.00		
13		137-5452	12.17	11.93	11.69	11.32		
14		137-5454	14.85	14.57	14.27	13.81		
15		137-5455	14.85	14.57	14.27	13.81		
16		137-5456	16.76	16.43	16.09	15.58		
17		137-5457	16.76	16.43	16.09	15.58		
18		137-5458	15.68	15.36	15.05	14.58		
19		137-5444	19.08	18.70	18.33	17.73		
21		137-5417	26.96	26.45	25.91	25.07		
22		137-5418	26.59	26.05	25.53	24.72		
24		137-5419	33.22	32.57	31.91	30.89		
27		137-5420	49.69	48.70	47.72	46.18		
30		137-5421	55.89	54.78	53.67	51.96		
32		137-5422	70.50	69.09	67.71	65.53		

# 6 Piece Gearless Ratchet Spanner Set

# **D** URATOOL



- Professional quality gearless ratchet spanners
- Ratchet ring and
- open ended combination
- Heat treated chrome vanadium steel with mirrored chrome finish
- Smooth gearless ratchet mechanism with 72 teeth gear ratchet function
- Supplied in a blow moulded carrying case
- Overall length for the range 139mm (8mm) 247mm (19mm) Contents: 8, 10, 12, 13, 17 and 19mm

483834.464870

**FACOM** 

	Price/Set				
Order Code	1+	5+	10+	20+	
145-6363	31.74	29.78	26.80	24.70	

# **Combination Spanner Set**

7 Piece Ratcheting Combination Wrench Set



Contains metric ratcheting combination wrenches: 8-10-12-13 - 14 - 17 - 19mm, 700g.

487132

	Price Each					
Order Code	1+	5+	10+	20+		
137-5448	118.49	116.12	113.79	110.15		

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# Spanners - Ratchet - continued

# 10 Piece Metric Stubby Combination Ratcheting Gearwrench™ Set

GEARWRENCH



Package Tray Contains:

10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm Stubby Combination GearWrench<sup>TM</sup>

Mftrs.	Order		Price Each	
List No.	Code	1+	5+	10+
9520	164-7967	72.40	69.50	66.60

# 7 Piece Metric Flex Head Combination Gearwrench™ Set





Package Tray Contains:

10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm Stubby Combination GearWrench<sup>TM</sup>

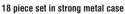
				524442
Mftrs. List No.	Order Code	1+	Price Each 5+	10+
9900	164-7968	86.89	83.42	79.95

# Socket Sets - 1/4"

# 8100 SA 1 Zyklop ratchet set, 1/4" drive, metric

-√ ∛ Werα

New







- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$   $6^{\circ}$
- Multicomponent Kraftform handle for comfort and torque

Set content:	length
1 Zyklop ratchet	1/4" x 152mm
	4,0; 4,5; 5,0; 5,5; 6,0; 7,0; 8,0; 9,0; 10,0; 11,0; 12,0; 13,0; 14,0 x 23mm
2 Zyklop extensions with freewheel sleeve	1/4" x 75mm and 1/4" x 150mm
1 T-handle	1/4" x 110mm
1 universal joint	1/4" x 35,5mm

517069

Price Each Mftrs List No. Order Code 8100 SA 1 158-0992 96.60 91.80

# 8100 SA 2 Zyklop ratchet set, 1/4" drive, metric

42 piece set in strong metal case





√ ‱Wera

- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of 5° 6° Multicomponent Kraftform handle for comfort and torque

Set content:	length
1 Zyklop ratchet	1/4* x 152mm
13 Zyklop sockets (metric)	4,0; 4,5; 5,0; 5,5; 6,0; 7,0; 8,0; 9,0; 10,0; 11,0; 12,0; 13,0; 14,0 x 23mm
2 Zyklop flexible-lock" extensions with free- wheel sleeve	1/4" x 75mm and 1/4" x 150mm
1 wobble extension	1/4* x 56mm
1 T-handle	1/4" x 110mm
1 universal joint	1/4* x 35,5mm
1 adaptor with quick-release chuck	1/4" x 1/4" x 37mm
22 bits	Slotted: 0,6 x 4,5; 1,0 x 5,5; 1,2 x 8,0 x 25mm Hex-Plus: 3,0; 4,0; 5,0; 6,0; 8,0 x 25mm Phillips: 1; 2; 3 x 25mm Pozidriv: 1; 2; 3 x 25mm TORX® B0: 8; 9; 10; 15; 20; 25; 30; 40 x 25mm

517167

Verα

		Price Each	
Mftrs List No.	Order Code	1+	5+
8100 SA 2	158-0994	121.80	115.70

# 8100 SA 3 ratchet set, 1/4" drive, imperial

15 piece set in strong metal case





- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of 5° 6°
- Multicomponent Kraftform handle for comfort and torque

• Maideomponent Mattorn nariale for	Controls and torquo
Set content:	length
1 Zyklop ratchet	1/4" x 152mm
10 Zyklop sockets (imperial)	3/16"; 7/32"; 1/4"; 9/32"; 5/16"; 11/32"; 3/8"; 7/16"; 1/2"; 9/16" x 23mm
2 Zyklop extensions with freewheel sleeve	1/4" x 75mm and 1/4" x 150mm
1 T-handle	1/4" x 110mm
1 universal joint	1/4" x 35,5mm

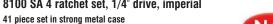
		Price	Each
Mftrs List No.	Order Code	1+	5+
8100 SA 3	158-0995	91.60	87.00





Metrinch

# 8100 SA 4 ratchet set, 1/4" drive, imperial







**/** {**\>** Wera

- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$   $6^{\circ}$
- Multicomponent Kraftform handle for comfort and torque

Set content:	ength
1 Zyklop ratchet	1/4" x 152mm
10 Zyklop sockets (imperial)	3/16"; 7/32"; 1/4"; 9/32"; 5/16"; 11/32"; 3/8"; 7/16"; 1/2"; 9/16" x 23mm
2 Zyklop flexible-lock" extensions with free- wheel sleeve	1/4" x 75mm and 1/4" x 150mm
1 wobble extension	1/4" x 56mm
1 T-handle	1/4" x 110mm
1 universal joint	1/4" x 35,5mm
1 adaptor with quick-release chuck	1/4" x 1/4" x 37mm
24 bits	Slotted: 0,6 x 4,5; 1,0 x 5,5; 1,2 x 8,0 x 25mm Hex-Plus: 5/64"; 3/32"; 1/8"; 9/64"; 5/32"; 3/16"; 7/32" x 25mm Phillips: 1; 2; 3 x 25mm Pozidriv: 1; 2; 3 x 25mm Torx* B0: 8; 9; 10; 15; 20; 25; 30; 40 x 25mm

		Price	Each
Mftrs List No.	Order Code	1+	5+
8100 SA 4	158-0996	116.80	110.90

# 39 Piece 'SURE DRIVE' 1/4" Socket Set





- Metric socket set forged from chrome vanadium alloy steel for long life
- Non-slip satin chrome finish for maximum resistance to shock and peeling
- 'Sure Drive' system exterts torque through the flats of the socket rather than the corners, eliminating rounding off at high torque
- Ratchet features a soft grip, dual compound handle

# Contents:

- 1/4" 45 tooth quick release ratchet
- Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm
- Slotted bits: 4, 5.5, 7mm
- Phillips bits: PH1, PH2, PH3
- Pozidriv bits: P71 P72 P73
- Tamperproof torx bits: T8, T10, T15, T20, T25, T27, T30, T40
- Hexagon bits: 3, 4, 5, 6mm
- 50mm extension
- 50mm extension/driver
- Universal joint
- Adaptor

419492, 422834, 422834

Mftrs list no.	Order Code	Price	e Each
		1+	5+
T4655	109-8815	54.57	52.18

# 25 Piece Socket Set



Metric

- Professional socket set 3/8" and 1/4" drive 25 piece metric/imperial set
- Metrinch 6 wall drive profile Chrome vanadium steel.
- chrome plated and polished Supplied in a heavy duty plas-

Imperial





Size

1/4" **Drive** 5, 6, 7, 8, 9, 10, 11, 12 3/6"**Drive** 13, 14, 16, 17, 19, 20/21, 22 3/16, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 15/32 1/2, 9/16, 5/8, 11/16, 3/4, 3/16, 7/8

231778

DRAPER

DRAPER

	Price Each
Order Code	1+
321-6895	75.42

# Draper 1/4 in Socket Set



### **B20M**

20 piece 1/4in square drive socket set. Manufactured from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Packed in rigid plas-

tic case with foam insert and display sleeve.

490647 Price Each 20+ Contents Order Code 10+ Hexagon sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm Extension bars 20, 75, 150mm Reversible ratchet Sliding T bar Universal join Flexible handle 135-9490 24.64 24.15 23.66 23.20

# 40 Piece AF/BA/Metric - 1/4" Square Drive 'Expert Range'



H=43, W=310, D=155

- The 'Expert Range' is a professional quality socket set featuring highly finished triple chrome plated sockets and accessories
- The case is blow moulded in a resiliant plastic which accurately holds the contents in labelled spaces

# Contents

5 Hexagon AF Sockets: 12 Hexagon MM Sockets: 4 Hexagon BA Sockets:

1/4", 5/16", 3/6", 7/16", 1/2" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13

6, 4, 2, 0

Reversible Ratchet, 2", 3", 6" Extension Bars, Sliding Tee Bar, Universal Joint, Spinner Handle, Bit Holder 1/4" x 1/4" Hexagon 11 Insert Bits 1/4" Hexagon: 4 Plain Slot 3.5, 4.5, 5.5, 6.5mm. 2 Crosspoint No. 1, No. 2.

2 Pozidrive No. 1, No. 2. 3 Torx T15, T20, T25

Mftrs.		Price Each
List No.	Order Code	1+
18965	106-085	40.48







# Socket Sets - 1/4" - continued

# Socket set 1/4in Square Drive



Manufactured from chrome alloy steel. Set includes quick release ratchet, 100mm extension, universal joint, spinner handle, sliding T-handle and bit holder. Supplied in a moulded case. Single hex.

Contents Standard 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12,

Contents Slotted bit 4, 5,5, 6,5mm socket 13, 14mm Deep socket 6, 7, 8, 9, 10, 11,12, 13mm

3, 4, 5, 6, 7mm T10, T15, T20, T25, T27, T30 Hexagon bit Torx bit

Phillips bit No1, No2, No3 Pozidriv bit No1, No2, No3

			Price Each
	Set	Order Code	1+
ı	Metric 46 piece	386-0942	56.57

# 60 Piece Socket and Bit Set 1/4" Square Drive



Sockets forged from quality carbon steel, hardened and tempered with a chrome

**DURATOOL** 

Bits manufactured from chrome vanadium steel hardened and tempered

Contents:

1/4" Hex sockets:

4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13mm 1/2", 7/16", 3/8", 5/16", 9/32", 1/4", 7/32", 3/16", 5/32" AF

0, 2, 4, 6, 8 BA

1/4" Hex Drive bits: Hex 2.5, 3, 4, 4.5, 5, 5.5, 6, 7, 8, Torx T8, T9, T10, T15, T20, T25, T27
Slot 3, 4, 4.5, 5, 5.5, 6, 7mm, Pozi No. 1, 2, 3, Phillips No. 1, 2, 3
Screwdriver 1/4" Hex Drive, 1/4" Hex and Square Drive ratchet

Magnetic extension, male and female 1/4" Hex to 1/4" Square Drive adaptors

Price Each Order Code 312-7254 28.38

# 24 Piece 1/4" Socket Set



Manufactured from chrome vanadium steel and supplied in a blow moulded case Contents:

Sockets 1/4": 4, 5, 5.5, 6, 8, 9, 10, 11, 12, 13 mm

Slotted: 4, 5, 6 mm Phillips: PH1, PH2 Pozidriv: PZ1, PZ2 Torx: T10 T15 T20

Hex: 4 mm 1 x 1/41

Screwdriver bit holder, 1 x Drive socket adaptor, 1 x 1/4" Drive ratchet handle

ŕ	• *	472548.527323
Order Code	price/	set
	1+	5+
166-4787	10.15	9 69



# Socket Set 1/4" + 1/2", 94 pieces



- DURATOOL
- 18 Hexagon Sockets 1/2" drive: 10/ 11/ 12/ 13/ 14/ 15/ 16/ 17/ 18/ 19/ 20/ 21/ 22/ 23/ 24/ 27/ 30/ 32 mm
- 4 Hexagon Sockets 1/2" deep drive: 14/15/ 17/ 19 mm
- 2 Spark Plug Sockets: 16 und 21 mm
- 1 1/2"Ratchet Handle
- 2 Extensions: 125 and 250 mm
- 3 Hexagon Keys 1,5/ 2/ 2,5 mm
  - 1 Kardangelenk
- 1 Adapter from 1/2" to Allen screw
- 1 Adapter for T-Handle
- 15 Screwdriver Sockets
- 13 Hexagon Sockets 1/4" drive: 4/4,5/ 5/ 5,5/

6/7/8/9/10/11/12 13/14 mm

- 8 Hexagon Sockets 1/4" deep drive: 6/ 7/ 8/ 9/ 10/ 11/ 12/ 13 mm
- 1 1/4" Ratchet Handle
- 2 Extensions: 50 and 100 mm
- 1 flexible Extension
- 1 T-Handle
- 1 Universal Joint
- 1 Adapter from 1/4" to Allen Screw
- 1 Screwdriver Handle
- 17 Screwdriver Sockets
- Blow moulded case

497350

	Price Each			
Order Code	1+	5+	10+	20+
152-8998	55.86	51.76	46.56	41.41

# 75 Piece AF/BA/Metric - 1/4" Square Drive 'Expert Range'





H=51, W=425, D=210

- The 'Expert Range' is a professional quality socket set featuring highly finished triple chrome plated sockets and accessories
- The case is blow moulded in a resilient plastic which accurately holds the contents in labelled spaces

# Contents:

222961

**DURATOOL** 

New

9 Hexagon AF Sockets: 12 Hexagon MM Sockets: 4 Hexagon BA Sockets:

6 Hexagon AF Deep Sockets: 10 Hexagon MM Deep Sockets: Reversible Ratchet, Sliding Tee Bar, Flexible Handle,

Bit Holder 25 Insert Bits 1/4" Hexagon:

3 Hex AF 7 Torx:

3/16" 7/32" 1/4" 3/32" 5/16" 11/32" 3/8" 7/16" 1/2"AF 7,6 7,8 9, 10, 11, 12, 13mm 0, 2, 4, 6 BA %16", 1/4", 5/16", 3/6", 7/16", 1/2" AF

4, 5, 5.5, 6, 7, 8, 9, 10, 11, 13mm

2", 3", 6" Extension Bars, 6" Flexible Extension Bar, Spinner Handle. 1/4" x 1/4" Hexagon. 4 Plain Slot 3.0, 4.0, 5.5, 7.0mm. 3 Crosspoint No. 1, 2, 3.3

Pozidrive No. 1, 2, 3. 5 Hex mm 3, 4, 5, 6, 7.

T10, T15, T20, T25, T27, T30, T40.

223331

Mftrs. List No.	Order Code	Price Each 1+
18966	106-088	73.06

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# 37 Piece Combination Set

4 and 6WD



# Professional 37 piece metric/imperial combination wrench and socket

- 3/8" and 1/4" drive Metrinch 4 and 6 wall drive profile
- Chrome vanadium steel, chrome plated and polished
- Supplied in heavy duty plastic case Metrinch is a trademark of Surelab, USA

**Imperial** 

3/16, 1/4, 9/32, 5/16, 11/32, 3/8



**Metrinch**°



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Ž		'

231779

Wall - Socket	10. 11. 12. 13. 14. 16. 17. 19	3/8, 7/16, 15/32, 1/2, 9/16, 5/8, 11/16, 3/4
3/8" Drive Socket	10, 11, 12, 14, 17, 19	3/8, 7/16, 15/32, 1/2, 9/16, 11/16, 3/4, 7/8
Combination Wrenches	10, 11, 12, 14, 16, 17, 19	3/8, 7/16, 15/32, 9/16, 5/8, 11/16, 3/4

Metrinch

	Price Each
Order Code	1+
321-6913	121.60

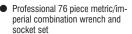
### 76 Piece Combination Set 4 and 6WD

Metric

1/4" Drive - Socket 5, 6, 7, 8, 9, 10

3/8" Drive Deep





- 1/4", 3/8" and 1/2" drive
- Metrinch 4 and 6 wall drive profile
- Chrome vanadium steel, chrome plated and polished
- Supplied in a heavy duty plastic case

Metrinch is a trademark of Surelab



3/16, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 15/32, 1/2 3/16, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 15/32, 1/2

1-1
NAME OF THE OWNER OWNER OF THE OWNER

**BAHCO** 

New

	USA	
Size Metric	Imperial	

1/4" Drive - Socket 1/4" Drive Deep Wall -	5 5
Socket	
3/8" Drive Socket	1

3/8" Drive Socket

, 6, 7, 8, 9, 10, 11, 12, 13 , 6, 7, 8, 9, 10, 11, 12

 $\textbf{Combination Wrenches} \ \ 10, \ 11, \ 12, \ 13, \ 14, \ 15, \ 16, \ 17, \ 18, \ 19, \ \ 34, \ 3/16, \ 25/32, \ 1/2, \ 9/16, \ 19/12, \ 5/8, \ 11/16, \ 23/32, \ 1/2, \$ 

	Price Each
Order Code	1+
321-6925	192.20

# 25 Pieces Socket set 1/4" drive Dynamic-Drive-ProfileTN



Matt Chrome-plated finish







# Set contents:

12 pcs 1/4" 6-pt Sockets Dynamic-Drive-ProfileTM 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13 mm 1 pcs Ratchet 1/4" compact length only 125 mm with two components handle, and quick release button

2 pcs bit 1/4" PH 2

2 pcs bit HEX 5 , 6 6 pcs bit TORX 10, 15, 20, 25, 30, 40

1 pcs bit holder 1/4" with locking spring , 1/4" female square

1 pcs 1/4" Wobblers Extension bar, length 100 mm

1 poo 1/ 1 Wobbiolo Exto	noion bar , iongar	100 111111		527308	3
			Price Per Set		
Set	Order Code	1+	5+	10+	
SL25	167-1619	19.95	18.95	17.95	

# 91 Piece Socket set 1/4" and 1/2" & Combination Spanners

with Dynamic-Drive-Profile



Finish: Matt Chrome-plated Material: Chrome Vanadi-



**BAHCO** 

12 pcs 1/4" 6-pt Sockets Dynamic Drive 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm 10 pcs 1/4" 6-pt Deep Sockets Dynamic Drive 4 5 6 7 8 9 10 11 12 13 mm 13 pcs 1/2" 6-pt Sockets Dynamic Drive 10 11 12 13 14 15 17 19 22 24 27 30 32 mm

2 pcs 1/4" Extension bars 2" & 4" 1 pc 1/4" Sliding T-bar

1 pc 1/4" Universal joint 1 pc 1/4" Bit holder

1 pc 1/4" Bit adapter 1 pc 1/4" Spinner handle

1 pc 1/4" Spinner handle
1 pc 1/4" Magnetic adapter
4 pcs 1/4" Bits phillips # 0,1,2 and 3
3 pcs 1/4" Bits Paid 4 5.5 7 mm
3 pcs 1/4" Bits Poidriv # 1,2 and 3
6 pcs 1/4" Bits Hex 3 4 5 6 8 10 mm
8 pcs 1/4" Bits Tox 8 10 15 20 25 27 30 40
3 pcs 1/4" Bits Tox 8 10 15 20 25 27 30 40

3 pcs 5/16" Bits Torx 45 50 55 2 pcs 1/2" Extension bars 5" & 10

2 pcs 1/2 Extension bats 5 & 10 1 pc 1/2" Universal joint 1 pc 1/2" Spark Plug Socket 6-pt 21 mm(13/16") 1 pc 1/2" x 5/16" Bit holder 1 pc 1/2" 1-adapter 3 pcs L-keys Hex 1.5 2 2.5 mm

1 pc 1/4" Ratchet handle 45 teeth 1 pc 1/2" Ratchet handle 54 teeth

4 pcs Flex Head Wrenches 8-9 10-11 12-13 14-15 mm

6 pcs Comb.Wrenches 8 10 12 13 14 17 mm

527314 Price Per Set Set Order Code 1+ 10+ 5+ S910 167-1618 144.00 136.80 129.60

# Socket set 1/4" and 1/2" drive and **Combination spanners**

with Dynamic-Drive-Profile





Material: Chrome Vanadi-



Case Material: High Density Polythene (HDPE)

12 pcs 1/4" 6-pt Sockets Dynamic Drive 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm

9 pcs 1/4" 6-pt Deep Sockets Dynamic Drive 4 5 6 7 8 9 10 11 13 mm 15 pcs 1/2" 6-pt Sockets Dynamic Drive 10 12 13 14 15 16 17 18 20 21 23 24 27 32 34 mm

9 pcs 1/2" 6-pt Sockets Dynamic Drive AF 3/8 7/16,(11) 1/2 9/16 11/16 3/4,(19) 13/16 7/8,(22) 1-3/16" 4 pcs 1/2" 6pt- Impact sockets 17 19 21 24 mm

4 pcs 1/4" Socket drivers PH 1 2 3 4 3 pcs 1/4" Socket drivers Flat 4 5.5 7mm

6 pcs 1/4" Socket drivers Hex 3 4 5 6 8 10 mm 2 pcs 1/4" Extension bars 50 mm / 2" & 100 mm / 4"

1 pce 1/4" Sliding T-bar 100 mm / 4" 1 pce 1/4" Universal joint

1 pce 1/4" Spinner with two components handle 2 pcs 1/2" Extension bars 125 mm / 5" & 250 mm / 10"

1 pce 1/2" Universal joint 1 pce 1/2" Universal joint 1 pce 1/2" Spark Plug Socket 6-pt 21 mm (13/16") 1 pce 1/2" T-adapter

3 pcs L-Keys Hex 1.5 2 2.5 mm







Fax: 08447 11 11 12 1959

# Socket Sets - 1/4" - continued

# Socket set 1/4" and 1/2" drive and Combination spanners - continued with Dynamic-Drive-Profile - continued

### Set Content:

- 1 pce 1/4" Ratchet with two components handle, 60 teeth
- 1 pce 1/2" Ratchet with two components handle, 60 teeth
- 4 pcs Flex Head spanners 8-9 10-11 12-13 14-15 mm 13 pcs Combination spanners 7 8 9 10 11 12 13 14 15 16 17 18 19 mm on practical removable tool-rack

1 pce Removable three section plastic box with lid

		Price Per Set		
Set	Order Code	1+	5+	10+
S87+7	167-1617	173.00	164.35	155.70

# Socketry 1/4" Drive Sets





### \$160

Manufactured from matt chrome-plated vanadium steel conforming to ISO standards. Supplied in an impact proof, oil and temperature resistant polypropylene transport case.

The S160 set contains:-

- Sockets with Dynamic Drive 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm
- Ratchet handle
- Sliding T-bar
- Extension bar, 75mm
- Flexible extension bar. 150mm

		Price Per Set			
Set	Order Code	1+	5+	10+	20+
S160	135-6167	19.16	18.68	18.23	17.60



The S290 set contains:-

- Sockets with Dynamic Drive Profile 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm
- Phillips bit sockets No. 1, 2, 3Slotted bit sockets 4, 5.5, 7mm
- Hex bit sockets 3, 4, 5, 6, 8mm Extension bars, 50mm and 150mm
- Sliding T-bar
- Universal joint
- Spinner handle Ratchet handle

			Price	Per Set	
Set	Order Code	1+	5+	10+	20+
S290	135-6168	38.60	37.82	37.07	36.06



The S460 set contains:-

- Sockets with Dynamic Drive 4, 4.5, 5, 5.5, 6, 7, 8. 9. 10. 11. 12. 13mm
- Phillips bit sockets No. 1, 2, 3, 4
- Socket drivers slotted 4, 5.5, 7mm
- ●Socket drivers Hex 3, 4, 5, 6, 8, 10mm
- ●Socket drivers Torx 8, 10, 15, 20, 25, 27, 30
- ●Socket Torx E6, E7, E8
- Spinner Disc Extension bars, 50mm and 100mm
- ●Sliding T-bar
- Universal joint
- Spinner handle
- •Flexible extension bar, 150mm
- ●L-Keys Hex 1.5, 2, 2.5mm
- Ratchet handle

488115

		Price Per Set			
Set	Order Code	1+	5+	10+	20+
S460	135-6169	66.04	64.72	63.42	61.70

# Help us to help the environment



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# Socket wrench set, 1/4"

### 37-piece





GEDORE //



- With forged, tempered hexagon profile socket wrench sets, manually actuated from Gedore vanadium steel 31CrV3
- Screwdriver bits from Gedore vanadium special steel
- Adjustable with ratchet T-handle and telescopic extension of 186-296mm In plastic box, dimensions 200 x 120 x 38mm
- "Check-Tool-System": check for completeness via 2-coloured plastic inlay

Mftrs' List No. Order Code Ratchet Bits U-3 T Outer hexagon: 4 5 6 7 8 9 10 11 12 13 mm

Slot: 4 6 5 mm Inner hexagon: 3 4 5 6 mm Inner dodecahedron: 5 6 8 mm Torx: T8 T9 T10 T15 T20 T25 T27 T30 T40

Phillips: PH1 PH2

20 XLU-3 T 135-7704 Pozidriv: PZD1 PZD2 PZD3 Cardan joint

Extension

Accessories Weight Bit holder 0.8 kg

469247 Price Each Mftrs' List No. Order Code 1+

135-7704

# Socket wrench set, 1/4"

20 XLU-3 T



75.93

79.23



 With forged, tempered unit drive profile socket wrench sets, manually actuated and actuating tools from Gedore vanadium steel 31CrV3

82.54

In plastic box, dimensions 200 x 120 x 38mm

Mftrs' List No. Order Code Ratchet Bits

U-20 Outer hexagon: Unit Drive 4 5 6 7 8 9 10 11 12 13 mm Slot: 4 5.5 6.5 mm Inner hexagon: 3 4 5 6 mm Multi-point: 5 6 8 mm Torx: T10 T15 T20 T25 T27 T30 T40 Phillips: PH1 PH2

Pozidriv: PZD1 PZD2 PZD3

Accessories Weight 656 g Rit adanter Multi-arin

		Price	Each
Mftrs' List No.	Order Code	1+	3+
D 20 KMU-20	135-7703	89.75	86.18

# addigrip driver set® compact 1/4" with 31-piece Rastoflex®,

D 20 KMU-20 135-7703



469963



location with minimal space require-

Flexible head ratchet®. Rastoflex System®. fine-

1/4" Socket spanner inserts, 6-sided SW 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm Screwdriver inserts: Torx with face bore:TX10 - TX15 - TX20 - TX25 - TX27 - TX30 - TX40

Internal hex 3 - 4 - 5 - 6 - 8 - 10 mm Extensions 50, 100 mm

Knuckle joint, anti-slip grip Machine adaptor 1/4" square x 1/4" hex,

Steel-Steel toolbox compact addi-Lenath 50 mm Minimus grip change

tool bit connection¼" with magnetic collet Permanently fast tool change using

41	33	80

		Price Each			
Mftrs. List No.	Order Code	1+	3+	5+	
4004.81TK.	979-1370	75.08	71.42	67.56	



grip series:

technically correct

# addigrip driver set® compact 1/4"

carolus W

with reversible ratchet and lever switch-over, 32-piece



Reversible ratchet  $^{\tiny{\circledR}},$  lever switch-over, oval head

<u>1/4" Socket spanner inserts 6-sided</u> SW 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm Screwdriver inserts:

Torx with face bore:TX10 - TX15 - TX20 - TX25 -TX27 - TX30 - TX40

Internal hex 3 - 4 - 5 - 6 - 8 - 10 mm

Extensions 50, 100 mm Knuckle joint, anti-slip grip

Machine adapter 1/4" square x 1/4" hex, Length 50 mm

Minimus grip change hex shaft with 1/4" collet tool bit connection1/4" with magnetic collet

### Steel-Steel toolbox compact addigrip series:

Permanent fast tool change using technically correct location with minimal space requirement.

				413358
		Price Each		
	Order code	1+	3+	5+
4004.79.	979-1353	48.18	45.84	43.31

# addigrip driver set® compact 1/4" with 31-piece Rastoflex®,



Flexible head ratchet®, Rastoflex System®, fine-

1/4" Socket spanner inserts, 6-sided SW 4 - 4.5 - 5 - 5.5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm Screwdriver inserts:

Torx with face bore:TX10 - TX15 - TX20 - TX25 -TX27 - TX30 - TX40

Internal hex 3 - 4 - 5 - 6 - 8 - 10 mm Extensions 50, 100 mm Knuckle joint, anti-slip grip Machine adaptor 1/4" square x 1/4" hex,

Length 50 mm Minimus grip change

tool bit connection1/4" with magnetic collet

Steel-Steel toolbox compact addigrip series: Permanently fast tool change using

technically correct

location with minimal space requirement.

413378

**BRITOOL** 

carolus

		Price Each			
Mftrs. List no.	Order Code	1+	3+	5+	
4004.81.	979-1361	62.62	59.53	56.34	

# **Socket Set**

1/4in Square Drive 46 Piece Metric Socket Set



# Contents:

Quick release fine tooth ratchet Spinner handle Slidng T handle

100mm & 50mm extensions, 150mm flexible exten-

Universal joint 1/4" Hex - 1/4" Square adaptor 1.3, 1.5, 2 & 2.5mm hex keys

13 x Hexagon sockets: 4-14mm 6 x Hex bit sockets: 3-8mm

6 x Torx® bit sockets: TX10-40 3 x Pozidriv® bit sockets: PZ1-PZ3

3 x Slotted bit sockets: 4-7mm 3 x Phillips® bit sockets: PH1-3

487746

	Price Each				
Order Code	1+	5+	10+	20+	
141-8809	57.78	56.63	55.50	54.39	

# Coming soon



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.

50 Piece AF/BA/Metric -1/4", 3/8" and 1/2" Square Drive 126 Piece Equivalent











Metrinch® sockets have a patented 6 wall drive design that protects nuts and bolts from damage and eases removal of old rusty or worn hexagonal fasteners. Each socket can fit up to four different metric and imperial sizes. All parts are made from chrome plated, chrome

The set is supplied in an accurately made plastic case that holds the set securely. The ratchet handle has a positive lock mechanism that holds the attached socket or extension bar firmly in place

### Contents: **Sockets and Spanners**

	_	_	_	$\overline{}$					
Metric	AF	ww	BSF	BA	1/2" Socket	3%" Socket	34" Long Socket	1/4" Socket	Spanner
5mm	3/16"			6				1	
6mm	1/4"			4				1	
7mm	9/32"			3				1	
8mm	5/16"			2				1	
9mm	11/32"			6				1	
10mm	3/8"					1	1	1	1
11mm	7/16"	3/16"	1/4"			1	1		1
12mm	15/32"					1	1		
13mm	1/2"					1	1		1
14mm	9/16"	1/4"	5/16"			1	1		1
16mm	5/8"	5/16"	3/8"			1	1		1
17mm	11/16"				1	1	1		1
19mm	3/4"	3/8"	7/16"		1				1
20mm	13/16"	7/16"	1/2"		1				1
21mm	13/16"	7/16"	1/2"		1		1		
22mm	7/8"				1				
24mm	15/16"	1/2"	9/16"		1				
27mm	11/16"	5/8"	11/16"		1				
30mm	13/16"	11/16"	3/4"		1				
32mm	11/4"	3/4"	7/8"		/				

27mm and 16mm spark plug sockets 400mm breaker bar 230mm ½" drive ratchet handle

180mm %" drive ratchet handle 250mm, 152mm, 75mm Wobble 1/2" extensions

METRICH® is a trademark of Surelab, USA

152mm and 75mm %" extensions %" and %" universal joints %" to 1/4" drive adaptor 152mm combined 1/4" extension/drive handle, and a 1/2" drive sliding head that used with an extension bar makes a 'T' bar

223338

	Price Each
Order Code	1+
282-613	148.19

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# Socket Sets - 1/4" - continued

# Socket Set 1/2in Drive

1/4 & 1/2in 94 Piece Socket Set



Manufactured from chrome alloy steel. Set includes 1/4 and 1/5 in square drive ratchet handles, 1/4 and 1/5 in universal joints, 1/4 and 1/2 in sliding T bars, 1/4 in drive 50 and 100mm extensions 1/2in drive 125mm extension. Supplied in a blow moulded case.

Contents

Hexagon sockets 1/4in drive 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm

Hexagon sockets

1/4in drive deep 6, 7, 8, 9, 10, 11, 12, 13mm

Hexagon sockets

½ drive 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32mm

Hexagon sockets

½in drive deep 14, 15, 17, 19, 22mm

Spark plug sockets 16, 21mm

Slotted screwdriver sockets 1/4in drive 4, 5.5 and 6.5mm

Pozidriv screwdriver sockets 1/4in drive No1, No2

Phillips screwdriver sockets 1/4in drive No1, No2 Torx screwdriver sockets 1/4in drive T8, T10, T15, T20, T25, T27, T30 Hex sockets

1/4in drive 3, 4, 5, 6mm Hex bits slotted 8, 10, 12mm

Hex bits Pozidriv No3, No4

Hex bits Phillips No3, No4 Hex bits Torx T40, T45, T50, T55

Hex bits 7,8, 10, 12, 14mm

3 x Hexagon keys

1 x 1/2 inch hexagon bit adaptor

491541

Order Code	Price Each 1+
152-8998	55.86

# 1/4" Drive Clip Rail Set





6WD Socket



231034

- High quality 9 piece clip rail set
- Metrinch 6 wall drive profile
- Chrome vanadium steel, chrome plated and polished
- Conform to DIN 3124 Metrich is a trademark of Surelab, USA

Size

45

 $\begin{array}{c} \textbf{Imperial} \\ 5,6,7,8,9,10,11,12,13 mm 3/16,1/4,9/32,5/16,11/32,3/8,7/16,1/2 \text{ "} \end{array}$ 

	Price Each
Order Code	1+
321-6883	17.42

# Reversible Ratchet 1/4"



- 6950 Reversible ratchet with ¼ drive, 12° action, 30 teeth, plastic handle and for-ward/reverse lever in head
- 6950RN Revsersible ratchet with 1/4" drive, close 6° action, 60 teeth, plastic handle and forward/reverse knurled lever in head
- Chrome vanadium extra finish
- Conform to DIN 3122 and DIN 3123

Mftrs. List No.	Order Code	1+	4+	Price Each	20+	40+
6950	707-8791	24.90	23.90	22.90	21.90	19.32
6950RN	707-8808	22.55	21.65	20.75	19.85	17.51

# 1/4" Drive Bar

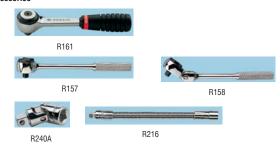


- Made from chrome vanadium steel
- Forward/Reverse
- action
- Plastic handle at end for comfort
- Length 140mm

### Price Each Mftrs. List No. **Order Code** 20+ 146-0031 151-8440

# Spanners And Sockets

Accessories



				Price Eac	h
Number	Description	Order Code	1+	5+	10+
R161	Ratchet, non slip handle	352-3354	24.97	22.81	20.79
R157	Ratchet, steel handle, long reach,	137-4358	27.53	26.98	26.44
R158	Ratchet, steel handle, long reach, hinged	137-4359	35.19	34.49	33.79
R240A	Universal joint	352-3378	10.81	10.39	9.61
R216	Flexible extension 150mm	137-4335	10.39	10.18	9.99
R209	Extension 55mm	352-3550	3.93	3.77	3.49
R217	Extension 250mm	137-4336	13.11	12.84	12.59

# Socket Sets - 3/8"

8100 SB 1 Zyklop ratchet set, 3/8" drive, metric 23 piece set in strong metal case



New

486300

**FACOM** 





- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, and 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$   $6^{\circ}$  Multicomponent Kraftform handle for comfort and torque

Wallicomponent Walliom Handle for Comfort and Corque		
Set content:	length	
1 Zyklop ratchet	3/8" x 199mm	
18 Zyklop sockets (metric)	6,0; 7,0; 8,0; 9,0; 10,0; 11,0; 12, 13,0; 14,0; 15,0 x 29mm   16,0; 17,0; 18,0; 19,0; 20,0; 21,0; 22,0 x 30mm   24,0 x 32mm	
2 Zyklop extensions with freewheel sleeve	3/8" x 125mm and 3/8" x 200mm	
1 T-handle	3/8" x 165mm	
1 universal joint	3/8" x 50mm	

517274

**√** ‱**Wer**α

		Price I	Each
Mftrs. List No.	Order Code	1+	5+
8100 SB 1	158-0997	130.20	123.70

# 8100 SB 2 Zyklop ratchet set, 3/8 "drive, metric 43 piece set in strong metal case









- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, and 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$   $6^{\circ}$
- Multicomponent Kraftform handle for comfort and torque

Set content:	length
1 Zyklop ratchet	3/8" x 199mm
18 Zyklop sockets (metric)	6,0; 7,0; 8,0; 9,0; 10,0; 11,0; 12, 13,0; 14,0; 15,0 x 29mm 16,0; 17,0; 18,0; 19,0; 20,0; 21,0; 22,0 x 30mm 24,0 x 32mm
2 Zyklop flexible-lock" extensions with freewheel sleeve	3/8" x125mm and 3/8" x 200mm
1 T-handle	3/8" x 165mm
1 wobble extension	3/8" x 76mm
1 universal joint	3/8" x 50mm
1 adaptor with quick-release chuck	1/4" x 3/8" x 44mm
18 bits	Slotted: 1,0 x 5,5 x 25mm Hex-Plus: 3,0; 4,0; 5,0; 6,0; 8,0; 10,0 x 25mm Phillips: 2; 3 x 25mm Pozidriv: 2; 3 x 25mm TORX® BO: 10; 15; 20; 25; 27; 30; 40 x 25mm

317333
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		Price	Each	
Mftrs List No.	Order Code	1+	5+	
8100 SB 2	158-0998	155.40	147.60	

# 8100 SB 3 Zyklop ratchet set, 3/8" drive, imperial 17 piece set in strong metal case







- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, and 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$   $6^{\circ}$
- Multicomponent Kraftform handle for comfort and torque

Set content:	length
1 Zyklop ratchet	3/8" x 199mm
12 Zyklop sockets (imperial)	1/4"; 5/16"; 11/32"; 3/8"; 7/16"; 1/2"; 9/16" x 29mm 5/8"; 11/16"; 3/4"; 13/16"; 7/8" x 30mm
2 Zyklop extensions with freewheel sleeve	3/8" x 125mm and 3/8" x 200mm
1 T-handle	3/8" x 165mm
1 universal joint	3/8" x 50mm

		Price E	ach
Mftrs List No.	Order Code	1+	5+
8100 SB 3	158-0999	116.80	110.90

# 8100 SB 4 Zyklop ratchet set, 3/8" drive, imperial 38 piece set in strong metal case







Rotating mass design and handy freewheel sleeve for faster work

Swivelling ratchet head

Defined lock positions at 0°, 15°, and 90° right and left

Can be used like a conventional screwdriver Pushbutton release

CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$  -  $6^{\circ}$ 

Set content:	length
1 Zyklop ratchet	3/8" x 199mm
12 Zyklop sockets (imperial)	1/4"; 5/16"; 11/32"; 3/8"; 7/16"; 1/2"; 9/16" x 29mm 5/8"; 11/16"; 3/4"; 13/16"; 7/8" x 30mm
2 Zyklop flexible-lock" extensions with freewheel sleeve	3/8" x125mm and 3/8" x 200mm
1 T-handle	3/8" x 165mm
1 wobble extension	3/8" x 76mm
1 universal joint	3/8" x 50mm
1 adaptor with quick-release chuck	1/4" x 3/8" x 44mm
19 bits	Slotted: 1,0 x 5,5 x 25mm Hex-Plus: 5/64", 3/32"; 1/8"; 9/64"; 5/32"; 3/16"; 7/ 32" x 25mm Phillips: 2; 3 x 25mm Pozidriv: 2; 3 x 25mm TORX® B0: 10; 15; 20; 25; 27; 30; 40 x 25mm

517355

		Price I	Each
Mftrs List No.	Order Code	1+	5+
8100 SB 4	158-1000	142.00	134.90

# 23 Piece 'SURE DRIVE' 3/8" Socket Set





- Bi-hex metric socket set forged from chrome vanadium alloy steel for long life
- Two-tone chrome finish for maximum resistance to shock and peeling 'Sure Drive' system exterts torque through the flats of the socket rather than the corners, eliminating rounding off at high torque
- Ratchet features a soft grip, dual compound handle

# **Contents:**

- 1/4" 45 tooth quick release ratchet
- Bi-hex sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24mm

Order Code

- 75mm extension
- 150mm extension/driver
- Universal joint

Mftrs List No.

- T-bar / 1/2" Adaptor

	419495, 422835
ice Each	

# 42 Piece AF/BA/Metric - 3/8" Square Drive 'Expert Range'





- The 'Expert Range' is a professional quality socket set featuring highly finished chrome plated sockets and accessories
- The case is blow moulded in a resilient plastic which accurately holds the contents in







# Socket Sets - 3/8" - continued

# 42 Piece AF/BA/Metric - 3/8" Square Drive - continued 'Expert Range' - continued

Contents:

9 Bi-Hex AF Sockets: ¼4", 5%6", 5%", 7%6", ½2", 5%6", 5%1, 11√6", ¾4" AF
17 Bi-Hex Metric Sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22mm
4 Bi-Hex BA Sockets: 0, 2, 4, 6 BA
3 Bi-Hex Sockets for 10, 12 and 14mm Spark Plugs

Reversible Ratchet, Sliding Tee Bar, Flexible Handle, 3", 6", 8", 12" Extensions Bars Universal joint, Spinner Handle

		22333
Mftrs.		Price Each
List No.	Order Code	1+
18970	106-086	73.44

# Kamasa 50 Piece 3/8in Drive Metric/Imperial Socket Set



Set contains:- Sockets metric 8mm to 22mm Sockets imperial %in to 12/16in 9 accessories.

All contained in a blow moulded carrycase.

	494105
Order Code 049-501	<b>Price Each</b> 1+ 36.60

# 3/sin Square Drive Chrome Alloy Steel Accessories

**BRITOOL** 

3/sin Accessories



Number	Description
A46	Ratchet 72 teeth reversible, quick release, polyproylene handle
A77	Ratchet, roller bearing mechanism, polyproplene handle
A70	Sliding T bar
A91	Universal joint
APES	Adapter
	%in male x ½in female
ASEP	Adapter
	%in female x ½in male

Number	Order Code	Price Each 1+
A46	137-7753	32.07
A77	141-8367	29.17
A70	137-7728	8.93
A91	137-7729	17.10
APES	137-7724	5.32
ASEP	137-7725	5.42

# **Socket Accessories**

%in Square Drive



Description	Order Code	Price Each 1+
Reversible ratchet fine tooth	248-681	22.90
Sliding T handle	248-682	7.22
Extension 125mm 5in	248-684	7.49
Extension 220mm 9in	248-685	8.73
Universal joint	248-686	12.50
Swivel handle	248-687	16.80
Adaptor %in- 1/4in	155-3739	1.40
Adaptor %in- ½in	248-690	6.41

# **Facom Accessories**



EACOM

Number	Description	Order Code	Price Each 1+
J.158	Ratchet, steel handle, long reach, hinged	137-4362	45.97
J.120	Sliding, T bar	137-4337	8.97
J.140	Hinged handle	137-4338	20.97
J.110	Speed brace	137-4339	11.63
J.240A	Universal joint	137-4340	13.31
J.208	Extension 50mm	137-4341	7.08
J.209	Extension 75mm	137-4342	7.08
J.210	Extension 125mm	137-4343	7.19
J.215	Extension 250mm	137-4344	10.60
J.217	Extension 500mm	137-4346	16.75

# Socket Sets 1/2"

8100 SC 1 Zyklop ratchet set, 1/2" drive, metric

∛SWerα 22 piece set in strong metal case New





- Rotating mass design and handy freewheel sleeve for faster work Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release

Mftrs List No.

- CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$   $6^{\circ}$
- Multicomponent Kraftform handle for comfort and torque

Set content:	length
1 Zyklop ratchet	1/2" x 277mm
17 Zyklop sockets (metric)	10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 x 37mm 27 x 40mm 30; 32 x 42mm
2 Zyklop extensions with freewheel sleeve	1/2" x 125mm and 1/2" x 250mm
1 T-handle	1/2" x 250mm
1 universal joint	1/2" x 69mm

5+

517424

158.80

₩SWerα

New

Order Code 8100 SC 1 158-1001 167.20

# 8100 SC 2 Zyklop ratchet set, 1/2" drive, metric







- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release

www.farnell.co.uk

- CW/ACW toggle, fine-pitched tooth design, with small return angle of 5° 6°
- Multicomponent Kraftform handle for comfort and torque





Set content:	length
1 Zyklop ratchet	1/2" x 277mm
17 Zyklop sockets (metric)	10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 x 37mm 27 x 40mm 30; 32 x 42mm
2 Zyklop flexible-lock" extensions with free- wheel sleeve	1/2" x 125mm and 1/2" x 250mm
1 wobble extension	1/2" x 52mm
1 T-handle	1/2" x 250mm
1 universal joint	1/2" x 69mm
1 adaptor with quick-release chuck	1/2" x 5/16" x 50mm
13 bits	Hex-Plus: 5; 6; 8; 10 x 30mm Phillips: 3 x 32 Pozidriv: 3 x 32mm TORX®: 20; 25; 30; 40; 45; 50; 55 x 35mm

51/42	8

		Price Each		
Mftrs List No.	Order Code	1+	5+	
8100 SC 2	158-1002	197.40	187.50	

# 8100 SC 3 Zyklop ratchet set, 1/2" drive, imperial



New

23 piece set in strong metal case





- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of 5° 6°
- Multicomponent Kraftform handle for comfort and torque

Set content:	length
1 Zyklop ratchet	1/2" x 277mm
18 Zyklop sockets (imperial)	3/8"; 7/16"; 1/2"; 9/16"; 19/32"; 5/8"; 11/16"; 3/4"; 25/ 32"; 13/16"; 7/8"; 15/16"; 31/32" x 37mm 1"; 1 1/16"; 1 1/18" x 40mm 1 3/16"; 1 1/4"x 42mm
2 Zyklop extensions with freewheel sleeve	1/2" x 125mm and 1/2" x 250mm
1 T-handle	1/2" x 250mm
1 universal joint	1/2" x 69mm

517431

		Price	Each
Mftrs List No.	Order Code	1+	5+
8100 SC 3	158-1003	178.10	169.20

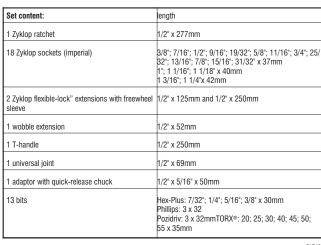
# 8100 SC 4 Zyklop ratchet set, 1/2" drive, imperial







- Rotating mass design and handy freewheel sleeve for faster work
- Swivelling ratchet head
- Defined lock positions at 0°, 15°, 90° right and left
- Can be used like a conventional screwdriver
- Pushbutton release
- CW/ACW toggle, fine-pitched tooth design, with small return angle of  $5^{\circ}$   $6^{\circ}$
- Multicomponent Kraftform handle for comfort and torque



517435

		Price Each		
Mftrs List No.	Order Code	1+	5+	
8100 SC 4	158-1005	205.80	195.50	

# Socket set with Dynamic-Drive Profile



- Hexagon socket set in Metric sizes 10 32 mm on plastic rail with holder
- Includes reversible ratchet S82
- Nickel and matt chrome-plated finish
- Material: VANADIUM-EXTRA





		Price Per Set		
Set	Order Code	1+	5+	10+
S80/17	167-1616	74.95	71.20	67.45

# 40 Pieces Socket set 1/2" drive & Combination spanners with Dynamic-Drive Profile



- Finish: Matt Chrome-plated Material: Chrome Vanadi-
  - Case Material: High Density Polythene (HDPE)





# Set Content:

21 pcs 1/2" 6-pt Sockets Dynamic Drive: 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 32 mm

2 pcs 1/2" Extension bars 5" & 10"

1 pce 1/2" Universal joint

1 pce 1/2" T-adapter

1 pce 1/2" Breaker bar with two component handle 10" with flexible 1/2 square

1 pce 1/2" Ratchet with two component handle , 60 teeth

7 8 9 10 11 12 13 14 15 16 17 18 19 mm on practical removable tool-rack

1 pce Removable three section plastic box with lid

		Price Per Set		
Set	Order Code	1+	5+	10+
S400	167-1615	135.00	128.25	121.50







# Socket Sets 1/2" - continued

# Socket set 1/2" drive, metric with Dynamic-Drive Profile





- Matt Chrome-Plated finish
- Material: Chrome Vanadium
- Case Material: High Density Polythene (HDPE)
- DIN3120/ ISO 1174

18 pcs 1/2" 6-pt Sockets Dynamic Drive 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 30 32 mm

- 2 pcs 1/2" Extension bar 5" & 10" 1 pce 1/2" Universal joint

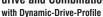
- 1 pce 1/2" T-adapter 1 pce 1/2" Breaker bar with two components handle 10" with flexible 1/2" square
- pce 1/2" Ratchet with two components handle, 60 teeth
- 1 pce Removable three section plastic box with lid

527331	

		Price Per Set		
Set	Order Code	1+	5+	10+
S240	167-1614	79.00	75.05	71.10

# 106 Pieces Socket set 1/4" and 1/2" drive and Combination spanners







- Finish: Matt Chrome-plat-
- Material: Chrome Vanadium. Case: High Density Polythene (HDPE)



12 pcs 1/4" 6-pt Sockets Dynanic Drive 4 4.5 5 5.5 6 7 8 9 10 11 12 13 mm

10 pcs 1/4" 6-pt Deep Sockets Dynamic Drive 4 5 6 7 8 9 10 11 12 13 mm 15 pcs 1/2" 6-pt Sockets Dynamic Drive 10 12 13 14 15 16 17 18 20 21 23 24 27 32 34 mm

9 pcs 6-pt Sockets Dynamic Drive AF 3/8 7/16 (11) 1/2 9/16 11/16 3/4 (19) 13/16 7/8 (22) 1-3/16" 4 pcs 1/2" 6-pt Impact sockets 17 19 21 24 mm

4 pcs 1/4" Socket drivers Phillips PH 1 2 3 4 3 pcs 1/4" Socket drivers Flat 4 5.5 7 mm

6 pcs 1/4" Socket drivers Hex 3 4 5 6 8 10 mm 3 pcs 1/4"Socket drivers Pozidriv PZ 1 2 3

8 pcs 1/4" Socket drivers Torx T 8 10 15 20 25 27 30 40 2 pcs 1/4" Extension bars 50 mm / 2" & 100 mm / 4"

1 pce 1/4" Sliding T-bar 100 mm / 4" 1 pce 1/4" Universal joint

1 pce 1/4" Spinner with two component handle 2 pcs 1/2" Extension bars 125 mm / 5" & 250 mm /10"

pce 1/2" Universal joint
1 pce 1/2" Universal joint
1 pce 1/2" Spark Plug Socket 6-pt 21 mm (13/16")
1 pce 1/2" T-adapter
3 pcs L-Keys Hex 1.5 z 2.5 mm
1 pce 1/4" Ratchet with two component handle, 60 teeth
1 pce 1/2" Ratchet with two component handle 60 teeth

4 pcs Flex head spanners 8-9 10-11 12-13 14-15 mm 13 pcs Comb.spanners 7 8 9 10 11 12 13 14 15 16 17 18 19 mm on practical removable tool-rack

1 pce Removable three section plastic box with lid

		527		527332
		Price Per Set		
Set	Order Code	1+	5+	10+
S106	167-1612	199.00	189.05	179.10





- 22 piece metric set in robust stee
- case 'Sure-Drive' sockets grip on the flat of the nut, allowing more torque and eliminating the risk of 'rounding off'
- Forged chrome vanadium steel with matt satin finish

1/2" drive sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32mm Extensions 125mm & 250mm, reversible ratchet, Universal joint, Sliding T handle, 3/8" drive adaptor. Plug sockets 16mm & 21mm

225286,471218

Mftrs.		Price Each
List No.	Order Code	1+
T4657	327-9947	66.32

# 25 Piece AF/Metric - 1/2" Square Drive





H=55, W=160, D=340

- 'Silverdrive' socket sets are good quality and economically priced
- The sockets are made from chrome vanadium steel while the other parts are made
- This gives the best price/performance combination. The carbon steel parts are marginally heavier than if they had been made from chrome vanadium steel. All parts are bright chrome plated
- The sets are supplied in a double skinned case that holds all the parts safely in place
- Ideal for the professional user who does not use a socket set on a daily basis

- **Contents:** 11 Bi-Hex mm Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22mm
- 7 Bi-Hex AF Sockets: %, 7/6, ½, 9/6, 5%, 11/16, 3/4" AF 2 Spark Plug Sockets: 10, 14mm
- 1 \*Tee Bar Head
- 2 Extension Bars: 3" & 10"
- 1 Universal Joint 1 Reversible Ratchet
- The Tee Bar head should be used in conjunction with the 10" Extension Bar to form
- a Sliding Tee Bar.

223333

Mftrs. List No.	Order Code	Price Each
SD25AM	282-108	43.20

# 48 Piece AF/Metric — 1/2" Square Drive 'Expert Range'





- The 'Expert Range' is a professional quality socket set featuring highly finished triple chrome plated sockets and accessories
- The case is blow moulded in a resilient plastic which accurately hold the contents in labelled spaces





### Contents:

22 Bi-Hex MM Sockets: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32mm

20, 27, 28, 30, 516, 114, 9/6, 14, 11/6, 14, 11/6, 14, 11/6, 1, 14, 15, 16, 16, 17, 18, 11/6, 11/6, 18, 11/6, 18, 11/6, Sliding Tee Bar, Universal Joint, Speed Brace

223334

Mftrs.		Price Each
List No.	Order Code	1+
18974	106-087	89.76

# 1/2" Square Drive Socket Set





### Contents:

- Standard lever change rachet
- 6 point sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 28, 30, 32mm
- Adaptor 1/2" x 5/16"
- Universal joint
- Sliding T-handle
- Extensions 75, 125, 250mm

485304

	Price Each		
Order Code	1+	3+	5+
979-1396	79.87	75.93	71.89

# 58 Piece Socket Set 1/2" DR. MM/Bi-Hex



Chrome Vanadium with satin finish. Supplied with blow mould case. Single hex.

# Contents

Sockets: 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23,

300.463. 10, 11, 12, 13, 14, 13, 10, 17, 19, 20, 21, 22, 23
24, 25, 26, 27, 28, 29, 30, 32 mm

1/8", 3/6", 3/4", 3/6", 3/8", 7/6", 3/2", 3/6", 5/8", 11/6", 3/4" WW 3/4",

1/6", ½", 9/6", 1/9/2", 5/8", 11/6", 3/4", 2/5/2", 13/6", 7/6", 7/6", 15/6", 1",

1-1/16", 1-1/8", 1-1/4, AF

Disc type ratchet handle (satin finish, grip handle) Sliding T bar

3" Extension Bar 5" Extension Bar

10" Extension Bar Speeder handle

Universal joint (pin type) ½" Dr flexible handle 15" (satin finish, pin type)

491159

Price Each
1+
293.52

# ½in Square Drive 26 Piece Metric Socket Set





Contents: Quick release fine tooth ratchet 75mm, 125mm, & 250mm extension bars Universal joint Sliding T adaptor 16mm & 21mm spark plug sockets 18 x Hexagon sockets: 10-32mm

	49580
	Price Each
Order Code	1+
141-8810	94.49

# **Chrome Alloy Steel**

**BRITOOL** 







### Price Each Order Code Ratchet 40 teeth reversible, polypropylene handle 137-7938 35.92 E75 E77 Ratchet 40 teeth, reversible, quick release, polypropylene handle Ratchet, roller bearing mechanism, polypropylene handle 137-7961 35.14 Sliding T bar Swivel handle 620mm 24in polypropylene handle F70 137-7937 12 07 32.17 17.67 E86 E91 137-7959 Universal joint 141-8366 7.87 10.72 Adapter ½in female x ¾ in male 141-8364 EPHS Adapter 1/2in male x 3/4in female

# 1/2" Drive Clip Rail Sets

# Standard set: H=45, W=200, Dia.=27 Deep set: H=75, W=200, Dia.=27





223286

**FACOM** 

8 piece clip rail sets of Metrinch® sockets in standard or deep drive A handy way to expand any tool set, with wall drive sockets

# Contents

These sets will accomodate the following sizes:-

MM 10. 11. 12. 13. 14. 16. 17. 19 %, 7/16, ½, 9/16, %, 11/16, ¼ %, ¼, 5/16 WW 1/4, 5/16, 3/8

	Mftrs.		Price Each
	List No.	Order Code	1+
Standard Set	MET0431	559-489	24.09
Deep Set	MET0441	559-490	47.09

# **Socket Accessories**



			Price Each			
Number	Description	Order Code	1+	5+	10+	20+
S.171	Ratchet, safety lock	137-5392	34.88	34.18	33.51	32.42
S.161	Ratchet, palm control	352-3366	28.57	26.72	24.35	
S.110	Speed brace	137-5393	13.87	13.59	13.32	12.89
S.141	Hinged handle	137-5394	25.37	24.85	24.36	23.58
S.120A	Sliding T bar	137-5395	10.86	10.65	10.42	10.10
S.240A	Universal joint	137-5396	13.86	13.58	13.30	12.89
S.206	Extension 52.5mm	137-5397	6.80	6.66	6.54	6.31
S.210	Extension 130mm	352-3597	6.30	6.06	5.52	
S.217	Extension 500mm	137-5399	19.32	18.92	18.55	17.97

# **Socket Accessories**

1/2in Square Drive



		492344
Description	Order Code	Price Each 1+
Ratchet 32 teeth, reversible	248-410	24.16
Ratchet 72 teeth, reversible	248-765	23.41
Sliding T bar	155-3740	4.23
Speed brace	248-755	11.34
Swivel handle 380mm 15in	248-766	18.95
Extension 75mm 3in	155-2588	1.30
Extension 125mm 5in	155-3106	2.27
Extension 250mm 10in	155-3107	3.36
Offset L handle	248-760	6.06
Converter ½ x ¾in	155-2353	1.47
Converter ½ x ¾in	155-2354	3.36







# Socket Sets 3/4"

### 3/4 Socket Sets

3/4in Bi-Hexagon Square Drive



All sets include: reversible ratchet, sliding T bar. extension 200mm 8in and extension 400mm 16in. Bi-Hexagon.

493851

494018

			Price Each
Set	Sockets	Order Code	1+
Metric 14 piece	22, 24, 27, 30, 32, 36, 38, 41, 46, 50mm	248-406	277.10

# 34in Square Drive



Description	Order Code	Price Each 1+
Ratchet 24 teeth, reversible	248-767	75.50
Sliding T bar	248-445	27.69
Swivel handle 495mm 20in	248-446	61.05
Extension 200mm 8in	248-447B	20.52
Extension 400mm 16in	248-448	34.89
Converter ¾ x 1in	248-444	14.35

# **Gripper Nut Driver**





54 spring-loaded hardened steel pins DIN 3120, Style C 10

Replaces nuts from 7mm to 19mm

- Regardless of wheter inch or metric dimensions
- The 54 steel pins fit every nut or screw with an external profile
- For screws up to a height of 8mm
- The Gripper also works on hooks or eyebolts

Max. Profile depth Diameter Gripper 25,4

Dimensions in mm		

		Price Each
Mftrs. Part No.	Order Code	1+
Gripper	871-965	16.12

# **Double Ended Box Spanner Sets**



All sets include tommy bars. Sets number 7 and 9 include two single ended spanners and a 14mm spark plug span-

### **Price Each** Order Code Contents 046-715 22.20 10 046-717 10.91 046-718 11.78 7/16 x 1/2, 9/16 x 5/8, 11/16 x 3/4, 13/16 x 7/8, 15/16 x 11/8in AF 046-719

# **Double Head Socket Spanner sets**



- Two metric, straight, tubular, doublehead socket spanner sets
- Nickel and chrome plated, finely polished
- Conforms to DIN 896-B
- Both sets contain two stepped tommy bars

Type	Contents	Mftrs' List No.	Order
Metric 7pcs	8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm	1936M/7	706-3076
Metric 12pcs	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32mm	1936M/12	706-3088 225233

Order Code	Price Each 1+
706-3076	53.00
706-3088	91.80

# 3 Piece Ratchet Set

# **D** URATOOL



- Drop forged treated heat steel with satin finish
- Quick action reverse lever
- Spring loaded ball bearings hold sockets and accessories securely
- Sizes: 1/4" drive, 3/8 drive, 1/2 drive

					402000	١
	Price/Set					
Order Code	1+	5+	10+	20+	50+	
144-7544	14.61	12.80	11.70	10.96	9.96	

# Vices and Tool Holding

# **Spannfix Clamping Vices**



Bernstein clamping equipment is constructed on ball-and-socket joints, thus enabling it to be rotated and set firmly, in order to create maximum possibilities for work.

Small vice on ball-and-socket joint rotatable in any direction and capable of being set

The "Spannfix" vice simplifies many jobs in precision engineering, inlaboratories, in test rooms and all engineering and electronics workshops.

333839

333840

# Spannfix Screw-On Vice





The small vice with ball-and-socket joint can be mounted quickly and easily onto a work bench or table. Slight pressure on the lever is sufficient, and the clamped workpiece can be moved into any suitable position.

# Technical data:

Clamping pressure: Clamping capacity: Clamping depth: Jaw width: .laws:

150 kp 70mm 38mm

(interchangeable) plastic

Order	Price Each		
Code	1+	5+	
830-756	91.76	84.90	
805-932	0.95	0.89	

# Troubleshooting tips

(kg)

1.450

Mftrs. List No.

9-205



max. table thickness

80mm

Chat live online to one of our technical engineers at www.farnell.co.uk

BERNSTEIN A

# Spannfix for permanent mounting using bolts





Technical Data: as per 9-205 Size of base:

150 x 105mm

				333841
W	/eight Mftrs.	Order		Price Each
	(kg) List No.	Code	1+	5+
Spannfix	1,3 9-215	830-768	91.76	84.90
Spare Jaws	9-206-50	805-932	0.95	0.89

# Spannfix base for permanent mounting using bolts with universal ball joint and threaded stud M 12 x 1.5 $\,$







The carrying element of the Spannfix series clamping devices. This base can be used for holding vices, circuit board holders, monitors, cameras and various equipment in different application areas.

Bearing surface  $\emptyset$ : 40mm Thread length: 25mm

Size of	Weight	Mftrs.	Order	Price	e Each
base (mm)	(kg)	List No.	Code	1+	5+
150 x 105	0.8	9-262	164-8513	76.00	72.20

# Spannfix base for permanent mounting using bolts with universal ball joint and threaded stud M 12 x 1.5



523351



The carrying element of the Spannfix series clamping devices. This base can be used for holding vices, circuit board holders, monitors, cameras and various equipment in different application areas.

Weigh	t Mftrs.	Order	Price Each

Size of	Weight	Mftrs.	Order	Price	e Each
base (mm)	(kg)	List No.	Code	1+	3+
150 x 105	0,800	9-261	465-9284	66.40	60.35

# **Spannfix-Vario Assembly Vice**



5-teiliges Sortiment mit aufwechselbaren Aufschraub-Arbeitsköpfen.

Content:	Mftrs List	No.Content:	Mftrs List No.
Universal clamp mounting ball joint	t base9-251	Universal screw-on	plate9-254
Screw-on mounting vice	9-252	Angular adapter	9-255
Circuit board holder	9-253		

					0000	
	Weight	Mftrs.	Order	Price	e Each	
	(kg)	List No.	Code	1+	5+	
5-piece Set	2,000	9-250	830-665	185.49	171.27	

# Universal clamp mounting ball joint base



333844



Weiaht

for work benches with a max. table thickness of 80 mm

		000045

(kg)	Mftrs List No.	Order Code	1+	5+
0,950	9-251	830-677	68.15	62.74

Over 480,000 products online



Price Each

# Screw-on mounting vice



Technical data:

Clamping pressure 150 kp
Clamping capacity 70 mm
Clamping depth 38 mm
Jaw width 50 mm
Jaws (interchangeable) plastic

333847

BERNSTEIN A

	Weight	Mftrs.	Order	Price Each	
	(kg)	List No.	Code	1+	5+
Vice	0,560	9-252	830-689	55.94	51.52
Spare Jaws		9-206-50	805-932	0.95	0.89

# Circuit board holder



Adjustable from 25 mm to 270 mm clamping capacity, can be extended as required at any time, correct setting by adjusting the centre position, protected against contact voltages, firm clamping of the printed circuit by built-in resilience in the locating arms, height of locating arms 70

If the circuit board holder is to be used with universal ball joint base 9-251, we recommend that the combination is used with angular adapter 9-255 or with rapid turning device 9-257 in order to obtain a larger turning circle.

33384

	Weight	Mftrs	Order	Price	e Each
	(kg)	List No.	Code	1+	5+
Circuit board holder	0,270	9-253	830-690	57.46	53.08

# **Angular adapter**





To be used as an additional attachment with every work mount, permits an even larger turning circle.

					33384
	Weight	Mftrs.	Order	Price	e Each
	(kg)	List No.	Code	1+	5+
Angular adapter	0.000	0.055	020 710	16.61	1E 40

# Clamping lid for circuit boards with components





Components of different sizes are pressed in such a way that soldering can be carried out correctly after the circuit board holder has been turned.

					333	3850
Size	Weight	Mftrs.	Order	Price	e Each	
of cover:	(kg)	List No.	Code	1+	5+	
240 x 130mm	0,280	9-256	830-720	43.35	40.01	

# **Table Vice**



Suitable for use on smaller tasks i.e. model engineering, handicrafts and fine soldering. Vice may be positioned at any angle due to ball swivel base. Supplied with slide-off rubber safety jaws. Jaw width 75mm, maximum opening 55mm.

	491025
0.10.1.	Price Each
Order Code	1+
393-6387	23.23







# Vices and Tool Holding - continued

# Wide Opening Bench Vice



A very high quality, bench mounting vice with extra wide capacity clamping jaws. The vice is fully adjustable with tilt, turn and swivel around the advanced ball and socketmechanism which supports the jaws. The jaws are adjusted with a unique hand wheel mechanism; ideal for fast, yet precise, adjustment. The jaws have a capacity from  $0\pm170$ mm and have soft padded rubber jaws to prevent damage to even the most fragile components which are to be clamped.

Manufactured in the USA to precise, exacting standards

183mm high 1.4kg in weight

236113

Order Code	Price Each 1+
394-9564	48.20

# **Rapid Assembly Circuit Board Holder**



A very high quality, fully adjustable clamping mechanism, ideal for supporting circuit boards during repair. The holder features a four position, spring loaded locking mechanism, allowing the board, once clamped, to be simply moved in every direction through 36°. The vice is also fully height adjustable, allowing a board to be situated vertically between 50 to 340mm from the bench level. The board clamping arms are also adjustable and can be mounted on any of the four sides of the cross-supporting bar. The clamping arms are also fully adjustable in width from 11 to 245mm. The vice is manufactured from high grade, chrome vanadium steel with a cast base for weight and stability which can be bench mounted for added stability.

- Easy turn adjusting wheels for speedy adjustment
- Manufactured in the USA to precise, exacting standards
- The vice weighs 2.9kg

Order Code 394-9576	<b>Price Each</b> 1+ 69.83
- ···· ···· ···· ···· ···· ···· ···· ·	236114

# **Helping Hand Magnifier**





Usefull bracket suitable for electronic work, model and jewellry making. Complete with fully adjustable holding clips and a 50mm diameter magnifying lens (x 2.5 magnification). The solid cast base approves stability.

				490	/05
		Price	e Each		
Order Code	1+	5+	10+	20+	
135-9501	5.14	5.04	4.94	4.85	

# **Clamp Tool With Magnifier**





- magnifying glass Ideal tool for modelling. DIY or professionals Adjustable joints for movement in all di-
- rections Strong alligator clips hold work securely
- Heavy cast iron base for added stability
- Distortion free magnifying glass

# 482925.454492

	Price Each				
Order Code	1+	5+	10+	20+	50+
136-7049	2.58	2.35	2.06	1.94	1.82

# SPANNFIX VICE MAXI screw-on





Heavy-duty vice on ball-and-socket joint rotatable in any direction and capable of being set securely. For work benches with a max. table thickness of 85

The same functioning as the Spannfix small vice also distinguishes the large models. To be used when working on larger and heavier workpieces.

### Technical data:

300 kp 100mm Clamping pressure: Clamping capacity Clamping depth: Jaw width 100mm

steel, smooth and fluted Jaws (rotatable):

333852

Veight			Price	Each	
kg)	Mftrs List No.	Order Code	1+	+	
,000	9-225	830-770	217.38		

# **Light Duty Work Vice**





- Versatile ball vice with suction base
- Grooved jaws with soft rubber covers
- Dual slide rods ensure accurate alignment
- Ball joint allows 360° rotaton, 90° sideways and 120° front to back
- Body is heavy gauge die cast aluminium and jaws are hardened steel

H=160 W = 150D=180 Jaw width=75. Jaw opening=55

223260

Mftrs. List No.	Order Code	Price Each 1+
VAC10	108-390	40.83

# 60mm Swivel Table Vice With Anvil





- Heat treated jaws, 60mm wide & 25mm deep
- Open to 80mm
- Locking swivel base turns through
- Mounting clamp opens up to 45mm
- Paint coated body
- Weight: 2.3kg

482921.454201

	Price Each				
Order Code	1+	5+	10+	20+	50+
139-1488	6.39	6.19	5.11	4.79	4.36

# **Swivel Vice**



- **€**ABECO Swivel vice made from cast iron with
- Fully rotational and lockable in any position

black crackle finish

Jaw width = 65mm ( $2\frac{1}{2}$ ") Jaw opening = 35 mm (13/8)") Clamp opening =  $65 \text{mm} (2\frac{1}{2})$ 

H = 150mm (6") L = 145 - 180 mm (5% to 7)

W = 65mm (21/2")

223259



www.farnell.co.uk

	Price Each
Order Code	1+
146-830	38.91

#### **Vices**



- General purpose vices available with jaw opening of 90mm Quick release adjustment, mates with either of the bench bases. Supplied with one pair of plastic serrated jaws.

		LEGE II
		Price Each
Description	Order Code	1+
Vice 90mm jaw opening	143-902	44.73

#### **Portable Table Vice**





A small portable vice which can be easily and quickly fitted by a clamp on to any work surface. It is an ideal vice for the modelmaker and home craftsman, having pipe grips below the jaws and a small anvil on the rear of the body.

							4834	87
	Jaw	Width			Pric	e Each		
Model	(mm)	(inches)	Order Code	1+	5+	10+	20+	
V75B	75	3	134-8430	19.70	18.90	18.10	17.52	

#### **Mechanics Vices**





 $\label{thm:commonly} \mbox{Medium duty vices commonly found in workshops and garages. Steel handle and plain screw$ with hardened replaceable jaw plates.

									403414
Jaw Width		Jaw Opening		Price Each					
Model	(mm)	(inches)	(mm)	(inches)	Order Code	1+	5+	10+	20+
1	75	3	85	31/4	134-8399	39.35	37.80	36.20	35.04
3	100	4	120	43/4	134-8400	82.70	79.40	76.10	71.76
4	115	41/2	140	51/2	134-8402	133.00	127.70	122.35	114.64
5	125	5	165	61/2	134-8403	154.00	147.90	141.75	133.67
6	150	6	205	8	134-8404	212.00	203.00	194.00	182.94
8	205	8	235	91/4	134-8405	378.00	363.00	347.00	321.32
	3 4 5 6	Model (mm) 1 75 3 100 4 115 5 125 6 150	$\begin{array}{cccc} \text{Model} & \text{(mm)} & \text{(inches)} \\ 1 & 75 & 3 \\ 3 & 100 & 4 \\ 4 & 115 & 41{2} \\ 5 & 125 & 5 \\ 6 & 150 & 6 \\ \end{array}$	Model         (mm)         (inches)         (mm)           1         75         3         85           3         100         4         120           4         115         4½         140           5         125         5         165           6         150         6         205	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Model         (mm)         (inches)         (mm)         (inches)         Order Code           1         75         3         85         3¼         134-8399           3         100         4         120         4¼         134-8400           4         115         4½         140         5½         134-8402           5         125         5         165         6½         134-8403           6         150         6         205         8         134-8404	Model         (mm)         (inches)         (mm)         (inches)         Order Code         1+           1         75         3         85         3¼         134-8399         39.35           3         100         4         120         4¼         134-8400         82.70           4         115         4½         140         5½         134-8402         133.00           5         125         5         165         6½         134-8403         154.00           6         150         6         205         8         134-8404         212.00	Model         (mm)         (inches)         (mm)         (inches)         Order Code         1+         5+           1         75         3         85         3¼         134-8399         39.35         37.80           3         100         4         120         4¼         134-8400         82.70         79.40           4         115         4½         140         5½         134-8402         133.00         127.70           5         125         5         165         6½         134-8403         154.00         147.90           6         150         6         205         8         134-8404         212.00         203.00	Model         (mm)         (inches)         (mm)         (inches)         Order Code         1+         5+         10+           1         75         3         85         3¼         134-8399         39.35         37.80         36.20           3         100         4         120         4¼4         134-8400         82.70         79.40         76.10           4         115         4½         140         5½         134-8402         133.00         127.77         122.75         122.35           5         125         5         165         6½         134-8403         154.00         147.90         141.75           6         150         6         205         8         134-8404         212.00         203.00         194.00

#### **Fitters Vices**



**IRWIN**.

Heavy duty vice with quick-release mechanism for industrial workshops.

		700722
Pric	e Each	
5+	10+	20+

491554

**IRWIN**.

Record.

	Jaw	Width	Jaw (	Opening			Pric	e Each	
Model	(mm)	(inches)	(mm)	(inches)	Order Code	1+	5+	10+	20+
23	110	41/4	165	61/2	134-8406	279.00	267.00	255.00	240.47
25	150	6	210	81/4	134-8407	356.18	330.75	308.68	291.13

#### **Vice Spares**

**Detachable Fibre Vice Grips** 



Designed to give a firm grip without damaging soft or polished surfaces. Round corners reduce the risk of injury to hands.

Jaw Width (mm)	(in)	Order Code	Price Each 1+	
90	31/2	155-3083	10.36	
110	41/4	212-938	8.63	
133	51/4	212-941	10.08	

#### **Vice Spares Steel Jaw Plates**



Supplied as a pair complete with screws.

							403421
To Suit Vice	Jaw (mm)	Width (inches)	Order Code	1+	Price 5+	Per Pair 10+	20+
3 4 5 6 23 25	100 115 125 150 110 150	4 4½ 5 6 4¼ 6	134-8408 134-8409 134-8410 134-8411 134-8414 134-8412	15.50 25.15 25.35 25.93 24.76 38.85	14.90 24.15 24.35 25.23 24.26 37.30	14.25 23.15 23.30 24.56 23.78 35.75	13.81 22.41 22.55 23.93 23.01 34.61

# **FREE global legislation support**



RoHS, REACH, WEEE, EuP, Batteries Directive - we've got it covered at:

www.global-legislation.com







### Vices and Tool Holding - continued

#### **Pipe Vices Hinged Pipe Vices**





The frame containing mainscrew and top jaw are hinged together. A hook on the frame locks the jaws and final adjustment is made by the mainscrew. For fast, repetitive work.

							483463
	Capacity	Nominal Bore			Pric	e Each	
Model	0.D. (mm)	(inches)	Order Code	1+	5+	10+	20+
92C	10 - 60	1/8 - 2	134-8422	122.50	117.25	112.40	105.99
92½C	10 - 76	1/8 - 21/2	134-8423	144.88	134.54	125.56	116.27
93½C	10 - 102	1/8 - 31/2	134-8424	215.29	199.90	186.59	172.77
96	10 - 165	1/8 - 6	134-8426	489.00	469.00	449.00	415.77

#### **Drill Press Vice**



Ideal for safe drilling and light milling operations, one grooved one plain replaceable jaw, will hold round, square and hexagonal shapes across flats or corners. Jaws and lead screw are made from high quality steel which has been hardened, ground and blacked

		495332
Jaw Opening (mm)	Order Code	Price Each
85	138-1336	36.17
100	439-4215	43.83

#### **Drill Press Vices**



Ideal for drilling, tapping and reaming oper-

Vice's shown can be turned on either side or placed on end for general use.

					494604
Jaw Width (in)	Jaw Depth (in)	Jaw Opening (in)	Order Code	Price Each 1+	
2-1/2	1-1/2	2-1/2	162-3567	13.35	
3	1-1/2	3	024-021	13.75	
4	1-3/4	4	024-027	21.67	

#### **Drill Press Vice** Model 414



Quality cast bodies and sliding jaws incorporating V grooves to grip round sections. Suitable for the engineering workshop or tool-

IRWIN.

Record.

										483493
Jav	/ Width	Jaw	Opening	Jaw	Depth			Price	e Each	
(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	Order Code	1+	5+	10+	20+
100	4	75	3	32	11/4	134-8431	99.95	96.00	92.95	89.42

#### **Milling Machine Vices**



Ideal for use when precise holding is necessary. All surfaces are hardened and precision ground.

494789

495175

Jaw width (in)	Jaw opening (in)	Order Code	Price Each 1+
2-%	2-1/8	024-053	53.54

#### **Precision Machine Vice**



Ground steel jaw plates

Jaw Width (mm)	Opening (mm)	Order Code	Price Each 1+	
155mm	125mm	138-1326	397.94	
210mm	205mm	138-1327	633.15	

#### **52 Piece Clamping Kit**



Each kit comprises of the following items:

24 studs, 4 of each 3", 4", 5", 6", 7" and 8" long. 6 flange nuts.

- 4 coupling nuts.
- 6 step blocks and clamps comprising of 2 of each 2-1/2", 4" and 6" long.
- 6 'T' nuts.

Suitable For 5/8 in or 16mm Table Slots

494683

	Price Each
Order Code	1+
021-654	31.07

#### Mini-Vice



- Miniature moulded vice with a jaw opening of 39mm
- The jaw surfaces have a plain smooth finish
- The vice clamps on to either the 50mm or the 100mm extension rods or the swivel knuckle joint

223249

Order Code	Price Each 1+
143-912	9.60

#### Pin vices



Chuck type workholding tools for hand use designed for holding round material. Having hollow handles, material of any length can be handled.

4859

Model	Capacity (mm)	Length (mm)	Order code	1+	Price Eacl	20+	40+
121	0 - 1.0	75	146-443	7.31	6.73	6.42	5.86
122	0.75 - 1.5	85	146-444	7.66	7.04	6.70	6.14
123	1.4 - 3.1	95	137-3841	7.46	7.32	7.17	7.02
124	3.1 - 5.00	105	137-3843	10.30	10.08	9.88	9.70
120	Set of 4 above		137-3844	32.57	31.91	31.27	



#### **Toolmakers Clamps**



These clamps are made of steel, case hardened with ground flat faces.

	Jaw length		Jaw size		Opening	
Model	(mm)	(in)	(mm)	(in)	(mm)	(in)
410	50	Ž ´	8.0	5/16	25	1
411	75	3	11.1	7/16	38	11/2
412	100	4	14.8	9/16	63	21/2
413	125	5	17.5	11/16	89	31/2
						1000

					488364
Model	Order code	1+	Price Eac	<b>h</b> 10+	20+
410	137-3908	15.96	15.65	15.34	15.03
411 412	137-3909 137-3910	17.62 22.87	17.27 22.41	16.92 21.96	16.58 21.52
413	137-3911	32.13	31.49	30.87	30.24

#### **Parallel Clamps**



Designed for maximum strength and rigidity. Jaws are case hardened for optimum strength and wear resistance. Knurled screw heads have cross holes for use with a tommy bar for secure tightening. Fitted with a spring clip located in a retaining groove on the screw head

Jaw length (mm)	(in)	Jaw capac (mm)	ity (in)	Order Code	Price Each 1+
50	2	31	11/4	210-340	6.54
63	21/2	44.5	13/4	210-341B	7.16
75	3	56.5	21/4	155-3077	10.13
100	4	69.5	23/4	210-343	13.12
125	5	88.5	31/2	210-344	21.42

493776

**IRWIN** 

QUICK-GRIP

#### **Bar Clamps**



Fast and easy to operate with one hand only, increasing speed of operation. Can be changed into a spreader in seconds without the need of additional tools. The high tech resin body is stronger than steel and temperature resistant, yet lightweight and easy to use.

				49510
Model	Capacity (mm)	(in)	Order Code	Price Each 1+
506QC 512QC 518QC 524QC 536QC 550QC	152 305 457 610 915 1270	6 12 18 24 36 50	138-9247 138-9249 138-9250 138-9251 138-9252 138-9253	16.80 18.80 19.60 21.60 27.00 33.30

#### Micro Plastic Spring Clamp Set



#### **DURATOOL**

- 3 ½" 90mm clamp set
- Compact design for hobby and craft projects, household applica-tions and fine woodworking
- Fast, firm positive gripping of both
- flat and odd shaped work pieces Rust resistant lightweight resin construction
- Supplied in a set of 4

Price/Set           Order Code         1+         5+         10+         20+         50+           144-7562         1.48         1.29         1.17         1.11         1.01						402090.401137
				Price/Set		
<b>144-7562</b> 1.48 1.29 1.17 1.11 1.01	Order Code	1+	5+	10+	20+	50+
	144-7562	1.48	1.29	1.17	1.11	1.01

#### 8 Piece Clamp Set



#### **DURATOOL**

- Ratcheting trigger advanced action
- Easy to use push button for quick release
  - Easily convert the bar clamp to a spreader - no tools required
- Ratchet bar clamp: 2 pcs 2.5" x 12", 2 pcs 1.5" x 4"

482099.461158

	Price/Set				
Order Code	1+	5+	10+	20+	50+
144-7563	8.22	7.31	6.58	6.18	5.61

#### **G Clamps**



#### **D** URATOOL

- All metal construction G clamp with fine thread
- Matt black finish

481968 453104

				Price Each		
Size	Order Code	1+	5+	10+	20+	50+
2"	144-7399	1.36	1.09	0.93	0.72	0.56
4"	144-7400	2.31	2.09	1.86	1.73	1.57
6"	144-7401	3.16	2.82	2.53	2.39	2.16
8"	144-7402	4.70	4.28	3.76	3.53	3.19

#### 'G' Clamps 119 Series



**IRWIN** Record.

A medium drop forged, strong G clamp for use on smaller applications and in restrict-

483589

**IRWIN** 

Record

Capacity	Capacity			Pric	e Each	
(mm)	(inches)	Order Code	1+	5+	10+	20+
50	2	134-8440	4.66	4.57	4.48	4.31
75	3	134-8441	6.13	6.01	5.89	5.69
100	4	134-8442	9.20	8.85	8.45	8.17

#### 'G' Clamps 120 Series



Heavy duty clamp. I-section frame for both wood and metal working applications.

Capa	city Capacity			Pi	rice Each	
(mm)	(inches)	Order Code	1+	5+	10+	20+
75	3	134-8433	16.05	15.40	14.75	13.76
100	4	134-8434	11.10	10.87	10.44	9.87
150	6	134-8435	15.90	14.75	13.77	12.99
200	8	134-8436	33.45	32.10	30.75	28.78
250	10	134-8438	51.70	49.65	47.55	44.84
300	12	134-8439	72.55	69.65	66.75	62.48





### Vices and Tool Holding - continued

#### 135 Sash Clamps





For clamping large section workpieces during joint gluing. Cast-iron fixed head and sliding head secured by pin. Bar size 32 x 6mm 11/4 x 1/4in.

	Car	acity	Bar	Length			Pric	e Each	
Model	(mm)	(inches)	(mm)	(inches)	Order Code	1+	5+	10+	20+
135/2	610	24	760	30	134-8443	34.60	33.20	31.85	29.49
135/3	760	30	915	36	134-8444	35.95	34.50	33.05	30.87
135/4	915	36	1070	42	134-8445	37.90	36.40	34.85	32.27
135/5	1070	42	1220	48	134-8446	40.35	38.75	37.10	34.36
135/6	1220	48	1370	54	134-8447	41.20	39.55	37.90	35.10
135/7	1380	54	1500	60	134-8451	42.15	40.45	38.80	36.28
135/9	1680	66	1800	72	134-8452	43.10	41.40	39.65	37.11

#### L135 Lengthening Bar

Extends the capacity of all sash clamps.

							100000
	Ca	pacity			Price	e Each	
Model	(mm)	(inches)	Order Code	1+	5+	10+	20+
L135/4	915	36	134-8448	27.80	26.70	25.60	23.71

#### **Toggle Clamp - Vertical**





- The most popular of toggle clamps
- High clamping forces can be generated
  Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin to alter operating angles
- Zinc-plated and passivated steel

	V/3/2B	V 10U/ZB	VZ3U/ZB	V33U/2B
Nominal holding force	75kg	150kg	250kg	350kg
Weight	0.05kg	0.15kg	0.38kg	0.8kg
Height	98	125	175	220
Length	57	70	110	146
Hole centres	24 x 16	27 x 12.7	32 x 19	45 x 32
Hole ∅	4.4	5.1	7.1	8.3
Clamp arm length	31	43	74	95
Order Code	714-7510	714-7521	714-7533	714-7545
			MAT113	225430 40180

Mftrs.		Price Each						
List No.	Order Code	1+	+	+	+			
V75/2B	714-7510	9.36						
V150/2B	714-7521	10.53						
V250/2B	714-7533	13.34						
V350/2B	714-7545	18.02						

#### **Toggle Clamps - Horizontal**





- Used where height restrictions prevent use
- of a vertical clamp Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc plated and passivated steel

	H250/2B	H75/2B	H150/2B	H250/2B
Nominal holding force	50kg	75kg	150kg	250kg
Weight	0.036kg	0.1kg	0.25kg	0.9kg
Height	22	36	53	108
Length	70	116	170	280
Hole centres	16 x 16	16.8 x 13.5	28 x 26	31 x 26
Hole ∅	4.2	5.2	5.5 slotted	6.6 slotted
Clamp arm length	26	37	61	79
Order Code	714-7636	714-7648	714-7661	714-7673 MAT116/225431,401809

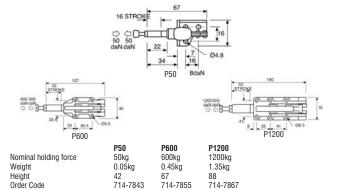
Mftrs.			Price	Each	
List No.	Order Code	1+	+	+	+
H50/2B	714-7636	8.29			
H75/2B	714-7648	10.18			
H150/2B	714-7661	11.77			
H250/2B	714-7673	17.69			

#### Toggle Clamps - Push Pull





- A range of toggle clamps for use when
- positive clamping is required P50 is light-duty base-mounted clamp
- P600 and P1200 are heavy-duty clamps
   Complete with cushioned PVC handle
- grip Main components steel



Mftrs.			Price	e Each	
List No.	Order Code	1+	+	+	+
P50	714-7843	9.46			
P600	714-7855	26.68			
P1200	714-7867	42.53			

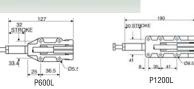
#### Toggle Clamps - Long Handle Push-Pull

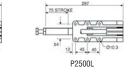


MAT118/225432.401810



- A range of toggle clamps for use when positive clamping is required
- P50 is light-duty base-mounted clamp
- P600 and P1200 are heavy-duty clamps Complete with cushioned PVC handle grip
- Main components steel





	P600L	P1200L	P2500L
lominal holding force	600kg	1200kg	2500kg
Veight	0.55kg	1.60kg	4.15kg
leight	130	200	280
Order Code	714-8148	714-8161	714-8173

					MAT120,401811	
Mftrs.			Price Each			
List No.	Order Code	1+	+	+	+	
P600L	714-8148	35.17				
P1200L	714-8161	47.45				
P25001	71/-2173	97.45				

#### **Manual Assembly Presses**





- Generate high forces end of stroke Suitable for light work such as swageing,
- press-fitting and rivetting Handle can be mounted to front of rear,
- depending on application

  Base machined from icon casting



Nominal holding force Overall height Stroke Throat clearance Height clearance Weight Order Code

P600PR	P1200PR	P2500PR
600kg	1200kg	2500kg
232	330	468
32	50	75
50	60	75
75	100	120
3.6kg	7.35kg	15.5kg
714-8781	714-8793	714-8800
		MAT121,401485

Mftrs.			Price	e Each	
List No.	Order Code	1+	+	+	+
P600PR	714-8781	117.84			
P1200PR	714-8793	196.39			
P2500PR	714-8800	332.98			

#### **Magnets**

## **Adjust-O Magnet Square**





Heavy duty

Switchable on/off magnet

New Ideal for round and square tubing, angle and flat stock

Simple to clean, switch off then wipe away

A fast and easy way to hold work pieces between 45° and

Technical Data
Angles
Magnetic Force
Dimensions (HxLxD)
Fixing Holes
Weight

45° x 90° 80 lbs 110x95x28mm 3 0.68kg

	-	464244.527
Order Code	Price 6	each
	1+	5+
166-4781	23.78	23.14

#### Mini Magnets

Angles Magnetic Force

#### STRONG HAND

New

ECLIPSE MAGNETICS

#### Model: MS346A1 (Single) MS346AT (Twin)



Technical Data

30°, 45°, 60°, 90° 25 lbs

Centre hole for easy handling

Two riveted holes for linking magnets together

30°/60°, 45°, 90°edges

Useful in light duty applications

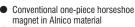
Sold as single or in packs of 2

Technical Data	
Dimensions (HxLxD)	60x50x14mm
Weight	0.136kg

			464312.527319
Description	Order Code	Price	e each
		1+	5+
Single Magnet	166-4782	2.95	2.75
Twin Pack	166-4783	5.45	4.95

#### **Pocket**





Supplied with keepers

Powerful 2.4kg pull

Both poles in the same plane

	1			
Н	W	D	G	Weight kg
25.4	22.2	7.9	6.4	0.03
		<b>—</b> A		



			Price Each		
Order Code	1+	30+	50+	100+	200+
707-1644	3.73	3.35	3.07	2.87	2.64

#### Cylindrical Bar



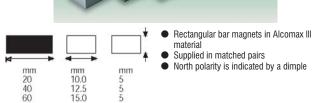
- Cylindrical one-piece magnet in Alcomac III material
- Supplied in matched pairs
- Two poles at opposite ends

	İ	Weight per pair
mm	mm	kg
20	6	0.02
20	8	0.04
30	10	0.07

#### Price Per Pair 50+ Order Code 30+ 100+ 200+ Length 707-1759 3.51 3.13 2.89 2.68 2.50 20 6 15+ 25+ **50**+ 100+ 707-1760 4.67 3.84 3.33 8 10 707-1772 6.58 5.87 5.38 5.01 4.65

#### Rectangular Bar





	21	187

						Price Per Pai	r	
L	W	D	Order Code	1+	15+	25+	50+	100+
20	10	5	707-1814	4.51	4.03	3.69	3.44	3.20
40	12.5	5	707-1826	6.95	6.21	5.69	5.30	4.93
60	15	5	707-1838	10.79	9.65	8.82	8.22	7.65

#### **Magnetic Workholders And Magnets**

#### Rectangular



One piece rectangular bar magnet. Priced per pair.

Length x Width Depth (mm)	Order Code	Price Each 1+
20 x 10 x 5	210-359	4.09
40 x 12.5 x 5	210-360	4.09
50 x 15 x 10	210-362	12.15
75 x 15 x 10	151-6774	14.64

#### **Button**











ECLIPSE MAGNETICS

- Alnico material
- Supplied with keepers
- High working temperature of up to 550°C
- Both poles at one of the cylinder, sepa-
- rated by a slot
- Supplied with a plain fixing hole Primarily for attracting applications

$\varnothing$	Н	Α	В	C Ø	Puli (iviax)kg	weignt g	Order Code
19.1	12.7	5.6	8.7	4.8	1.9	20	707-1863
25.4	15.9	5.6	8.7	4.8	3.4	50	707-1875

	20.4	15.9	5.0	0.7	4.0	3.4	50	/0/-10/	211872	
Pull kg	Orde	er Code	1	I+	30+	Price Ea 50+		100+	200+	
1.9 3.4		7-1863 7-1875		.68 .89	3.31 6.16	3.04 5.64		2.83 5.23	2.62 4.88	

#### Premium service without a premium price



With thousands of prices alreadyreduced, go online to see ourmost up-to-date pricing:www.farnell.co.uk







#### **Magnets - continued**

### Magnet



A cylindrical magnet. Both poles are at one end of the cylinder, separated by a slot. These magnets are primarily for attracting applications.

			494305
Diameter x Height (mm)	Pull (kg)	Order Code	Price Each 1+
25.4 x 15.9 31.8 x 25.4	3.4 4.8	210-347 210-348	5.39 7.14

#### **Shallow Pot**



- Alcomax IV magnet material
- Keeper supplied with each magnet
- North polarity in centre
- High working temperature of up to 220°C
- Designed for applications where height restricts the use of conventional deep pot magnets

		)	١		<b>★</b>	
<b>◄</b>	<b>y</b>	+	<b>*</b>	H	ØA	ØB
Ø	Н	ØA	ØB	Pull (Max) kg	Weight g	Order Code
19.1 28.6 38.1	7.75 8.7 10.6	3.7 4.8 4.8	6.7 8.6 8.6	3.0 5.0 13.5	13 36 80	707-2454 707-2466 707-2478

					21187	
Order Code	1+	30+	Price Eac 50+	h 100+	200+	
707-2454 707-2466	4.67 6.18	4.19 5.81	3.84 5.56	3.57 5.30	3.33 5.07	
	1+	15+	25+	50+	100+	
707-2478	10.82	9.26	8.84	8.24	7.67	
	707-2454 707-2466	707-2454 4.67 707-2466 6.18 1+	Order Code         1+         30+           707-2454         4.67         4.19           707-2466         6.18         5.81           1+         15+	Order Code         1+         30+         50+           707-2454         4.67         4.19         3.84           707-2466         6.18         5.81         5.56           1+         15+         25+	707-2454     4.67     4.19     3.84     3.57       707-2466     6.18     5.81     5.56     5.30       1+     15+     25+     50+	Order Code         1+         30+         50+         100+         200+           707-2454         4.67         4.19         3.84         3.57         3.33           707-2466         6.18         5.81         5.56         5.30         5.07           1+         15+         25+         50+         100+

#### Pot





- Supplied with keepers
- North polarity in centre High working temperature of up to 220°C Primarily for gripping applications
- Deep cylindrical design assembled concentrically in steel pot

Ø	Height	Pull (Max) kg	Weight g	Order Code
17.5	16	2.65	23	707-2545
20.5	19	4.0	40	707-2557
35	30	14.75	184	707-2570

Pull kg	Order Code	1+	30+	Price Each 50+	100+	200+
2.65 4.00	707-2545 707-2557	5.01 5.27	4.49 4.72	4.11 4.33	3.82 4.04	3.55 3.74
14.75	707-2570	<b>1+</b> 14.32	<b>15+</b> 12.76	<b>25+</b> 11.35	<b>50+</b> 10.90	<b>100+</b> 10.13

#### **Magnetic Workholders And Magnets**



Gripping magnets designed to exert maximum grip on workpieces placed in contact with them. This style of magnet is generally used in jigs and fixtures. A drilled and tapped M6 hole in the back of the magnet may be used for fixing.

495003

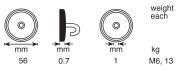
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Diameter x Height (mm)	Pull (kg)	Order Code	Price Each 1+
17 x 16	2.7	155-3711	3.70
21 x 19	4.5	210-307	5.76
27 x 25	8.2	210-308	6.67
35 x 30	19.0	210-309	11.17

#### **Ferrite Shallow Pot**



- ECLIPSE MAGNETICS Ferrite material
- Working temperature of up to 80°C Fitted with J-bolt Ideal for limpet-type gripping applications
- Standard M6 thread for building into jigs and fixtures
- Uses include bases to machine tool accessories and industrial light fittings

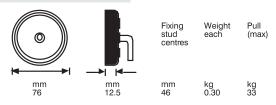


						Price Each		
Ø	Height	Pull kg	Order Code	1+	15+	30+	50+	100+
56	10.7	16.0	700-0637	7.78	6.93	6.36	5.93	5.51

#### **Ferrite Shallow Holdfasts**



- Ferrite material
- Working temperature of up to 80°C
- Three pre-threaded holes with M6 thread Screw-down releasing bolt for easy workpiece disengagement



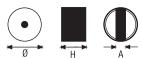
						Price Each		
Ø	Height	Pull kg	Order Code	1+	5+	10+	25+	50+
76	12.5	33.0	706-9030	13.86	12.33	11.32	10.55	9.79

#### **Rare Earth Permanent Neo-Hold Bi-Pole Gripping**



211884





- Powerful Noedymium Iron Boron rare earth magnets
- Supplied with keepers
- High working temperatures of up to 100°C
- 5.5mm between poles

•	very strong gripping forces are achieved by having two poles close together
	Ideal for situations where space is restricted and more holding power required

Ø	Н	Α	Fixing Hole Size	Pull kg	Weight g	Order Code
12.7	11.6	5.5	M5 x 5	2.0	10	707-6009
25	15.6	5.5	M6 x 5	5.0	18	707-6010
22	20	5.5	M6 x 6	9.0	40	707-6022
25	25	5.5	M6 x 6	15.0	70	707-6034





(CK)

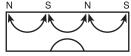
						2118	Bź
Ø	Order Code	1+	20+	Price Each 30+	50+	100+	
12.7 25	707-6009 707-6010	8.40 9.90	7.47 8.80	6.84 8.08	6.38 7.53	5.93 6.98	
		1+	10+	25+	50+	100+	
22 25	707-6022 707-6034	12.62 15.90	11.26 14.15	10.30 12.99	9.62 12.08	8.92 11.23	

#### **Discs**



- Ceramic/Ferrite materials
- One face magnetic reverse will accept
- Not susceptible to demagnetisation up to a maximum temperature of 180°C

#### Multipole on one face



Non-magnetic face

							211120
10 Pe	r Pack				Price Per Pa	ck	
Ø	Thickness	Order Code	1+	3+	5+	10+	20+
14	5	700-5120	1.13	1.02	0.95	0.87	0.83
30	5	700-5143	3.78	3.51	3.23	3.04	2.82

#### Flexible Strip Adhesive Backed





211726



- Barium ferrite loaded flexible thermoplastic
- Soft material helps prevent slippage on vertical surfaces
- Acrylic adhesive backed

Ideal for:- Door closures, reed switch operators, signs, shelf marking

Thickness = 0.8mm

					214002.401261
10M Per Coil			Price	Per Coil	
Width	Order Code	1+	+	+	+
7.5mm	723-9166	9.23			
12.5mm	723-9178	10.19			
20mm	723-9180	15.88			
10 Strips Per Pack		Price Per Pack			
Size		1+	+	+	+
12.7mm x 100mm	723-9191	2.28			

### **Magnetic Workholders And Magnets**



#### **Ferrite Shallow Holdfasts**



Manufactured with three pre-threaded holes with standard M6 thread. Fitted with a screw down releasing bolt for easy disengagement of workpieces.

Model	Diameter (mm)	Thickness (mm)	Fixing stud centres (mm)
E895	66	10.7	46
E896	76	12.5	46
E897	100	15.0	63

Model	No. of holes	Hole	Max. pull (kg)
E895	3	M6	25
E896	3	M6	33
E897	3	M6	55

		494793
		Price Each
Model	Order Code	1+
E895	218-244	13.05
E896	706-9030	13.86
E897	218-246	24.16

#### Magnets **Neodymium Disc Magnets**



Ultra high performance rare earth Neodymium Iron Boron disc magnets. These magnets can be bonded in place ances through large air gaps. Maximum operating temperature 100°C.

493041

#### Diameter (mm) Length (mm) Pack Quantity Price Each 1+ Order Code 162-3553 4.33 162-3554 7 02 7.60 12 162-3555

#### **Fastening & Fixing**

#### **Tie Gun Cabler**



- Strong and Lightweight

- Glass fibre reinforced body Tension adjuster for secure binding Automatic cut off pull trigger and the tie is automatically tensioned and cut
- Suitable for cable ties 2.4 - 4.8mm wide
- Size.2.4-4.8mm

448562.471419

Mftrs.	Price Each		
List No.	Order Code	1+	5+
495003	128-3289	11.40	11.05

#### 3-in-1 Staple Gun



### **DURATOOL**

- Heavy duty 3-in-1 staple gun
- Impact pressure adiustment
- Handle lock
- Contents: 3-in-1 heavy duty staple gun, 200x8mm staples, 200x12mm u-shaped staples, 200x10mm nails
- Uses: 140-type staples, 180-type nails and CT45 U-staples

Nail Length Capacity 10-14mm Staple Length Capacity U-shaped Staple Length Capacity 4-14mm 10-12mm Weight 0.54kg

457669.452469

Mft	rs.			Price Ea	ch
List	No. De	escription	Order Code	1+	5+
D00	)223 3-	in-1 Staple Kit	132-8719	7.43	6.95

#### **Heavy Duty Riveting Kit**



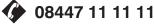


An engineering riveting kit comprising a high quality, hand riveting tool with ergonomic/high friction handles, 200 aluminium rivets (3, 4 and 5mm) and a robust blow moulded case. The tool is supplied with 3 interchangeable tips for the 3 sizes of rivets supplied.

		Price Each			
Mftrs. List No.	Order Code	1+	5+		
2735	152-1965	38.37	36.08		







#### Fastening & Fixing - continued

#### **Trim Pin Remover**





Blade: Chrome vanadium steel, through hardened chrome-plated Wiha Power Handle, Cellulos acetate, impact oil and grease resistant

Application: fast removal of trim pins, e.g. on internal car panels

 Trim Pin Width
 Blade length

 Mftrs. Part No.
 mm
 mm

 430-10
 7,5
 175

				241	400
			Price Each		
Mftrs. Part No.	Order Code	1+	5+	10+	
430-10	311-6773	6.81	6.05	5.28	

#### **Hammers**

#### **4oz Crosspein Hammer**



**D** URATOOL

 4oz crosspein hammer with wooden handle

STANLEY

478251

				4	181960.453085
			Price Eac	h	
Order Code	1+	5+	10+	20+	50+
144-7394	2.29	1.85	1.52	1.34	1.11

#### Pin Hammer



Heat treated and polished forged steel head. Evertite fixed hickory shaft.

	Weight	Weight			Price	e Each	
Model	(gm)	(oz)	Order Code	1+	5+	10+	20+
1-54-077	7 100g	31/2	135-3670	8.60	8.35	7.90	7.74

#### **Cross Pein Pin Hammer**



- Drop forged high carbon steel head
- Hardened and tempered with polished face
- Head secured to ash handle by wooden and iron wedges

				Price	Each	
Weight	Mftrs. List No.	Order Code	1+	5+	10+	20+
40z	T4203	151-8952	8.94	8.66	8.40	8.12

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#### **Claw Hammers**



DURATOOL

Tubular steel handleVinyl grip

		Price	e Each
Weight	Order Code	1+	5+
8oz (0.38kg)	132-8710	1.58	1.36
16oz (0.74kg)	132-8711	2.11	2.02

#### **Claw Hammers**

### **DURATOOL**

457630.452304



- 16 and 20oz claw hammers
- One piece construction
- Impact absorbant rubber handle
- Ergonomically designed for comfort
- Narrow shaft for excellent balance and control

Price Each	
	481966.453087
and control	

				Price Eac	h	
Weight	Order Code	1+	5+	10+	20+	50+
16oz	144-7395	7.05	6.14	5.63	5.28	4.80
20oz	144-7396	7.60	6.89	6.04	5.65	5.04

#### **Blue Strike Claw**





Blue painted heads are secured by an interference fit onto a chrome plated tubular steel shaft. Blue colour co-ordinated flock filled vinyl grips are impervious to heat, oil and most solvents.

	Weight	Weight			Price	e Each	
Model	(gm)	(OZ)	Order Code	1+	5+	10+	20+
51-488	450	16	135-3725	7.25	7.05	6.65	6.52
51-489	570	20	135-3726	7.95	7.70	7.30	7.15

### **Forged Claw Hammers**





- Single piece forged steel shaft for maximum strength and performance
- Shock absorbing contoured grip system for comfort and control
- Balanced weight design with energy saving claw geometry

	4	9	5	

				Price	Each	
Weight	Mftrs. List No.	Order Code	1+	5+	10+	20+
16oz	357001	151-8947	17.00	16.50	16.00	15.30
20oz	357002	151-8948	19.50	18.90	18.35	17.55

#### **Fibreglass Shaft Hammers**







#### Strong fibreglass shaft for strength and performance

- Balanced weight design with energy saving claw geometry
- Shock absorbing contoured grip system for comfort and control

						495541.470083
				Price	e Each	
Mftrs. List No.	Weight	Order Code	1+	5+	10+	20+
357004	20oz	151-8950	14.30	13.87	13.43	13.02

#### **Ball Pein Graphite Shaft**





Ball pein hammers with a graphite core shaft, surrounded by a thick resin coating with a high resistance to overstrikes and excellent shock absorption properties.

					223311
			Price	Each	
	Order Code	1+	4+	20+	40+
227g(8oz)	628-888	13.45			
340g(12oz)	628-890	14.15	13.75	13.00	12.13
454g(16oz)	628-906	15.65	15.20	14.40	12.76
680g(24oz)	628-918	17.90	17.35	16.45	14.49
907g(32oz)	628-920	19.40	18.80	17.85	16.40

#### **Club Hammers**



 Drop forged head Hickory handle



457695.454537

		Pri	ce Each
Weight	Order Code	1+	5+
2.5lb	132-8723	4.24	3.89
4lb	132-8725	5.21	4.78

#### **Club Hammer**





- Single piece forged steel shaft for maximum strength and performance
- Shock absorbing contoured grip system for comfort and control

						494904.470004
				Price	e Each	
Mftrs. List No.	Weight	Order Code	1+	5+	10+	20+
357005	3lb	151-8892	21.00	20.37	19.74	19.12

#### **Sledge Hammers**

#### Sledge - Fibreglass Handle



Heads manufactured from EN9 steel fully in accordance with BS876 and fitted with comfortable, hardwearing cushion grips.

			495236
Weight			Price Each
(kg)	(lb)	Order Code	1+
3.2	7	216-970	28.50
4.5	10	216-971	30.43
6.4	14	216-972	37.10

#### 32oz Rubber Mallet



### **DURATOOL**

32oz rubber mallet with wooden handle

Solid rubber
head

481967.453100

	Price Each				
Order Code	1+	5+	10+	20+	50+
144-7398	2.00	1.63	1.42	1.27	1.02

#### **Rubber Hammers**



Durable black rubber hammers with fibreglass pinned handle for maximum safety in use.

	Weight		Price Each
Model	(lb)	Order Code	1+
RM1	1	016-207	14.77

#### **Dead Blow Nylon Hammers**





Die-cast one piece head and handle of aluminium alloy. Fitted with shock absorb-ent rubber grip. Screw-in faces of special nylon. The hollow head is partially filled with shot which adds to the weight and prevents re-bound. Allowing heavy and effective blows with maximum impact con-

	Ø Of Fa	ce	Weight		Price Each
Model	(mm)	(in)	(gm)	Order Code	1+
1010	32	11/4	525	138-1112	10.70
1212	38	11/2	750	138-1113	13.15
1414	44	13/4	950	138-1115	14.85
1616	50	2	1250	138-1138	17.10
2020	63	21/2	2000	138-1139	25.60

#### Replacement Faces

			49	5312
Ø Of Face (mm)	(in)	Nylon Order Code	Price Each 1+	
32 38 44 50 63	1½ 1½ 1¾ 2 2½	106-559 106-562 106-564 138-1099 138-1137	1.20 1.50 1.95 2.45 3.20	
<ul><li>Ø Of Face (mm)</li><li>32</li><li>38</li></ul>	(in) 11/4 11/2	Polyurethane Order Code 138-1150 106-563	<b>Price Each</b> 1.30 1.60	
50 63	2 2½	138-1151 138-1152	2.65 3.50	

#### **Surface Protective Hammers**



Zinc or aluminium heads with epoxy bonded fibreglass shaft and non-slip grip. Shafts outlast conventional wooden types many times and together with the secure epoxy bond ensure maximum safety in use. Tips supplied separately. Weight shown is when fitted with tips.

#### Holders

			Weight		Price Each
Model	$\emptyset$ (mm)	$\emptyset$ (in)	(lb)	Order Code	1+
SPS105	25	1	11oz	016-160	11.05
SPS150	38	11/2	1	016-161	11.70
SPS155	38	11/2	11/2	016-162	12.07
SPS200	50	2	13/4	016-163	13.65
SPS205	50	2	21/2	016-164	15.07
SPS255	63	21/2	5	016-166	30.85

Tips







#### **Hammers - continued**

#### **Surface Protective Hammers - continued**

Cream - Medium Hard - continued

Any of the holders listed may be fitted with a combination of 9 different tips.

Yellow - extra hard replaces copper.

Black - hard replaces soft copper, hard plastic.

Cream - medium hard replaces rawhide, medium plastic, lead.
Green - tough replaces rawhide, medium plastic, lead.

Red - medium replaces rubber, wood, rawhide, brass. Brown - soft replaces soft rubber, wood, soft lead.

Grey - super soft replaces very soft rubber Brass

#### Yellow - Extra Hard

Ø(mm)	∅(in)	Order Code	Price Each 1+
25	1	016-168	4.15
38	11/2	016-169	8.05
50	2	016-170	11.32

#### Black - Hard

∅(mm)	∅(in)	Order Code	Price Each 1+
25	1	016-173	3.66
38	11/2	016-174	7.07
50	2	016-175	12.00

#### Cream - Medium Hard

Ø(mm)	∅(in)	Order Code	Price Each 1+
50	2	016-180	11.90

#### Green - Tough

			Price Each
$\emptyset$ (mm)	$\emptyset$ (in)	Order Code	1+
50	2	016-185	6.77

#### Red - Medium

∅(mm)	∅(in)	Order Code	Price Each 1+
38	11/2	016-189	5.05
50	2	016-190	6.77

#### Brown - Soft

			Price Each
$\emptyset$ (mm)	∅(in)	Order Code	1+
38	11/2	016-194	4.22

#### **Grey - Super Soft**

			Price Each
$\emptyset$ (mm)	∅(in)	Order Code	1+
50	2	016-200	12.05

#### **Brass**

			49	3672
Ø(mm)	∅(in)	Order Code	Price Each 1+	
38	1½	016-154	10.08	

#### **Dead Blow Hammers**



Special heat resistant material is virtually indestructable under normal usage conditions. Dead blow, no rebound action delivers 30% more striking force. Epoxy bonded fibreglass shaft for maximum safety. Reverse taper grip is ideal for wet, oily or gloved

			7			494154
Model	∅(mm)	∅(in)	Weight (lb)	Order Code	Price Each 1+	
SF2-SG	50	2	2	016-204	26.31	
SF3-SG	60	23/8	3	016-205	34.80	
SF4-SG	70	23/4	4	016-206	50.25	

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#### **Copper And Rawhide Hammers**



Malleable iron head fitted with one face of pure copper, the other rawhide. Both faces are replaceable when worn. An ideal dual purpose hammer.

Size	Model	Ø Of Face (mm)	(in)	Weight (gm)	Order Code	Price Each 1+
Α	208	25	1	400	138-1066	6.50
1	210	32	11/4	725	559-325	9.05
2	212	38	11/2	1070	559-337	11.60
3	214	44	13/4	1650	138-1067	14.70
4	216	50	2	2500	138-1068	21.25
5	222	70	23/4	5150	138-1125	49.40

#### Replaceable Copper Faces

Size	Number	Order Code	Price Each 1+
Α	308C	138-1074	1.55
1	310C	559-349	2.14
2	312C	138-1075	3.00
3	314C	138-1077	4.85
4	316C	138-1078	6.17
5	322C	138-1132	15.70

#### **Bradawl**

STANLEY



Hardened, tempered and sharpened blades.

Plastic handle, textured for improved grip.

								4783	308
	Length	Length	Point			Price	e Each		
Model	(mm)	(in)	(mm)	Order Code	1+	5+	10+	20+	
60-014	32	11/4	2	135-370/	2.25	2 20	2.05	2 00	

#### **Bradawls** 1828M

Round section blade with slotted screwdriver type tip and plastic handle.

			Price Each				
Model	Point Size	Order Code	1+	5+	10+	20+	
1828M	Medium	134-8466	2.53	2.47	2.42	2.37	

#### M1838W

Beech handle fitted with a square section blade with sharp point for faster penetration.

		Price Each				
Model	Order Code	1+	5+	10+	20+	
M1838W	134-8465	5.65	5.40	5.20	5.09	

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**DURATOOL** 

#### Chisels

#### 4 Piece Wood Chisel Set

### **DURATOOL**



5.28

Precision ground, drop forged,

Price/Set

10 +

4.22

heat treated blades

20+

3.97

Plastic blue handles Sizes: 12, 19, 25, 32mm

482924.462255
50.

3.60

#### 4 Piece Wood Chisel Set

Order Code

136-7048

### **DURATOOL**



5+

4.79

- Rugged high carbon steel blades with durable plastic handle
- Sizes: 1/4", 1/2", 3/4" and 1"
- Supplied in a hinged plastic case

					482094.462260
Order Code 144-7558	1+ 8.55	5+ 7.65	Price/Se 10+ 6.84	20+ 6.42	50+ 5.82

#### Chisels





#### **Cold Chisels**

Manufactured to BS3066

Size (mm)	(in)	Order Code	Price Each 1+
100 x 6.5	4 x 1/4	010-329	1.60
125 x 6.5	5 x 1/4	010-341	1.56
150 x 9.5	6 x 3/8	010-330	1.77
150 x 12.7	6 x ½	155-2239	2.67
205 x 12.7	8 x ½	010-332	2.11
175 x 16	7 x 5/8	010-342	2.30
205 x 19	8 x ¾	155-2980	3.94
250 x 19	10 x ¾	010-334	3.29
205 x 25.4	8 x 1	155-2981	5.54
250 x 25.4	10 x 1	010-336	4.65
450 x 25.4	18 x 1	010-338	8.35

#### **Cast Steel Flat Cut**

Complete with grip and hand guard.

Size (mm)	(in)	Order Code	Price Each 1+
250 x 19	10 x 3/4	010-346	5.28
250 x 25.4	10 x 1	010-347	6.87
300 x 25.4	12 x 1	010-348	7.26

#### Floorboard Chisel

Size			Price Each	
(mm)	(in)	Order Code	1+	
230 x 57	9 x 21/4	155-4380	5.79	

#### Fitted with grip and hand guard.

			4	93964
Size			Price Each	
(mm)	(in)	Order Code	1+	
230 x 57	9 x 21/4	010-345	6.52	

## Wrecking, Pry, Heel, & Crow Bars

#### **Wrecking Bar**

#### Suitable for removing nails, dismantling, prising and opening

Size: 24" x 3/4" (600 x 19mm)

•	vveignt:	1.9Kg	

				4	102003.434213	
	Price Each					
Order Code	1+	5+	10+	20+	50+	
144-7438	3.16	2.80	2.49	2.35	2.15	

#### Pry & Heel Bars



#### Heel Bars

				49329
Length x Diameter			Price Each	
(mm)	(in)	Order Code	1+	
600 x 19	24 x ¾	016-655	16.27	
750 x 22	30 x 7/8	016-656	18.40	

#### **Pry Bars**

Length x Diamete (mm)	er (in)	Order Code	Price Each 1+	
175 x 10	7 x 3/8	016-650	8.64	
300 x 13	12 x ½	016-651	11.18	
400 x 16	16 x 5/8	016-652	11.44	
450 x 19	18 x ¾	016-653	16.22	

#### Crowbars



**Wrecking Bars** Octagonal section with nail pulling claw.

#### Length x Diameter Order Code 210-189 210-190 (mm) (inches) Price Each 750 x 19 900 x 19 9.70 9.33 30 x 3/4 36 x 3/4

#### Crowbars

Chisel and point.

				494636
Length x	Diameter			
(mm)	(inches)	Order Code	Price Each	
900 x 25	36 x 1	155-2982	17.79	
1200 x 29	48 x 11/8	010-532	14.37	
1500 x 32	60 x 11/4	010-533	24.80	
1800 x 38	72 x 1½	010-534	45.55	

#### **Scribers**

#### **Centre Punch and Scriber**



- Hand operated automatic centre punch with a carbide point which gives this tool exceptional wear resistance
- Fine point angle and pen style appearance make this tool particularly suited to scribing or dot punching on soft ductile materials
- 20° point angle Shank diameter of 3.0mm
- Overall length of 139mm
- Replacement point available







#### **Scribers - continued**

#### Centre Punch and Scriber - continued

						494081
		Price Each				
Mftrs. List No.		Order Code	1+	5+	10+	20+
187-0053	Centre Punch	151-8515	7.91	7.75	7.59	7.51
187-0054	Replacement Point	151-8516	2.41	2.36	2.32	2.29

#### **Double Ended Scriber**



- Engineering pattern straight shaft or straight 90 ° angled point
- Tungsten Carbide tipped Intended for use on hard or abrasive mate-
- Machined steel shaft Overall length 230mm
- Replacement body available

		Price Each				
Mftrs. List No.		Order Code	1+	5+	10+	20+
187-0069 187-0068	Scriber 6mm Body	151-8520 151-8519	5.51 3.12	5.39 3.05	5.29 2.99	5.23 2.96

rials

#### **Diamond Tipped Scriber**



- A polished  $90^\circ$  cone-shaped industrial diamond mounted in steel on the end of a plastic holder for hand marking very hard components and materials Comes complete with pocket clip top
- Capable of engraving stainless steel, glass, ceramic, silicon and silica filled plastics

Order Code

151-8502

- Also suitable for hand scribing and breaking of glass rod and ceramic or silicon substrates up to 0.5 mm thick
- Length 165mm

Mftrs. List No.

176-0036

493987

494122

20+

9.08

494108



Fine dual ground

1+

9.55

- precision work Spring loaded re-
- tractable carbide fine point Tip
- Adjustable scribe length (internal adjustment) Machined aluminium, high quality pen
- style body

**Price Each** 

10 +

9.17

5+

9.37

- Pocket clip for easy storage
- Overall length 165mm

		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
187-0071	151-8521	20.65	20.23	19.82	19.61

#### **Engineers Scribers**



				Price	Each		
Model	Description	Order code	1+	4+	20+	40+	
E222	Double ended engineers	425-357	3.71	3.46	3.31	2.83	
E225	Pocket detachable point	425-369	13.16	12.11	11.54	10.54	
E220	Pocket carbide point	137-3770	5.99	5.87	5.76	5.63	
E227	Machinists one piece single ended	137-3771	2.39	2.35	2.29	2.25	
76-229R	Handy double ended, pointed/knife	137-3772	4.99	4.89	4.79	4.71	

#### Scriber points

For model E225.

		Price	e Each	
Order code	1+	4+	20+	40+
425-370	8.93	8.22	7.85	7.18

#### **Engineers Scribers**



Perfectly balanced with hardened and ground points to facilitate accurate marking out.

Description	Order Code	Price Each 1+
Double ended, pointed and knife Pocket carbide point	212-638 155-3715	7.43 4.96

#### **Punches**

#### **Automatic Centre Punch**



494553

No hammer needed This punch is made with a knurled brass handle and hardened

tip for instant marking
Size (Lx Dia): 130mm (5") x 13mm (½")

					482067.46213	39		
	Price Each							
Order Code	1+	5+	10+	20+	50+			
144-7436	2.85	2.65	2.49	2.33	2.11			

#### **Automatic Centre Punch**

#### RENNSTEIG



- Self-striking
- Precision guidance
- With replaceable hardened tip and sleeve
- Hammer force adjustable Made of nickel-plated steel

ShankØ mm Mftrs, List No. Order Code Length mm TipØ mm Weightg 9R 430 130 413-3602 242801

	Mftrs. List No.	Order Code	1+	Price Each 5+	10+	
Automatic	9R 430 130					
Centre Punch		413-3602	14.45	14.00	13.60	

#### **Automatic Centre Punches**



Depth of impression is variable and can be adjusted by turning the knurled head.

493757 Length Pressure Price Each Model (mm) (in) (kg) **Order Code** 65-171R 120 13.5-2.25 15.29 E172 22.5-6.3 710-2100 41.13

#### **Transfer Punch Set**



- Imperial/metric or odd sized hole centres can be transferred from pre-drilled components Spring loaded
- Pocket size case (110 x 59 x 21mm)

Metric: 6, 8, 10, 12, 14, 16 x 105mm

494123



Imperial: 3/16, 1/4, 5/16, 3/8, 27/64, 31/64

RENNSTEIG New

			Price	Each	
Mftrs. List No.	Order Code	1+	5+	10+	20+
187-0101	151-8523	15.64	15.33	15.02	14.85

#### 3 Piece Nail Punch Set

#### **DURATOOL**



- Moulded elastomer jacket for im-
- Long bevelled tips for easier nail alignment
- Sizes: 0.8mm (1/32"), 1.6mm (1/16") and 2.4mm (3/32")

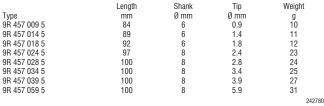
10 +

2.52

Type	ſ
9R 457 009 5	
9R 457 014 5	
9R 457 018 5	
9R 457 024 5	
9R 457 028 5	1
9R 457 034 5	1
9R 457 039 5	1
OD 457 050 5	

**Split-Pin Driver Set** 

 Split-pin driver set in metal cassette
 Split-pin driver with guide alexante Split-pin driver with guide sleeve



	Mftrs. List No.	Order Code	1+	Price Each 5+	10+	
Split-Pin Driver Set	9R 457 100 5	413-3596	21.70	21.05	20.40	

#### **Centre Punch**

#### RENNSTEIG

20+

2 34

482106 462296

50+

1.95



Order Code

144-7571

 chrome vanadium steel according to DIN 7250 polished head

5+

2.75

coated shaft

1+

3.51

Lengthmm 100 120 ShaftØ mm TipØ mm Weightg Mftrs, Part No. 9R 430 100 0 9R 430 120 0 30 70 8 10 242777

				Price Each	
Description	Mftrs. Part No.	Order Code	1+	5+	10+
Centre Punch	9R 430 100 0	413-3500	1.03	1.02	1.00
Centre Punch	9R 430 120 0	413-3511	0.79	0.70	0.62

### **Key Drift Set**

#### RENNSTEIG



- key drift set in metal case key drifts according to DIN 6450
- polished tipcoated shaft

	Length	Shaft	Tip	Weight
Mftrs. Part No.	mm	Ø mm	Ø mm	g
9R 450 003 0	150	10	3	70
9R 450 004 0	150	10	4	70
9R 450 005 0	150	10	5	75
9R 450 006 0	150	10	6	80
9R 450 008 0	150	12	8	115
9R 450 010 0	150	12	10	125

						-, 00
Price Each						
Description	Mftrs. Part No.	Order Code	1+	5+	10+	
Kev Drift Set	9R 425 160 09	413-3523	16.65	16.15	15.65	

413-3572 413-3584

#### **Key Drift**

Description

Key Drift Ø2mm

Key Drift Ø3mm Key Drift Ø4mm

Key Drift Ø5mm Key Drift Ø6mm

#### **RENNSTEIG**

1.75 1.75



Mftrs. Part No.

9R 450 002 0

9R 450 003 0 9R 450 004 0

9R 450 005 0 9R 450 006 0

Length: 150mm

- key drift according to DIN 6450 chrome vanadium steel
- polished head

1.85

• co	ated shaft		
			242794
		Price Each	
Order Code	1+	5+	10+
413-3547	1.85	1.80	1.75
413-3559	1.85	1.80	1.75
413-3560	1.85	1.80	1 75

1.80 1.80

### 6 Piece Parallel Pin Punch Set



pin punches made from Chrome Molybdenum steel for strength & durability.

Octagonal shank and a polished drift

 Manufactured to DIN 6450 Contents: 2, 2.5, 3, 4, 5 and 6 mm

					495002.47126	it
			Price	e Each		
Mftrs. List No.	Order Code	1+	5+	10+	20+	
T3328S	151-8907	23.24	22.54	21.84	21.15	

#### 16 Piece Mechanics Punch and Chisel Set

### **D** URATOOL



#### The set contains:

#### 5 Pin Punches:

- 1 x 2mm x 108mm (3/32" x 41/4")
- 1 x 3mm x 120mm (1/8" x 41/4")
- 1 x 4mm x 127mm (5/32" x 5")
- 1 x 5mm x 133mm (¾16" x 5¼") 1 x 6mm x 146mm (¼" x 5¾")

#### 5 Taper Punches:

- 1 x 2mm x 133mm (3/32" x 41/4")
- 1 x 3mm x 146mm (1/8" x 53/4")
- 1 x 4mm x 150mm (5/32" x 6")
- 1 x 5mm x 158mm (3/16" x 61/4")
- 1 x 6mm x 170mm (1/4" x 63/4")

#### 3 Cold Chisels

- 1 x 9.5mm x 140mm (1/8" x 51/2")
- 1 x 12.5mm x 150mm (1/2" x 6") 1 x 16mm x 165mm (5/8" x 61/2")

#### 2 Centre Punches

- 1 x 3mm x 125mm (1/8" x 5") 1 x 5mm x 150mm (3/16" x 6")

### 1 x Chisel Punch

Heat treated steel

			Price/Set		
Order Code	1+	5+	10+	20+	50+
144-7437	10.14	9.79	8.12	7.60	6.90

#### **Round Head Centre Punches**



100mm 4in long

			roommi miriong.		486001
Model	Point (mm)	Point (in)	Order Code	Price Each 1+	
351A 351B 351C 351D	3.2 4.0 4.8 6.35	1/8 5/32 3/16 1/4	443-037 137-3743 443-049 137-3744	2.66 2.57 2.64 2.57	



482068.462142





#### **Punches - continued**

# Punches Parallel pin punch



							485995
	Size	Size			Price	Each	
Model	(mm)	(in)	Order Code	1+	5+	10+	20+
161AA	100 x 1.6	4 x 1/16	137-3745	2.45	2.41	2.36	2.31
161A	100 x 2.4	4 x 3/32	137-3746	2.45	2.41	2.36	2.31
161B	100 x 3.2	4 x 1/8	137-3747	2.10	2.05	2.02	1.98
161CC	100 x 4.0	4 x 5/32	137-3748	2.10	2.05	2.02	1.98
161C	100 x 4.8	4 x 3/16	137-3749	2.10	2.05	2.02	1.98
161DD	100 x 5.5	4 x 7/32	137-3750	2.37	2.32	2.28	2.24
161D	100 x 6.4	4 x 1/4	137-3751	2.45	2.41	2.36	2.31
161E	150 x 8.0	6 x <sup>5</sup> / <sub>16</sub>	137-3752	4.42	4.33	4.25	4.17
161FF	150 x 9.5	6 x 3/8	137-3792	4.42	4.33	4.25	4.17
161W	Wallet containing						
	one of each	one of each	443-025	34.23	31.45	30.00	27.44

#### **Wad And Belt Punches**

**Belt Punches** 



		1010
Size (mm)	Order Code	Price Each 1+
4	155-2249	0.96
5	155-2250	1.04
6	155-2471	1.17
9	012-439	2.89
10-11	155-2987	1.84
12	012-441	5.34
13-14	012-442	6.24
15	012-443	7.65
24-25	012-449	14.00

#### **Punch and Chisel Set**

12 Piece



- Fully hardened and tempered chrome vanadium steel
- Supplied in a storage roll and each tool has a plastic hand grip

Contents: Cold Chisels ½", 54", 54", 74", 76", Pin Punches ¼", 552", Taper Punches ¼", 54", 14", Solid Punch 51e", Centre Punch ¾", Utility Chisel 552" and Diamond Point Chisel ½"

	Price Each
Order Code	1+
313-3369	14.42

#### Drive Pin Punch Set Standard & Long Series

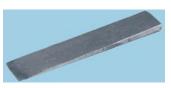


- Manufactured from tool steel, hardened and tempered at each end between 45-52 Rockwell
- Knurled body and black oxide finish
- Standard and long sets availableBoth sets supplied in fitted vinyl

Parallel Length		Overall Length	Contents (Imperial)	Mftrs. List No.	Order Code
87 19	Drive pin punch set (5 piece) Drive pin punch set (8 piece)	205 102	1/8, 3/16, 1/4, 5/16, 3/8 1/16, 3/22, 1/8, 5/32, 3/16,7/32, 1/4, 5/16		709-3974 709-3986

	Price Each
Order Code	1+
709-3974	21.98
709-3986	24.42

#### Fox Wedge



		101200
		Price Each
Size (in)	Order Code	1+
3½ x ½ x ¼	155-2358	2.67

#### 38 Piece Number & Letter Stamp Set

**DURATOOL** 



- Simply place number or letter in automatic punch and stamp where needed
- Size of number and letter: 3mm (1/8")
- Ideal for security marking on personal belongings
- Includes blow moulded storage case

481957.452992

			Price Eac	h	
Order Code	1+	4+	10+	20+	50+
144-7391	6.42	5.86	5.13	4.80	4.38

#### **Letter And Figure Punch Sets**

**Positive Impression Figure And Letters** 



Produce sharp faced characters on anything from aluminium to stainless steel.

#### 10 Figures

Size Of Characters			Price Each
(mm)	(in)	Order Code	1+
1.0	.040	212-827	15.35
1.5	1/16	012-831	13.69
2.0	5/64	212-828	10.37
2.5	3/32	012-832	10.99
3.0	1/8	012-833	10.37
4.0	5/32	212-831	12.46
5.0	3/16	155-3639	17.03
6.0	1/4	012-835	13.69
8.0	5/16	212-832	26.80
10.0	3/8	012-836	33.26
12.5	1/2	212-833	44.14

### 27 Letters

492514

Size Of Charac	ters		Price Each
(mm)	(in)	Order Code	1+
1.5	1/16	012-837	33.80
2.0	5/64	212-830B	29.37
2.5	3/32	012-838	29.35
3.0	1/8	012-839	26.48
4.0	5/32	213-834B	29.09
5.0	3/16	012-840	29.67
6.0	1/4	012-841	33.80
10.0	3/8	012-842	83.13

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#### **Figure and Letter Punches**



223208



- Number punches supplied as set of 9 in tough plastic case
- Manufactured from specially-selected steel, correctly hardened and tempered
- Letter punches supplied as set of 27, A to Z plus the & symbol, in tough plastic case

B>Figure Size	Length	Mftrs. List No.	Order Code
6mm/1/4"	75mm	T3301-25	709-7372
Letter Size			
6mm/1/8"	75mm	T3303-25	709-7396

	Order Code	Price Each 1+
Punch Set, Numbers, 6mm	709-7372	11.40
Punch Set, Letters, 6mm	709-7396	28.02

#### **Wad Punches**



		4917
Size (mm)	Order Code	Price Each 1+
6	155-2988	3.20
8	155-2989	3.20
8	155-2990	3.20
10	155-3637	5.54
12	155-3638	5.03
13	012-456	5.50
15	155-4306	6.63
17	155-3081	7.73
20	012-459	8.91
22	012-460	9.27
23	012-461	13.45
25	012-462	12.03
28	012-463	14.24
34	012-465	24.85
38	012-466	23.50
41	012-467	33.15

#### **Metal Punches**



#### No 5 Junior Hand Punch Set

Complete with 7 punches and dies. Sizes:  $\frac{3}{2}$ ,  $\frac{1}{6}$ ,  $\frac{5}{2}$ ,  $\frac{3}{16}$ ,  $\frac{7}{32}$ ,  $\frac{1}{4}$  and  $\frac{9}{2}$ in. Supplied in a plastic case.

#### XX Deep Throat Punch Set

Complete with 7 punches and dies. Sizes:  $\frac{1}{2}$ ,  nd  $\frac{1}{2}$ in. Supplied in a plastic case.

						494457
Model	Capacity Hole x Thickness	Max Hole Size(in)	Throat Depth (in)	Order Code	Price Each 1+	
No 5	1/4 x 16 swg	9/32	1¾	012-476	87.47	
XX	1/4 x 16 swg	17/32	31/4	212-490B	256.07	

#### **Maun Wad Punch Kits**



Single punch handle onto which screws a series of interchangeable punches. All parts are fully treated and chemically blacked.

Model	Punch Diameter	Order Code	Price Each 1+
1001-05	1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1in	138-6961	24.30
1000-05	5, 6, 8, 10, 12.5, 16, 20, 25, 32mm	138-6964	25.29

#### Punch Hollow Punch Sets



3 sets of hollow punches ideal for cutting out washers and sealing rings in foam, cardboard, leather, rubber, fibre, plastics, lead and various other materials.

plastics, lead and various other materials.
Each set contains a single punch handle onto which the punches are locked by means of a patented system.

241113

Model	Punch Diameter	Order Code	Price Each
JLB320 CM JLB330	3, 4, 6, 8, 10, 12, 14, 16, 18, 20mm 3, 4, 6, 8, 10, 12,	010-568	62.19
CM JLP250P	14, 16, 18, 20, 22, 24, 26, 28, 30mm 2, 3, 4, 5, 6, 7, 8, 9,	010-569	110.44
	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38,		
	40, 42, 44, 46, 48, 50mm	010-570	233.82

#### **Screw-Hole Punches**

#### with three-point cutting tip



- Suitable for sheet steel, stainless-steel sheets,
- non-ferrous and light metals, plastics.
- Die: three-point cutting
- Material: special steel
- Material thickness: up to 4mm
- Draw-in-bolt: metric fine-thread from MF 10 grade 12.9

Anchor Hole	Thread Size	Fastens Material Up To	Min. Hole Depth	Anchor Hole	Thread Size	Fastens Material Up To	Min. Hole Depth
109127	12.7	7	M8	109283	28.3	21	M12
109165	16.5			109320	32		
109186	18.6	11	M10	109325	32.5		
109200	20			109350	35		
109204	20.4	13.5	M10	109405	40.5		
109220	22			109450	45		
109225	22.5	16	M10	109505	50.5		
109254	25.4			109600	60	48	M16

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
109127	379-256	11.30	10.20	9.30
109165	470-0790	12.48	11.86	11.24
109186	379-281			
109200	470-0806	14.82	14.07	13.34
109204	379-311	15.10	13.60	12.30
109220	470-0818	16.18	15.39	14.58
109225	379-323	16.50	14.80	13.45
109254	470-0820	17.77	16.91	16.01
109283	379-335	16.50	14.80	13.45
109320	470-0843	19.77	18.78	17.78
109325	470-0855	22.72	21.58	20.44
109350	470-0867	22.72	21.58	20.44
109405	470-0879	31.06	29.51	27.96
109450	470-0880	36.96	35.12	33.25
109505	470-0892	44.48	42.26	40.03
109600	382-887	51.20	46.10	41.90
109635	470-0909	68.43	65.01	61.59

#### **Q-Max Sheet Metal Punches**



For punching burr- free and accurate holes in sheet metal. Up to 1.625mm thick mild steel, 2mm thick copper, brass and aluminium.

Punch Key Size	Bolt Size	Recommended Pilot Hole Size
MT	M6	8mm
MA	M8	10mm
MB	M10	12mm
MC	M12	14mm
MF	M14	16mm







#### **Punches - continued**

#### Q-Max Sheet Metal Punches - continued

#### Metric Round - continued

			Price Each
Size (mm)	Key Size	Order Code	1+
10	MT	139-1568	5.12
12.5	MA	139-1569	5.45
14	MA	139-1587	5.45
15	MA	139-1570	5.60
16	MA	139-1571	5.60
17.5	MA	139-1572	5.89
19	MB	139-1588	5.89
20	MB	139-1573	6.30
21	MB	139-1589	6.30
22.5	MB	139-1575	6.35
24	MB	139-1590	6.59
25	MB	139-1576	6.59
27.5	MB	139-1577	7.00
29	MB	139-1591	7.00
30	MB	139-1578	7.44
31	MB	139-1592	7.44
32.5	MC	139-1579	7.91
34	MC	139-1593	7.98
35	MC	139-1580	8.57
37.5	MC	139-1581	10.18
40	MC	139-1582	11.63
45	MC	139-1583	12.35
50	MC	139-1584	14.38
51	MC	139-1595	14.97
55	ME	139-1594	18.38
60	ME	139-1597	26.58
64	ME	139-1596	31.13
65	ME	139-1599	34.85
75	ME	139-1601	60.07
76.5	ME	139-1602	60.21

#### **Metric Square**

			Price Each
Size (mm)	Key Size	Order Code	1+
19	*	139-1603	33.13
24	В	139-1605	34.68

#### Rectangular

		Price Each
Size (mm)	Order Code	1+
17.5 x 24	139-1606	42.46

#### **Fractional Round**

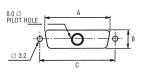
0. 4.14			Price Each
Size (in)*	Key Size	Order Code	1+
3/8	T	139-1551	5.14
7/16	T	139-1552	5.35
1/2	A	139-1553	5.45
5/8	A	139-1554	5.60
3/4	Α	139-1555	4.53
13/16	A	139-1556	5.89
7/8	A	139-1557	6.30
1	В	139-1558	6.59
11/16	В	139-1559	6.90
11/8	В	139-1560	7.08
13/16	В	139-1561	7.55
11/4	В	139-1563	7.69
13/8	В	139-1564	8.57
11/2	В	139-1565	7.66
15/8	В	139-1566	11.32
13/4	В	139-1567	11.98

#### Keys

			494237
Size	AF	Order Code	Price Each 1+
T	¾in	155-2285	0.28
Α	7∕32 <b>in</b>	155-3031	0.32
В	5∕16 <b>in</b>	102-168	0.99
MA	6mm	155-2117	0.36
MB	8mm	155-2118	0.62
MC	10mm	155-2282	1.19

#### 'D' Connector Punch





A range of D-connector hole punches suitable for use on mild steel up to 1.6mm (16 swg) and aluminium up to 2mm (14swg). They are available to suit either rear or front/through mounting

#### 9 Way Front 21.3 **15 Way** Front 29.6 50 Way **25 Way** ont Rear Front 43.4 Rear 55.7 19.8 11.3 28.2 41.9 59.8 58.4 12.9 12.9 12.9 11.3 13.9 25.0 25.0 47.0 47.0 63.5 63.5 61.1

Connector	Mftrs.	Order Code	Price Each
Rear	List No.		1+
9Way	976-0010	146-822	110.53
15Way	976-0020	146-823	118.95
25Way	976-0030	146-824	115.73
37Way	976-0040	146-825	121.00
50Way	976-0050	146-826	116.59
Connector Front/Through Through Mounting 9Way 15Way 25Way 37Way	975-0010 975-0020 975-0030 975-0040	146-817 146-818 146-819 146-820	111.29 115.24 114.80 107.47

#### 3000lb Lever Press



lacksquare	Designed to manufacture sheet materi-
	al and bar into prototypes for develop-
	ment and production runs

DELTRON Components

223220

- Ideal for the manufacture of sheet metal and plastic components
- Robust frame being high quality carbon steel which is then stove enamelled
- Wide range of accessory tools below enable it to shear, bend, bar crop, form and shape
- Complete with instruction manual
- Supplied without bench

Throat clearance 150 deep 83mm f Stroke length 6 to 60 Ram spigot hole 18 dia., 22 deep Base hole 38 dia. Bench mounting, 4 holes 10mm dia. Weight 14.2 kg		Material Aluminium Mild Steel Fibre Glass Paper PCB	Max. recommended sheet thickness (mm) 2.50 1.62 2.00 3.20	223220

Mftrs.		Price Each
List No.	Order Code	1+
900-0000	149-343	512.09

#### **Rectangular Punches and Dies**



Range of useful rectangular punches and dies suitable for many rocker switches and IEC panel mounting connectors

DELTRON Components

 Manufactured in case hardened steel to the same high tolerances as the circular punches and dies

Use die holder 903-0030 (Order Code 149-387)

			2232	220
Size	Mftrs. List No.	Order Code	Price Each 1+	
15.9 x 13.0 29.4 x 22.0	906-0020 906-0060	149-374 149-378	37.33 47.43	

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DELTRON Components

#### **Boxed Sets of Punches and Dies**





- Two boxed sets of circular punches and dies
- Thirteen piece set (3 12mm) Seven piece set (12.5 27.5mm)
- Housed in strong stove enamelled boxes with hinged lids
- The 149-431 also includes a stripper plate

	WITH 3 LIST ING.	Oraci Ooal
13 Piece 3-12mm dia	907-0010	149-431
7 Piece 12.5 - 27.5mm	902-0010	108-177

Diameter	Order Code	Price Each 1+
3-12mm	149-431	304.97
12.5 - 27.5mm	108-177	142.23

#### **Circular Punches and Dies**

Tool Steel



3 to 12mm Use die holder 5563-6 (Order Code 149-385) Stripper 5514-02 (Order Code 149-388)

Spring loaded

- Fully hardened and tempered tool steel
- Suitable for fibreglass SRBP boards, aluminium and mild steel

Diameter	Mftrs. List No.	Order Code	Price Each 1+
3.5	912-0020	149-347	13.82
4	912-0030	149-348	14.53
5	912-0050	149-350	14.53
6	912-0070	149-352	13.57
12	914-0140	149-358	12.34

#### **Nibbling Tools**





Use die holder 903-0010 (Order Code 149-385) and Stripper 902-0010 (Order Code 149-388)

 Versatile nibbling tool enabling the operator to produce a wide range of cut-outs

				223231
	Mftrs.		Price Each	
	List No.	Order Code	1+	
Square	901-0120	149-393	37.33	

#### **Corner Notching Tool**



DELTRON Components

 For precise 90° notches, up to 53mm per side. Adjustable stops make continuous production easy, particularly useful for box making.

Mftrs.		Price Each
List No.	Order Code	1+
901-0040	149-400	168.73

#### **Vee Bending Tool**



DELTRON Components Baseplate 160mm long and five bending

punches: 50, 75, 100, 125 and 150mm long Punches can be cut or machined to any

required length allowing manufacture of brackets and boxes

223235

Mftrs.		Price Each	
List No.	Order Code	1+	
901-0050	149-401	158.10	

#### **Slot Guillotine**

223229

223230

DELTRON Components



For cutting and slotting without distorting the material Cut slot is 3mmx70mm

DELTRON Components

DELTRON Components

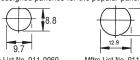
223242

Mftrs.		Price Each
List No.	Order Code	1+
901-0070	149-403	159.48

#### **Components Punches and Dies**



• A range of specially designed punches for the popular panel mounted components



Mftrs List No. 911-0060 Order Code 149-433

Mftrs List No. 911-0070 Order Code 149-434

	Price Each	
Order Code	1+	
149-433	40.44	
149-434	41.66	





DELTRON Components

#### **Punches - continued**

#### Die Holders





Die holder to securely mount the dies to the press

 $\begin{array}{l} {\rm Application} \\ {\rm 3--12mm~Circular~dies~and~all~nibbling~tools} \end{array}$ 

Mftrs List No. Order Code 903-0010 149-385

		Price Each
Die Holders	Order Code	1+
3 — 12mm circular	149-385	15.00

#### **Knives**

#### **Disposable Knife**

STANLEY



Yellow moulded plastic handle with integral blade.

478371

			Price Per E	Box (50 pcs)	
Model	Order Code	1+	5+	10+	20+
10-601RB	135-3707	25.90	25.10	23.85	22.80
			Price Per	Card (3pc)	
Model	Order Code	1+	5+	10+	20+
10-6013R	135-3708	1.90	1.74	1.66	1.63

#### **Folding Knife**

STANLEY



- ●Die cast body with folding, lockable blade.
- 2 blades supplied.
- ●Knife uses Stanley 5901 blades (order code 722-1216).

478365

	Price Each				
Order Code	1+	5+	10+	20+	
135-3683	6.84	6.46	6.17	5.98	

#### **Interlock Knife**

STANLEY

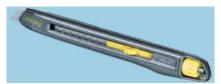


 $\label{lightweight} \mbox{Lightweight, die cast body slimline knife ideal for modelling. Supplied with 5 blades.}$ 

	Price Each				
Order Code	1+	5+	10+	20+	
135-3681	4.85	4.70	4.45	4.37	

#### **Interlock Knife**

STANLEY



Interlock knife with finger screw operated wedge lock to hold blade securely. Die cast metal body.

			Price Each			
Blade width (mm)	Order Code	1+	5+	10+	20+	
9	135-3684	3.10	3.00	2.85	2.78	
18	135-3710	4.85	4.70	4.45	4.37	

#### SM9 & SM18 Knife



Plastic knife with blade snapping slot in end cap.

478381

STANLEY

Blade			Price Each					
	Model	width (mm)	Order Code	1+	4+	20+	40+	
	SM9	9	610-057	1.15	1.10	1.05	0.99	
	SM18	18	610-069	2.57	2.34	2.22	2.18	

#### **Dynagrip Knife**

STANLEY



Stainless steel barrel with grey soft touch polypropylene grip. Screw clamp locking device ensures security of blade. Blade snapper incorporated in end cap.

		Price Each					
Blade width (mm)	Order Code	1+	5+	10+	20+		
9	135-3693	3.55	3.45	3.25	3.17		
18	135-3694	4.85	4.70	4.45	4.37		

#### 10-280, 10-380 & 10-400 Knifes

STANLEY



Ergonomically designed for comfort and cutting power cartridge knives. The 18mm blade is automatically locked in the selected position for safe, positive cutting. After removing used blade from nose of cutter, the new blade automatically feeds into position when the slider is retracted. Model 21-4403 can store 2 standard blades whilst 21-4404 and 21-4405 can store upto 6 standard blades.

Blade width			Price Each			
Model	(mm)	Order Code	1+	5+	10+	20+
10-280	18	135-3716	3.45	3.35	3.15	3.09
10-380	18	135-3717	5.00	4.85	4.60	4.50
10-480	18	135-3719	7.78	7.61	7.46	7.31

#### **Titan Knife**

STANLEY



Enamel painted aluminium body. Supplied with 5 blades and polypropylene scabbard. Easy blade change using solid brass notched wheel.

				47000			
	Price Each						
Order Code	1+	5+	10+	20+			
135-3714	9.30	9.00	8.55	8.37			

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#### **Retractable Utility Knife**

### **DURATOOL**



- Retractable blade with 3 positions
- Cast metal construction
- Precision die-cast ergonomically designed handle
- Easy blade change without the use of any tools

					482102.462286			
	Price Each							
Order Code	1+	5+	10+	20+	50+			
144-7566	1.73	1.60	1.41	1.30	1.17			

#### **Lightweight Knife**

STANLEY



Lightweight knife with ABS body and screwless blade changing mechanism. Supplied with 2 blades.

				478363			
	Price Each						
Order Code	1+	5+	10+	20+			
135-3692	1.85	1.80	1.70	1.67			

#### 199 Knife





Grey painted die cast body with textured grip and 5 assorted blades.

	Price Each						
Order Code	1+	5+	10+	20+			
135-3680	4.28	4.04	3.88	3.72			

#### 99E Knife

STANLEY

478346



Grey painted die cast body with variable blade extension and 5 assorted blades.

				470009			
	Price Each						
Order Code	1+	5+	10+	20+			
135-3682	4.24	4.16	3.99	3.85			

#### **C.K Trimming knife auto retracting**





- Blade retracts automatically when lever is released, reducing risk of injury
- Ergonomic, lightweight design
- Simple blade change

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
SAFETY KNIFE T0969	166-0787	3.60	3.40	3.25

### **Trimming Knives**



- Trimming knive with lockable body
- Magnetic blade holder Supplied with 10 spare
- blades in a dispenser



				Price	Each	
ade type	Mftrs. List No.	Order Code	1+	5+	10+	20+
on retractable	T0956-2	151-8924	4.02	3.90	3.77	3.65
tractable	T0956-1	151-8925	4.91	4.76	4.61	4.47
	on retractable	on retractable T0956-2	on retractable T0956-2 <b>151-8924</b>	on retractable T0956-2 <b>151-8924</b> 4.02	on retractable T0956-2 <b>151-8924</b> 4.02 3.90	on retractable T0956-2 <b>151-8924</b> 4.02 3.90 3.77

						10001	1
				Price	Each		
Spares	Mftrs. List No.	Order Code	1+	5+	10+	20+	
Pack of 10	T0959-10	151-8927	2.22	2.16	2.09	2.03	
Pack of 50	T0959-50	151-8928	8.94	8.66	8.40	8.12	

#### **Trimming Knives**





- Soft grip handle
- Interlocking body with captive body
- blade
- Internal storage can hold up to 5 blades Supplied with blade dispenser and 10 blades
- Magnetic blade holder for easy change of Retractable Version equipped with string/ strap cutting notch

						484549	
				Price	Each		
Type	Mftrs. List No.	Order Code	1+	5+	10+	20+	
Non-retractable	T0957-2	146-5986	5.34	4.88	4.50	4.30	
Retractable	T0957-1	146-5987	6.97	6.39	5.89	5.63	

#### **Metal Mitey Knife**



 $Rugged\ metal\ body\ construction\ with\ retractable\ blade\ with\ two\ cutting\ positions.\ Two\ spare$ blades and key chain included.

	Price Each						
Order Code	1+	5+	10+	20+			
135-3422	2.25	2.20	2.05	2.01			

### **Lightweight Trimming Knife**

STANLEY

478003



Lightweight die cast metal body supplied with 3 blades.

478351

	Price Each					
Order Code	1+	5+	10+	20+		
135-3713	2.30	2.25	2.10	2.06		

#### Interlock Adjustable Knife













#### Knives - continued

#### Interlock Adjustable Knife - continued

Interlock knife with wedge design for secure blade location, and 5 assorted blades.

	Price Each					
Order Code	1+	5+	10+	20+		
135-3711	6.35	6.15	5.85	5.72		

#### **Springback Knife**

STANLEY



For added safety, blade automatically springs back into handle when button is released. Supplied with 1992 blade.

		Price	e Each	
Order Code	1+	4+	20+	40+
108-392	5.25	5.10	4.85	4.56

#### **Titan RB Knife**

STANLEY



Heavy duty retractable blade knife. Supplied with 5 blades and polypropylene scabbard.

					0000
		Pric	e Each		
Order Code	1+	4+	10+	20+	
709-4024	10.80	10.50	9.95	9.36	

#### 5901 Straight Knife Blades

STANLEY

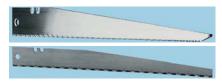


General purpose, for modelling and craft work.

	,				47834
			Price	e Each	
No. of blades	Order Code	1+	4+	10+	20+
3	722-1216	1.40	1.35	1.30	1.22
50	135-3715	15.35	14.90	14.10	13.80

#### Saw Knife Blades

STANLEY



For use with 199, 199A and 10-010 knives. Two types for sawing in restricted areas and cutting curved shapes.

				Price	e Each	
Model	Type	Order Code	1+	4+	20+	40+
0-15-276 0-15-277	Wood Metal	628-980 628-979	1.40 1.40	1.35 1.35	1.30 1.30	1.24 1.24

#### **Snap-Off Blades**

STANLEY



Supplied in safety storage box which provides effective snapping and storage of waste

	Size	Pack			Price	e Each	
Model	(mm)	quantity	Order Code	1+	5+	10+	20+
11-300	9	100	135-3685	16.90	16.40	15.55	15.24
11-301	18	100	709-3433	23.05	22.35	21.20	19.97

### 100 Knife Blades & Dispenser



**DURATOOL** 

- Dispenser can be mounted on wall or car-
- ried around Used blade section for safe disposal
- Contains 100 two notch stainless steel
- Suitable for use with most retractable knives

482103 454527

			Price Each		
Order Code	1+	5+	10+	20+	50+
144-7568	5.83	5.30	4.67	4.37	3.98

#### **Knife Blades**

STANLEY



technology knife New blade lasts 80% longer and are 50% sharper than a standard duty Stanley blade

#### Paper

Ideal for cutting cardboard, paper, adhesive tape, shrink wrapping, fabric, nylon band-

#### **Flooring**

Ideal for cutting foam backed carpet, reinforced carpet, underlay, lino, coco fibre, cork tiles, pvc adhesive tiles

#### Plasterboard

Ideal for cutting and scoring plasterboard, ceiling tile, wallboard and similar materials Roofing

Ideal for cutting roofing felt, shingle, roofing insulation, polystyrene tiles, tar paper

#### Sold in packs of 5

482980.467747

				Price/	Pack
1	Гуре	Mftrs. List No.	Order Code	1+	5+
F	Paper	5-11-938	145-4284	1.08	1.01
F	Flooring	5-11-943	145-4285	1.25	1.14
F	Plasterboard	5-11-937	145-4287	1.25	1.14
F	Roofing	5-11-939	145-4288	1.25	1.14

#### 1991Normal Duty Knife Blades

STANLEY



Normal duty, general purpose blade for paper, card and most thin sheet material. Not suitable for 99E and 10-089 knife.

478326

	Number	Pack			Price	Each	
Model	blades	details	Order Code	1+	5+	10+	20+
1991	5	Card	135-3686	1.00	0.95	0.90	0.89
1991	100	Plastic box	135-3689	13.80	13.40	12.70	12.43

### 1992 Heavy Duty Knife Blades

STANLEY



Heavy duty, general purpose blade, ideal for carpet, vinyl and other materials requiring a stiffer and stronger blade.





# (C.K)

	Number	Pack			Price	e Each		
Model	of blades	details	Order Code	1+	5+	10+	20+	
1992	5	Card	135-3687	1.15	1.10	1.05	1.03	
1992	100	Plastic box	135-3691	16.90	16.40	15.55	15.24	
1992	10	1 Dispenser of 10	135-3696	1.70	1.65	1.55	1.52	
1992	400	Box bulk packed	135-3705	61.00	59.15	56.10	54.98	

#### 1992R

Heavy duty, general purpose blade with a round nose end for additional user safety.

	Number	Pack			Price	Each	
Model	of blades	details	Order Code	1+	5+	10+	20+
1992R	10	Card of 10	135-3678	1.70	1.65	1.55	1.52

#### **Trimming Knife Blades**



All blades are manufactured to fit standard international holders.

	491259
ach	

	Pack		Price Each
Blade Type	qty	Order Code	1+
Heavy duty standard Heavy duty standard	10 100	385-9794 214-801	1.40 9.58

#### **Window Scraper**





Plastic handle fitted with 1992 blade and guard.

					47831	8
		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
5930	135-3709	1 10	1.05	1.00	0.98	

#### **Knives**

#### Palette Knives



Best quality extra flexible blades. Rosewood handles.

Blade Size (mm)	(in)	Order Code	Price Each 1+	
100	4	116-080	11.71	
150	6	116-081	13.05	
200	8	116-082	15.80	
250	10	116-083	25.95	

#### **Painters Scraper**





- High-quality spring steel, taper ground
- Strong enough for scraping but flexible enough for filling

25/1 T5075 1 <b>716-7120</b> 8.75 8.50 8.25 7.5 50/2 T5075 2 <b>716-7131</b> 8.55 8.30 8.05 7.7 75/3 T5075 3 <b>716-7155</b> 9.20 8.90 8.65 8.3							SEQ55
25/1 T5075 1 <b>716-7120</b> 8.75 8.50 8.25 7.5 50/2 T5075 2 <b>716-7131</b> 8.55 8.30 8.05 7.7 75/3 T5075 3 <b>716-7155</b> 9.20 8.90 8.65 8.3	Size	Mftrs.			Price	Each	
50/2         T5075 2         716-7131         8.55         8.30         8.05         7.7           75/3         T5075 3         716-7155         9.20         8.90         8.65         8.3	mm/inch	List No.	Order Code	1+	3+	6+	12+
75/3 T5075 3 <b>716-7155</b> 9.20 8.90 8.65 8.3	25/1	T5075 1	716-7120	8.75	8.50	8.25	7.90
	50/2	T5075 2	716-7131	8.55	8.30	8.05	7.70
100/4 T5075 4 <b>716-7167</b> 10.95 10.60 10.30 9.8	75/3	T5075 3	716-7155	9.20	8.90	8.65	8.30
	100/4	T5075 4	716-7167	10.95	10.60	10.30	9.85

#### **Electricians Knife**



- Lock Knife with sharp high carbon steel blade
- Wire stripping notch Brass riveted for smoother opening and closing action
- Size: 95mm

			448431.47	1150
Mftrs. List No. 484001	Order Code 128-3270	1+ 8.35	5+ 8.10	

#### **Electricians Knife**





- Sharp, high carbon steel blade
- Slotted screwdriver blade featuring a convenient stripping notch
- Both blades lock for safety in use
- Size: 110mm

448432.471418

Mftrs.		Price	Each
List No.	Order Code	1+	5+
484002	128-3271	12.00	11.65

#### **Tradesman Pocket Knives**



Stainless steel blades mounted in a virtually unbreakable moulded handle.

					433303
Size (mm)	(in)	Description	Order Code	Price Each 1+	
79	31/8	Clipt point general purpose	215-302B	11.87	
69	2¾	Clipt point blade and screwdriver/wire stripper blade for			
69	23/4	electricians etc Heavy duty blade	215-303	17.72	
		general purpose	215-304	9.89	

#### **Tradesman Pocket Knives**



#### Plumbers

Best quality steel blades simulated staghorn scales. Model 01-3477 has a spring loaded blade locking feature that ensures it remains open when in use.

	Price Each
Order Code	1+
013-477	16.70







#### Knives - continued

#### **Tradesman Pocket Knives - continued**

Plumbers - continued

Electricians/engineers NATO specification knife with single blade that incorporates screwdriver, file cable/wire stripper and cutting edge. Nickel bolster with black fibre scales.

			Price Each
Model	Size (in)	Order Code	1+
85	3%	013-474	15.12

#### Model 80BEX

General purpose lock knife. Simulated stag horn scales.

			Price Each
Model	Size (in)	Order Code	1+
80BEX	41/2	013-472	22.50

#### **Sports Utility Knife**

STANLEY



Multi-functional combination knife. Features traditional utility blade and serrated edged blade. Soft panels provide for a safe grip with instant push button blade change without the need of tools. Supplied in a heavy duty holster with pack of 10 heavy duty blades.

				4783	25		
	Price Each						
Order Code	1+	5+	10+	20+			
135-3667	20.57	19.87	19.24	18.86			

#### **Trimaway & Retractaway Scalpels**

#### **SWANN MORTON**





Purposely designed as an economic throwaway knife, the Trimaway has a strong nylonbased handle fitted with a fixed surgical quality heavy-duty No.25A blade and comes complete with guard. The Trimaway is particularly suitable for artwork, craftsand model making and the cutting edge requirements of the handy person and D.I.Y. enthusiast.



#### Retractaway

The Retractaway is a sleek graphite-finish metal handle offering the added safety of a hand retractable blade mechanism. It is a highly versatile cutting tool produced with designers, graphic artists and model makers in mind. With easy blade changing it fits and safely retracts surgical blade No's 10, 10A, 11 and 15.

				Price Eac	h
Description	Mftrs List No.	Order Code	1+	5+	10+
Trimaway Scalpel Handle with blade 25A Retractaway Scalpel Handle with blade 10A	2338 2800 0102	155-1300 155-1301	1.10 5.60	1.05 5.30	1.00 5.05

#### **Retractable Scalpel Knife**



- Lightweight scalpel handle
- Virtually unbreakable
- Supplied with one No.10A

					493842
		Price Each			
Mftrs. List No.	Order Code	1+	5+	10+	20+
145-0003	151-8439	2.24	2.16	2.09	2.01

#### **Scalpels and Surgical Quality Blades**

#### **SWANN MORTON**

This professional range of blades and handles are used in a variety of different industries from mould cutting and prototyping to printing and artwork. The No.3 handle is available for use with the small fitment blades. The No. 4 handle is available foruse with the larger fitment



#### blades. Especially with craft professionals and enthusiasts in mind, Swann-Morton has developed two acrylic handles (5A and 6A) with a nickel blade fitting that takes standard surgical blades. Handle 5A is for use with the small fitment blades. Handle 6A is to be used

#### Scalpel Handles No. 3 and 5A



Handle 5A

Blades for use with h	Blades for use with handles 3 and 5A					
Mftrs List No.	Image	Blade No.	Order Code			
0101		No. 10	155-1278			
0102		No. 10A	155-1281			
0103		No. 11	155-1282			
0104		No. 12	155-1283			
0239		No. 13	155-1284			
0119		No. 14	155-1285			
0105		No. 15	155-1286			

#### Scalpel Handles No. 4 and 6A



Plades for use with	Blades for use with handles 4 and 6A						
		DI. J. M.	h.10.1.				
Mftrs List No.	Image	Blade No.	Order Code				
0123		No. 18	155-1289				
0124		No. 19	155-1290				
0106		No. 20	155-1291				
0107		No. 21	155-1293				
0108		No. 22	155-1294				
0110		No. 23	155-1295				
0111		No. 24	155-1296				
0112	n	No. 25	155-1297				
0113		No. 26	155-1298				
0236		No. 36	155-1299				

	Mftrs.		Price Each			
Handles	List No.	Order Code	1+	5+	10+	
Handle No. 3	0803	155-1277	4.30	4.10	3.85	
Handle No. 5A	1005	155-1276	12.95	12.30	11.65	
Handle No. 4	0804	155-1288	4.30	4.10	3.85	
Handle No. 6A	1006	155-1287	12.95	12.30	11.65	
				Price Per Pa	ck	
Blades for Handles No. 3 and 5A			1+	5+	10+	
Surgical Quality Blades, Pack of 5	0101	155-1278	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0102	155-1281	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0103	155-1282	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0104	155-1283	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0239	155-1284	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0119	155-1285	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0105	155-1286	1.30	1.25	1.15	
			Price Per Pack			
Blades for Handles No. 4 and 6A			1+	5+	10+	
Surgical Quality Blades, Pack of 5	0123	155-1289	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0124	155-1290	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0106	155-1291	1.30	1.25	1.15	
Surgical Quality Blades, Pack of 5	0107	155-1293	1.30	1.25	1.15	

with the larger fitment blades.

Blades for Handles No. 4 and 6A	Mftrs.		1+	Price Each 5+	10+
Surgical Quality Blades, Pack of 5	0108	155-1294	1.30	1.25	1.15
Surgical Quality Blades, Pack of 5	0110	155-1295	1.30	1.25	1.15
Surgical Quality Blades, Pack of 5	0111	155-1296	1.30	1.25	1.15
Surgical Quality Blades, Pack of 5	0112	155-1297	1.30	1.25	1.15
Surgical Quality Blades, Pack of 5	0113	155-1298	1.30	1.25	1.15
Surgical Quality Blades, Pack of 5	0236	155-1299	1.30	1.25	1.15

#### **High Precision Scalpels and Blades**

#### **SWANN MORTON**

The ACM Boxed Set is a comprehensive set of 13 precision ground carbon steel blades, made by one of the world's leading surgical blade manufacturers to the same high surgical quality for which the company is renowned, together with 3 handles. Handles and blades available also individually.









Handle 5 with blade 28: order code 155-1269

Blades	s for use with handle 1	
Тур	Image	Blade No. BestNr.
9327	A.C.M. 7	ACM7SM 155-1263
9301	A.C.M. 10 SHEFFELD FASCARD	ACM10SM155-1264
9303	A.C.M. 11	ACM11SM155-1265
9316	A.C.M. 16 DITTIELD TINGUISE	ACM16SM155-1266
9307	A.C.M. 17 Defined Inscise	ACM17SM155-1268

Тур	Image	Blade No. BestNr.
9322	A.C.M. 2 periodi receni	ACM2SM 155-1270
9318	A.C.M. 18 permis resum	ACM18SM155-1271
9308	A.C.M. 22 Onthito trep and	ACM22SM155-1272
9311	A.C.M. 24 DRITTELD (RELAND	ACM24SM155-1273
9328	A.C.M. 28 Suffred Fearer	ACM28SM155-1274

			-	Price Eac	h
Description	Mftrs List No.	Order Code	1+	5+	10+
ACM Set	9101	155-1275	28.10	26.70	25.30
	9102	155-1262	4.75	4.50	4.30
Handle No. 5 with blade 28	9104	155-1269	6.90	6.55	6.20
			Pri	ice Per Pa	ack
Blades for Handle No. 1	Mftrs List No.	Order Code	1+	5+	10+
High Precision Blades, Pack of 5	9327	155-1263	2.15	2.05	1.95
High Precision Blades, Pack of 5	9301	155-1264	2.15	2.05	1.95
	9303	155-1265	2.15	2.05	1.95
	9316	155-1266	2.15	2.05	1.95
High Precision Blades, Pack of 5	9307	155-1268	2.15	2.05	1.95
			Pri	ice Per Pa	ack
Blades for Handle No. 5	Mftrs List No.	Order Code	1+	5+	10+
High Precision Blades, Pack of 5	9322	155-1270	2.60	2.45	2.35
High Precision Blades, Pack of 5	9318	155-1271	2.60	2.45	2.35
High Precision Blades, Pack of 5	9308	155-1272	2.60	2.45	2.35
High Precision Blades, Pack of 5	9311	155-1273	2.60	2.45	2.35
High Precision Blades, Pack of 5	9328	155-1274	2.60	2.45	2.35

35 Piece Hobby Knife Set





- 35 piece hobby knife craft set
- Contains everything you would need to get you started

- Ideal for the modeller or craft worker
  Tweezers for the safe removal of blades
  Supplied with: 23 assorted blades, 2 x handles, 1 x plane, sanding block, tweezers, 3 x scoring points and handle,
- Contained in a handy carry case

,		457701.453015
	Price	/Set
Order Code	1+	5+
132-8726	5.87	5.28

# Technical information at your fingertips



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#### Knives - continued

#### **Knives**



Machined from lightweight metal with interchangeable surgical steel blades firmly held in a 4

				Price	Each	
Type	Description	Order Code	1+	10+	25+	40+
XN100	Light duty. Uses 100 series					
	blades.	440-942	2.34	2.27	2.20	2.14
XN200	Medium duty. Uses 200 se- ries blades.	440-980	0.51			
XNS-100	Light and medium duty set	440-980	3.51			
7110-100	complete with 10 assorted					
	blades.	440-930	9.36	9.08	8.81	8.54

#### **Spare Blades**

In packs of 5.

						480400
Туре	Description	Order Code	1+	Price F 10+	Per Pack 25+	40+
XNB103 XNB101 XNB205 XNB203	Fine Point Standard Pointed General purpose	440-954 440-966 441-016 441-028	2.07 2.88 2.16 3.15	2.01 2.79  3.06	1.95 2.71  2.96	1.89 2.63  2.87

#### **Multitools**

#### NMP12 Multimax Pro Universal Tool





Nicholson<sup>®</sup>

COOPER Hand Tools New

- 14 tools in 1
- Made of stainless steel
- Components can be removed and replaced
- Blades can be opened with handles closed
- Supplied with a nylon sheath, can be attached to the belt vertically or horizontally
- Includes 14 tools: multi-purpose pliers and wire cutters, 2 flat-blade screwdrivers, Phillips screwdriver, pocket-knife blade, serrated blade, rule with metric and imperial graduations (measures up to 20cm), attaching ring, can opener/bottle opener, metal/wood

				4	30704
	Order		Price Each		
Mftrs. List No.	Code	1+	+	+	
0010020265	122-9796	79.78			

#### NMP15 Multimax Pro XL Universal Tool





- 15 tools in 1
- Made of stainless steel
- Components can be removed and replaced
- Blades can be opened with handles closed
- Supplied in a nylon sheath, can be attached to the belt vertically or horizontally
- Includes 15 tools: large jaw multi-purpose pliers for crimping and wire cutting, locking pocket-knife blade, 3 flat-blade screwdrivers (small, medium, large), Phillips screwdriver, rule with metric and imperial graduations, attaching ring, can opener/bottle opener, metal/wood file, saw, awl

,,,,, .				450	707
	Order		Price Each		
Mftrs. List No.	Code	1+	+	+	
0010020268	122-9797	102.88			

#### 7 Function Multi-Tool



Order Code

166-4778

- High grade stainless steel
- Precision engineered Compact and lightweight Length: 100mm (Closed)
- Weight: 140g
- Supplied with 4 x LR41 batteries and black nylon pouch with belt loop

454052 Price Each 5+

### **Scissors**

4.50



#### WILLIAM WHITELY

4.25

Specially designed for electricians use for wire cutting

Overall length = 130

223358

	Price Each
Order Code	1+
289-231	9.50

#### **Factory Scissors**





Overall length = 165

TMM76X

		Price Each	
Order Code	1+	4+	20+
440-863	7.26	6.52	5.73

#### **Lightweight Scissors**



High grade stainless steel blades, chemical and heat resistant handles. Very powerful scissor able to cut carpet, underlay, thick fabric, leather etc.

#### **General Purpose**

Durable all-rounder. Unique oversized handles for greater comfort and flexibility.

Cut	Order Code	Price Each 1+
2.25" (6cm)	138-2442	5.50

#### Embroidery

Two sharp points for delicate/accurate work. Unique oversized handles for greater comfort and flexibility.

Price Each Cut Order Code 138-2441 138-2446 2.25" (6cm) 5.50 19.69

# Coming soon



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Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.





# 45

#### **Trimmers**



- Stainless steel blades with tough ABS handles
- Smooth blades, ideal for paper, card, foil, etc.
- Side bend handles for cutting on a surface

		Price	Each	
Order Code	1+	+	+	+
609-766	7.98			

#### **Heavy Duty**



223297 401885



Heavy duty cutting out shears with black japanned easy bows

11041	y daily dataing of	it onouro with black japai	mod oddy bowlo	2233	16
	Size	Mftrs. List No.	Order Code	Price Each 1+	
	205mm 250mm	80788 809510	628-761 628-773	10.40 18.00	

#### **Tin Snips**

#### **Aviation Tin Snips**





- Manufactured from chrome vanadium steel
- Specially strengthened jaws are serrated for extra grip and pull through
- Non-slip, spring loaded handles, for ease of use and to reduce user fatigue
- Manual locking catch reduces the risk of injury when the cutters are not in use
- Length: 250mm (10")

					481980.457891
Order Code	1+	5+	Price Each 10+	20+	50+
144-7424	2.65	2.58	2.11	1.99	1.82

#### 3 Piece Aviation Tin Snip Set





- Aviation style straight cut tin snips
- Includes 9 ½" left curve, 10" straight and 9½" right curve snips
- Manufactured from chrome vanadium steel
- Specially strengthened jaws are serrated for extra grip and pull through
- Non-slip, spring loaded handles, for ease of use and to reduce user fatigue
- Manual locking catch reduces the risk of injury when the cutters are not in use

					481981.457893
			Price/Set		
Order Code	1+	5+	10+	20+	50+
144-7425	7.83	7.56	6.26	5.88	5.35

#### Over 480,000 products online



#### **Metalmaster Aviation Snips**



Compound action. Suitable for mild steel sheet up to 1.2mm 18g.

						4852	8
				Price	e Each		
Model	Description	Order Code	1+	5+	10+	20+	
M1R	For cutting to left	122-9766	22.26				
M2R	For cutting to right	122-9767	22.26				
M3R	For straight cutting	122-9768	22.26				
M5R	For notching	137-1661	24.97	24.22	23.49	22.79	
M6R	Offset snips for straight						
	and left hand curves	137-1662	24.34	23.61	22.90	22.21	
M7R	Offset snips for straight						
	and right hand curves	137-1664	24.34	23.61	22.90	22.21	

# **Troubleshooting tips**



Chat live online to one of our technical engineers at www.farnell.co.uk



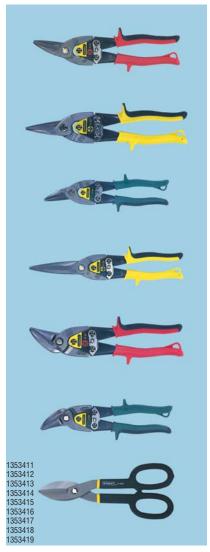




### **Tin Snips - continued**

**Max Steel Snips** 

STANLEY



Max steel snips are forged alloy steel construction with chrome plated jaws. Bi-material handles provide comfort and a better grip. Features include serratted cutting edges to prevent slippage when cutting aluminium, sheet UPVC, wire mesh, leather, copper and plastic. One handed, automotive latch release with squeeze of the handle.

					411311	J
			Price	Each		
Description	Order Code	1+	5+	10+	20+	
Left hand	135-3411	10.05	9.75	9.25	9.07	
Straight	135-3412	10.05	9.75	9.25	9.07	
Right hand	135-3413	10.05	9.75	9.25	9.07	
Long cut	135-3414	11.60	11.25	10.65	10.44	
Offset left	135-3415	11.60	11.25	10.65	10.44	
Offset right	135-3416	11.60	11.25	10.65	10.44	
175 Straight pattern snip	135-3417	10.05	9.75	9.25	9.07	
250 Straight pattern snip	135-3418	11.60	11.25	10.65	10.44	
300 Straight pattern snip	135-3419	13.15	12.75	12.10	11.86	

#### **Tinsnips** G245 Straight Blade



Open joint design for easy sharpening. Replaceable nut and bolt for long life. Precision blades for maximum cutting efficiency. No nip han-

IRWIN.

**GILBOW** 

For general purpose, straight cutting of sheet metal.

							483388
Size (mm)	Size (inches)	Order Code	1+	5+	Price Each 10+	20+	
200	8	134-8389	14.75	14.15	13.55	13.28	
250	10	134-8390	17.85	17.15	16.40	16.09	
300	12	134-8391	20.00	19.20	18.40	18.03	
350	14	134-8392	22.95	22.05	21.10	20.68	

#### Tinsnips G246 Curved Blade



Suitable for cutting clockwise, tight radii and small angle cutting.

Size	Size			Pric	e Each	
(mm)	(inches)	Order Code	1+	5+	10+	20+
200	8	134-8393	23.40	22.45	21.55	21.12
250	10	134-8394	24.65	23.65	22.70	21.70
300	12	134-8396	28.45	27.30	26.15	24.53

#### Jewellers Snips

Two patterns of short-bladed light duty snip designed for use on precious metals by

**IRWIN**.

GILBOW.

			Size			Pric	e Each	
Model	Type	Size	(inches)	Order Code	1+	5+	10+	20+
G56	Straight	175	7	134-8397	12.64	12.39	12.14	11.90
G056	Curved	175	7	134-8398	18.31	17.95	17.59	17.23

#### **Cutters - Bolt**

#### **Bolt Cutters**

# **DURATOOL**



- Drop forged, heat treated steel
- Tubular steel handles with rubber
- grips allow maximum leverage
- Adjustable replacement jaws Ideal for cutting bolts, rivets, rods, bars, chains etc.

481982.453110

(NIPE)

Length				Price Each		
	Order Code	1+	5+	10+	20+	50+
455mm (18")	144-7426	7.41	6.92	5.92	5.56	5.05
600mm (24")	144-7428	9.25	7.78	7.39	6.93	6.29

#### **Compact Bolt Cutters Type 71**



- With precision cutting edges for soft, hard and piano wire
- Cuts material like bolts, nails, rivets, etc. up to 5.2 mm dia.
- Exceptional cutting performance with minimum effort because of highly effective lever action design
- Cutting edges additionally induction hardened, cutting edge hardness approx. 64 HRC Forged
- High performance Chrome Vanadium steel, oil-hardened and tempered



71 02 200



71 11 200

**DURATOOL** 

(CK)

Model 71 01: Head atramentized handles plastic coated Model 71 02: Head atramentized

two-colour dual component handles Model 71 11: Spring for gentle and even opening head atramentized

handles plastic coated

Mftrs. Part No.	Order Code	С	Cutting Performance Wires ∅ mm				
		Ø soft	Ø medium	Ø hard	Ø Piano	mm	
71 01 200	875-715	>		4.0	3,6	200	
71 02 200	439-4173	> 6.0	5.2	4.0	3,6	200	
71 12 200	541-6632	> 6.0	5.2	4.0	3,6	200	

ВАНСО

			Price Eac	h
Mf	rs. Part No. Order Code	1+	5+	10+
71	01 200 875-715	27.00	26.20	25.40
71	02 200 <b>439-4173</b>	28.80		
71	12 200 <b>541-6632</b>	31.75	30.80	29.85

#### **Bolt Cutters**



A wide range of bolt cutters with a cutting capacity up to 15mm in concrete reinforced rod or 9mm valve spring steel. Cutters between 18in and 36in have jaws that can be easily adjusted by a simple patented adjusting sys-

tem. Forged from precision high grade steel these cutters have a phosphated corrosion resistant finish with comfortable handles

			Reinforced	Ferrous	Piano Wire	
	Lei	ngth	Rod Capacity	Capacity	Capacity	Weight
Order Code	(in)	(mm)	(mm)	(mm)	(mm)	(g)
135-6137	12	320	6	5	4	900
135-6138	18	430	8	7	6	1990
135-6139	24	600	10	9	8	2860
135-6140	30	750	13	1	9	3670
135-6141	36	900	15	12	11	5980
135-6142	42	1060	15	12	11	8510
						487378

			Price	e Each	
Model	Order Code	1+	5+	10+	20+
4559-12	135-6137	77.15	75.61	74.10	72.08
4559-18	135-6138	109.34	107.16	105.01	102.15
4559-24	135-6139	130.36	127.75	125.20	121.78
4559-30	135-6140	148.49	145.51	142.60	138.71
4559-36	135-6141	185.17	181.46	177.83	172.98
4559-42	135-6142	263.87	258.60	253.43	246.51

#### Carpenters Pincer



- for heaviest duty
- specially favoured by craftsmen due to precision workmanship
- extreme wear resistance and good balance
- special tool steel, oil-hardened and tempered

						344228
					Price Eac	
	Length (mm)	Mftrs. Part No.	Order Code	1+	5+	10+
Carpenters Pincer Carpenters Pincer	180 210	50 00 180 50 00 210	541-6619 541-6620	7.15 7.65	6.95 7.40	6.70 7.20

### **Cutters - Pipe**

### **Cutter For Plastic Pipes**



for clean cutting of plastic pipes (e.g. plastic clad pipes) with 6 - 35 mm dia.

KNIPEX

- not suitable for cutting cables
- blade is replaceable and can be retracted in any position
- low force requirement due to special blade geometry and optimum transmission
- minimum operator fatigue due to ergonomic handle design and ratchet blade feed in stages
- die-cast aluminium body, red lacquered
- blade made of tool steel, oil-hardened and tempered

					241212
	Price Each				
Description	Mftrs. Part No.	Order Code	1+	5+	10+
Cutter	94 00 185	348-3605	41.55	40.30	39.05
Spare Blade	94 09 185	348-3629	16.50	16.00	15.50

#### **Vinyl Pipe Cutter**



These strong pipe cutters have a razor sharp, stainless steel blade which gives effortless straight cuts time and time again. The cutters have a smooth comfortable handle design for

Hardened steel blade will cut pipe and conduit up to 42mm

481983.460958

(CK)

	Price Each				
Order Code	1+	5+	10+	20+	50+
144-7429	3.27	3.12	2.63	2.46	2.23

#### **PVC Conduit Pipe Cutter**



- Suitable for PVC conduit pipes and similar materials
- Used for blue water pipe, rubber hose, pneumatic pipe, electrical sleeving etc
- Razor sharp, stainless steel blade for effortless straight cuts
- Strong, lightweight, glass fibre re-inforced body with comfortable handle design
- A convenient tool providing effortless one handed straight cutting
- Length: 195mm
- Cutting Capacity: 28.0mm∅

Mftrs.		Price	e Each
List No.	Order Code	1+	5+
430001	128-3222	22.55	21.85

#### **Ratchet PVC Pipe Cutter**



- Heavy duty pattern for PVC conduit pipes and similar materials
- Used for blue water pipe, rubber hose,
- pneumatic pipe, electrical sleeving etc Supplied with special adaptor allowing the square cutting of rectangular cross section trunking
- Aluminium body with extra sharp stainless steel blade and ratchet action for effortless straight cuts
- Length: 220mm
- Cutting Capacity: 32.0mm∅

			448358
Mftrs.		Price	Each Each
List No.	Order Code	1+	5+
430003	128-3221	22.40	21.75

### Cutter for flexible hoses and conduit pipes





- For cutting thin walled plastic pipes (e. g. Exchangeable blade armoured plastic pipes) and hoses, also With opening spring and locking lever rubber up to 25 mm dia. / 1" exterior dia.
- Not suitable for cutting cables
- with fabric reinforcement, of plastic and 

  Tool made of tough fibreglass reinforced plastic
  - Blade made of high-strength special grade steel, oil-hardened and tempere

				Price Each	
	Mftrs' List No.	Order Code	1+	3+	5+
Cutter	90 20 185	156-0912	32.24	30.64	29.05
Spare blade	90 29 185	156-0913	16.17	15.35	14.52





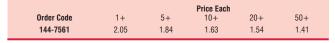




### **Cutters - Pipe - continued**

# **Tube Cutters**





# 200-30C

**Tube Cutters Roller Pipe Cutters** 



For thin walled copper, brass, aluminium and steel conduit. Built in de-burrer and spare

					483374		
		Price Each					
Description	Order Code	1+	5+	10+	20+		
200-30C tube cutter	134-8372	19.95	19.15	18.35	17.76		
Spare cutting wheel	134-8370	4.65	4.45	4.30	4.16		

	Price Each								
de	1+	5+	10+	20+					
12	19.95	19.15	18.35	17.76					
70	4.65	4.45	4.30	4.16					



One cutting wheel and two rollers which ensure the cutter is set and kept square to the pipe. The fast cutting wheel is of special hardened, thin section material for use on all steel pipes.

					483363	
		Price Each				
Description	Order Code	1+	5+	10+	20+	
202 pipe cutter 10-60mm O.D.	134-8367	135.50	129.95	124.85	120.86	
Spare cutting wheel 16.71for 202 Spare cutting wheel 23 28 for 203/	134-8368	19.45	18.65	17.90	17.31	

134-8453

# **Notching Pliers**



21.74

21.31

22.19



20.62



- special pliers for notching out recesses in plastic ledges and casing boxes for electric and sanitary installation
- notches can be enlarged by initial and final cut clean cut edges no additional work needed on the cut profile
- high cutting performance with little handforce due to optimum lever transmission
- easy handling
- with opening spring, restricted opening and locking lever cutter head: special tool steel, oil-hardened and tempered

Description	Mffre Part No	Order Code	Price Each	10.4
90 61 16		mm 250	16 x 32	g 402 <sub>243034</sub>

				Price Each	
Description	Mftrs. Part No.	Order Code	1+	5+	10+
Plier, notchin	g 90 61 16	524-5618	34.65	33.60	32.55

#### Saws

#### 6" Junior Hacksaw



- **DURATOOL**
- Drop forged frame High-quality, extra fine saw blade for thick metal and
- wood Fine saw blade for thick metal and hardwood

Capacity

- Medium saw blade for wood
- Hack saw blade for metal

#### Minisaws

#### 70-14JR Junior Hacksaw Frame



	Price Each								
Order code	1+	5+	10+	20+					
137-3840	2.28	2.23	2.18	2.13					

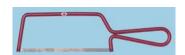
#### Junior Saw Blades

Card of 10.

					400303
			Price	Each	
Description	Order code	1+	4+	20+	40+
Metal	400.007	0.50	0.00	0.04	0.00
cutting Wood	100-607	2.50	2.32	2.21	2.02
cutting	137-3913	1.39	1.37	1.34	1.31
outing		1.00	1.01	1.01	

#### **Junior Hacksaw**





- Red epoxy steel frame 58 mm deep Blade are fixed in frame and do not
- 150 mm in length
- therefore protrude to injure the hand
  - 32 tpi blade fitted plus one spare blade supplied 495546

				Price	Each	
Mftrs. List No.		Order Code	1+	5+	10+	20+
T0834		151-8954	3.10	3.00	2.90	2.80
T0835	Spare Blades pk of 10	151-8955	3.10	3.00	2.90	2.80

#### **Hacksaw Blade Holder**





Length without blade=230

- Strong diecast aluminium hacksaw blade holder
- Suitable for cutting metals and hard plastics in awkward places
- A bi-metal hacksaw blade is supplied

Warning: Under no circumstances should an all hard HSS blade be used in this tool.

					TIVIIVITIC	
Mftrs.			Price	e Each		
List No.	Order Code	1+	4+	20+	40+	
208	282-455	8.90	8.55	8.20	7.85	

#### Mini Hacksaw





 Supplied with top quality metal cutting blade Strong rigid aluminium frame

Adjustable to 6 cutting position   Fast easy blade	Adjustable to 6	cutting	position		Fast easy b	olade
--	-----------------	---------	----------	--	-------------	-------

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
T0836A	166-0786	4 85	4 60	4 35

#### Minisaw 70-675R Minisaw Frame



488159

525116

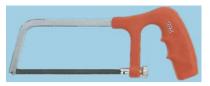


#### Order Code 10+ 29.75 326-2390 31.00 28.50

#### Order Code 1+ 10+ 20+ 137-3755 7.02 6.88 6.75 6.60

#### Mini Hacksaw





Mini-hacksaw frame with solid steel profile. The frame is chrome finished and fitted with a glass fibre handle to give a good comfortable grip.

	10 1007
	Price Each
Order Code	1+
282-431	8.55

#### Hacksaw 70-20TND



Die-cast handle and tubular frame

				488119
		Price	e Each	
Order Code	1+	5+	10+	20+
137-3753	12.47	12.23	11.98	11.74

#### **Dynagrip Hacksaw**





Dynagrip hacksaw, innovative bi-material frame design combines a rigid steel core jacketed by reinforced glass fibre to withstand shock and heavy duty use. Forward frame slot helps position blade angles for standard and flush cutting operation. Forward thumb grip improves precision and power of cut while reducing user grip force and joint stress.

				470107
		Price	e Each	
Order Code	1+	5+	10+	20+
135-3431	14.90	14.45	13.70	13.43

#### **Professional Hacksaw**





- Robust heavy duty hacksaw with aluminium handle
- Box section steel beam
- High leverage tensioning device
- 300mm in length
- 24 tpi HSS bi-metal blade supplied

			Price	Each	
Mftrs. List No.	Order Code	1+	5+	10+	20+
T0905	151-8956	12.52	12.14	11.77	11.39

#### **Hacksaws** 325 Ergo



495553



Ergonomically designed with very high blade tension for straight, accurate and exact kerfs. Centred blade for correct balance. Spring tensioned blade loading mechanism for quick blade changes. Alternative 55° blade mounting for flush cutting. Supplied with a bi-metal blade. 319



Two component handle hacksaw frame. Dual position 55 degree and 90 degree blade angle. Easy blade change mechanism.

		Price	Each	
Order Code	1+	5+	10+	20+
135-6166	19.50	19.12	18.81	18.42

#### **Hacksaw Blades**

# ECLIPSEPIUS 30

### Bi-Metal



Cuts 30% more effectively than a conventional blade. Benefits include a sharper first cut, faster cut and longer blade life

Size (mm)	(in)	Teeth Per(in)	Order Code	Price Each 1+	
250 x 13 x 0.65 250 x 13 x 0.65 300 x 13 x 0.65 300 x 13 x 0.65	10 x ½ x 0.025 10 x ½ x 0.025 10 x ½ x 0.025 12 x ½ x 0.025 12 x ½ x 0.025 12 x ½ x 0.025	24 32 18 24	137-3895 137-3896 137-3897 137-3898 137-3899 137-3901	1.43 1.46 1.46 1.47 1.47 1.48	

#### Hi-Cut

HSS cutting edge, electron beam welded to a tough spring back. More shatter-resistant than other types of blade.

Size (mm)	(in)	Teeth Per(in)	Order Code	Price Each 1+
300 x 25 x 1.25 300 x 25 x 1.25 300 x 25 x 1.25 300 x 25 x 1.25 350 x 32 x 1.6 350 x 32 x 1.6	14 x 1½ x 0.062 14 x 1¼ x 0.062	10	137-3914 137-3915 137-3916 137-3917 137-3918 137-3919	5.10 5.10 5.95 5.95 8.09 8.09
400 x 32 x 1.6 400 x 32 x 1.6 400 x 40 x 2.0 450 x 32 x 1.6 450 x 32 x 1.6 450 x 40 x 2.0 525 x 40 x 2.0 525 x 45 x 2.5	16 x 1¼ x 0.062 16 x 1¼ x 0.062 16 x 1½ x 0.075 18 x 1¼ x 0.062 18 x 1¼ x 0.062 18 x ½ x 0.075 21 x 1½ x 0.075 21 x 1½ x 0.088	10 6 6 10 6	137-3920 137-3921 137-3922 137-3923 137-3925 137-3926 137-3927 137-3928	9.24 9.24 13.07 10.50 10.50 14.72 19.45 21.95

#### Flexible Silicon Steel

Designed primarily for the occasional user. Will cut most types of softer

Size (mm)	(in)	Teeth Per(in)	Order Code	Price Each
250 x 13 x 0.65	` '	` '	137-3902	0.44
250 x 13 x 0.65			137-3902	0.44
300 x 13 x 0.65			137-3904	0.48
300 x 13 x 0.65			137-3905	0.48
300 x 13 x 0.65			137-3906	0.48
300 x 13 x 0.65	12 x ½ x 0.025	32	137-3907	0.45

#### **All Hard**

### Plus 30

Cuts 30% more effectively than a conventional blade. Benefits include a sharper first cut, faster cut and longer blade life.

Size		Teeth		Price Each
(mm)	(in)	Per(in)	Order Code	1+
250 x 13 x 0.65	10 x ½ x 0.025	18	137-3887	1.45
250 x 13 x 0.65	10 x ½ x 0.025	24	137-3888	1.45
300 x 13 x 0.65	12 x ½ x 0.025	14	137-3889	1.46
300 x 13 x 0.65	12 x ½ x 0.025	18	137-3890	1.46
300 x 13 x 0.65	12 x ½ x 0.025	24	137-3892	1.46
300 x 13 x 0.65	12 x ½ x 0.025	32	137-3893	1.46

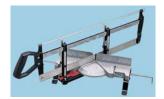




#### Saws - continued

#### Mitre Saws







A range of precision mitre saws for the accurate cutting of various angles or mitres on picture frames or architraves, etc. Comprising saw with general duty blade, saw table, length stop, and automatic locking facility.

	Champion	Proman	Saw blade length	630mm	565mm
Maximum cutting depth	180mm	110mm	Compound facility	Yes	Yes
Maximum cutting width 90	200mm	170mm	Material clamp	2	1
Maximum cutting width 45	125mm	100mm	Length stop	Yes	Yes
Base length	500mm	350mm	Stepless locking	Yes	No

		Price Each
Model	Order Code	1+
Champion	014-700	126.80
Proman	014-701	60.82

#### Replacement Blades

Suitable for models Royal 125 and Proman

		Price Each
Description	Order Code	1+
Carpentry fast cut 12tpi	014-704	11.95
Carpentry general duty 18tpi	014-705	10.69
Picture framing 24tpi	014-706	11.16
Non-ferrous metals 32tpi	014-707	10.69

#### Replacement Blades

Blades suitable for Champion model only.

Description	Order Code	Price Each 1+
Extra fast cut 10tpi	014-708	12.95
General duty 18tpi	014-709	12.95
Picture framing 24tpi	014-710	12.06
Non-ferrous metals 32tpi	014-711	12.95
Ferrous bi-metal	014-712	21.40

#### Replacement Blades

Blade suitable for the following manufacturers mitre saws: Blackforge, Clark, Draper, Jorgensen, Nutool, Richmond, Tyzack, Wickes and Axminster 602. 550 x 45 x 0.7mm x 18tpi.

				43300
			Price Each	
-	Description	Order Code	1+	
(	General duty 18tpi	014-715	11.16	

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# **Coming soon**



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.

#### **Coping Saw and Blades**



Correct tension is applied to the blade by turning the handle. The blade can be turned to cut at any angle. Depth of bow 120mm 43/4in.

488163

			Price Eac	h		
Model	Order Code	1+	5+	10+	20+	
70-CP1R 71-CP7R spare blades	137-3756	8.11	7.95	7.79	7.64	
(pack of 10)	137-3757	2.80	2.75	2.68	2.63	

#### Piercing Saw Frame & Blades Piercing Saw Frame



For sawing gold, silver, steel, copper, brass, aluminium, nickel, etc. Length 125mm 5in.

							488164
	Bow depth	Bow depth			Price	Each	
Model	(mm)	(in)	Order Code	1+	5+	10+	20+
PS51	85	3¾	137-3793	9.43	9.24	9.05	8.87

#### **Piercing Saw Blades**

	Teeth			Price	Each	
Model	per (in)		1+	5+	10+	20+
PS80	80	137-3758	0.27	0.26	0.25	0.24
PS60	60	137-3759	0.28	0.27	0.26	0.25
PS52	52	137-3761	0.28	0.27	0.26	0.25
PS44	44	137-3762	0.28	0.27	0.26	0.25
PS32	32	137-3763	0.28	0.27	0.26	0.25

#### **Fretsaw Frame and Blades**

#### Fretsaw Frame



For fine cutting work in thin materials such as wood, bone, plastics, etc.

	Bow Depth	Bow Depth			Price	e Each	
Model	(mm)	(in)	Order Code	1+	5+	10+	20+
70-FS1R	290	111/2	137-3764	9.79	9.59	9.40	9.22

#### Fretsaw Blades

						488169	
	Teeth			Price E	ach		
Model	per (in)	Order Code	1+	5+	10+	20+	
FS32	32	137-3765	0.24	0.23	0.22	0.21	
FS22	22	137-3767	0.24	0.23	0.22	0.21	
FS18	18	137-3768	0.24	0.23	0.22	0.21	
FS16	16	137-3769	0.26	0.25	0.24	0.23	

#### Sabretooth Saws





- Rigid 1 mm blade for non flex and perfect straight cuts
- Triple edge precision ground hard point
- Easy start tooth configuration for clean and accurate cut starts
- Fast cut on push and pull for fewer strokes, saving time and effort
- Ergonomic handle design featuring a soft grip insert for comfort
- 45/90° marking bevels for convenience

						494989.470081
				Price	e Each	
Mftrs. List No.	TPI	Order Code	1+	5+	10+	20+
481001	7	151-8899	10.82	10.50	10.17	9.84
481002	11	151-8900	10.82	10.50	10.17	9.84

#### **Fatmax Jabsaw**

#### **Fat**Max



Sharpened tip and thicker blade to punch through and easily cut through drywall material. Ergonomic design of handle for comfortable easy use.

477958

	Price Each				
Order Code	1+	5+	10+	20+	
135-3423	7.45	7.25	6.85	6.71	

#### **Compass Saw**



Supplied with two blades, one for wood, the other for metal. Die-cast two position handle to facilitate access

Length			Price Each
(mm)	(in)	Order Code	1+
276	11	137-3786	7.46

#### Blades

Set of two blades one suitable for cutting wood and one for cutting metal. Length 203mm/8in.

	Price Each
Order Code	1+
137-3798	2.61

#### Reciprocating blade set with universal handle in plastic case





Reciprocating blade set with universal handle 6 pcs.



- Fasy tool change through pull mechanism
- Sawing, cutting and screwing with one tool - Turning momentanum up to 28Nm

RUKO 8908 Reciprocating blade HSS bimetal (Bosch Nr. S 922 EF) for thin sheeting 150.0 x 18.0 x 0.9 mm Tooth spacing 1.4 mm/

18 tpi RUKO 8915 Reciprocating blade HSS bimetal (Bosch Nr. S 922 BF) for thick sheeting, stain-

less steel sheet metal, pipes and profiles

 $150.0\,x\,18.0\,x\,0.9$  mm Tooth spacing 1.8 mm / 14 tpi

RUKO 8909 Reciprocating blade HSS bimetal (Bosch Nr. S 1022 HF) for wood, metal sheeting and aluminium profiles

200.0 x 18.0 x 0.9 mm Tooth spacing 2.5 mm / 10 tpi

RUKO 8924 Reciprocating blade HCS (Bosch Nr. S 644 D) for plywood, chipboard and

 $150.0\times18.0\times1.25$  mm Tooth spacing 4.2 mm / 6 tpi RUK0~8905 Reciprocating blade HCS (Bosch Nr. S 617 K) for every kind of wood, pruning  $150.0\times18.0\times1.25$  mm Tooth spacing 8.5 mm / 3 tpi

515136

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
331100	160-7524	47.07	44.70	42.33

#### Files & Brushes

#### 10 Piece Needle File Set



#### **DURATOOL**

standard 10 piece steel needle file set supplied in a neat, plastic wallet. Set contains:

- 1 x half round 1 x square
- 1 x knife 1 x triangular
- 1 x oval 1 x crossing 1 x barrette
- 1 x flat parallel

1 x round

1 x flat tapered

			Price/Set		
Order Code	1+	5+	10+	20+	50+
144-7432	1.62	1.44	1.34	1.24	1.13

#### 6 Piece Needle File Set

#### **D** URATOOL

- 6 piece needle file kit with cushion grip
- Size: 3 140mm
- Contents: flat taper, half round, three square, square, round and flat parallel - supplied in a plastic carry case

482064.452396

			Price/Set		
Order Code	1+	5+	10+	20+	50+
144-7431	2.34	2.18	1.87	1.75	1.59

#### Needle, CV Steel



Overall length=140, blade length=70, shaft dia.=3.0

- Set of six precision needle files in plastic wallet Comprising 1 of each of the following: Equalling, Half round, Flat, Round, Square and Three square

**STRAUSS** 

210012
Price Per Set
1+
16.10

#### **Diamond Needle File Sets**



- Sets of 5 diamond needle files
- Medium grit size D126
- Round, half round, square, triangular, flat/hand

Available in two popular sizes

		- p		
Overall	Diamond	Grit		
Length	Coating Length	Grade	Mftrs. List No.	Order Code
140	70	D126	NF4205-D126	701-8230
140	40	D126	M18632-D126	701-8241

	Price Each	
Order Code	1+	
701-8230	101.75	
701-8241	70.55	







#### Files & Brushes - continued

#### Miniature





Blade length=106, Overall length=172

- Set of four small, 2nd cut files ideal for use on plastics, soft metals and mild steel
- Supplied complete with comfortable wooden handles
- Comprises one each of the following, round, triangular, flat and tapered end
- The flat files have a safe edge, supplied in a plastic wallet

Roct
value
70000

Mftrs.		Price Each
List No.	Order Code	1+
119	202-149	9.68

#### **Needle File Sets**

#### **Diamond Coated**



- High quality sets of six industrial standard needle files
- The sets consist of: hand, round, half round, square, three square and taperflat types. Supplied in plastic wallet
- Fully coated with fine grade diamond grit for improved durability

		ž.	22329
	Order Code	Price Each	
Diamond coated	609-626	51.43	

#### **Needle File Sets**



- 6 piece file set: Contains one each of hand, flat, three square, square, half round and
- Three sets available: bastard, smooth and dead smooth
- 12 piece file set: Contains one each of hand, flat, three square, square, half round crossing, round, knife, barrette, slitting, round-edged joint and marking All sets come in a snap-shut plastic wallet

	Grade	Mftrs. List No.	Order Code
6 piece:	Bastard Smooth	2-470-14-0-0 2-470-14-2-0	702-4873 702-4885
	Dead Smooth	2-470-14-4-0	702-4897
12 piece:	Bastard Smooth	2-472-16-0-0 2-472-16-2-0	702-4903 702-4915

225319

Order Code	Price Each 1+
702-4873	22.10
702-4885	22.10
702-4897	23.25
702-4903	54.95
702-4915	54.95

#### 12 Piece Needle File Set



A 12 piece needle file set manufactured from high quality, chrome vanadium steel supplied complete in plastic wallets. The files are all about 16mm in length and have textured handles for added grip. the set contains:

- 2 x Flat square ended
- 2 x Half circle
- 1 x Oval
- 1 x Flat tapered
- 1 x Square 2 x Triangular
- 1 x Round
- 2 x Flat pointed

	2 x riai poiiti	2356	11
12 Piece File Set	Order Code 394-9308	<b>Price Each</b> 1+ 24.95	

#### **Needle File Handle**



L=110, Dia.=22, File not supplied

- Suitable for holding any circular shaft from 2.3 to 3.1mm diameter
- Accomodates shafts up to 100mm in length

223375

	Price Each
Order Code	1+
202-150	6.09

#### Needle File Handle



Universal collet accepts most regular needle files. Manufactured from best quality hardwood with brass fitting.

	495288
Order Code 142-1537	<b>Price Each</b> 1+ 2.46

#### **Engineers Files**



A professional assortment of engineers files complete with Ergo handle. Each file is individually packed in a clearly marked re useable protective sleeve. The Ergo handle fits naturally into the hand and is made with a non-slip surface.

BAHCO

Parallel in width, cut on both sides and on one edge

#### Second



	S	ize		Price	Each		
Model	(mm)	(Inches)	Order Code	1+	3+	12+	24+
1-100-06-2-3	150	6	702-3110	5.05	4.85	4.65	4.45
1-100-08-2-3	200	8	702-3121	5.85	5.60	5.40	5.15

#### Smooth



	S	ize	Price Each				
Model	(mm)	(Inches)	Order Code	1+	5+	10+	20+
1-100-06-3-3	150	6	135-6145	5.40	5.29	5.19	5.04
1-100-08-3-3	200	8	135-6146	6.23	6.11	5.99	5.82
1-100-10-3-3	250	10	135-6147	7.44	7.28	7.14	6.95
1-100-12-3-3	300	12	135-6149	9.16	8.98	8.80	8.56

#### Flat

Tapered in width, cut on both sides and on one edge.





#### **Bastard**



	S	ize		Price Each			
Model	(mm)	(Inches)	Order Code	1+	5+	10+	20+
1-110-06-1-3	150	6	135-6151	5.07	4.97	4.87	4.73
1-110-08-1-3	200	8	135-6152	5.94	5.82	5.71	5.55
1-110-10-1-3	250	10	135-6153	7.09	6.95	6.81	6.63
1-110-12-1-3	300	12	135-6154	8.92	8.74	8.56	8.33

#### **Half Round**

For filing both flat and concave surfaces, parallel in width and thickness.

#### Second



	S	ize		Price	Each		
Model	(mm)	(Inches)	Order Code	1+	5+	10+	20+
1-210-06-2-3	150	6	135-6155	6.60	6.21	5.95	5.76
1-210-08-2-3	200	8	135-6156	7.70	7.25	6.94	6.71
1-210-10-2-3	250	10	135-6157	9.10	8.57	8.21	7.93
1-210-12-2-3	300	12	135-6158	12.40	11.66	11.17	10.81

For circular openings and conductive surfces, tapers slightly to a point.

#### Second



	S	iize			Price	Each	
Model	(mm)	(Inches)	Order Code	1+	5+	10+	20+
1-230-06-2-3	150	6	135-6159	5.40	5.28	5.06	4.91
1-230-08-2-3	200	8	135-6160	6.07	5.85	5.60	5.42
1-230-10-2-3	250	10	135-6162	7.14	6.79	6.49	6.29
1-230-12-2-3	300	12	135-6163	8.70	8.19	7.86	7.59

#### 5 Piece Engineers File Set



487518



- Manufactured from high carbon alloy steel Soft grip handles with hanging holes

- File blades measure 200mm (8") in length Contents: Flat, half-round, round, square and triangular files

					482065.462138
Order Code 144-7434	1+ 6.96	5+ 6.38	Price/Set 10+ 5.56	20+ 5.21	50+ 4.73

#### **Engineers File Sets**



- Sets of four high quality engineers files. Set comprises of one each of the following: hand, flat, round, and half-round
- Fitted with wooden handles, supplied in a plastic wallet



		223290
	Order Code	Price Each 1+
152mm set 203mm set 254mm set	609-596 609-602 609-614	14.70 15.66 22.24

#### **File Sets**



	Siz	е	
Model	(mm)	(in)	Contents
1-473-06-2-2 3pc	150	6	hand second, half round second, round second.
1-473-08-2-2 3pc	200	8	hand second, half round second, round second.
1-473-10-2-2 3pc	250	10	hand second, half round second, round second.
1-477-08-2-2 5pc	200	8	hand second, half round second, round second, 3 square.
1-477-10-2-2 5pc	250	10	hand second, half round second, round second, 3 square second, half round rasp.
1-478-08-1-2 5pc	200	8	hand bastard, hand second, square bastard, half round bastard, round bastard.
1-479-08-1-2 5pc	200	8	hand bastard, half round bastard, round bastard, flat bas- tard, cabinet rasp.
1-479-08-2-2 5pc	200	8	hand second, half round second, round second, flat sec- ond, cabinet rasp.
			4878

		Per Set			
Model	Order Code	1+	5+	10+	25+
1-473-06-2-2 3pc	723-8654	15.85	15.20	14.60	13.95
1-473-08-2-2 3pc	723-8666	18.25	17.50	16.80	16.05
1-473-10-2-2 3pc	135-6164	20.60	20.19	19.79	19.25
1-477-08-2-2 5pc	135-6217	30.50	29.89	29.29	28.49
1-477-10-2-2 5pc	702-4538	35.55	34.15	32.70	31.30
1-478-08-1-2 5pc	135-6218	23.88	23.41	22.94	22.31
1-479-08-1-2 5pc	135-6165	35.11	34.41	33.72	32.80
1-479-08-2-2 5pc	135-6219	35.68	34.96	34.27	33.33

#### **Wood Rasp Set**



- Consists of a flat, round and half round file
- All with rubberised handles for comfortable grip

  Blade length 200mm (8")

482066.462137

	Price/Set								
Order Code	1+	5+	10+	20+	50+				
144-7433	5.25	4.69	4.21	3.95	3.57				

#### STANLEY



For cutting, shaping, shaving, rasping and filing most materials without any adjustment or need to re-sharpen.

						4/02/0		
		Price Each						
Model	Type	Order Code	1+	5+	10+	20+		
21-295	Flat file	135-3721	9.45	9.15	8.70	8.51		
21-122	Planer file	135-3723	12.40	12.05	11.40	11.18		
21-115	Shaver tool	135-3722	2.15	2.10	2.00	1.96		







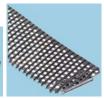
# Files & Brushes - continued

#### Spare blades

STANLEY







4/828

			Price Each				
Model	Description	Order Code	1+	5+	10+	20+	
	Flat standard cut Half round standard cut	135-3697 135-3698	2.30 2.70	2.25 2.60	2.10 2.50	2.06 2.45	
21-515	To suit shaver tool only	135-3724	1.15	1.10	1.05	1.02	

#### 6 Piece Mini Brush Set

#### **D**URATOOL



6 piece 175mm (7") wire set mini brush with plastic handles. The kit includes:

- Brass brush for cleaning
   Steel brush for removal of rust
- Nylon brush for detailing dash and upholstery

					482087.453132			
	Price/Set							
Order Code	1+	5+	10+	20+	50+			
144-7548	2.31	2.05	1.86	1.73	1.57			

#### Wire Brush

### **DURATOOL**



- Heavy duty construction with a comfortable grip
- Ideal for cleaning metal before
- welding Brassed steel wire Length: 265mm

					482086.453011		
	Price Each						
Order Code	1+	5+	10+	20+	50+		
144-7547	0.77	0.65	0.61	0.55	0.51		

#### **Abrasives**

# **Sheets And Rolls**





A very open coat, F-weight paper roll. Designed to minimise loading when used to sand soft, resinous

		493807
Grit	Order Code	Price Each 1+
P60	149-5843	45.63
P80	149-5844	44.06
P100	149-5845	38.46
P120	149-5846	36.66
P150	149-5848	36.66
P180	149-5849	36.66

#### 301D Cloth Sheets & Rolls

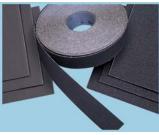


A resin-bonded, flexible cloth product. Designed for maintenance and general workshop applications.

493122

Grade	Sheet / Roll Size	Price Each			
D.40	Order Co	de 1+	5+	10+	25+
P40	Sheet - 230 x 280mm 149-582	28 1.19	1.16	1.12	1.09
P60	Sheet - 230 x 280mm <b>149-582</b>	<b>29</b> 1.03	1.00	0.96	0.93
P80	Sheet - 230 x 280mm <b>149-583</b>	<b>30</b> 0.90	0.87	0.85	0.83
P240	Sheet - 230 x 280mm <b>149-583</b>	<b>34</b> 0.83	0.81	0.77	0.75
P40	Roll - 25mm x 25m <b>149-578</b>	<b>30</b> 12.31	11.95	11.58	11.24
P60	Roll - 25mm x 25m <b>149-578</b>	3 <b>2</b> 11.19	10.85	10.53	10.20
P80	Roll - 25mm x 25m 149-578		11.05	10.72	10.39
P150	Roll - 25mm x 25m <b>149-578</b>		9.97	9.67	9.39
P180	Roll - 25mm x 25m 149-578		9.97	9.67	9.39
P320	Roll - 25mm x				
P60	25m 149-578 Roll - 38mm x		9.97	9.67	9.39
P80	25m <b>149-579</b> Roll - 38mm x		16.46	15.97	15.49
P120	25m <b>149-57</b> 9 Roll - 38mm x	<b>91</b> 15.99	15.51	15.04	14.59
P150	25m <b>149-57</b> 9 Roll - 38mm x	<b>92</b> 14.83	14.39	13.96	13.53
P180	25m <b>149-579</b> Roll - 38mm x	<b>14.08</b>	13.66	13.26	12.86
P240	25m 149-579 Roll - 38mm x	<b>95</b> 14.08	13.66	13.26	12.86
P320	25m 149-579 Roll - 38mm x	<b>96</b> 14.08	13.66	13.26	12.86
	25m <b>149-57</b> 9	<b>14.08</b>	13.66	13.26	12.86
P60	Roll - 50mm x 25m 149-579	<b>99</b> 21.26	20.62	20.00	19.40
P80	Roll - 50mm x 25m 149-580	<b>20.19</b>	19.57	18.98	18.41
P120	Roll - 50mm x 25m <b>149-58</b> 0	<b>19</b> .22	18.65	18.09	17.55
P150	Roll - 50mm x 25m <b>149-58</b> 0	<b>19.22</b>	18.65	18.09	17.55
P180	Roll - 50mm x 25m <b>149-58</b> 0	<b>19</b> .22	18.65	18.09	17.55
P240	Roll - 50mm x 25m <b>149-580</b>		18.65	18.09	17.55

#### **Emery Cloth**

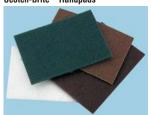


Best blue emery cloth for general hand, tool-room and workshop applications, particularly de-burring and removing scratch marks.

		49300
Grade Sheet / Roll Size 3 - extra course Sheet - 230 x 280mm 2 ½ Sheet - 230 x 280mm 2 - coarse Sheet - 230 x 280mm 5	Order Code 062-321 062-322 155-2087 062-324 155-2088 062-327 155-2495 062-401 062-402 062-403 062-404 062-412 062-413 062-414 062-421 062-422 062-423	Price Each  0.54  0.54  0.56  0.54  0.56  0.53  0.56  28.40  23.10  12.66  21.85  31.58  30.15  26.44  40.29  33.93  38.51

# **Abrasives**

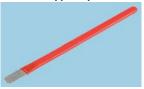




A wide range of hand pads for cleaning and finishing applications.

						491223	
			Price Each				
Colour	Density/Grade	Order Code	1+	5+	10+	25+	
Brown	A/Medium	149-5870	2.08	2.01	1.96	1.90	
White	Type T	149-5865	1.45	1.41	1.37	1.33	
D. Grey	S/Coarse	149-5869	1.56	1.52	1.46	1.42	
L. Green	A/Fine	149-5868	0.87	0.85	0.82	0.80	
D. Green	A/Coarse	149-5871	1.45	1.41	1.37	1.33	
Maroon	A/Very fine	149-5867	0.96	0.92	0.90	0.87	
Grev	S/Ultra fine	149-5866	0.96	0.92	0.90	0.87	

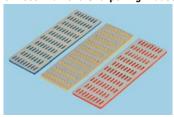
#### **Diamond Tipped Spatulas**



- Long life hard wearing diamond spatulas suitable for general cleaning of electrical contacts
- Diamond coated tips on both sides at one
- Flexible polythene handle
- Overall length 165mm

Price Each							
Mftrs. List No.	Colour	Grade	Order Code	1+	5+	10+	20+
188-0001	Red	Medium	151-8526	7.54	7.38	7.24	7.16
188-0002	Blue	Coarse	151-8527	7.54	7.38	7.24	7.16
188-0003	Yellow	Fine	151-8528	7.54	7.38	7.24	7.16

#### 3 Piece Diamond Sharpening Blades



**DURATOOL** 

494139

- Water needed only when using with blades
- Quick, easy and
- effortless sharpening Supplied with 3 faces, 1 x fine, 1 x medium and 1 x coarse
- Size 50mm (2") x 150mm (6")

				4	82062.460960		
	Price/Set						
Order Code	1+	5+	10+	20+	50+		
144-7430	6.14	5.87	4.90	4.60	4.17		

#### **Diamond Sharpeners**



- Two sizes of stainless steel diamond sharpeners
- Use to rework hardened metal components
- Supplied in PVC wallet

								493968
						Price	Each	
-	Mftrs. List No.	Grit Size	Dim (LxW)	Order Code	1+	5+	10+	20+
	176-0027	400	150 x 19mm	151-8496	9.03	8.85	8.66	8.57
	176-0031	1200	82.5 x 51mm	151-8497	15.09	14.79	14.49	14.34
	176-0032	1200	82.5 x 51mm	151-8498	15.09	14.79	14.49	14.34
	176-0033	400	82.5 x 51mm	151-8499	20.13	19.73	19.32	19.13
ľ	176-0034	600	82.5 x 51mm	151-8500	22.32	21.87	21.43	21.20

#### **Diamond Folding Sharpeners**



- Folding type stainless steel diamond
- sharpeners
  Use to rework hardened metal components
- 235 x 28mm in length when opened and 125 x 28mm when closed

				Price Each			
	Mftrs. List No.	Grit Size	Order Code	1+	5+	10+	20+
	176-0037	400	151-8503	29.05	28.47	27.89	27.60
	176-0038	600	151-8504	22.32	21.87	21.43	21.20
	176-0039	1200	151-8505	22.32	21.87	21.43	21.20

#### **Finished Sticks**



Hand stoning with finished sticks is an essential operation in the manufacture of precision machine parts and in tool and die making. Finished sticks are available in three shapes for easy deburring, chamfering, radiusing and fitting delicate parts.

Part no.	Size (mm)	Size (in)	Grade
75462	150 x 13	6 x ½	Medium
75703	150 x 25	6 x 1	Coarse
75702	150 x 25	6 x 1	Medium
75701	150 x 25	6 x 1	Fine

		Price Each	
Part Number	Order Code	1+	
75462	146-2097	11.25	
75703	146-2098	10.20	
75702	146-2099	13.55	
75701	146-2100	13.55	

#### Flexible Polisher

**Tools** 



The polisher is impregnated throughout with sharp abrasive grain. It is recommended for cleaning and polishing on iron, steel, aluminium, plastics, ceramics, paintwork etc. For a finer result the polisher can be used with water, washing-up liquid, white spirit and paraffin. Used in industry by sheetmetal workers, stainless steel fabricators, metal finishers, moulders and metalware manufacturers. Each polishing block measures 80 x 50 x 20mm. \*3 x 06-7995, 6 x 06-7996, 6 x 06-7997 and 3 x 06-7998

		Price Each
Grade	Order Code	1+
Extra-coarse (Wine)	067-998	2.90
Mixed box of 18*	067-999	51.80
IVIIXED DOX OT 18^	067-999	51.80

#### Deburring















493999







### **Deburring - continued**

#### **Tools - continued**



			49379
Kit/Set	Description	Order Code	Price Each 1+
Edge off EO 1000	Edge off consists of S10 non-removable blade mounted on a hexagon handle 125mm long	137-4051	3.78
Rapid burr RB 1000	Rapid burr supplied with S10 blade. Will accept all S type blades	137-4063	6.11
Noga burr 3	Noga burr 3 comes complete with S10, S20, S35 blades and is capable of holding all S type blades. For		
Noga burr 5	coarse and fine deburring Noga burr 5 is simular to Noga burr 3 but is supplied	137-4071	9.59
, and the second	with 5 blades S10/S20/S35/S101/S202 Double burr is a dual purpose tool for sheet metal. Ad-	137-4073	13.94
	justable up to 10mm thickness. Standard tool supplied with 2 N80 blades and hand guard for safety	137-4074	19.05
Keyway burr KW 1000	Keyway burr for internal and external keyways, Tool lengh 236mm. Supplied with N80K blade	137-4075	13.83
Tele burr LB 1000	Telescopic blade holder. Double ended taking heavy and light blades. Supplied with N1 and N2 blades	137-4076	11.71
Leader LD 1000 Scraper SC 1000	Used to put chamfer on straight and curved components. Supplied with L1 blade Supplied with T120 blade ground on both ends. Blade	137-4077	17.90
Medium scraper SC	slides into handle and locks in any position As above but supplied with T80 blade	137-4078	16.89
8000	AS above but supplied with 100 blade	137-4089	15.48
Internal scraper IS	For deburring cross holes supplied with universal han-		
1000	dle, D holder and D66 blade	137-4079	15.07
	Hexagon blade holder. Can be locked in any position. Complete with C20 90° countersink	137-4090	23.56
Roto-drive RD 1040	Roto-drive allows continuous rotation of tool. Supplied with fixed 8.3mm countersink	137-4091	17.85
	·		

Holders



493790

<u>NNOGA</u>

Holders	Handle	Order Code	Price Each 1+
NB	Handle to suit all S blades with roto-drive Countersink bits	137-4092	5.63
UNI Adjustable han-	Handle holds SN, C and D holders plus T120 scraper Holds T80 blade	137-4061	4.89
dle	Tioldo Too biddo	137-4093	8.79
SN holder C holder	Double headed holder for use with UNI handle. Takes S and N type blades Holds C12, C20 and C30 countersinks. For	137-4094	5.63
D holder	use with UNI handle Holds D50 and D66 blades. For use with UNI	137-4062	4.40
D HOIGE	handle	137-4050	5.44

#### **Blades**





493803

Light Duty	Description	Order Code	Price Each 1+
Blades			
N1	Light duty HSS blade used for steel and alumini-		
	um	137-4064	0.87
N2	Light duty HSS blade used for brass and cast		
	iron. For left and right hand use	137-4052	0.87
N3	Light duty HSS blade removes external and inter- nal burrs simultaneously from holes drilled in tub-		
	ing and sheet materials	137-4095	1.37
Heavy Duty	Description	Order Code	Price Each
Blades	Description	Oraci odac	I IIOO Laoii
S10	Heavy duty HSS blade used for steel and alumini-		
0.0	um	137-4065	1.19
S10 L/H	Heavy duty Left Hand HSS blade used for steel		
	and aluminium	137-4066	1.48
S10 Coated	Heavy duty HSS tin coated blade used for plastic		
	parts	137-4053	2.17
S10S	Heavy duty HSS blade specially hardened for		
	stainless steel	137-4097	1.47
S20	Heavy duty HSS blade used for brass and cast		
	iron. For both left and right handed use	137-4067	1.19
S30	Heavy duty HSS blade removes external and in-		
	ternal burrs simultaneously from holes drilled in	407 4000	4.07
S35	tubing and sheet materials	137-4068	1.37
535	Heavy duty HSS blade especially handy for straight edges. For both left and right handed use	137-4054	1.46
	straight edges. For both left and right handed use	107-4004	1.40

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QGO

Over 480,000 products online

# <u>NNOGA</u>

# **Blades**





			4937		
Blades S60	Description Heavy duty HSS blade for heavy duty internal de-	Order Code	Price Each 1+		
	burring in difficult to reach places	137-4069	3.23		
S101	Extra fine point HSS blade used for steel and aluminium	137-4080	1.33		
S202	Extra fine point HSS blade used for brass and cast iron. For both left and right handed use	137-4081	1.40		
S150	HSS blade for 0.75mm radius or larger, holes 1.5mm diameter or larger	137-4098	1.52		
BC3200	0 3.2mm countersink blade. For use with the NB handle and/or SN holder	137-4099	5.67		
C12	90 , 12mm countersink for use with the C holder	137-4055	12.66		
C20	90 , 20mm countersink for use with the C holder	137-4056	16.94		
C30	90 , 30mm countersink for use with the C holder	137-4057	24.83		
BC6300	BC6300 Single flute, 6.3mm countersink. For use with NB handle and/or SN holder 137-4100 11.28				
BC8300	O Single flute, 8.3mm countersink. For use with NB handle and/or SN holder	137-4101	11.54		
BC1040	O Single flute, 10.4mm countersink. For use with NB handle and/or SN holder	137-4103	12.66		
T120	7mm triangular section x 120mm long Scraper Blade, ground both ends for prolonged life. For use with the Uni Handle only	137-4049	12.93		
D66	HSS 3.2mm Internal Scraper Blade. Most useful on cross holes	137-4049	4.69		
N80	Used in the Double Burr, cutting along the cir-	137-4109	4.05		
1100	cumference of each face	137-4070	3.89		
N80 M42	Used in the Double Burr, cutting along the circumference of each face. The N80 M42 blade is				
	used for stainless steel	137-4105	5.00		

Blades	Description	Order Code	Price Each 1+
N80K M42	Similar to the N80 but ground as shown, to facilitate use in narrow keyways. The N80K M42 Blade is used on stainless steel (2.5mm - 11mm)	137-4106	5.00
N70K	Square Blade for shallow keyways 1.2mm - 8mm)	137-4107	5.42
N90K	Heavy duty blade for wide keyways (3mm - 15mm)	137-4108	6.09

# **Tool Kits And Sets**







<u>NNOGA</u>

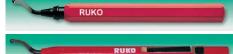
Noga hand deburring tools and kits cover a wide range of application and material uses.

49		

Kit/Set	Description	Order Code	Price Each
	****		1 +
Unikit standard UK			
1000	C holder and N1/N2/S10/S20/S30/S101 blades	137-4082	58.90
Unikit special UK	Deburring kit consists of universal handle, D, SN		
2000	and C holder and C12/N1/N2/S10/S20/S30/S101		
	blades	137-4083	74.23
Unikit extra UK	Deburring kit consists of universal handle, D, L		
3000	and C holder and L2/C12/N1/N2/S10 S20/S30/		
	S101 blades	137-4085	99.09
Tele burr set LB	Telescopic deburring set consists of universal		
5000	handle, SN holder and N1/N2/N3/S10/S20/S30		
	blades	137-4086	20.40
Scraper set SC	Scraper set consists of universal handle, D holder	•	
5000	and T120/D50/D60 scraper blades	137-4087	38.59
Countersink set	Counter sink set includes universal handle. C		
CS500	holder and C12/C20/C30 countersinks	137-4088	58.99

# Rapid Deburrer with HSS Blade





470-0776 374-507

Hexagonal aluminium handle

Small and handy

Pocket-sized for permanent readiness

240994	

		Price Each			
Type	Order Code	1+	5+	10+	
107052	374-507	6,49	5,91	5,41	
107054	470-0776	4.30	4.07	3.85	

# Sheet-metal deburrer with tungsten-carbide cutting edges **EUKO**





 Plastic handle with hand protector and 1 tungsten-carbide bla-This sheet-metal deburrer processes two



- edges in one operation Suitable for double-sided deburring of steel, aluminium, brass, copper and plastic sheets
- Sheet-metal deburrer for materials up to 5 mm

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
107064	160-7521	20.19	19.16	18.13

# **Coming soon**



Register your interest for items that are 'Coming Soon' at www.farnell.co.uk and we'll email you to let you know that they're in stock.







# **Deburring - continued**

# "Unigrat Starter-Kit" with handle incl. Blades in plastic case







Set consisting of

1 x universal handle, 1 x steel holder E 3 x blade E 100 HSS-TiN, 2 x blade E 200

1 x blade E 300 HSS-TiN, 1 x blade E 350 HSS-TiN

				010100
Mftrs. Part No.	Order Code	1+	Price Each	10+
107100	160-7523	33.63	31.93	30.23

# **Edge Trimmers**



515135



Plastic handle with exchangeable blades and spare blade storage in back of handle. Provide a solution for trimming internal and external edges and tubes.

			Price Each				
Model	Description	Order Code	1+	5+	10+	20+	
107250 107051	With E100 blade With E100, E200	136-8566	11.85	11.24	10.68	10.30	
107031	and E300 blades	136-8567	12.71	12.05	11.44	11.05	

# **Deburring Tools**



Ruko Deburring Programme

A complete system for all deburring work done by hand. The wide range of holders and blades allow deburring of edges and bores from inside, outside or on both sides. Unigrat System

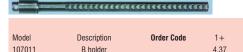
The universal handle accepts holders B and E. With the locking head withdrawn holders may be locked into position and adjusted to 100mm in length. Blades can only be used with a holder of the same series (B10 blade with B holder etc.) The replacement blades can be stored in the back of the handle.

# Universal Handle A



				Price Each	
Model	Description	Order Code	1+	5+	10+
107-010	Universal Handle A	374-386	4.37	4.10	3.68

# **B** Holder



# B10 Blade



General purpose blade for steel, aluminium and plastics.

Price Each

4.10

10+

3.68

				Pric	e Each	
Model	Description	Order Code	1+	5+	10+	20+
107012	B10 blade	136-8570	1.37	1.32	1.22	1.20

# B20 Blade



General purpose blade for brass and cast iron.

			Price Each			
Model	Description	Order Code	1+	5+	10+	20+
107014	B20 blade	136-8571	1.37	1.32	1.22	1.20

### **B30 Blade**



Blade for simultaneous removal of internal and external burrs in material up to 4mm thick.

			Price Each			
Model	Description	Order Code	1+	5+	10+	20+
107015	B30 blade	136-8572	1.62	1.52	1.47	1.40

### E Holder

- ADDITION OF THE PERSON NAMED IN COLUMN TO								
				Pric	e Each			
Model	Description	Order Code	1+	5+	10+	20+		
107025	E holder	136-8572	1.62	1.52	1.47	1.40		

### E100 Blade



Heavy duty blade for steel, aluminium and plastics.

485335

				Price Each	
Model	Description	Order Code	1+	5+	10+
107-026	B30 blade	374-416	1.05	0.99	0.85

# Hand deburrer DIN 335 Form 90° HSS





CBN ground mit fix plastic handle

				238590	
		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
102143 -	374-532	13.50	12.41	10.92	
102146 -	374-568	22.39	20.56	18.28	

# **Cutting Tools**





Specially designed to deburr chamfer or enlarge holes in metal, plastic or wood. Fitted plastic handle for positive grip.

487692

Model	Description	Diameter (mm)	Order Code	1+	Price 4+	<b>Each</b> 20+	40+
HB1 HB2 HB3 HB4 HB5	Chamfer bit Chamfer bit Pipe reamer Taper reamer Taper reamer	12.4 25 10 - 34 3 - 12 10 - 25	147-936 827-848 105-205 147-889 147-890	12.04 26.43 20.71 18.91 31.55	 19.94 18.06 30.25	 18.82 17.03 28.59	 16.20 15.57 25.56

# **Hand Drill**





Model 803 has an iron machine cut gear wheel which is die cast aluminium on other models.



### Capacity Capacity Price Each Mode Order Code 5+ 10+ 20+ 25.25 24.50 135-3673 22.79 105 135-3672 12.45 12.10 11.45 11.23

# Taper and Deburring Countersinker Set HSS, **CBN Ground**





The deep-ground cutting grooves mean the cutting edges are absolutely sharp. For countersinking, deburring and recessing in steel cast iron, non-ferrous heavy metals and light alloys without burrs and without chattering.

DIN 335 Form C 90° Ø 6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm

Countersink angle:	90°
Shank:	cylindrical
Cutting edges:	3
Surface:	bright
right hand cutting	•

413278

			Price Each	
Mftrs. List No.	Order Code	1+	5+	10+
A102156	970-0862	32.16	30.55	28.55

# **Taper and Deburring Countersinkers DIN 335**

Form C 90°HSS, CBN ground



Because of the CBN deep-ground flutes the cutting edges are extremely sharp. Ideal for burr- and chatter-free deburring and countersinking. Best results at low cutting speeds. Suitable for steel, cast iron, non-ferrous and light metals.

Countersink angle:	90°
Shank:	zylindric
Cutting:	3

Supplied in a metal case

Set of 6: 374-982

	Countersinker	Shank	Countersinking as per
Mftrs. Part No.	mm	mm	DIN74
102 107	6.3	5	M3
102 111	8.3	6	M4
102 114	10.5	6	M5
102 116	12.4	8	M6
102 119-1	16.5	8	
102 121	20.5	10	M10
102 152 (Satz)		10	

Mftrs. Part No.			Price Each	
	Order Code	1+	4+	20+
102-107	483-783	5.94	5.36	4.75
102-111	374-799	7.25	6.79	6.13
102-114	483-795	8.07	7.25	6.44
102-116	374-891	9.33	8.78	8.15
102-119	483-801	10.56	9.50	8.45
102-121	483-813	18.65	16.78	14.91
102-152	374-982	78.38	75.14	69.11

# **Countersinks and Deburring Tools** DIN 335 Form C 90° HSS Co 5 - CBN ground for VA steels

Shai



240969





- The deep ground flutes provide an absolutely sharp cutting edge, Ideal for deburring and chatter-free countersinking.
- Deburring and countersinking in V2A, V4A.

The bes	st results	are	obtained	at	low	cutting	speed	S.

intersink angle: 90°	Cutters: 3	
nk: cylindrical	Surface: polished	
*	·	451629

### shank countersink to ∅ mm DIN 74 (BF) Price Each 5+ 10+ 102107E 45 mm M 3 130-7283 4.49 4.28 4.03 6.3 mm 102111E 102114E 50 mm 50 mm 130-7284 130-7285 5.21 5.89 4.96 5.58 4.70 5.31 5.94 8.3 mm M 4 M 5 M 6 10.4 mm 12.4 mm 16.5 mm 102116E 102119E 56 mm 130-7286 130-7287 6.61 7.74 6.30 60 mm 6.97 63 mm 10 M · Ø 6.3; 8.3; 10.4; 12.4; 102121E 20.5 mm M 10 130-7288 10.69 10.12 102152E 6-piece set 16.5 (Shank Ø 10 mm); 20.5 mm 130-7291 52.67 50.04 47.40

# Slotted Taper and Deburring Countersinkers 90°





- Self centering and supported over the majority of their circumference
- These factors stop the tool chattering
- Gives an exceptionally clean and precise hole
- Each tool covers a range of hole sizes
- Swarf removal is very efficient given the large hole in the tool head
- Suitable for use with brass, aluminium and ferrous metals
- Manufactured from HSS steel with ground shaft and cutting head

Deburring	Head	Overall	Shaft	Shaft			
Range mm	Dia. mm	Length mm	Length mm	Dia. mm	Mftrs. Part No.	Order Code	
2 - 5	10	45	27	6	102301E	483-722	
5 - 10	14	48	24	8	102302E	483-734	
10 - 15	21	65	31	10	102303E	483-746	

					Drice Each	
						213472
10 - 15	21	65	31	10	102303E	483-746
5 - 10	14	48	24	8	102302E	483-734
2 - 5	10	45	21	Ö	102301E	483-722

			Price Each	
Deburrers	Order Code	1+	4+	20+
2 - 5mm	483-722	5.57	5.52	5.38
5 - 10mm	483-734	10.40	9.36	8.32
10 - 15mm	483-746	15.08	13.56	12.01

# G136 HSS Straight Shank Countersink, 90 Degrees





DIN 335 Type C Flute geometry 3 Flute, ground all over 90° included angle

Shank Straight shank Range 8 - 12.4mm

Application To produce 90° countersinks. Also used as a

deburring tool.

493075

492364

Diame	ter	Shank	Overall		Price Each
Min	Max	Diameter(r	mm) Length(mm)	Order Code	1+
2.0	8.0	6	50	025-682	17.05
2.5	10.0	6	50	025-683	24.35
2.8	12.4	8	56	025-684	29.20

# **HSS 90 3 Flute Countersinks**



Suitable for all general purpose chamfering, deburring and countersinking

Diameter Min Max Overall Length(mm) Shank Price Each Diameter(mm) Order Code 2.50 10.40 150-6424 7.44 50 2.80 12.40 3.20 16.50 150-6425 150-6426 56 60 6.99 10 8.38 3.80 25.00 67 150-6427 16.87

# **HSS 90 Deburring Cutters**



Deburring countersinks allow fast metal removal and chatterfree finish in all types of materials.

Diameter range	Overall length (mm)	Shank diameter (mm)	Order Code	Price Each 1+
2 - 5	45	6	147-1906	6.10
5 - 10	48	8	147-1907	9.05
10 - 15	65	10	147-1908	12.59
15 - 20	84	12	147-1911	25.21
20 - 25	102	15	147-1912	32.05







# **Deburring - continued**

### Flat countersinkers DIN 373 HSS

with fixed guide, Medium grade for through hole







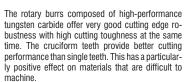
For producing countersinkings for cylinderhead screws, thread-cutting screws and threadfurrowing screws. Ideal for burr- and chatter-free deburring and countersinking. Applicable for steel, cast iron, non-ferrous and light metals. Best results at low cutting speeds. Set content: each 1 of M3, M4, M5, M6, M8, M10,

		, , ,	*		
Counters. angle Shank: Cutting edges:		180° cylindric 3	Surface: Right-hand	cutting	blank
Mftrs. Part No. 102408	Thread M3	Pilot⊘ d1 mm 6	CSK⊘ d2 mm 3,4	Shank⊘ d3 mm 5,0	Total length mm 71,0
102409	M4	8	4,5	5,0	71,0
102410	M5	10	5,5	8,0	80,0
102411	M6	11	6,6	8,0	80,0
					225016

Size	Order Code	1+	Price Each 4+	20+
M3	282-364	9.36	8.42	7.50
M4	282-376	8.37	7.53	6.68
M5	282-388	8.77	7.89	7.01
M6	282-390	9.74	8.79	7.81
		1+	3+	6+
Set of above	282-420	115.96	104.36	92.77

# **TC Rotary Burrs Set** 3-piece

RUKO



Applications: for highly alloyed, rust-resistant, acidresistant and heat-resistant steels, cast iron and plastics. For deburring, edge removal, finishing, weld bead machining and surface machining.

- Set of TC rotary burrs, 3 pcs./ each 1x Ø D1 10.0 mm 1 TC rotary burr shape A, cylinder (ZYA) with end toothing 1 TC rotary burr shape G, pionted arch (SPG) 1 TC rotary burr shape D, cone (KUD)

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
116001	970-0811	27.06	25.85	24.75

# **TC Rotary Burrs Set** 10-piece



The rotary burrs, composed of high-performance tungsten carbide, offer very good cutting edge robustness with high cutting toughness at the same time. The cruciform teeth provide better cutting performance than single teeth. This has a particularly positive effect on materials that are difficult to machine.

Applications: for highly alloyed, rust-resistant, acid-resistant and heat-resistant steels, cast iron and plastics. For deburring, edge removal, finishing, weld bead machining and surface machin-

Set of TC rotary burrs, 10 pcs. / each 1x Ø D1 6.0 + 12.0 mm

- 1 TC rotary burr shape A, cylinder (ZYA) with end toothing 1 TC rotary burr shape G, pionted arch (SPG)
- 1 TC rotary burr shape D, cone (KUD)
  1 TC rotary burr shape C, sphero-cylindrical (WRC)
- 1 TC rotary burr shape F, full arch (RBF)

				110200
Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
116002	970-0820	99.95	91.80	84.12

### **Carbide Burrs**

**Ball Nosed Cylinder** 



493974

Head Diameter (mm)	Length (mm)	Shank Diameter (mm)	Overall Length(mm)	Standard Cut Order Code	Diamond Cut Order code	Price Each 1+
3	13	3	38	229-465B	222-631	4.84
6	19	6	50	229-489B	222-633	10.31
10	19	6	65	229-430B	222-635	10.63
12	25	6	70	229-490B	222-637	14.63

# **Carbide Burs Ball Nosed Tree**



Head diameter	Head length	Shank diamete	Overall erlength	Standard cut Order code	Diamond cut Order code	Price each
(mm)	(mm)	(mm)	(mm)			
3	13	3	38	229-472	222-679	5.11
6	16	6	50	229-436	222-681	11.75
10	19	6	65	-	222-682	11.09
12	25	6	70	229-499	222-683	11.72

### **Rotary Burrs**



493536

Head Diameter (mm) 3 6 10	Head Length (mm) 19 19 19	Shank Diameter (mm) 3 6 6 6	Overall Length (mm) 38 50 65	Standard Cut Order Code 229-462 155-3733 229-427 229-428B	Diamond Cut Order Code 222-608 222-611 222-613 222-614	Price Each 4.33 8.16 12.46 14.70
15	25	6	70	229-429	222-615	17.70

### **Carbide Burrs**

Rall

RUKO

413256

413259



494459

Head	Head	Shank	Overall	Standard Cut	Diamond Cut	Price Each
Diameter(mm)	Length(mm)	Diameter(mm)	Length(mm)	Order Code	Order Code	1+
3	2.7	3	38	229-467	222-667	9.52
10	7.2	6	53	229-433	222-672	9.65
12	10.8	6	53	229-497	222-673	10.67

# Taps & Dies

# 6 Piece Die Set



# **D** URATOOL

- This 6 piece die set is made from high quality
- Sizes included: 6 x 1.0, 7 x 1.0, 8 x 1.25, 10 x 1.5, 12 x 1.75mm
- Die handle 1" OD

	482076.461036
t	

Price/Set						
Order Code	1+	5+	10+	20+	50+	
144-7539	4.11	3.77	3.27	3.09	2.80	

# Troubleshooting tips



Chat live online to one of our technical engineers at www.farnell.co.uk



**DURATOOL** 

# 6 Piece Tap and Wrench Set



# 6 piece tap set

Kit includes: Tbar wrench, M3 x 0.5, M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.25mm

**DURATOOL** 

482077.461056

Price/Set						
Order Code	1+	5+	10+	20+	50+	
144-7540	4.95	4.38	3.95	3.70	3.37	

### **HSS 8 Piece Metric Tap Set**



- High quality, high speed steel ISO straight flute taps
- Sizes M3, M4, M5, M6, M8, M10, M12
- Die cast tap wrench

				493920
Price Each 147-2151	Order Code 1+ 38.27	5+ 37.50	10+ 36.75	20+ 36.02

# Metric 8 Piece HSS Die Set

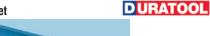


- High quality, high speed steel. ISO dies
- Sizes M3, M4, M5, M6, M8, M10,
- Die cast die holder to suit

493747

	Price Each			
Order Code	1+	5+	10+	20+
147-2152	38.27	37.50	36.75	36.02

# 20 Piece Tap and Die Set





9 pc dies set:  $3 \times 0.5$ ,  $4 \times 0.7$ ,  $5 \times 0.8$ ,  $6 \times 1.0$ ,  $7 \times 1.0$ ,  $8 \times 1.25$ ,  $10 \times 1.5$ ,  $12 \times 1.75$ , ½-27 9 pc taps:  $3 \times 0.5$ ,  $4 \times 0.7$ ,  $5 \times 0.8$ ,  $6 \times 1.0$ ,  $7 \times 1.0$ ,  $8 \times 1.25$ ,  $10 \times 1.5$ ,  $12 \times 1.75$ , ½-27 1 pc tap wrench

1 pc die handle 1" OD

					482079.461063
Order Code	4.	5+	Price/Set	20.4	E0 .
Order Code	1+	5+	10+	20+	50+
144-7542	11.48	10.42	9.18	8.62	7.81

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# 40 Piece Tap and Die Set



- Heat treated alloy steel
- national coarse, national fine and pipe combination thread

The kit contains:

- One tap and one die of the following sizes: 3 x 0.5, 3 x 0.6, 4 x 0.7, 4 x 0.75, 5 x 0.8, 5 x 0.9, 6 x 1.0, 6 x 0.75, 7 x 1.0, 7 x 0.75, 8 x 1.25, 8 x 1.0, 10 x 1.25, 10 x 1.5, 12 x 1.75, 12 x 1.5 and 1/8NPT
- 1 x Long handle adjustable tap wrench
- 1 x "T" handle tap wrench
- 1 x Die handle
- 1 x Flat screwdriver
- 1 x Screwpitch gauge
- Supplied in blow moulded case

482078.461060

			Price/Set		
Order Code	1+	5+	10+	20+	50+
144-7541	21.15	19.17	16.93	15.86	14.42

# **Drill And Tap Sets**

M3 - M12 Drill And Tap Set



HSS drill and tap set Metric Coarse M3, 4, 5, 6, 8, 10 and 12 1 taper and 1 plug tap for all sizes. Tapping drills to suit Tap wrench Supplied in a metal case.

RUKO

		Price Each				
Size (mm)	Order Code	1+	5+	10+	20+	
3, 4, 5, 6, 8, 10, 12	147-2117	71.77	70.32	68.92	67.53	

# **Metric Tap and Drill Set**



- Boxed set of HSS drills, DIN standard metric HSS taps and a tap wrench
- There is a taper and a bottoming tap
- M3, M4, M5, M6, M8, M10 and M12 fasteners
- Conforms to BS328 and IS0529

225051,401282

	Price Each					
Order Code	1+	+	+	+		
282-352	99.53					

# Machine Taps Set DIN 371 HSS Co 5

in plastic case, 10 pieces



Туре	Ø
Machine Taps M DIN 371 HSS Co5	M4, M5, M6, M8, M10
Machine Taps RSP DIN 371 HSS Co5	M4, M5, M6, M8, M10







# **Taps & Dies - continued**

# Machine Taps Set DIN 371 HSS Co 5 - continued in plastic case, 10 pieces - continued

				Price Each	
Mftrs List No.	Description	Order Code	1+	5+	10+
A245055E	10-pieces Set	122-1868	50.95	48.46	43.67

# Combined Machine Taps Bit HSS, ground







In one working stroke:

- Core hole drilling with twist drill
- Thread cutting
- Thread deburring
- Thread cleaning

Set consisting of M3, M4, M5, M6, M8, M10 + 1 Hexagon magnetic holder

Thread: metric DIN ISO 13 Flanks: relief-ground Tolerance: ISO 2 / 6 H Surface: blank Shank: 1/4" Hexagon Right-hand cutting

The combined machine tap is suitable for sheet metal working with right/left handed rotation cordless drilling machines. The thread is cut in one operation, without any tool changing. The tool incorporates a twist drill before the thread-tapping part. For core holes and through threads in unalloyed and alloyed steels up to 600N/mm² stability, malleable and non-ferrous metals. The twist drill consists of highly alloyed high-speed steel.

						413246
Mftrs. Part No.	Thread size	Length	Order Code	1+	Price Eacl	10+
270014	M3	36mm	970-0749	3.96	3.61	3.46
270015	M4	39mm	970-0757	4.77	4.03	3.83
270016	M5	41mm	970-0765	3.96	3.61	3.57
270017	M6	44mm	970-0773	3.96	3.61	3.31
270018	M8	51mm	970-0781	5.32	4.84	4.44
270019	M10	59mm	970-0790	6.57	5.98	5.47
270019	Set of 7	5911111	970-0790	30.21	27.87	

**Machine Tap Sets** 7 piece set in steel case







970-0870: Form B 4 - 5 threads with progressive tap

970-0889: Form C 2 - 3 threads

970-0870: Machine taps mit reinforced shank, for through thread, in unalloyed and alloyed steels up to 1000 N/mm<sup>2</sup> and VA metals. The thread is cut in one stroke.

970-0889: Machine taps mit reinforced shank and right-hand spiral flutes for bottoming threads, in unalloyed and alloyed steels up to 1000 N/mm<sup>2</sup> VA metals. The thread is cut in one stroke.

Thread: metric DIN ISO 13 Flanks: relief-ground Tolerance: ISO 2 / 6 H Surface: vaporised Right-hand cutting

970-0870	970-0889
Set consisting of:	Set consisting of:
M3, M4, M5, M6, M8, M10, M12	M3, M4, M5, M6, M8, M10, M12

				41327	3
		Price Each			
Mftrs. Part No.	Order Code	1+	5+	10+	
245063	970-0870	57.00	52.61	48.86	
245064	970-0889	63.34	58.47	54.29	

# **Tap Index Set**

439479



### **Hex Bit Tap Set**

High speed steel taps with 1/4in hexagon shank for use in power tool bit holders

		Price Each					
Size (mm)	Order Code	1+	5+	10+	20+		
3,4,5,6,8,10	147-2140	29.56	28.97	28.39	27.83		

# Hex Bit Tap And Drill Set

High speed steel taps and the correct size drill bits with 1/4in hexagon shanks. For fast tapping in sheet metals with power tools.

Price Each						
	Size (mm)	Order Code	1+	5+	10+	20+
	3, 4, 5, 6, 8, 10mm taps, 2.5, 3.3, 4.2, 5.0, 6.8, 8.5mm drills	147-2141	41.48	40.65	39.84	39.05

### 1/4in Hex Shank Taps

High speed steel metric taps with 1/4in hexagon shank for use in power tool bit holders.

Size x Pitch			Pric	e Each	
(mm)	Order Code	1+	5+	10+	20+
3.0 x 0.5	147-2143	3.06	3.00	2.94	2.89
4.0 x 0.7	147-2144	3.06	3.00	2.94	2.89
5.0 x 0.8	147-2145	3.82	3.74	3.66	3.59
6.0 x 1.0	147-2146	3.82	3.74	3.66	3.59
8.0 x 1.25	147-2147	5.51	5.39	5.28	5.18
10.0 x 1.5	147-2149	6.72	6.59	6.46	6.32

# Tap & Die Set Tap, Die & Tapping Drill Set



- High speed steel tap, die and tapping drill set for general engineering and workshop applications
- DiN standard taps and solid circular dies
- Supplied in a metal box
- Set contains taps plus dies M3 to M12 complete with tap wrenches, die stocks and thread gauge

493300

	Price Each						
Order Code	1+	5+	10+	20+			
147-2154	137.70	134.94	132.24	129.60			

# Tap & Die Set M3-M12 Tap & Die Set



Comes in strong light plastic carrying case. HSS taps & dies to DIN standard with tap wrenches & diestock ideal for maintanence applications.

	Price Each				
Order Code	1+	5+	10+	20+	
147-1877	93.64	91.76	89.93	88.13	



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# **HSS Metric Tap & Die Set**



- High quality set to DiN standard for general engineering
- Set contains: Taps M3 12mm in taper, second, plug

Dies M3 - M12 Tap wrenchs and diestocks Screw pitch gauge and screwdriver

RUKO

	Price Each						
Order Code	1+	5+	10+	20+			
147-2153	103.31	101.24	99.22	97.23			

# **Thread-Cutting Set**

37 pieces, HSS



- one three-piece set each of hand taps M DIN 352 M3, M4, M5, M6, M8, M10, M12  $\,$
- 7 die, M DIN EN 22568 in each of the sizes M3, M4, M5, M6, M8, M10, M12
- 5 die stock DIN 225 in each of the sizes 20x5mm, 20x7mm, 25x9mm, 30x11mm, 38x14mm 2 tap wrench, size 1 and size 2 DIN 1814

- 1 screwdriver
- 1 screw-pitch gauge

				240621
Mftra Dart No	Order Code	1+	Price Each	10+
Mftrs. Part No.	Order Code	1+	5+	10+
245020	375-019	177.04	156.35	137.50

# **Thread Repair Workshop Kits**



Thread repair workshop kit. Thread repair for damaged or worn out threads. Range 5
-12 mm. With STI machine taps (spiral point), inserting tool, drill and inserts.

V-COIL

494739

112.31

					494
			Price	Each	
Range	Order Code	1+	5+	10+	20+

119.33

116.95

147-1821

# **Keyway Broach Sets**

M5 - M12







114.61

High speed steel. For cutting keyways in gears, milling cutters, pulley hubs, collars, couplings etc. Use with hand-operated or hydraulic arbor press. 15 keyway combinations. Collared bushings

# No 00 Precision Set

Keyway	Broach	Bushing		Price Each	
Size (in)	Style	Diameter (in)	Order Code	1+	
1/16, 3/32, 1/8	Α	1/4, 5/16, 3/8, 7/16,1/2	025-787	143.55	

### No 70 Metric Set

26 Keyway combinations. Collared brushings.

				4	93691
Keyway Size (in)	Broach Style	Bushing Diameter (in)	Order Code	Price Each 1+	
4, 5, 6, 8	B - 1, C	12, 14, 15, 16, 18,			
		19, 20, 22, 24, 25, 26, 28, 30	025-792	273.61	

# Die Stocks as per DIN 225



For closed and slotted taps as per DIN EN 24231. With steel handles one of which can be unscrewed and five screws for clamping the tap.

Version: Die-cast zinc housing

Packing unit: individual plastic pack

Mftrs. Part No.	Size in mm	Depth, external in mm	Length, Total	for die stocks
242165	16	5	160	M1 - M2,6
242205	20	5	200	M3 - M4
242207	20	7	200	M4,5 - M6
242259	25	9	224	M7 - M9
2423011	30	11	280	M10 - M11
2423814	38	14	315	M12 - M14

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
242165	377-119	3.40	3.05	2.80
242205	377-120	3.40	3.05	2.80
242207	377-132	3.10	2.80	2.50
242259	377-144	3.70	3.30	3.00
2423011	377-156	4.65	4.15	3.80
2423814	377-168	5.20	4.70	4.25

# Round dies M DIN EN 22568 HSS Ground



Type B closed, preslotted, metric thread, DIN ISO 13, right-hand cutting.

Mftrs List No	Thread	Pitch (mm)	Outer Diameter (mm)	Thickness (mm)
237020	M2			5
237030	M3		20	5
237040	M4		20	5
237050	M5		20	7
237060	M6		20	7
237080	M8		25	9
237120	M10		30	11
237120	M12		38	<sup>14</sup> 240656

Mftrs List No	Order Code	1+	Price Each 5+	10+
237020 237030 237040 237050 237050 237060 237080 237120 237120	376-668 376-802 376-905 376-929 376-954 377-004 377-090 377-107	5.30 4.49 4.49 4.23 4.49 4.41 5.13 6.45	4.90 4.32 4.32 4.08 4.32 4.25 4.95 6.10	4.50 4.05 4.05 3.84 4.05 3.95 4.57 5.72

### **HSS Dies**



BS1127:1950 Tolerance Class B Chamfer lead 1.5 threads **Cutting rake** 

Surface treatment Bright

DORMER

Application For hand or machine production of components less than 3x diameter in length.

Range

1/8 - 1in

494300

DORMER

Size x Pitch			Price Each
(in x mm)	OD (in)	Order Code	1+
1/8 x 28	1	147-4021	22.56
1/4 x 19	15/16	147-4022	33.18
3/8 x 19	11/2	147-4023	38.73
½ x 14	2	147-4024	57.36
5/8 x 14	2	147-4025	72.37
3/4 x 14	2	147-4026	72.37

# **F310 HSS Metric Fine Dies**



BS1127:1950 Tolerance: 6g Chamfer lead: 1.5 threads

Cutting rake: 8° Surface treatment: Bright Range: 5 - 25mm

Application: For hand or machine production of components less than 3x diameter in length.







# **Taps & Dies - continued**

# F310 HSS Metric Fine Dies - continued

			494130
Size x Pitch(mm)	Cutter Diameter(in)	Order Code	Price Each 1+
5 x 0.50 6 x 0.75 8 x 1.00 10 x 0.75 10 x 1.00 10 x 1.25 12 x 1.00 12 x 1.25 12 x 1.50 14 x 1.25 14 x 1.50 16 x 1.50	13/16 13/46 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	024-748 147-4009 147-4010 147-4011 147-4012 147-4013 147-4015 147-4016 147-4018 147-4019	23.85 20.31 24.15 31.02 24.15 24.15 35.63 35.63 35.63 35.63 35.63 41.56
18 x 1.50 25 x 1.50	1½ 2.000	147-4020 147-7494	41.56 81.82

# Single-cut taps M DIN 352 HSS

Thread

M3

M4

M5

Steigung in mm

0.40

0.50

0.70

0.80

1.00

**Price Each** Mftrs. Part No. Order Code 10+ 230020 375-202 5.65 5.10 4.71 6.18 6.18 5.65 5.65 5.18 5.18 230030 375-238 230040 375-299 4.91 5.41 7.05 375-317 375-342 230050 5.89 5.32 375-408 230120 8 21 7 57

thread core

hole in mm

1.60

2.50

4 20

5.00

total length

in mm

36

40

45

50 50

**Order Code** 

137-5800 147-4027

147-4028 147-4031

137-5682 137-5683

147-4033

147-4034

147-4032 137-5686

147-4036 147-4035

137-5687

147-4038

147-4039 147-4040

147-4043

For circular split dies.

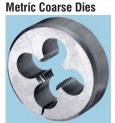
Order Code

147-1921

147-1923 147-1924

147-1925

147-1926



OD (in)

13/<sub>16</sub> 13/<sub>16</sub>

13/16 13/<sub>16</sub> 13/<sub>16</sub>

15/16

**1**5⁄16

. 15⁄16

15/16 11/2 11/2

Pitch (mm)

2 x 0.40 3 x 0.50

4 x 0.70 5 x 0.80 6 x 1.00 6 x 1.00

6 x 1.00 8 x 1.25

10 x 1.50 10 x 1.50

10 x 1.50 11 x 1.50

12 x 1.75 14 x 2.00

16 x 2.00 18 x 2.50 20 x 2.50

24 x 3.00

Model

D1

D2 D3

D4 D5

**Die Stocks** 

BS1127:1950 **Tolerance** Chamfer lead 1.5 threads **Cutting rake** Flute geometry

Straight flutes

Surface treatment Bright Range 2 - 30mm Application

For hand or machine production of components less than 3 x diameter in length.

**Price Each** 

1+

23.12 13.38

13.38 13.38 13.55 16.07

28.47 23.23

15.86 23.53

34.95 28.47

23.53 38.44

27.15

40.09

40.09

40.09

**Price Each** 

4.68

5.36 7.86

9.88

20.10

DORMER

For through threads in unalloyed or low-alloyed steels up to 800 N/mm² strength, malleable
cast iron and non-ferrous metals. The thread can be cut in one operation by hand or machine.

Chamfer: Form B 4-5 threads with progressive tap Thread: metric DIN ISo 13 Flanks: relief-ground

Surface: blank Right-hand cutting

Mftrs. Part No.

230020

230030

230040

230050

230060

240476

240508

thread length

10.0

12.0 13.0 15.0

								Price Each	
Mftrs.	Thread	Pitch	Thread	Total	Thread	Order Code	1+	5+	10+
Part No.			core hole	Length	Length				
231030	M3	0.5mm	2.50mm	40mm	10mm	375-032	2.47	2.38	2.16
231040	M4	0.7mm	3.30mm	45mm	12mm	375-070	2.35	2.26	2.06
231050	M5	0.8mm	4.20mm	50mm	13mm	375-100	2.70	2.50	2.25
231060	M6	1.00mm	5.00mm	50mm	15mm	375-123	2.67	2.57	2.35
231080	M8	1.25mm	6.80mm	56mm	18mm	375-147	2.95	2.85	2.50

# Machine Taps M DIN 371 HSS





Machine taps with reinforced shank, for through threads, in unalloyed an low alloyed steel up to 800N/mm, malleable cast iron and non-ferrous metal. Chamfer: Form B, 4-5 threads with progressive tap

Thread: metric DIN ISO 13

Flanks: relief-ground	
Right-hand cutting	

Mftrs. Part No.	Thread	Pitch (mm)	Hole (mm)	Total Length (mm)	Thread (mm)
232020	M2	0.40	1.6	45	8.0
232030	M3	0.50	2.5	56	9.0
232040	M4	0.70	3.3	63	10.0
232050	M5	0.80	4.2	70	12.0
232060	M6	1.00	5.0	80	13.0
232080	M8	1.25	6.8	90	18.0
232100	M10	1.50	100	100	20.0

2	4	0	15	5	g

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
232020	375-421	4.15	3.89	3.65
232030	375-433	3.95	3.75	3.50
232040	375-457	4.12	3.95	3.52
232050	375-482	4.12	3.95	3.52
232060	375-500	4.36	4.08	3.82
232080	375-524	5.29	4.79	4.42
232100	375-548	5.03	4.63	4.10

# Hand taps M DIN 352 HSS ground

Capacity (in)

13/16

1 15⁄16

11/2





For through threads and bottoming threads in unalloyed and low-alloyed steels up to a strength of 800 N/mm $^2$ , malleable cast iron and non-ferrous metals. The thread is cut in three operation.

Taper tap: 5-6 thread chamfer Second tap: 4-5 thread chamfer Final chamfer: 2-3 thread chamfer

Thread: metric Right-hand cutting



494304



Version: hardened and ground

**Extension Sleeves DIN 377** 

- Shaft: square as per DIN 10
- As extension to hand thread-cutting tools. Inside and outside square of identical size.

Mftrs. Part No.	Square	Length	for
241034	3.4mm	95mm	M4
241049	4.9mm	110mm	M5-M8
241055	5.5mm	115mm	M9-M10

240604

RUKO





			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
241034	375-901	2.79	2.75	2.52
241049	375-962	3.15	3.00	2.76
241055	375-986	3.15	3.00	2.76

# **E513 HSS Metric Fine Taps Straight Flute**

DORMER



ISO 529 Tap tolerance - Class 2 for 6H fit Chamfer thread numbers - 1,2 and 3 Cutting rake - 7° Flute geometry - Straight flutes

Surface treatment - Bright Range - 4 - 20mm

ne tapping of

Appl	ica	tio	n -	Foi	r hand	lor	machine
hrοι	ıgh	or	blii	nd h	oles.		

riule yeu	illetiy	- ou aiç	ynt nutes	•						492542
Size x	Overall	Fluke	Shank	Square	)					
Pitch	Length	Length	Diameter	A/F						
(mm)	(mm)	(mm)	(mm)	(mm)	Type	Order Code	1+	5+	10+	20+
3 x 0.35	48	12.5	3.15	2.5	Taper	148-5407	9.23	9.04	8.86	8.69
3 x 0.35	48	12.5	3.15	2.5	Second	148-5408	9.23	9.04	8.86	8.69
3 x 0.35	48	12.5	3.15	2.5	Plug	148-5409	9.23	9.04	8.86	8.69
4 x 0.50	53	14	4	3.15	Taper	148-5410	8.80	8.63	8.46	8.28
4 x 0.50	53	14	4	3.15	Second	148-5411	10.28	10.08	9.88	9.67
4 x 0.50	53	14	4	3.15	Plug	148-5413	9.23	9.04	8.86	8.69
5 x 0.50	58	11	5	4	Taper	148-5414	10.28	10.08	9.88	9.67
5 x 0.50	58	11	5	4	Second	148-5415	10.28	10.08	9.88	9.67
5 x 0.50	58	11	5	4	Plug	148-5417	9.23	9.04	8.86	8.69
6 x 0.75	66	13	6.3	5	Taper	148-5418	7.33	7.19	7.03	6.90
6 x 0.75	66	13	6.3	5	Second	148-5419	8.17	8.01	7.85	7.69
6 x 0.75	66	13	6.3	5	Plug	148-5420	7.33	7.19	7.03	6.90
8 x 1.00	72	16	8	6.3	Taper	148-5421	8.49	8.31	8.15	7.99
8 x 1.00	72	16	8	6.3	Second	148-5422	9.45	9.26	9.07	8.89
8 x 1.00	72	16	8	6.3	Plug	148-5423	8.49	8.31	8.15	7.99
10 x 1.00	80	18	10	8	Taper	148-8972	10.87	10.66	10.44	10.23
10 x 1.00	80	18	10	8	Second	148-5424	12.10	11.86	11.62	11.39
10 x 1.00	80	18	10	8	Plug	148-5425	10.87	10.66	10.44	10.23
10 x 1.25	80	18	10	8	Taper	148-5426	10.87	10.66	10.44	10.23
10 x 1.25	80	18	10	8	Second	148-5427	12.10	11.86	11.62	11.39
10 x 1.25	80	18	10	8	Plug	137-4247	11.83	11.59	11.22	10.99
12 x 1.00	89	22	9	7.1	Taper	148-5429	22.88	22.42	21.98	21.53
12 x 1.00	89	22	9	7.1	Second	148-5431	25.50	24.99	24.49	24.00
12 x 1.00	89	22	9	7.1	Plug	148-5432	22.88	22.42	21.98	21.53
12 x 1.25	89	22	9	7.1	Taper	148-5433	15.20	14.89	14.60	14.30
12 x 1.25	89	22	9	7.1	Second	148-5434	15.73	15.42	15.11	14.81
12 x 1.25	89	22	9	7.1	Plug	148-5435	15.20	14.89	14.60	14.30
12 x 1.50	89	22	9	7.1	Taper	148-5436	15.20	14.89	14.60	14.30
12 x 1.50	89	22	9	7.1	Second	148-5437	15.73	15.42	15.11	14.81
12 x 1.50	89	22	9	7.1	Plug	148-5438	15.20	14.89	14.60	14.30
14 x 1.50	95	24	11.2	9	Second	148-5439	17.54	17.18	16.85	16.50
16 x 1.50	102	24	12.5	10	Second	148-5357	19.67	19.28	18.89	18.51
18 x 1.50	112	29	14		Second	148-5440	27.28	26.74	26.21	25.68
20 x 1.50	112	29	14	11.2	Second	148-8965	33.10	32.44	31.79	31.15

# **E500 HSS Metric Coarse Taps Straight Flute**

DORMER



Tap tolerance - Class 2 for 6H fit Chamfer thread numbers - 1,2 and 3 Cutting rake - 7° Flute geometry - Straight flutes

Surface treatment - Bright Range - 2 - 30mm

Application - For hand or machine tapping of through or blind holes.

										492531
Size x	Overall	Flute	Shank	Square	:					
Pitch	Length	Length	Diameter					Price	Each	
(mm)	(mm)	(mm)	(mm)	(mm)	Type	Order Code	1+	5+	10+	20+
2 x 0.40	41	8	2.5	2	Set 3	138-9498	26.22	25.69	24.87	24.37
2.5 x 0.45	44.5	9.5	2.8	2.24	Set 3	138-9499	21.54	21.11	20.43	20.03
2.5 x 0.45	44.5	9.5	2.8	2.24	Taper	138-9424	7.19	7.04	6.81	6.68
2.5 x 0.45	44.5	9.5	2.8		Second	138-9425	7.19	7.04	6.81	6.68
2.5 x 0.45	44.5	9.5	2.8	2.24	Plug	138-9426	7.19	7.04	6.81	6.68
3 x 0.50	48	12.5	3.15	2.5	Set 3	138-9500	13.96	13.68	13.24	12.97
3 x 0.50	48	12.5	3.15	2.5	Taper	138-9428	4.67	4.58	4.43	4.33
3 x 0.50	48	12.5	3.15	2.5	Second	138-9429	4.67	4.58	4.43	4.33
3 x 0.50	48	12.5	3.15	2.5	Plug	138-9430	4.67	4.58	4.43	4.33
3.5 x 0.60		14	3.55	2.8	Taper	138-9431	5.34	5.23	5.06	4.95
3.5 x 0.60		14	3.55	2.8	Plug	138-9432	5.34	5.23	5.06	4.95
4 x 0.70	53	14	4	3.15	Set 3	138-9501	12.69	12.43	12.04	11.79
4 x 0.70	53	14	4		Taper	138-9433	4.23	4.15	4.02	3.94
4 x 0.70	53	14	4	3.15	Plug	138-9435	4.23	4.15	4.02	3.94
5 x 0.80	58	11	5	4	Set 3	138-9502	13.43	13.17	12.74	12.49
5 x 0.80	58	11	5	4	Taper	138-9436	4.49	4.39	4.25	4.16
5 x 0.80	58	11	5 5	4	Second	138-9437	4.49	4.39	4.25	4.16
5 x 0.80	58	11 13	5 6.3	4 5	Plug Set 3	138-9438 138-9503	4.49 13.70	4.39 13.42	4.25 12.99	4.16 12.74
6 x 1.00 6 x 1.00	66 66	13	6.3	5		138-9441	4.57	4.47	4.32	4.24
6 x 1.00	66	13	6.3	5	Taper Second	138-9441	4.57	4.47	4.32	4.24
6 x 1.00	66	13	6.3	5	Plug	138-9443	4.57	4.47	4.32	4.24
8 x 1.25	72	16	8	6.3	Set 3	137-4246	15.22	14.90	14.42	14.14
8 x 1.25	72	16	8	6.3	Taper	138-9444	5.08	4.97	4.81	4.72
0 X 1.20	, ,	.0	3	0.0	тары	100 3444	0.00	1.07	1.01	1.72

Size x Pitch			Shank Diameter		!			Price	Each	
(mm)	(mm)	(mm)	(mm)	(mm)	Type	Order Code	1+	5+	10+	20+
8 x 1.25	72	16	8	6.3	Plug	138-9445	5.08	4.97	4.81	4.72
10 x 1.50	80	18	10.00	8.00	Taper	138-9446	6.51	6.37	6.17	6.05
10 x 1.50	80	18	10.00	8.00	Second	138-9447	6.51	6.37	6.17	6.05
10 x 1.50	80	18	10.00	8.00	Plug	138-9448	6.51	6.37	6.17	6.05
12 x 1.75	89	22	9.00	7.10	Taper	138-9449	9.21	9.02	8.74	8.56

# **Straight Flute Taps**



ISO 529

Tap tolerance: Class 1,2 and 3 Chamfer thread number: 1, 2 and 3 Cutting rake: 7°

Flute geometry: Straight flutes Surface treatment: Bright

**Range:** 1/8 - 1 in

Application: For hand or machine tapping of through or blind holes.

								495208
Size x	CutterØ	Overall	Flute	Shank∅	Square			Price Each
Pitch (mm)	(mm)	Length (mm)	Length (mm)	(mm)	A/F (mm)	Туре	Order Code	1+
1/8 x 28	9.728	59	15	8.0	6.30	Set 2	148-5393	16.10
1/8 x 28	9.728	59	15	8.0	6.30	Taper	138-9422	8.16
1/8 x 28	9.728	59	15	8.0	6.30	Second	138-9495	8.16
1/8 x 28	9.728	59	15	8.0	6.30	Plug	147-4166	8.06
1/4 x 19	13.157	67	19	10.0	8.00	Set 2	148-5394	22.24
1/4 x 19	13.157	67	19	10.0	8.00	Taper	138-9423	11.27
1/4 x 19	13.157	67	19	10.0	8.00	Second	147-7502	11.12
1/4 x 19	13.157	67	19	10.0	8.00	Plug	147-4167	11.12
3/8 x 19	16.662	75	21	12.5	10.00	Set 2	148-8969	33.88
3/8 x 19	16.662	75	21	12.5	10.00	Taper	147-4168	16.69
3/8 x 19	16.662	75	21	12.5	10.00	Plug	147-4171	16.94
½ x 14	20.955	87	26	16.0	12.50	Set 2	148-5395	46.35
½ x 14	20.955	87	26	16.0	12.50	Taper	147-4172	23.17
½ x 14	20.955	87	26	16.0	12.50	Second	147-7503	23.17
½ x 14	20.955	87	26	16.0	12.50	Plug	147-4173	23.17
3/4 x 14	26.441	96	28	20.0	16.00	Set 2	148-5396	64.98
3/4 x 14	26.441	96	28	20.0	16.00	Taper	147-4174	32.50
3/4 x 14	26.441	96	28	20.0	16.00	Second	147-7504	32.50
3/4 x 14	26.441	96	28	20.0	16.00	Plug	147-4175	32.50
1 x 11	33.249	109	33	25.0	20.00	Taper	147-4176	58.14
1 x 11	33.249	109	33	25.0	20.00	Second	147-7505	58.14
1 x 11	33.249	109	33	25.0	20.00	Plug	147-4177	80.27

# **Taps Sraight Flute**

Flute geometry

Surface treatment

Straight flutes

Range

1/8 - 1in



ISO 2284 Tap tolerance In accordance with BS21 Chamfer thread number

**Cutting rake** 

**Application** 

For hand or machine tapping of through or blind holes. Supplied singly.

			493430
Size (in)	Pitch (mm)	Order Code	Price Each 1+
1/8	28	150-6404	14.27
1/4 1/2	19 14	150-6405 150-6406	15.23 26.04

# **Metric Fine Taps Straight Flute**



ISO 529

Tap tolerance: Class 2 for 6H fit Chamfer thread numbers: 1,2 and 3 Cutting rake: 7°

DORMER

Flute geometry: Straight flutes Surface treatment: Bright

Application: For hand or machine tapping of through or blind holes.

							493945
Size x Pitch (mm)	Overall Length (mm)	Flute Length (mm)	Shank Diameter (mm)	Square A/F (mm)	Туре	Order Code	Price Each 1+
3 x 0.35	48	12.5	3.15	2.5	Taper	148-5407	9.23
3 x 0.35	48	12.5	3.15	2.5	Second	148-5408	9.23
3 x 0.35	48	12.5	3.15	2.5	Plug	148-5409	9.23
4 x 0.50	53	14	4	3.15	Taper	148-5410	8.80
4 x 0.50	53	14	4	3.15	Second	148-5411	10.28
4 x 0.50	53	14	4	3.15	Plug	148-5413	9.23
5 x 0.50	58	11	5	4	Taper	148-5414	10.28
5 x 0.50	58	11	5	4	Second	148-5415	10.28
5 x 0.50	58	11	5	4	Plug	148-5417	9.23
6 x 0.75	66	13	6.3	5	Taper	148-5418	7.33
6 x 0.75	66	13	6.3	5	Second	148-5419	8.17
6 x 0.75	66	13	6.3	5	Plug	148-5420	7.33
8 x 1.00	72	16	8	6.3	Taper	148-5421	8.49







# **Taps & Dies - continued**

# Metric Fine Taps Straight Flute - continued

Size x Pitch (mm)	Overall Length (mm)	Flute Length (mm)	Shank Diameter (mm)	Square A/F (mm)	Туре	Order Code	Price Each 1+
8 x 1.00	72	16	8	6.3	Second	148-5422	9.45
8 x 1.00	72	16	8	6.3	Plug	148-5423	8.49
10 x 1.00	80	18	10	8	Taper	148-8972	10.87
10 x 1.00	80	18	10	8	Second	148-5424	12.10
10 x 1.00	80	18	10	8	Plug	148-5425	10.87
10 x 1.25	80	18	10	8	Taper	148-5426	10.87
10 x 1.25	80	18	10	8	Second	148-5427	12.10
10 x 1.25	80	18	10	8	Plug	137-4247	11.83
12 x 1.00	89	22	9	7.1	Taper	148-5429	22.88
12 x 1.00	89	22	9	7.1	Second	148-5431	25.50
12 x 1.00	89	22	9	7.1	Plug	148-5432	22.88
12 x 1.25	89	22	9	7.1	Taper	148-5433	15.20
12 x 1.25	89	22	9	7.1	Second	148-5434	15.73
12 x 1.25	89	22	9	7.1	Plug	148-5435	15.20
12 x 1.50	89	22	9	7.1	Taper	148-5436	15.20
12 x 1.50	89	22	9	7.1	Second	148-5437	15.73
12 x 1.50	89	22	9	7.1	Plug	148-5438	15.20
14 x 1.50	95	24	11.2	9	Second	148-5439	17.54
16 x 1.50	102	24	12.5	10	Second	148-5357	19.67
18 x 1.50	112	29	14	11.2	Second	148-5440	27.28
20 x 1.50	112	29	14	11.2	Second	148-8965	33.10

# Metric Coarse Taps Sraight Flute

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SO 529

Tap tolerance: Class 2 for 6H fit Chamfer thread numbers: 1,2 and 3 Cutting rake: 7°

Flute geometry: Straight flutes Surface treatment: Bright

Range: 2 - 30mm Application: For hand or machine tapping of through or blind holes.

49393

DORMER

	Size x	Overall	Flute	Shank	Square			Price Each
	Pitch (mm)	Length (mm)	Length (mm)	Diameter (mm)	A/F (mm)	Type	Order Code	1+
	2 x 0.40	41	8	2.5	2	Set 3	138-9498	26.22
	2.5 x 0.45	44.5	9.5	2.8	2.24	Set 3	138-9499	21.54
	2.5 x 0.45	44.5	9.5	2.8	2.24	Taper	138-9424	7.19
	2.5 x 0.45	44.5	9.5	2.8	2.24	Second	138-9425	7.19
	2.5 x 0.45	44.5	9.5	2.8	2.24	Plug	138-9426	7.19
	3 x 0.50	48	12.5	3.15	2.5	Set 3	138-9500	13.96
	3 x 0.50	48	12.5	3.15	2.5	Taper	138-9428	4.67
	3 x 0.50	48	12.5	3.15	2.5	Second	138-9429	4.67
	3 x 0.50	48	12.5	3.15	2.5	Plug	138-9430	4.67
	3.5 x 0.60	50	14	3.55	2.8	Taper	138-9431	5.34
	3.5 x 0.60	50	14	3.55	2.8	Plug	138-9432	5.34
	4 x 0.70	53	14	4	3.15	Set 3	138-9501	12.69
	4 x 0.70	53	14	4	3.15	Taper	138-9433	4.23
	4 x 0.70	53	14	4	3.15	Plug	138-9435	4.23
	5 x 0.80	58	11	5	4	Set 3	138-9502	13.43
	5 x 0.80	58	11	5	4	Taper	138-9436	4.49
	5 x 0.80	58	11	5	4	Second	138-9437	4.49
	5 x 0.80	58	11	5	4	Plug	138-9438	4.49
	6 x 1.00	66	13	6.3	5	Set 3	138-9503	13.70
	6 x 1.00	66	13	6.3	5	Taper	138-9441	4.57
	6 x 1.00	66	13	6.3	5	Second	138-9442	4.57
	6 x 1.00	66	13	6.3	5	Plug	138-9443	4.57
	8 x 1.25	72 72	16	8	6.3	Set 3	137-4246	15.22
	8 x 1.25 8 x 1.25	72	16	8	6.3	Taper	138-9444	5.08
	8 X 1.25 10 X 1.50	72 80	16 18	10.00	6.3 8.00	Plug	138-9445 138-9446	5.08 6.51
	10 x 1.50	80	18	10.00	8.00	Taper Second	138-9447	6.51
	10 x 1.50	80	18	10.00	8.00		138-9447	6.51
	10 x 1.50 12 x 1.75	89	22	9.00	7.10	Plug Taper	138-9449	9.21
ı	12 X 1.73	09	22	9.00	7.10	Tapel	130-9449	9.21

# **E600 HSS Metric Coarse Taps Long Shank Straight Flute**



ISO 2283/8051
Tap tolerance
Class 2 for 6H fit
Chamfer thread numbers
1,2 and 3
Cutting rake

Flute geometry Straight flutes Surface treatment Bright **Range** 3 - 16mm

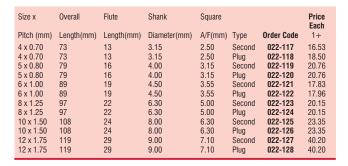
Application

For hand or machine tapping of through or blind holes in ferrous

and non-ferrous alloys where a long reach is required.

493741

DORMER



# Metric Standard Right Hand Cutting



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	_			Price	Each	
Size x pitch (mm)	Type					
(111111)		Order Code	1+	5+	10+	20+
2.0 x 0.4	Taper	147-2077	4.83	4.73	4.64	4.55
2.0 x 0.4	Second	147-2078	4.83	4.73	4.64	4.55
2.0 x 0.4 2.5 x 0.45	Plug Taper	147-2079 147-2080	4.97 3.94	4.86 3.85	4.76 3.77	4.67 3.70
2.5 x 0.45	Second	147-2081	3.94	3.85	3.77	3.70
2.5 x 0.45	Plug	147-2083	3.94	3.85	3.77	3.70
3.0 x 0.5	Taper	150-6414	2.67	2.62	2.57	2.52
3.0 x 0.5 3.0 x 0.5	Second Plug	150-6415 150-6416	2.67 2.67	2.62 2.62	2.57 2.57	2.52 2.52
3.5 x 0.6	Taper	147-2084	2.90	2.83	2.77	2.72
3.5 x 0.6	Second	147-2085	2.90	2.83	2.77	2.72
3.5 x 0.6	Plug	147-2086	3.08	3.02	2.96	2.91
4.0 x 0.7 4.0 x 0.7	Taper Second	147-2087 147-2088	2.44 1.45	2.39 1.42	2.35 1.39	2.29 1.37
4.0 x 0.7 4.0 x 0.7	Plug	147-2089	2.44	2.39	2.35	2.29
5.0 x 0.8	Taper	147-2090	2.73	2.68	2.63	2.58
5.0 x 0.8	Second	147-2091	2.73	2.68	2.63	2.58
5.0 x 0.8 6.0 x 1.0	Plug Taper	147-2092 147-2093	2.73 2.73	2.68 2.68	2.63	2.58 2.58
6.0 x 1.0	Second	147-2095	2.73	2.68	2.63	2.58
6.0 x 1.0	Plug	147-1822	2.73	2.68	2.63	2.58
7.0 x 1.0	Taper	147-1823	4.27	4.19	4.11	4.03
7.0 x 1.0 7.0 x 1.0	Second Plua	147-1824 147-1825	4.19 4.27	4.11 4.19	4.03 4.11	3.95 4.03
8.0 x 1.25	Taper	147-1826	3.07	3.01	2.95	2.90
8.0 x 1.25	Second	147-1827	3.07	3.01	2.95	2.90
8.0 x 1.25	Plug	147-1828	3.07	3.01	2.95	2.90
9.0 x 1.25	Taper	147-1829 147-1830	4.94 4.94	4.84 4.84	4.74 4.74	4.65 4.65
9.0 x 1.25 9.0 x 1.25	Second Plua	147-1832	4.94	4.84	4.74	4.65
10.0 x 1.5	Taper	147-1833	3.89	3.81	3.72	3.65
10.0 x 1.5	Second	147-1834	3.89	3.81	3.72	3.65
10.0 x 1.5 11.0 x 1.5	Plug Taper	147-1835 147-1836	3.89 6.05	3.81 5.93	3.72 5.81	3.65 5.69
11.0 x 1.5	Second	147-1837	6.05	5.93	5.81	5.69
11.0 x 1.5	Plug	147-1838	6.05	5.93	5.81	5.69
12.0 x 1.75	Taper	147-1839	5.51	5.39	5.28	5.18
12.0 x 1.75 12.0 x 1.75	Second	147-1840 147-1841	5.51 5.51	5.39 5.39	5.28 5.28	5.18 5.18
14.0 x 2.0	Taper	147-1842	6.78	6.65	6.52	6.39
14.0 x 2.0	Second	147-1844	6.78	6.65	6.52	6.39
14.0 x 2.0	Plug	147-1845	6.77	6.64	6.51	6.38
16.0 x 2.0 16.0 x 2.0	Taper Second	147-1846 147-1847	8.31 8.31	8.15 8.15	7.98 7.98	7.82 7.82
16.0 x 2.0	Plug	147-1848	8.31	8.15	7.98	7.82
18.0 x 2.5	Taper	147-1849	11.51	11.28	11.05	10.83
18.0 x 2.5	Second	147-1850	11.51	11.28	11.05	10.83
18.0 x 2.5 20.0 x 2.5	Plug Taper	147-1851 147-1852	11.51 13.11	11.28 12.85	11.05 12.59	10.83 12.34
20.0 x 2.5	Second	147-1853	13.11	12.85	12.59	12.34
20.0 x 2.5	Plug	147-1854	13.11	12.85	12.59	12.34
24.0 x 3.0	Taper	147-1856	19.60	19.21	18.82	18.45
24.0 x 3.0 24.0 x 3.0	Second Plug	147-1857 147-1858	19.60 19.60	19.21 19.21	18.82 18.82	18.45 18.45
27.0 x 3.0	Taper	147-1878	47.20	46.25	45.33	44.42
27.0 x 3.0	Second	147-1881	40.39	39.59	38.79	38.02
27.0 x 3.0	Plug	147-1882	40.39	39.59	38.79	38.02
30.0 x 3.5 30.0 x 3.5	Taper Second	147-1883 147-1884	37.29 37.29	36.55 36.55	35.81 35.81	35.10 35.10
30.0 x 3.5	Plug	147-1885	37.29	36.55	35.81	35.10



# **Dormer E550 HSSBSPT Taps Straight Flute**



Tap tolerance In accordance with BS21 Chamfer thread number

**Cutting rake** 

Flute geometry Straight flutes
Surface treatment Bright

Range 1/8 - 1in **Application** 

For hand or machine tapping of through or blind holes.

DORMER

Siz	e x ch	Cutter	Overall length	Flute length	diameter		Order Code	Price Each 1+	5+
1/4 2 3/8 2 1/2 2 3/4 2	x 28 x 19 x 19 x 14 x 14 x 14	(mm) 9.728 13.157 16.662 20.955 26.441 33.249	(mm) 59 67 75 87 96 109	(mm) 15 19 21 26 28 33	(mm) 8.0 10.0 12.5 16.0 20.0 25.0	(mm) 6.3 8.0 10.0 12.5 16.0 20.0	147-4178 147-4179 147-4180 147-4181 147-4183 147-4184	19.44 21.52 37.06 40.71 56.20 82.17	19.05 21.09 36.32 39.90 55.07 80.53

# **HSS Hand Taps Metric Sets**

**Metric Standard** 



Standard ISO 529. Straight flute. Sets of three

Comprising - 1 each taper, second and bottoming.

### **Right Hand Cutting**

		Price Each			
Size x Pitch (mm)	Order Code	1+	5+	10+	20+
2.0 x 0.4	147-2052	14.44	14.15	13.87	13.59
2.5 x 0.45	147-2053	11.75	11.51	11.28	11.06
3.0 x 0.5	147-2054	7.97	7.81	7.66	7.50
3.5 x 0.6	147-2055	8.63	8.45	8.28	8.12
4.0 x 0.7	147-2056	7.24	7.10	6.95	6.81
5.0 x 0.8	147-2058	8.02	7.86	7.70	7.56
7.0 x 1.0	147-2060	12.54	12.28	12.04	11.80
9.0 x 1.25	147-2062	13.34	13.08	12.81	12.56
10.0 x 1.5	147-2063	11.56	11.33	11.10	10.88
11.0 x 1.5	147-2064	18.13	17.76	17.41	17.05
12.0 x 1.75	147-2065	17.26	16.92	16.58	16.24
14.0 x 2.0	147-2066	20.26	19.85	19.45	19.07
16.0 x 2.0	147-2067	24.87	24.37	23.88	23.40
18.0 x 2.5	147-2068	36.15	35.43	34.71	34.02
20.0 x 2.5	147-2071	41.04	40.21	39.41	38.62
24.0 x 3.0	147-2072	58.68	57.51	56.36	55.22

# **Left Hand Cutting**

						491415
Size	x Pitch (mm)	Order Code	Price Each 1+	5+	10+	20+
3.0 x 4.0 x 5.0 x 6.0 x 8.0 x 10.0	0.7 0.8 1.0	147-2118 147-2119 147-2120 147-2121 147-2122 147-2123	29.51 26.55 28.74 29.56 32.09 42.82	28.92 26.02 28.17 28.97 31.45 41.96	28.34 25.50 27.61 28.39 30.81 41.13	27.78 24.99 27.06 27.83 30.20 40.30

# **HSS Hand Taps Metric**

**Metric Fine** 

Standard ISO 529. Straight flute.

Sets of three

Comprising - 1 each taper, second and bottoming.

					492349
Size x Pitch (mm)	Order Code	Price Each 1+	5+	10+	20+
3.0 x 0.35 4.0 x 0.5 5.0 x 0.5 6.0 x 0.75 8.0 x 1.0 10.0 x 1.0 10.0 x 1.25 12.0 x 1.0 12.0 x 1.25 14.0 x 1.25 14.0 x 1.25 14.0 x 1.5 16.0 x 1.5	147-2096 147-2097 147-2098 147-2099 147-2101 147-2102 147-2103 147-2105 147-2106 147-2107 147-2108	14.84 14.84 14.84 15.63 20.62 20.62 41.96 27.34 21.35 31.11 33.29	14.54 14.54 14.54 14.54 15.31 20.21 20.21 41.12 26.79 26.79 20.92 30.49 32.63	14.25 14.25 14.25 14.25 15.01 19.81 19.81 40.30 26.26 26.26 20.50 29.88 31.98	13.96 13.96 13.96 13.96 14.71 19.40 19.40 39.49 25.74 25.74 20.09 29.27 31.33
18.0 x 1.5	147-2110	46.47	45.54	44.64	43.74

### Price Each 1+ Size x Pitch (mm) Order Code 10+ 20+ 36.95 46.40 42.11 147-2111 39.26 38.47 37.70 20.0 x 1.5 20.0 x 2.0 22.0 x 1.5 24.0 x 1.5 24.0 x 2.0 147-2113 147-2114 147-2115 49.30 44.74 63.78 54.39 48.31 43.85 62.50 47.36 42.97 61.25 52.23 60.03 51.19 53.31 147-2116

# **HSS Metric Coarse Taps Spiral Point**



					492533
Size x Pitch (mm)	Order Code	Price Each 1+	5+	10+	20+
2 x 0.4	147-1859	7.12	6.97	6.83	6.70
2.5 x 0.45	147-1860	5.82	5.71	5.60	5.49
3 x 0.5	147-1861	4.06	3.98	3.91	3.82
3.5 x 0.6	147-1862	4.34	4.25	4.16	4.08
4 x 0.7	147-1863	3.61	3.54	3.47	3.41
5 x 0.8	147-1864	3.83	3.75	3.67	3.60
6 x 1.0	147-1865	3.89	3.81	3.72	3.65
8 x 1.25	147-1866	4.53	4.44	4.35	4.25
10 x 1.5	147-1868	5.62	5.51	5.40	5.28
12 x 1.75	147-1869	7.84	7.69	7.54	7.39
14 x 2.0	147-1870	9.55	9.36	9.18	8.99
16 x 2.0	147-1871	11.78	11.54	11.31	11.08
18 x 2.5	147-1872	16.76	16.42	16.10	15.77
20 x 2.5	147-1873	19.42	19.04	18.66	18.28
24 x 3.0	147-1874	28.53	27.96	27.40	26.86

# **Malleable Tap Wrenches**



				4500	U
Model	Capacity (in)	(mm)	Order Code	Price Each 1+	
0	1/16 - 1/4	1 - 6	147-1887	8.79	
1	1/32 - 3/8	1 - 8	147-1888	8.91	
11/2	1/32 - 1/2	1 - 12	147-1889	10.52	
2	5/32 - 1/2	4 - 12	147-1890	14.42	
3	7/32 - 3/4	5 - 20	147-1891	22.23	
4	7/16 - 1	11 - 24	147-1893	32.29	
5	1/2 - 11/4	13 - 32	147-1894	42.45	

# Adjustable Ball Tap Wrenches DIN 1814



RUKO



Ideal for thread-cutting in inaccessible places. With two-jaw chuck for tensioning square shanks. With steel handles one of which can be unscrewed.

Version: die-cast zinc housing Chuck jaws: hardened Packing unit: individual plastic pack

Thread	Fastens Material for
0	M1 - M8
1	M1 - M10
1 ½	M1 - M12
2	M3,5 - M12
	0 1 1 ½

				240027
			Price Each	40
Mftrs. Part No.	Order Code	1+	5+	10+
241 100	376-050	3.75	3.40	3.15
241 101	376-139	3.99	3.09	2.68
241 112	376-140	4.59	4.41	4.10
241 102	376-220	5.85	5.40	4.90

# **Tap Wrench With Ratchet**



- Version: adjustable left, right, fixed
- Shank: Sliding cross-handle with grooves at both ends
  - Surface: chrome-plated







# **Taps & Dies - continued**

# **Tap Wrench With Ratchet - continued**

Mftrs. Part No.	Size	for hand taps	Length
241001	1	M3-M10	85
241002	2	M5-M12	100
241010	10	M3-M10	250
241020	20	M5-M12	300

			Price Each	
Mftrs. Part No.	Order Code	1+	5+	10+
241001	376-395	7.05	6.75	6.40
241002	376-425	8.90	8.30	7.95
241010	376-541	13.86	13.20	12.44
241020	376-553	18.09	16.77	15.70

# **Ratchet Long Reach**



Collet type with forward/lock/reverse operation ratchet. Ideal for use in difficult areas. Plated finish

							493640
Capacity Length		Length	Price Each			h	
Model	(in)	(mm)	(mm)	Order Code	1+	5+	10+
10	1/8 - 1/4	3 - 6	250	147-1904	15.17	14.87	14.57
20	1/4 - 1/2	6 - 12	300	147-1905	20.06	19.66	19.27

# **Hand Reamer Spiral Flutes**



DIN 206 B/BS 328 Flute geometry 6° Left hand spiral **Bevel lead** 

Application

ferrous metals.

Intended to finish existing holes to H7

tolerance in most ferrous and non-

### Taper lead

2° Included Angle and length 1 1/2 in x Diameter or 19mm Maximum

Surface treatment Blue Flutes, Bright Lands

Range

3 - 30mm, ½ - 1in

# Metric

∅(mm)	Overall Length(mm)	Flute Length(mm)	No Of Flutes	Order Code	Price Each 1+
4.00	76	38	6	138-9470	10.20
5.00	87	44	6	138-9471	10.78
6.00	93	47	6	137-4245	11.36
8.00	115	58	6	138-9472	12.94
10.00	133	66	6	138-9473	15.17

# Fractional

	Overall	Flute	No. Of		Price Each
$\emptyset$ (in)	Length(mm)	Length(mm)	Flutes	Order Code	1+
1/16	52	21	3	138-9468	23.20
1/4	100	50	6	138-9469	11.25

# B101 HSS MOrse Taper Shank Machine Reamer Spiral Flute DORMER



ISO/BS 328 Flute geometry 6° Left hand spiral Bevel lead 45° a side Surface treatment Blue flutes, bright lands Range

# **Application**

For finishing existing holes to H7 tolerance in most ferrous and non-ferrous materials.

# Metric

	Overall	Flute Length	Morse		Price Each	
Size (mm)	Length (mm)	(mm)	Taper	Order Code	1+	
3.00	105	31	1	025-524	19.05	
4.00	106	33	1	025-526	14.34	
5.00	119	44	1	025-528	15.01	
6.00	15	47	1	025-530	15.46	
6.50	130	50	1	025-531	27.00	
7.00	134	54	1	025-532	19.80	
8.00	138	58	1	025-534	16.08	
10.00	146	66	1	025-538	18.35	
11.00	151	71	1	025-540	18.61	
12.00	156	76	1	025-542	19.80	
13.00	156	76	1	025-544	19.70	
14.00	161	81	1	025-546	22.10	
15.00	181	81	2	025-548	24.28	

Size (mm)	Overall Length (mm)	Flute Length (mm)	Morse Taper	Order Code	Price Each 1+
16.00	187	87	2	025-550	24.38
17.00	187	87	2	025-552	32.75
18.00	193	93	2	025-554	27.63
20.00	200	100	2	025-558	34.90
30.00	251	124	3	025-573	89.70

### Fractional

240634

Size (in)	Overall Length (mm)	Flute Length (mm)	Morse Taper	Order Code	Price Each 1+
3/8	146	66	1	025-471	18.35

# Re-Threading Tool



- threads in socket boxes

  Manufactured from from high speed steel and precision ground for a
- Impact resistant handle

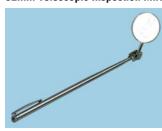
494990.471162

						Price	Each	
Mftrs.	Pitch	Blade	Size	Order Code	1+	5+	10+	20+
List No		Length						
49502	3 0.6mm	50 mm	M3.5	151-8901	4.47	4.33	4.19	4.07
49502	0.7mm	50 mm	M4	151-8903	4.47	4.33	4.19	4.07

# Inspection

### 32mm Telescopic Inspection Mirror





- Chrome finish telescopic shaft with pocket clip
- Extends from 125mm (5") to 463mm (18½")

  Diameter: 32mm (1-¼")

48926.453014 Price Each Order Code 20+ 136-1385 1.59 1.37 1.27 1.19

# **Dental Mirror**



The mirror is set into stainless steel mounts with anodised aluminium handles. A universal balljoint allows the mirror to be easily adjusted to the required angle.

494545 Order Code Туре Magnifying 270-341 15.82

# Inspection Mirror



- **DURATOOL**
- Chrome finish telescopic shaft
- Non slip cushion grip handle
- Extends from 350mm (14") to 750mm (30")
- Mirror size: 50mm (2") x 100mm (4")

482101.453145

			Price Eac	h	
Order Code	1+	5+	10+	20+	50+
144-7565	1.85	1.63	1.48	1.39	1.24

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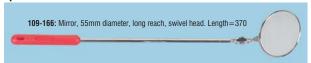




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DRAPER

# **Inspection Mirrors**



Inspection of components and mechanisms in awkward places

	Order Code	Price Each 1+
55mm mirror, long reach, swivel head, insulated handle	109-166	6.41

### **Long Reach Mirror**



- High quality glass lens mirror 30mm diameter
- Flat No 8 lens
- Heavy duty knurled black anodised aluminium handle 235mm long
- Lockable articulated ball joint offers easy adjustment of the mirror angle

					75710	-
			Price	Each		
Mftrs. List No.	Order Code	1+	5+	10+	20+	
187-0094	151-8522	13.16	12.90	12.63	12.49	

### **Insulated Dental Mirror**



- Fully insulated handle and head
- Allows safe inspection of inaccessible areas of equipment carrying low volt-
- Overall length 170mm

							494076
					Price	Each	
Mftrs. List No.	Length	Size	Order Code	1+	5+	10+	20+
187-0043	170mm	No4	151-8514	10.59	10.38	10.16	10.06
187-0064	170mm	No6	151-8517	10.81	10.59	10.37	10.27
187-0065	170mm	No8	151-8518	10.81	10.59	10.37	10.27

# Inspection Mirrors







COIL

ideal-tek

- Small mirrors designed for optical inspection of the hidden corners or of the bottom side of components on boards.
- Typical application is the verification of solder joints and contacts
- Designed for usage in connection with illuminated lenses and magnifiers
- 152-3383: Kit with handle and 1 Square mirror-probe (9.50 mm) straight needle, Side Small rectangular mirror-probe (9.5 x 3.00 mm) 45° angled needle, T-Large rectangular mirror-probe(19.00 x 5.00 mm) 45° angled needle 152-3384: Kit with handle and 1 Square mirror-probe (9.50 mm) straight needle
- 152-3385: Kit with handle and Side Small rectangular mirror-probe (9.5 x 3.0 mm) 45° angled needle
- 152-3386: Kit with handle and T-Large rectangular mirror-probe (19.0 x 5.0mm) 45° angled needle

		Price	e Each
Mfrs List No.	Order Code	1+	3+
EMR HT	152-3383	132.40	125.77
EMR2001001	152-3384	66.86	63.55
EMR2001002	152-3385	66.86	63.55
EMR2001013	152-3386	66.86	63.55

# **Eve Magnifiers**



- Inspection eye magnifiers
- Lens holder is made from a semi-rigid plastic
- Lens is made from a high quality scratch resistant
- optical grade polymer x7 and x4 magnification but can be piggy-backed to aive x28

L=32, Dia.=43

### Mftrs. List No. Price Each 1+ Order Code 5404 201-870 5.07 5408 201-881

# **Loupe Style**



- x3 magnification Loupe style magnifier
- Designed to give optimum magnification, with low distortion at the focal plane

H=30, W=59, D=49

	22117
	Price Each
Order Code	1+
108-339	6.68

# **Focal Plane Magnifier**

Lis

21



- Magnifier for inspecting flat surfaces such as unpop-
- ulated PCBs, print quality or fabric structure
  The lens has x1.7 magnification and is a simple hemisphere made of acrylic

H=30, Dia.=50

221	175

EOIL

Mftrs.		Price Each
List No.	Order Code	1+
5850	267-260	16.01

# High Power, Round



- 50mm x6 magnification bi-aspheric lens of exceptional quality
- Ideal for inspection of PCB soldering. Supplied with a protective pouch

L=135, Lens dia.=50

	Price Each
Order Code	1+
267-259	25.31

# Spectacle, Clip On Magnifier



Mftrs. List No 5206

- Magnifier is designed to clip onto a pair of spectacles
- Can be flipped up out of the line of sight
- Held in place on the spectacle lens by a pair of clips with soft plastic covers
- A high quality optical polymer which is scratch resistant

H=50, W=35, D=11

221180

COIL

	Mftrs. List No.	Order Code	Price Each 1+
x2.5	5328	201-893	20.78
x3.5	5329	201-900	20.66
x4.75	5330	201-911	23.86

# **Magnifiers**







468-1708

plastic housing

- lenses Ø: 24 mm
- exceptional quality









# Inspection - continued

# Magnifiers - continued

Mftrs. List No. 802.01 10X	Description Magnifier 10X, with scale in mm	Dimensions mm 45 x 30 x 40
812.01 8X	Magnifier 8X	36 x 36 x 45
818.01 8X	Magnifier 8X, wide visible area, with scale in mm	45 x 50 x 45

		Price Each			
Mftrs. List No. / magnification		1+	5+	10+	
802.01 10X	468-1680	13.62	13.16	12.75	
812.01 8X	468-1691	6.66	6.33	6.00	
818.01 8X	468-1708	9.52	9.05	8.57	

# **Standard Round Magnifier**





ABS plastic magnifier with a 75mm ∅ acrylic lens

Main lens gives a x2 magnifica-tion with an inset giving a x4 magnification

4	4	5	9	(

		Price Each		
Mfrs List No.	Order Code	1+	5+	
1130P	126-7537	7.09	6.68	

# Handheld Metal Magnifier with LEDs



New



- Up to 12 LED lights with highquality illumination
- Lighting adjustable, min. 6 and max. 12 LÉDs
- Quality 88mm optical glass lens
- Durable, zinc alloy handle
- Easy to transport and store Protective case is included
- Batteries (1.5V x 2 AA), to be ordered separately

52571

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Handheld Metal Magnifier with LEDs	MA-017	166-6223	20.40 1+	19.37 12+	18.35 48+
Battery 1.5V x 2AA	V4006	304-1761	0.58	0.52	0.48

# Work Magnifier





- Magnification of x 1.7 and can be adjusted to suit the user
- Made from optical grade acrylic

### H=205, W=170, D=18

	11-200, 11-110, 5-10		221188
Mftrs. List No.	Order Code	Price Each 1+	
5820	267-272	19.31	

# 700 products added online every week



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# **Magnifier With 2 Arms**



- Rimless Optical Lens Mag-
- nifier with Detail Inset Sturdy Alloy Clamp with Protective Coated Clip holds
- New

ProsKit°

- Magnifier firmly Stands on Desk or Tabletop with Legs Pulled
- Flexible Goose Neck adjusts to any position
- 2 LED Lights can also be used as a Reading Liaht

		E9E710

				Price Each	
Description	Mftrs. List No.	Order Code	1+	5+	10+
Two-Arms Clip/Stand Magnifier	MA-018	166-6224	20.40	19.37	18.35

### **PCB Inspection Magnifiers**



- Integral metric/imperial graticule for direct mea-
- surement of the object Acrylic lens and body
- base cover incorporates 35mm film negative and 35mm slide viewing apertures

Type	Lens Dia	Base Dia	Height (Angled
8X	24mm	74mm	48 - 60mm
5X	24mm	74mm	67 - 80mm
Graticule (5x and 8x)	56g	56g	56g

				Price	e Each	
Mftrs. List No.	Type	Order Code	1+	5+	10+	20+
187-0007	8 x	151-8506	22.35	21.90	21.46	21.23
187-0014	5 x	151-8507	17.95	17.59	17.23	17.05

# **Measuring Magnifier**



- A focusable x10 magnifier, equipped with a 1cm scale divided into 0.1mm graduations
- Suitable for measuring flat surface features

H=40, W=45, D=35

	22118
	Price Each
Order Code	1+
201-960	14 69

# Inspection/Measurement Magnifier



- An ideal inspection tool for quality control
- Eye lens can be focused to accommodate sight irregularities and the focus setting locked if desired
- Base allows light onto the inspection area
  - The field of view is 25mm
- Graticules can be mounted in the base ring
- 0 to 25mm centre zero divided down to 0.1mm

H=57, Dia=40

221182

**Mituto**yo

	Mftrs. List No.	Order Code	Price Each 1+
Magnifier	MAG6	456-962	96.80
0 - 25mm graticule	M6T1	456-974	50.17

# **Pocket Magnifiers**



- Handy instrument for localised magnification
- Ideal for use in the printing

Magnification	Order Code	Price Each 1+	
25x(slim type)	322-8629	56.50	
50x	322-8642	124.00	

### **Monocular Measurement Microscope**





- x20 magnification monocular measuring microscope 4mm measuring eye piece divided into 0.02mm Light weight but robust construction make it ideal for inspection and measurement
- Works well in normal lighting, but fitted with a penlight torch illumination

H = 163

Mftrs. List No.	Order Code	Price Each 1+
P821	456-949	388.93

# PCB Through Hole Inspection



221184



- Maxta PCB through-hole microscope for critical inspection of plated through holes in printed circuit boards
- Inspector has a view of the complete hole, the image is distorted to a bucket (truncated cone) shape
- Should be used in conjunction with a light box
- Faults can be quickly identified such as voids, drill damage, burrs, de-wetting etc.
- Suitable for use on holes 0.5 to 3mm in diameter on boards up to 3mm thick

H=215, Dia.=50

221186		
Price Each 1+	Order Code	Mftrs. List No.
420 02	456-950	P875

# **Monocular Measurement Microscope**





- Lightweight microscope capable of measuring linear and depth
- Fitted with a measuring graticule for linear dimensions and the
- focusing mechanism is graduated for depth measurement
- The microscope is supported on a transparent perspex skirt

H=125, W=40, D=40

Magnification	Measurement	Measurement	Mftrs. List No.	
50	0.02 mm	0.1 mm	2008-50	
			B.C. C. C.	

		Price Each
	Order Code	1+
x 50	201-947	167.03

### Refractometer



Order Code

201-947



Provides accurate read out (strength/mix ratio) of water mix cutting and grinding fluids

Price Each 1+ Order Code Product Number 52060 360-001 211.73

# **Stereo Microscopes**



 High quality stereo microscopes for surface inspection

# Stereo Standard

- Supplied with 2x and 4x objectives and 10x eve piece, top illumination
- Objectives are mounted on a revolving turret with a positive click stop
- Adjustable eyepieces are set at 45°
- positive rack and pinion focussing

### Steren Deluxe

- As above with top, bottom or both lighting options
- Eyepiece turret rotates through 360°

### Stereo Zoom

- 10x magnification lens, 0.65-4.5x stereo objective gives 6.5x45x variable
- Incidental and transmitted light, working distance 95mm

221154

	Mftrs. List No.	Order Code	Price Each 1+
Stereo Standard	59-020-040	722-2294	215.70
Stereo Deluxe	59-020-060	722-2300	260.81
Stereo Zoom	59-020-200	722-2312	545.85
12V 10W Halogen		321-5090	7.15
6V 15W Bulb		321-5120	16.90

### **Microscope Accessories**

Range of lenses suitable for use with the microscopes listed above

221156

	Mftrs. List No. 59-020-042 59-020-045 59-020-046	Description Eypiece 20x for Eyepiece 10x metric scale Magnification Lense 16x	Order Code 722-2348 722-2350 722-2361	Price Each 1+ 21.55 21.55 64.87
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# Microscope 30X





- Give unparalleled sharp and brillant vision with wide field of view with 30X magnification
- Unique built-in light and easy focusing system
- Uses two standard 1.5 V batteries (not included)
- A must for inspection of PC boards and miniature parts

334128 386294

nideal-tek

				Price Each	
	Magnification	Orde Code	1+	5+	10+
Microscope	30X	468-1678	25.87	24.58	23.29

# **Digital Microscope with Rack**

Digital Microscope





Rack AM35B

- Practical Uses
- Quality control in industrial field After-Sales Services
- Technical teleconferences
- Research and science

Studied and designed for a professional use, this digital very compact microscope allows the users all high standard shootings (pictures and videos) even in real time and has a zoom feature that may magnify a picture up to 200 x. Measurements features such as lines, angles, diameters and radius, calibration as well are, on top of the normal features, a plus this small portable microscope may offer.

	Mftrs.			Price Eac	h
Description	List No.	Order Code	1+	3+	5+
Digital Microscope with rack AMITA	413T-A	164-0612	299.00	289.00	279.00
Rack	AM35B	164-0613	115.00	109.00	99.00





494282

08447 11 11 11

# **Calipers**

# 150mm Digital Caliper

# **DURATOOL**



- LCD, internal/ external measurement
- True mm/ inch conversion
- Thumb roll for fine adjustment Supplied in fitted case with spare battery

Measuring Capacity 15	0mm (6")
-----------------------	----------

0.01mm

52821	.423831	

	Price	e Each
Order Code	1+	5+
131-5135	21.32	19.22

# **Carbon Fibre Digital Caliper**

# **DURATOOL**



Manufactured from extra strong carbon fibre composites

Graduation

- LCD, internal/external measurement
- True mm/inch conversion
- Lightweight and durable

Measuring Capacity	
Graduation	

462357.462354

150mm0- (6")

0.1mm

	Price Each				
Order Code	1+	5+	10+	20+	
134-1278	10.11	9.59	8.96	8.22	

# **Digital Plastic Calliper**









762-3615



762-3623

- Non-metallic high-tec material with 60% fibre-glass content, extremely high rigidity. Is used, for example, as replacement for metal die-casting alloys
- Extremely wear-resistant measuring jaw for precise measurements in the long-term
- Non-corrosive, non-magnetic, hardly conductive and electrically insulated
- Resistant to chemicals (organic solvents, alkalis, petrol, oil, grease, etc.) Materials fulfil EU guidelines for contact with food
- Thermal stability of the measuring surfaces: short-term up to 180°C, continuous 100-
- Practical ratchet guarantees uniform clamping force of the measuring jaw
- Unlike metallic callipers, prevents damage to delicate surfaces

345775

				Price Eacl	h
Description	Measuring Range, max.	Order Code	1+	5+	10+
digiMax	150	762-3607	55.95	50.87	46.64
dialMax	150	762-3615	17.59	15.99	14.67
caliMax	150	762-3623	12.70	11.55	10.58

### **Digital Calipers** Metric/Imperial



- Mitutoyo
- The most advanced caliper yet ABSolute Zero setting function
- Zero point at any position, deviation from a nominal (±) can be read directly
- Non-contact linear measuring system unaffected by electrical or magnetic interference
- Manufactured from fully-hardened stainless steel
- Imperial/metric switchable
- Automatic wear compensation
- Fully portable
- Positive locking clamp
- Operating temp. range 0-40°C
  Oil and dust-resistant suitable for workshop use
- Data output, absolute and incremental operation modes incorporated into 715-5633

This is the latest version of the digimatic caliper in the 500 series. It has all the features of its predecessor with the addition of absolute zero origin point set anywhere within the measuring range, larger clearer display, single chip electronics and a new slim profile. For outside, inside, depth and step measurements.

Range	Resolution	Mftrs. List No.	Order Code	1+	Price Each 3+	12+
150mm/8"	0.01mm/0.0005"	500-171-21	559-507	124.00	117.80	102.48
200mm/8"	0.01mm/0.0005"	500-172-21	715-5633	153.00		
300mm/12"	0.01mm / 0.0005"	500-173.	166-7281	285.00	269.00	

# **Electronic Digital Calipers**

Digimatic Caliper With Absolute™ Encoder



### **Mituto**yo ABSOLUTE"

The Absolute™ MyCal E-Z allows direct measurement from power on. You can forget the time consuming origin setup which otherwise is required each time the power is turned on. Large .295" high LCD digits allows measurement results to be at a glance.

491486

			Price Each
Measuring Range	Resolution	Order Code	1+
0-6"/0-150mm		152-1216	84.25

# **Digital Caliper** Metric/Imperial



- **Mituto**yo

- Large LCD display
- Imperial/Metric conversion
- Origin Setting
- Zero setting/ABSolute Feature
- Data hold available (optional switch required)
- Data output Lock nut
- Measurement applications: Large external and internal jaw capacity caliper with SPC data output

525729

		Mftrs.	Order Code		Price Each	
Range	Resolution	List No.		1+	3+	+
450mm/18"	0.01mm / 0.0005"	500-505-10.	166-7283	489.00	459.00	

# **Digital Caliper** Metric/Imperial





New





- Water, Oil, Dust, Coolant and Submersion resistance (on IP67 model)
- Imperial/Metric conversion
- Large LCD Display Origin Setting
- ABSolute feature
- Error free with no overspeed error
- Auto power on/off
- Incorporates Quadri Feature
- Lock Nut
- Thumb Roller

		Mftrs.	Order Code		Price Each	
Range	Resolution	List No.		1+	3+	+
150mm/6"	0.01mm (0.0005")	500-752-10	166-7284	95.00	90.25	

# **Digital Caliper** Metric/Imperial





**Mitutoy**o

- Water, Oil, Dust, Coolant and Submersion
- resistance (on IP67 model)
- Data Output
- Imperial/Metric conversion
- Large LCD Display
- Origin Setting
- ABSolute feature
- Error free with no overspeed error

Auto power on/off

- Incorporates Quadri Feature
- Lock Nut
- Thumb Roller

Measurement applications: Superb resistance to Water, Oil, Dust and Coolant, making it ideal for tough workshop applications

MAHR

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		Mftrs.	Order Code		Price Each	
Range	Resolution	List No.		1+	3+	+
150mm/6"	0.01 mm (0.0005")	500-762-10	166-7285	128.00	119.95	

# **Digital Calipers**



Measuring Range

150(6")

Functions include: ON/OFF, reset, mm/inch

- High contrast 7.5mm LCD display
- Slide and beam made of stainless steel, hardened
- Suitable for depth, inside and step measurement
- Locking screw

Supplied in carry case Resolution

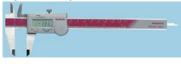
Frror Limit (DIN 862) 0.03(0.0015")

230927

		Price Each
	Order Code	1+
caliper (no data output)	324-1040	102.14

0.01(0.0005")

# **Digimatic Caliper**



Digimatic caliper suitable for general use. Features include

instant mm/in conversion, zero in any position

Capacity					Price Each
(mm)	(in)	Resolution	Accuracy	Order Code	1+
150	6	0.01mm/0.0005in	±0.03mm	147-1323	37.32

# **Precision Tools** Digital Workshop Caliper



Large 7.5mm character height digital display,

Accuracy: 0.02mm Repeatability: 0.01mm,

Functions: mm/in conversion, on/off, zero setting, low battery indicator, DIN862 specifica-

						488957
	Price Each					
Model	Capacity	Order Code	1+	5+	10+	20+
M11015DDL	0-150mm/6in	137-6783	40.48	37.58	35.08	32.89
M11020DDL	0-200mm/8in	137-6784	69.46	64.49	60.20	57.51
M11030DDL	0-300mm/12in	137-6785	114.76	106.56	99.45	93.24

# Caliper

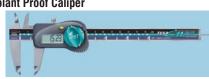


# **TESA Shopcal Caliper**

0-150 mm measuring range. Metric/Inch conversion. Thumbwheel as standard. ABSolute/ Incremental functions. 0.01mm/0.0005in resolution. Single button operation. Large 7mm easy to read display. Certificate of conformity..

		494623
		Price Each
Description	Order Code	1+
TESA SHOPCAL 150mm	101-1811	65.92

# **CAL IP67 Coolant Proof Caliper**



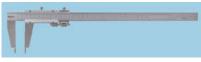
"The world's first caliper with 100% protection against oil, coolant, and dust" 100% protection against oil, coolant and dust. Patented magnetic scale. 0-150 mm measuring range. 0.01mm/0.0005in resolution. 7mm LCD display. Metric - Inch conversion. With thumbwheel. Swiss-made precision and high quality construction.

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Description	Order Code	Price Each 1+
TESA CAL ip67 150mm without wheel	101-1812	109.90
TESA CAL IP67 150mm with wheel	101-1813	100.84
TESA CAL IP67 200mm with wheel	101-1814	168.40

# **Heavy Duty Vernier Caliper**

### Metric/Imperial





**Mituto**yo

- Clear graduations on satin chrome finish
- Beam and slide made of hardened stainless steel
- Thumb wheel and locknut
- Heavy duty vernier caliper
- Fine adjustment
- Round-faced jaws for measuring inside dimensions

		Mftrs.	Order Code		Price Each	
Range	Resolution	List No.		1+	3+	+
600mm/24"	0.02mm / 0.001"	160-103.	166-7288	319.00	299.00	

# Vernier calipers

# Mitutoyo



- Plain and basic design
- Can measure OD (outside diameter), ID (inside diameter), depth and steps
- The small vernier face angle (14°) provides
- Carbide-tipped jaw type calipers are also available
- With depth gauge
- Measuring surface and nonius satin chrome finished
- Reading: 0,02 mm
- Supplied with a holster

						4//0	5/4
			Order		Price Each		
Range	Jaw length	Mftrs List No.	Code	1+	5+	10+	
0-150mm	40mm	530-122	441-5759	19.47	19.00	18.56	
0-200mm	50mm	530-123	441-5760	32.72	31.96	31.23	
0-150mm	40mm	530-104	441-5772	35.40	33.65	32.91	
0-200mm	50mm	530-114	441-5784	45.70	44.64	43.61	

# Type Caliper

# Series 530





Standard type caliper for general purpose external, internal, depth and step measurements.

Measuri	ing range			Jaw		Price Each
(mm)	(in)	Resolution	Accuracy	length	Order Code	1+
0-150	0-6	0.02mm/ 0.001in	$\pm 0.03$ mm/ $\pm 0.0015$ "	40mm	715-6080	35.40
0-200	0-8	0.02mm/ 0.001in	$\pm 0.03$ mm/ $\pm 0.0015$ "	50mm	715-6091	50.90
0-300	0-12	0.02mm/ 0.001in	±0.04mm/ ±0.002"	64mm	321-6299	139.00







# **Calipers - continued**

# **Vernier Calipers**

# **Mituto**yo



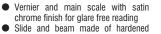
- Design accommodates external, internal, depth, and step measurements Range of high quality instruments
- with metric and imperial scales

Maximum	Mftrs.			Price Each	
Measurement	List No.	Order Code	1+	3+	6+
150mm (6") 180mm (7")	531128 532120	715-5890 457-358	36.95 59.60	35.10 56.60	33.80 53.26

# **Vernier Calipers**

### MAHR

230917



- stainless steel Locking screw on top
- Raised sliding surfaces for protection of the scale
- Measuring blades for inside measure-
- Step measuring function Supplied in plastic case

Measuring Range 150mm/6

Readings mm/1/128

Error Limit (DIN 862) 0.05mm

Order Code 39 42 324-1063

# **Dial Caliper** Metric

# **Mituto**yo



- Wear resistant and easy moving
- High precision
- Easy to read
- Made from stainless steel High precision jewelled bearing mechanism
- Clear graduations on satin chrome finish
- Thumb wheel and locknut
- Incorporates Quadri feature

-0-0
5258

			Mftrs.	Order Code		Price Each	
Range	Graduation	Accuracy	List No.		1+	3+	12+
0-150mm	0.02mm	±0.03mm	505-671	715-6121	60.595	59.186	56.556
0-200mm	0.02mm	$\pm 0.03$ mm	505-672.	166-7290	109.000	103.550	
0-300mm	0.02mm	±0.04mm	505-673.	166-7291	186.000	176.700	

# **Vernier Depth Gauge** Metric

# **Mituto**yo

New



- Measures the depth of bores, recess es and steps
- Main and vernier scales satin chrome plated
- The measuring faces and guideways are hardened and
- micro-lap finished
- Stainless
- Standard model
- Fine adjustment
- Clear graduations on satin chrome finish

### 525803 Mftrs. Order Code Price Each Range Resolution List No. 1+ 0.02mm/0.001" 0.02 mm/0.001" 527-101 527-103 0-150mm 0-300mm 166-7286 75.55 115.00 71.75 109.00 166-7289

# Digimatic Depth Gauge Metric/Imperial



- One-time settings of origin that holds until the battery is changed
- or the origin point is reset Guaranteed precision even with
- high speed movements
- Large-digit display for easy reading
  Rustless, hardened and lapped measuring faces
- Imperial/Metric conversion
- Zero setting/ABSolute feature
- ABSolute feature allows caliper to retain origin setting even when switched off
- Error free with no overspeed error
- Data hold available (optional switch required)
- Data output
- Lock nut
- Base width: 100mm
- Length: 237mm

		Mftrs.	Order Code		Price Each	
Range	Resolution	List No.		1+	3+	+
0-150mm/0-6"	0.01mm / 0.0005"	571-211-20	166-7287	269.00	255.00	

# **HDS Digimatic Height Gauge**

# **M**itutoyo

Mitutoyo

New



Robust construction with thick column providing highly repeatable height measurement and stability.

- Fine adjustment
- Clear LCD screen for error free reading
- Tungsten Carbide tipped scriber
- Imperial/Metric conversion Zero/ABSolute
- Presetting
- Direction change
- Data Hold
- Data output

Measuring		Height	В	ase (mm	)	Mftrs.
Range 0-300 mm/0-12"	Accuracy ±0.03 mm/0.0015"	(mm) 507	Lenght 160	Width 122	Height 72.6	List No. 570-312 526012
Mftra Liat Na	Order Code 1		Price Eac	ch	-	

Price Each						
	Mftrs. List No.	Order Code	1+	3+	5+	
	570-312	166-7331	369.00	349.00	330.50	

### Tyre Tread Depth Gauge





Complies with EC Directive 89/459/ EEC. 1.6mm marking.

		Price Each
Model	Order Code	1+
TDG16C05	280-479	2.39

# **Micrometers**

# Mitutoyo





Ultra-Fast and Water resistant, this ground breaking Micrometer is suitable for use in areas when there is a high risk of coolant splash. Large LCD display for error free external measurements

# Features:

- Ultra-Fast Measurement
- Large LCD display.
- Imperial/Metric conversion





- Origin setting and Zero setting
- Data hold and Data output
- Auto power off
- IP65 Rated
- Tungsten Carbide tipped measuring faces
- Accuracy:  $\pm 1\mu$ m

Range	Resolution	Mftrs. List No. <b>C</b>	order Code	1+	Price Each 3+	+
	0.001mm / 0.00005"		166-7339	149.00	141.55	
25-50mm/1-2"	0.001mm / 0.00005"	293-186	166-7340	205.00	194.75	

# **Digimatic Outside Micrometer** Metric/Imperial



- External screw type micrometer with large digit display, 1  $\mu$ m resolution
- Imperial/Metric conversion
- Origin setting and Zero setting
- Data hold and Data output
- Auto power off
- Tungsten Carbide tipped measuring faces
- Type R = Ratchet IP65 Rated

						323031
Range	Resolution	Mftrs. List No.	Order Code	1+	Price Each 3+	12+
0-25mm	0.001mm	293-230	441-5930	184.00	174.80	
25-50mm	0.001mm / 0.00005"	293-331	166-7292	195.00	185.25	
50-75mm	0.001mm / 0.00005"	293-332	166-7293	224.00	212.00	
75-100mm	0.001mm / 0.00005"	293-333	166-7295	239.00	225.00	

# **Digimatic Outside Micrometer** Water Resistant



- External screw type micrometer with large digit display, 1  $\mu$ m resolution
  - New
- Imperial/Metric conversion
- Ratchet thimble type

- Origin setting
- Auto power off
- IP-65 Level Water resistance
- Tungsten Carbide tipped measuring faces

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Range	Resolution	Mftrs. List No.	Order Code	1+	Price Each 3+	+	
0-25mm	0.001mm / 0.00005"	293-334	166-7296	184.00	174.00		

# Water Resistant





- Imperial/Metric conversion
- Origin setting Auto power off
- IP-65 Level Water resistance
- Tungsten Carbide tipped measuring

Offers very latest in high-speed digital measurement

Covers 30mm range in only 3 thimble revolutions

designs

Range

16 times faster than conventional

Resolution

		Mftrs.			Price Each	
Range	Resolution	List No.	Order	1+	3+	12+
			Code			
0-25mm/0-1"	0.001mm / 0.00005"	293-344	106-718	124.00	118.00	109.54
25-50mm/1-2"	0.001mm / 0.00005"	293-345	166-7297	173.00	164.00	

# **Quickmike Micrometer**



- Absolute feature for error-free operation
- Ideal for production applications
- 0-30mm 0-1.2" 0.001mm 0.00005" Can be connected to an SPC data processor Measuring force 5-10N

### 221195,401286 Price Each 1+ Mftrs. List No. Order Code 293-676 715-6327 219.00

### Imperial/Metric

525857

**Mitutoy**o

**Mituto**yo



# **Mitutoyo**

- Large LCD display
- Imperial/Metric conversion
- 215g lightweight construction Vernier Sleeve
- Easy single handed operation
- Tungsten Carbide tipped measuring faces
- Accuracy:  $\pm 2\mu m / \pm 0.0001$ "

Mftrs Price Fach List No. Range Resolution Order 12+ Code 0.001mm / 0.00005" 293-832 321-6238 79.95 75.95 72.94

### Imperial/Metric



New

**Mituto**yo

**Mituto**yo

New

- Digital display allows quick easy depth measurements
- Large LCD display
- Ratchet performs uniform and consistent readings
- 4mm diameter measuring rods
- Imperial/Metric conversion
- Zero setting
- Data hold and Data output
- Spindle lock
- Auto power off
- Accuracy:  $\pm 3\mu$ m Base size: 100x16mm

						525855
		Mftrs.			Price Each	
Range	Resolution	List No.	Order Code	1+	3+	+
0-150mm/0-6"	0.001mm / 0.00005"	329-350	166-7298	369.00	349.00	

# **Outside Micrometer**



- External screw-type micrometer with combined ratchet stop.
- Consistent measuring force due to combination ratchet design of thimble and speeder
- Ideal for single-handed operation
- Heavy duty version available Carbide tipped measuring faces
- Clear graduations on satin chrome finish
- Spindle lock
- Frame is fitted with heat shields
- Accuracy:  $\pm 2\mu$ m

							525924
Range	Graduation	Mftrs. List No.	Order Code	1+	Price Each 3+	+	
0-25mm	0.01mm	102-701	441-5899	48.35	45.95		
0-25mm	0.001mm	102-707	166-7299	53.90	51.20		

# Micrometer



- Suitable for all external measurements in either workshop or inspection
- departments Enamelled frame
  - Tungsten Carbide tipped measuring faces
  - Clear graduations on satin chrome finish

Range	Type	Graduation	Accuracy	Mftrs.List No.
-	Ratchet / Friction		-	
Imperial				
0" - 1"	F	0.001"	±0.0001 "	103-127
0" - 1"	R	0.001"	±0.0001 "	103-177
0" - 1"	R	0.001"	±0.0001 "	103-131
0" - 1"	F	0.0001"	±0.0001"	103-135
1" - 2"	R	0.0001"	±0.0001"	103-132H
1" - 2"	R	0.001"	±0.0001 "	103-178H
Metric				
0 - 25mm	F	0.01mm	$\pm 2\mu m$	103-125
0 - 25mm	R	0.001mm	±2µm	103-129
0 - 25mm	R/F	0.01mm	$\pm 2\mu m$	103-137
25 - 50mm	R	0.001mm	± 2μm	103-130H
25 - 50mm	R	0.01mm	± 2μm	103-138H.
50 - 75mm	R	0.01mm	±2µm	103-139-10H
50 - 75mm	R	0.01mm	±2µm	103-139-10H





**Mituto**yo

# Micrometers - continued

### Micrometer - continued

				525927
Mftrs. List No.	Order Code	1+	Price Each 3+	5+
Imperial				
103-127	166-7302	36.85	35.00	33.18
103-177	166-7310	36.00	34.20	
103-131	166-7305	41.50	39.45	
103-135	166-7307	48.25	45.85	
103-132H	166-7306	53.90	51.20	
103-178H	166-7311	48.45	46.05	
Metric				
103-125	166-7301	36.85	35.00	
103-129	166-7303	41.50	39.45	
103-137	457-371	35.95	34.15	30.56
103-130H	166-7304	53.90	51.20	
103-138H.	166-7308	48.45	45.95	
103-139-10H	166-7309	63.95	60.75	

# **Fixed Rod type Depth Micrometer**





- Ideal for general depth measurement
- 4mm diameter measuring rod
- 2 base sizes available
- Ratchet performs uniform and consistent
- Clear graduations on satin chrome finish
- Accuracy:  $\pm 3\mu m$

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							0200	00
Range	Resolution	Base Size	Mftrs. List No.	Order Code	1+	Price Each 3+	5+	
0-25mm 0-1"		60 x 16mm 2.5" x 0.63"			70.90 70.90	67.35 67.35	63.78 63.78	

### Metric/Imperial

# **Mituto**yo

New



- Flexible depth measurements over a wide range with interchangeable rods
- 4mm diameter measuring rod
- 2 base sizes available
- Ratchet performs uniform and consistent readings
- Clear graduations on satin chrome finish
- Zero adjustable thimble
- Accuracy:  $\pm 3\mu m$

	soct in Jahre				
Range <b>Metric</b>	Base Size	Graduation	Number of rods	Mftrs.List No.	
0 - 75mm 0 - 150mm <b>Imperial</b> 0 - 3" 0 - 6"	60 x 16 mm 100 x 16mm 2.5 x 0.6" 4.0 x 0.63"	0.01mm 0.01mm 0.001" 0.001"	3 6 3 6	129-110 129-116 129-126 129-132	525959
Mftrs. List No.	Order Code	1+	Price Each 3+	5+	
Metric 129-110 129-116	166-7315 166-7316	103.00 139.00	97.85 129.95	92.66 123.06	

# **Troubleshooting tips**

103.00 139.00



Imperial 129-126 129-132

> Chat live online to one of our technical engineers at www.farnell.co.uk

97.85

129.95

# Large Range Extension Rod Inside Micrometer





- Wide measuring range with interchangeable anvils which are hardened and ground Lightweight but rigid
- Clear graduations on satin chrome finish
- Accuracy:  $\pm (6+L/50)\mu m$



Measuring Range Graduation Stroke Number of rods Spacing collars Mftrs.List No. 25-50mm 0.01mm 1 (6 mm) 141-101. 7 mm

Mftrs.			Price Each	
List No.	Order Code	1+	3+	5+
141-101.	166-7319	75.95	72.15	68.33

### Metric/Imperial

# Mitutoyo





- Digital, non-rotating spindle, high-resolution type provides a solution for precision positioning applications unmatched by analogue heads.
- The clear, easily read digital display promotes fast, error-free reading
- Large LCD display
- IP65
- Imperial/Metric conversion
- Readings can be held in display as long as required using the Hold function and the Preset function allows a previously set value to be recalled and used as measurement datum instead of zero
- Zero setting

Measuring Range

- Data hold and Data output
- Tungsten Carbide tipped measuring faces Graduation

U-25IIIII/U-1"	0.00111111/0.0	0005"	2μm	0.375"	30U-30 I	
						525988
Mftrs.			Р	rice Each		
List No.	Order Code	1+		3+	5+	
050 051	400 -000	100.00		15100	4.45.04	

Accuracy

Stem Ø

# Metric

# **M**itutoyo

Mftrs.List No.





525989

- Standard type Micrometer Head
- Clear graduations on satin chrome finish

		Mftrs.			Price Each		
Range	Graduation	List No.	Order Code	1+	3+	5+	
0-13mm	0.01mm	148-104	166-7321	35.50	33.75	31.93	

# Metric

# **Mituto**yo



- Miniature Micrometer Head for incorporating into small jigs and fixtures
- Clear graduations on satin chrome finish
- Accuracy:  $\pm 5\mu$ m

						5259	)(
		Mftrs.			Price Each		
Range	Graduation	List No.	Order Code	1+	3+	5+	
0-6.5mm	0.01mm	148-201	166-7322	34.80	33.05	31.33	



92.66

123.06

166-7317 166-7318

# Metric



**Mitutoy**o

- Standard Type Micrometer Head
- Zero adjustable Thimble

Clear graduations on satin chrome finish

Accuracy: ± 2μm	525992

		Mftrs.			Price Each	
Range	Graduation	List No.	Order Code	1+	3+	5+
0-13mm	0.01mm	148-503	166-7323	36.45	34.65	32.85

### Metric

# **Mituto**yo





- Standard Type Micrometer Head
- Clear graduations on satin chrome finish
- Zero adjustable Thimble
- Accuracy:  $\pm 2\mu m$
- Supplied with spindle lock and set nut

Price Each Graduation List No. Order Code Range 0-13mm 0.01mm 148-504 166-7325 42.35 40.25 38.12

# Micrometer Heads



Accurate to BS1734. For use in jigs, fixtures or precision measuring instruments.

					409301
			Price	Each	
Description	Order Code	1+	5+	10+	20+
0 - 13mm graduations 0.01mm. Fitted with ratchet but not locknut 0 - 25mm graduations 0.01mm.	137-6781	43.92	40.78	38.06	36.19
Fitted with ratchet and locking screw	137-6782	42.08	39.08	36.47	34.68

# for Standard Outside Micrometers

# **Mitutoyo**

New



- Designed specifically for use with Mitutoyo Standard Mi-
- crometers up to 100mm/4" Cast iron, attractively enamelled with clamping jaws displaceable in a parallel direc-
- Adjustable angle type
- Ideal for bench use

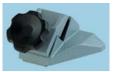
						020010
Height (mm)	Lenght (mm)	Mftrs. List No.	Order Code	1+	Price Each 3+	5+
102.15	139.5	156-101	166-7332	29.70	28.20	26.76

# for Standard Outside Micrometers

# **Mitutoy**o

New

526020



- Designed specifically for use with Mitutoyo Digimatic Micrometers up to 50mm/2'
- Cast iron, attractively enamelled with clamping joints
- Fixed angle type
- Inclination fixed at 45°
- Ideal for bench use

Height	Lenght	Mftrs.			Price Each	
(mm)	(mm)	List No.	Order Code	1+	3+	5+
63	97	156-105	166-7333	23.30	22.15	20.95

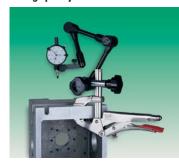
# **Blue Micrometer Marking**



- The paste shows an easily visible bright mark on all metal parts
- It transfers easily from one surface to another and is ideal for marking mating parts
- Non abrasive and does not affect the skin, it can be wiped off metal parts and is soluble in soap, detergent and water

		Price Each
Description	Order Code	1+
Small tin	311-232	2.09
Tube	311-233	2.78

# Flexigrip Major



# **Mituto**yo

- A heavy-duty clamp fitted to a unijoint arm for versatile gauging applications
- Detachable clamp can be used independently from arm
- Suitable for stands and workholding
- Holds stem sizes 8mm/¾

Indicator sold separately

Mftrs. List No.	Order Code	Price Each 1+
7019-001	715-7095	194.00

# **Magnetic Base**



# **LINEAR TOOLS**

- Segmented snake arm can be locked in any position Provides clamping for plunger and lever indicators between ¼" and ½" ∅
- Fitted with a powerful magnetic base which has 80 kg pull

Indicator supplied separately

221228

		Price Each
Mftrs. List No.	Order Code	1+
MB-SX	716-1384	71.25

# **Magnetic Bases And Stands**







Primarily for holding dial gauge indicators. Vee slot on base facilitates gripping on curved surfaces.

# Model E903CP

Push button switching magnetic base with backlug adaptor style clamp 8mm(1/4in). Pillar 185mm high x 12.5mm, crossbar 150mm long x 6.3mm diameter. Maximum pull 30kg.

	Price Each
Order Code	1+
232-108	66.05

### Model E906

Toggle switching type magnetic base with fine adjusting fitment. Universal clamping mechanism. Pillar 200mm high x 14mm diameter, crossbar 175mm long x 10mm diameter. Maximum pull 50kg.





08447 11 11 11

# **Micrometers - continued**

# **Magnetic Bases And Stands - continued** Model E903CP - continued

	Price Eac
Order Code	1+
030-490	49.49

# **Indicators and Magnetic Stands**

# **Digimatic Indicators**

# Mituto yo



- Absolute function
- Inch/metric conversion
- Zero/ABS
- Preset
- Tolerence setting
- Counting direction change
- On/off button
- Data output
- Bezel rotates 330°
- Large clear LCD for error-free reading

221	199	40	12

Mftrs. Order Price Each			e Each			
	Range	Resolution	List No.	Code	1+	3+
	0-12.7mm/0.5"	0.001mm/0.00005"	543-251B	715-6790	239.00	
	0-25mm/1"	0.001mm/0.00005"	543-451B	715-6807	399.99	
	0-12.7mm/1"	0.01mm/0.00005"	543-271B	166-7326	175.00	166.00

# Digital Display "Dial" Indicator

# **Mituto**yo



- IDS type Digimatic indicator is a plunger style comparative measuring gauge
- LCD readout and SPC connectability
- Splash proof construction with membrane sealed buttons
- Readout is metric or Imperial in the range 12.7mm (0.5") with a resolution of 0.01mm (0.0005")

Mftrs.	Order		Price Each	
List No.	Code	1+	3+	6+
543-682	457-449	90.65	86.10	84.38

# **Digimatic Indicators**

# Mituto yo

221164



- One-time setting of origin that holds until the battery is changed or the origin point is reset.
- Guaranteed precision even with high speed movements
- Large digit display for easy reading
- Slim compact low cost design
- ABSolute feature
- Imperial/Metric conversion
- Zero set
- On/Off
- Direction change Data output
- Accuracy: 0.02mm
- Supplied with 1 Battery SR-44, life approximately 1 years continuous

						32399	0
		Mftrs.	Order		Price Each		
Range	Resolution	List No.	Code	1+	3+	5+	
25.4mm/1"	0.01mm (0.0005")	575-123	166-7327	122.00	115.90	109.76	

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### Metric Dial Indicator





Water resistant for harsher environments where Indicator is liable to be splashed

Measuring Range 0-10mm Graduation Accuracy Scale Range per revolution Mftrs List No. 0.01mm ±13µm 0-100 (100-0)

Mftrs.			Price Each	
List No.	Order Code	1+	5+	10+
2046S	441-5980	28.25	26.85	26.21

### **Metric Dial Indicator**

# **Mituto**yo



Conventional size, easy to read Indicator for most general applications Features:

- **Revolution Counter**
- Limit Hands
- Jewelled
- Accuracy: ± 5μm

Measuring Range	Graduation	Scale	Measuring force	Range per revolution	Mftrs. List No.
0-1mm	0.001mm	0-100-0	1.5N	0.2mm	2109S-10
					525997

			Price Each	
Mftrs. List No.	Order Code	1+	3+	5+
2109S-10	166-7328	60.35	57.35	54.31

# Single Revolution Dial Indicators

# **Mituto**yo



Dedicated short range, balanced Dial Indicator for applications to suit.

- Single revolution Dial Indicator with a damping mechanism for improved shock resistance
- One piece moulded case and back provides superior resistance to splashing
- Lightweight in design All these indicators can be fitted with optional backs
- Accuracy:  $\pm 12\mu m$

Measuring Range 1mm	Graduation 0.01mm	Scale 50-0-50	Measuring force 1.4N	Range per revolution 1.4mm	Mftrs. List No. 2972 526000	0
Mftrs. List No.	Order Code	1+		Price Each 3+	5+	

### 166-7329 26 65 25 26 2972 28 05

# **Dial Indicators**

# **Mituto**yo



Where access is restricted. Machine Tool settings or for comparative measurement with Height Gauge/stand.

- Face diameter 39mm
- High sensitivity and quick response from jewelled bearings Non clutch type for automatic reversal of measuring direction
- One piece bezel and crystal fitted with 'O' ring to resist water and
- Scratch resistant, glare free crystal
- Supplied with Tungsten Carbide tipped contact point
- With Dovetail mounts
- T Suffix products supplied as sets containing Indicator and a range of accessories





Measuring F	Range	Graduation	Reading	Accuracy	Mftrs. List No.
0.8mm 0.8mm		0.01mm 0.01mm	0-40-0 0-40-0	8μm 8μm	513-404E 513-404T
					526009
				Price Each	
Mftrs. List No.	Order Code	1+		3+	5+
513-404E 513-404T	166-7330 441-6053	64.70 78.25		61.45 74.35	58.19 72.64
313-4041	441-0000	10.23		74.00	12.04

### **Dial Gauges**



Dial size 60mm/21/4in diameter. Fitted with standard lug back fitting, hardened and ground racks, adjustable dial, bezel lock and tolerance pointers.

### Metric

Reading (mm)	Travel/ Rev (mm)	Total Travel(mm)	Graduations	Order Code	Price Each 1+
0.01	1.0	10.0	0 - 100	137-5877	16.03
0.01	1.0	25.0	0 - 100	137-5879	17.02

# Imperial

					495303
Reading (in)	Travel/ Rev (in)	Total Travel in)	Graduation	Order Code	Price Each 1+
0.001 0.001	0.1 0.1	0.5 1.0	0 - 100 0 - 100	137-5990 137-5992	16.03 17.02

# **Magnetic Stand**

# **Mitutoy**o



- Magnetic base stand suitable for most Mitutoyo dial indicators
- The indicator can be lug or stem mounted (stem 8mm dia.)
- Powerful magnetic base has an on/off lever preventing damage to delicate surfaces

Overall height=220mm. Maximum reach = 145mm

					221142
Mftrs List No. 7010SN	Order Code 457-450	1+ 52.25	Price 3+ 49.65	<b>Each</b> 6+ 47.17	12+ 44.48

# Flexible Magnetic Stand

# **Mitutoy**o

New



- Flexible Magnetic Stand
- Adjustable segments connected with steel cable
- Cable locked with lever at bottom of base
- On/off lever to release the magnet
- Suitable for stem diameters of 6mm, 8mm and 3/8" 60kgf Magnetic Pull

Working radius ca. 250mm	Total height 393mm	Fine adjustment 1.5mm	Base size 50x60x55mm	Mftrs.List No. 7012-10
Mftrs. List No. <b>Orde</b>	er Code	1+	Price Each 3+	5+
7012-10 166	-7334	109 00	103 55	98.06

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# Mini Magnetic Stand



# **Mitutoy**o

New

- Mini Magnetic Stand for tight applications
- Permanent Magnet Ideal for Dial Test Indicators with 6mm or 8mm diameter stems or dovetail
- 15kgf Magnetic Pull

						526054
	Mftrs.			Price Each		
Total lenght	List No.	Order Code	1+	3+	5+	
02mm	7014	166-7335	47.80	45.40	43.04	

# **Articulated Magnetic Stand**

# **Mituto**yo



- Uni joint stand sections fixed by means of hydraulic clamping
- Suitable for stem diameters of 8mm and 3/8"
- 60kgf Magnetic Pull

Working radius ca. 320mm	Total height 420mm	Fine adjustment ±5°	Base size 50x60x55mm	Bore for dial indicator stem ⊘8mm/⊘0.375	Mftrs. List No. 7019B
					020102
Mftrs.				Price Each	
List No.		Order Code	1+	5+	10+
7019B		427-3436	127.00	119.95	117.19

# **Thickness Gauges**

# Thickness Gauge

# **Mituto**yo Compact pocket sized Digimatic thickness gauge

- Inch/metric conversion Measuring faces are hardened, ground and Ideal for measuring paper, leather, plastic,
- sheet metal and film

Resolution	Measuring Range	Accuracy	Mftrs List No.
0.01mm	0-12mm	±0.02mm	700-118
0.00005"	0-05"	±0.001mm	

				220011
		Price	Each	
Order Code	1+	+	+	+
321-6342	56.20			

# Metric

# **Mituto**yo



Allows simple, quick and accurate thickness measurement.

- Thumb lever to lift spindle
- Flat anvils made of ceramic
- Bezel is adjustable for easy zero setting

Graduation 0.01mm	Range 0-10mm	Throat Depth 30mm	Measuring Force 1.4N	Mftrs.List No. 7014	526056
Mftrs. List No. 7014	Order Code 166-7335	1+ 47.80	<b>Price Each</b> 3+ 45.40	5+ 43.04	
Over	QG	0			







# **Pocket thickness Gauge**



Ideal for measuring paper, leather, plastic, sheet metal and

New

Mitutoyo

- Compact pocket sized thickness gauge
- Preloaded spindle to provide a constant 0.2N (or less) measuring force
- Measuring faces are hardened, ground and lapped
- Easy zero adjustment
- Accuracy:  $\pm 20\mu m$

526057

				Price Each	
Resolution	Range	Order Code	1+	3+	5+
0.01mm	0-10mm	166-7338	69.45	66.00	62.50

### **Virdict Metrinch**





Order 0 231-018 Fitted with pear-shaped contact, reading 0.0005"/ 0.01mm, range 0.020"/0.44mm, stylus length 0.770"/ 19.5mm, clamping facilities by means of dovetail or end spigot

	Price Each
Code	1+

# Gauges

# **Metric Pin Gauge Set**



Highly accurate precision pin gauges, surface finish RA 0.25, roundness tolerance1.27 $^6\mu.$  Heat treated to 60/63 HRC, gauge member length 2in. Accurate ±0.001mm

100.00

Range (mm)	Number Of Pieces	Steps (mm)	Order Code	Price Each 1+
1.01-2.00	100	0.01	030-346	143.35
0.30-5.00	95	0.05	030-347	157.29
5.05-10	100	0.05	030-348	191 10

# **Eclipse Angle Plates**



494526



# Web End

Length (mm)	Width (mm)	Height (mm)	Order Code	Price Each 1+
125	80 ´	100 ′	030-353	62.00
160	100	125	030-354	99.30
200	125	160	030-355	156.25

### Open End

					491553
Length (mm)	Width (mm)	Height (mm)	Order Code	Price Each 1+	
125 200	80 125	100 160	030-358 030-360	93.95 194.00	

# **Plastigauge**



Provides a simple but accurate method for measurement of running/static clearance between hidden surfaces, such as big end or mains bearings, pipe flanges, head gasket, high spots, housings, injection moulding tools etc

- Can highlight, clearance, lobing, ovality on shafts
- Calibration card supplied
- Volumetric measurement takes surface roughness into account

	Non corrosive and oil solu	ıble

	Measuremen	t Range
Type	Inch	mm
Α	0.001-0.007	0.025-175
В	0.004-0.010	0.1-0.
C	0.008-0.020	0.2-0.5

					494039	
		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
187-0017	151-8508	3.31	3.25	3.18	3.15	
187-0018	151-8509	3.42	3.34	3.28	3.24	
187_0010	151_9510	1 22	171	4.64	4.60	

### **Feeler Gauges**





Overall Length 108-342, 108-343=105 108-344=160

IMPERIAL 108-342 10 blades at 1.5, 2, 3, 4, 6, 8, 10, 12, 15, and 25 thousandths of an inch

METRIC 108-343

100.05, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8mm

 $\begin{array}{l} \text{COMBINED IMPERIAL/METRIC 108-344} \\ \text{18 blades at 1.5, 2, 3, 4, 6, 8, 10, 12, 15, 25 Thousandths of an inch and 0.05, 0.1, 0.2, 0.25, 0.3, 0.4, } \\ \end{array}$ 

				221187
	Mftrs. List No.	Order Code	Price Each 1+	
Imperial	73970	108-342	2.76	
Metric	73988	108-343	2.74	
Imperial/Metric	10094	108-344	3.38	

# **Feeler Gauges**



- Precision gauges with tapered 100 mm blades and electrically etched numerals
- Blades fold into metal case

Set contents:

**Metric**: 0.05, 0.1, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90,

Imperial: 0.002, 0.003, 0.004, 0.005, 0.006, 0.008, 0.010, 0.012, 0.015, 0.020, 0.025,0.030, 0.035 Thousandths of an inch

49	95	5	7

CK

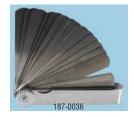
				Price Each	ı
Description	Mftrs. List No.	Order Code	1+	5+	10+
Metric	T3525M413	151-8959	3.70	3.60	3.50
Imperial	T3525 413	151-8960	3.70	3.60	3.50

**DURATOOL** 

# 45

# **Feeler Gauges**





Both sets have blades manufactured from hardened and tempered steel, and have mild steel casesBlades conform to DIN 2275, shape & thickness
Set contents:

Metric: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00mm Imperial: 0.0015, 0.003, 0.005, 0.006, 0.007, 0.008, 0.009, 0.010, 0.011, 0.012, 0.013, 0.014, 0.015, 0.016, 0.018, 0.020, 0.022, 0.024, 0.025, 0.028, 0.030, 0.032, 0.035 Thousandths of an inch

494	053

		Price Each				
Mftrs. List No.	Order Code	1+	5+	10+	20+	
187-0033 187-0036	151-8511 151-8512	4.46 8.79	4.37 8.61	4.29 8.44	4.23 8.35	

# **Feeler Gauge Sets**





Each gauge comprises a set of steel tapered blades, hardened, tempered and polished, mounted in a steel case. 12.7mm width.

### Metric - DIN 2275

Length (mm)	No. Of Blades	Thickness Of Blades x 0.01(mm)	Order Code	Price Each 1+
75	13	3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50	137-6793	9.85
100	13	3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50	137-6794	10.69
100	13	5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 5, 10, 15, 20, 25, 30, 35, 40, 45, 50,	137-6795	10.45
75	11	55, 60, 65, 70, 75, 80, 85, 90, 95, 100 5, 10, 15, 20, 25, 30, 40, 50, 60, 70,	137-6796	14.67
75	20	80 5, 10, 15, 20, 25, 30, 35, 40, 45, 50,	137-6797	8.08
150	13	55, 60, 65, 70, 75, 80, 85, 90, 95, 100 5, 10, 15, 20, 25, 30, 40, 50, 60, 70,	137-6798	15.13
150	20	80, 90, 100 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100	137-6799 137-6800	21.25 30.56
300	20	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100	137-6878	52.69
		,,		

# Metric - General Purpose

		Thickness Of Blades x 0.01 (mm)	Order Code	Price Each 1+
100	10	5, 10, 15, 20, 30, 40, 50, 60, 70, 80	137-6801	5.79
150	10	5, 10, 15, 20, 30, 40, 50, 60, 70, 80	137-6880	18.08
300	10	5, 10, 15, 20, 30, 40, 50, 60, 70, 80	137-6877	23.28

# Imperial - DIN 2275

	Length (in)	No. Of Blades	Thickness Of Blades x 0.001 (in)	Order Code	Price Each 1+
	3	10	1 ½, 2, 3, 4, 6, 8, 10, 12, 15, 25	137-6802	9.47
	6	10	1 ½, 2, 3, 4, 6, 8, 10, 12, 15, 25	137-6803	21.49
	3	17	1 ½, 2, 2 ½, 3, 3 ½, 4, 5, 5 ½, 6, 7,		
			8, 9, 10, 12, 15, 20, 25	137-6804	12.95
	4	17	1 ½, 2, 2 ½, 3, 3 ½, 4, 5, 5 ½, 6, 7,	107 0005	15.74
	3	26	8, 9, 10, 12, 15, 20, 25 1 ½, 2, 2 ½, 3, 4, 5, 6, 7, 8, 9,	137-6805	15.74
	3	20	10, 11, 12, 13, 14, 15, 16, 17, 18, 19,		
			20, 21, 22, 23, 24, 25	137-6808	20.45
	4	10	1 ½, 2, 3, 4, 6, 8, 10, 12, 15, 25	137-6811	10.20
ı					

# Imperial - General Purpose

# **Squares**

# 71/2" Rosewood Sliding Bevel



Hardwood handle
 Etched stainless steel sliding blade
 Blade length 9"

482095.462266

**DURATOOL** 

			Price Eac	h	
Order Code	1+	5+	10+	20+	50+
144-7559	3.47	2.81	2.67	2.55	2.36

# 9" Rosewood Square

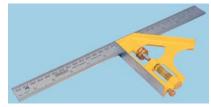


Solid redwood handle
 Brass face and fasteners
 Durable laser etched blade
 1/16" graduations

					102030.40221	
			Price Eac	h		
Order Code	1+	5+	10+	20+	50+	
144-7560	4.32	4.01	3.47	3.23	2.96	

# **Combination Square**





Diecast metal body precision machined on three faces, finished in a high Vis yellow for ease of location.

The head also includes 360° all round visibility vial, brass nut and scriber fittings.

The blade is 12 inch/300mm long and is etched with clear graduations and coated to provide resistance to rust.

47	80	10

	Price Each				
Order Code	1+	5+	10+	20+	
135-3443	14.90	14.45	13.70	13.43	

# **Combination Square**





Metal body with 3 machined faces, this square is lightweight, durable and accurate. Featuring a 30° all round visibility vial and scriber fitting for convenience and marking. The 12 inch/300mm stamped blade is easy to read and long lasting.

477999

	Price Each					
Order Code	1+	5+	10+	20+		
135-3409	7.45	7.25	6.85	6.73		

# **Combination Try and Mitre Square**

# RABONE



 A 90° try square, 45° try square, height/depth gauge, spirit level, marking gauge and ruler





# Squares - continued

# **RABONE** - continued

221170 Mftrs. Price Each List No. Order Code 1912 108-391 22.40

# **Combination Set** Series 180



Three components on one rule, made of hardened stainless steel with graduated scales. Protractor scale satin chrome finished, reversible (front and rear side can be used). Hardened square head, with level and hardened centre head.

493947
--------

**Mituto**yo

		Price Each
Description	Order Code	1+
Set: 30mm blade, protractor, square head and centre head	230-703	96.96

# **Engineers Squares**



Conforms to BS 939:1977, grade B. Manufactured to close tolerances in high grade steel. Both blade and stock are ground and polished with the blade being hardened and tempered.

Size (mm)	(in)	Order Code	Price Each 1+	
75	3	233-005	16.36	
100	4	162-3439	21.57	
225	9	233-008	36.98	
300	12	233-009	52.45	

# **Dividers And Calipers** No 50 Dividers



221212

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492528



Spring type. Solid nut. Points are hardened and ground to allow for marking out.

						48844	١
Size (mm)	Size (in)	Order Code	1+	Pric 5+	e Each 10+	20+	
75 100 150	3 4 6	137-6786 137-6787 137-6788	11.25 11.53 12.29	11.02 11.30 12.04	10.81 11.08 11.80	10.59 10.85 11.56	
200 250 300	8 10 12	137-6789 137-6790 137-6791	17.24 19.57 21.90	16.90 19.18 21.47	16.56 18.80 21.03	16.23 18.42 20.62	

# **Protractors**





- Used for drawing radial lines, transferring angles and setting bevels
- Made from tempered steel with satinchrome finish
- Measures angles from 0° 180°C
- Features 6" arm and knurled thumb lock nut
- Head measures 3" x 2"
- Available with round or square end

	Mftrs. List No.	Order Code	Price Each 1+
Round end	5180	715-9547	20.69
Square end	5170	715-9559	26.51

### **Chalk Refills**



Made from food grade calcium carbonate. Good colour fastness and resistance to bad weather. Supplied in plastic bottles with twist and pour cap. Blue: All round colour for interior and exterior use. Red: For exterior masonry work. Indelible in use. White: For interior work such as carpet fitting.

478316

STANLEY

					Price	Each	
Model	Colour	Weight (g)	Order Code	1+	5+	10+	20+
47-405	White	115	135-3677	2.05	2.00	1.90	1.87
47-403	Blue	115	135-3675	2.05	2.00	1.90	1.87
47-404	Red	115	135-3674	2.28	2.24	2.18	2.14
1-47-803	Blue	225	380-8555	2.75	2.65	2.55	2.30
1-47-804	Red	225	135-3660	3.95	3.75	3.50	3.25
1-47-917	Blue	1000	135-3661	6.95	6.75	6.40	6.27
1-47-919	Red	1000	135-3662	14.50	14.20	13.95	13.65

# Levels

# **Torpedo Levels**





Rigid aluminium frame for long life. Shock resistant rubber ends prevent damage. 300mm long, 3 vial. Three options available.

		Price Each				
Description	Order Code	1+	5+	10+	20+	
High impact torpedo level	135-3663	6.70	6.50	6.15	6.03	
Magnetic high impact torpedo level	135-3665	8.95	8.70	8.25	8.09	
Lighted high impact torpedo level	135-3666	12.65	12.25	11.65	11.42	

# Torpedo Level

STANLEY



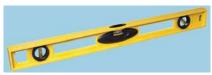
Heavy duty aluminium cast frame level. Large top read vial window, tinted 360° vials for easy reading. Magnetic strip allows hand free operation on metal surfaces.

478312

Length	Length			Price	e Each	
(mm)	(in)	Order Code	1+	3+	6+	12+
230	9	716-8810	7.89	7.50	7.24	6.89

# **Foamcast**

STANLEY



Lightweight and shock resistant ABS structure. 0°, 90° and 45° vials for accuracy. Hi-Viz yellow open frame girder body.

Length	Length		Price Each			
(cm)	(in)	Order Code	1+	5+	10+	20+
30	12	135-3656	3.00	2.90	2.75	2.69
45	18	135-3657	3.70	3.60	3.40	3.33
60	24	135-3658	4.45	4.30	4.10	4.01
120	48	135-3659	8.20	7.95	7.55	7.41

STANLEY

### Series 2-3 vial



Extruded aluminium box-section body. Sizes up to and including 120cm long are fitted with three vials and model 180cm has four vials. Accuracy 0.5mm per metre.

						478229
				Price	Each	
Length (cm)	Length (in)	Order Code	1+	5+	10+	20+
60	24	135-3438	12.00	11.77	11.53	11.30
90	36	135-3439	13.85	13.45	12.75	12.50
100	40	135-3440	15.77	15.45	15.14	14.84
120	48	135-3441	18.55	17.70	16.93	16.20
180	72	135-3442	27.70	26.85	25.50	24.99

### Spirit Levels



### **81S**

Light metal pressure cast profile with milled measuring surface, 1 vertical and 1 horizontal vial.

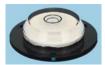
Measurement accuracy in the normal position 0.029=025mm/m. For overhead measurements: 0.043=0.75 mm/m. Suitable for working in cramped spaces, it handles overhead measurements as easily as it resists hard shocks.

Length			Price Each
(cm)	(in)	Order Code	1+
25	10	016-642	22.29

494621

STANLEY

# **Bull's-Eye Level**



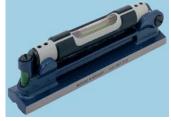
- Levels in all directions in one easy reading
- Moulded from acrylic plastic with mounting holes
- 1¾" diameter

	223048
Order Code 723-9324	<b>Price Each</b> 1+ 2.16

# **Engineers Levels**



**Mituto**yo



Precision ground base with full vee for location on cylindrical work pieces. Both levels have a main vial with safety cover, also a cross vial and a plumb vial. Main vial is graduated. All vials filled with tinted liquid for easy reading. Sensitivity - 1 minute of arc.

				491	200
Model	Length (mm)	(in)	Order Code	Price Each 1+	
ELS ELM	165 310	6.5 12	137-6905 137-6906	81.94 121.42	

# **Engineers Levels**



- High precision longitudinal and traverse vials make it possible to check or level surfaces
- Incorporates zero adjustment levels
- Vee slot in base

Indicating Error Order Code Size Sensitivity Graduation 200mm 0.02mm/1m 0.02mm/1m 321-6410

		Price Each
Sensitivity	Order Code	1+
0.02mm/1m	321-6410	259.00

### Intellimeasure



A compact electronic measure which offers the following features. Safe, visible laser pointer to precisely locate the point to be measured. Accurate to  $\pm\,0.5\%$  of a reading over 0.6m - 15.0m. Fast measurement time of 2-6 seconds. Will calculate area and volume, stores and recalls memory, automatically sums measurements. Low battery indicator.

				4/8219	
	Price Each				
Order Code	1+	5+	10+	20+	
135-3436	45.35	44.00	41.70	40.87	

# **AL-24 DVP Automatic Optical Level**





High quality, competitively priced 24x automatic optical level, supplied with Tripod and Rod, with many features normally seen on a more expensive product.

Magnetic dampened, wire hung compensator for optimum accuracy and range.

Compensator lock protects unit in transit. Large effective aperture with 30 cm's minimum

range Top mounted optical peepsight for ease of ranging.

Right angle prism for easy bubble viewing. Large easy to use focusing knob.

Fine motion knobs for endless, easy horizontal movement.

1:100 stadia for estimating distance.

Available in 360 degree or 400 GON versions.

Sealed, dust & water protected for working in all conditions.

Scope has sun-shade for bright light working.

Fits to standard tripod.

Technical Specification	
Working Range	90 metres
Working Environment	Built for all-weather general work
Levelling Accuracy	2mm for 1km double run levelling 1.6mm @ 50 metres
Levelling Type	3 screw setting. Viewed through angular prism Automatic compensator +/- 2 degrees
Angular Accuracy	1 degree (DVP) / 1 Gon (GVP)
Compensator	Magnetically dampered wire hung type
Compensator Setting Accuracy	+/- 0,8"
Compensator Working Range	+/- 15' minutes
Vial Sensitivity	2mm
Clear Objective Aperture	36mm
Resolution	9cm
Build Standard	IP54 (dust & water resistant)
Operating Temperature Range	-6 Deg Celsius to +49 Deg Celsius
Warranty	5 years

DEWALT

	Price Each				
Order Code	1+	5+	10+	20+	
135-3728	199.00	193.00	183.00	179.34	

# Self - Leveling Line Laser

**Horizontal & Vertical** 



Model: DW087K-XJ

- Self-levelling cross line laser is accurate to  $\pm 0.3$  mm/m in levelling applications
- Self-Levelling up to 4° surface angle with automatic out of level indication, marks a levelled line in seconds
- 2-button operation & low battery indication for ease of use
- Built-in magnetic pivot bracket mounts easily on metal surfaces Over moulded housing helps maintain calibration
- under jobsite conditions
- Includes 3 (AA) batteries for 20+ hours runtime
   Lightweight 1/4 inch Mini Tripod
   Contents: 3 x AA alkaline batteries, 1 x Wall mount bracket, 1 x Heavy duty carrying case







# Levels - continued

# Self - Leveling Line Laser - continued

### Horizontal & Vertical - continued

Laser Class 2, <1mW Self Leveling Range Line Accuracy Number of Beams ±0.3mm/m Power Supply Tripod Connection 4.5V - 3 x AA Indoor Visibility Range 15 m

**Price Each** Mftrs List No Order Code DW087K-XJ 151-8878 161.34

# Rulers

# **Stainless Steel Rulers**



494199.469957



- Satin finish stainless steel rulers in 3 sizes
- Conversion chart on reverse

						402033.402230	
Length				Price Eac	h		
	Order Code	1+	5+	10+	20+	50+	
150mm (6")	144-7554	0.95	0.81	0.68	0.62	0.56	
300mm (12")	144-7556	1.80	1.65	1.54	1.34	1.22	
600mm (24")	144-7557	2.96	2.58	2.38	2.05	1.88	

# **Imperial and Metric**

STANLEY



Stainless steel rules graduated in imperial and metric measurements. Metric/Imperial conversion tables on reverse of 6in and 12in rules. Manufactured to EC Class II accuracy.  $_{\rm 477898}$ 

Length (mm)	Length (in)	Width (in)	Order Code	Price Each 1+	
150	6	25	133-8103	2.40	
300	12	25	133-8104	4.15	
600	24	25	133-8105	6.95	
1000	39	25	133-8106	10.40	

# **Imperial Steel Rules**

STANLEY



Two sides - four edges. Subdivided inches in 16ths, 32nds, 64ths, 10ths, 20ths, 50ths, 100ths one side. mm, 0.5mm, figured every 10mm in mm other side. One round end. Rustless. SR patterns are supplied with an easy to read anti-glare finish.

					495219
Length (mm)	(in)	Width (mm)	Order Code	Price Each 1+	
150	6	19	138-8954	5.30	
300	12	25	138-8955	8.90	
600	24	25	138-8956	17.35	
1000	39	25	138-8957	41.15	
1000	39	25	138-8963	22.35	
150	6	12.5	138-8958	5.30	
300	12	12.5	138-8959	8.90	

# **Steel Rules**

# Imperial And Metric



Front side figured in inches 16ths, 32nds, 64ths, 10ths, 20ths, 50ths and 100ths. Reverse side figured in millimetres 0.5 and 1.0.

Model	Length (mm)	(in)	Width (mm)	Order Code	1+	Price 5+	<b>Each</b> 10+	20+
ER106F ER112 ER206F ER212	150 300 150 300	6 12 6 12	19 25 12.5 12.5	137-6848 137-6849 137-6850 137-6851	4.48 7.66 4.48 7.66	4.39 7.50 4.39 7.50	4.31 7.36 4.31 7.36	4.22 7.20 4.22 7.20
ER424	600	24	25	137-6852	21.17	20.74	20.33	19.92

Both sides figured in millimetres 0.5 and 1.0.

Model	Length(mm)	Width(mm)	Order Code	Price Each 1+
ER306F	150	19	137-6853	4.48
ER312	300	25	137-6854	7.52

### **Steel Rules**

### Metric



EC Class 2. Both edges: 1mm, figured in

Length (m)	Section (mm)	Order Code	Price Each 1+
1	30 x 1	032-120	33.90
1.5	30 x 1	032-121	58.85
2	30 x 1	032-123	69.02
2	40 x 2	032-124	155.95

### Metric/English

EC Class 2. Top edge: 0.5mm and 1mm, figured in cm. Bottom edge: 16ths, 32nds, 64ths,

					492369
Length (m)	(in)	Section (mm)	Order Code	Price Each 1+	
1 1.5 2	40 60 80	30 x 1 30 x 1 30 x 1	032-125 032-126 032-128	33.90 58.85 62.36	

# **General Purpose Straight Edges** Ungraduated



A range of general purpose carbon steel straight edges. Available graduated in mm on bevel edge or ungraduated.

				493058
Length	Section		Price Each	
(mm)	(mm)	Order Code	1+	
500	40 x 5	031-555	27.85	
1000	40 x 5	031-556	51.77	
1500	40 x 5	031-557	93.05	
2000	40 x 5	031-558	115.25	

# Graduated

Length (mm)	Section (mm)	Order Code	Price Each 1+	
500	40 x 5	031-559	35.97	
1000	40 x 5	031-560	92.90	
2000	40 x 5	031-561	180.25	

# **Ungraduated**



A range of general purpose carbon steel straight edges. Available graduated in mm's on bevel edge or ungraduated.

			349230
Order code	Length (mm)	Section (mm)	Price each
031-555	500 ´	40 x 5	27.85
031-556	1000	40 x 5	51.77
031-557	1500	40 x 5	93.05
031-558	2000	40 x 5	115.25

### Graduated

Order code	Length (mm)	Section (mm)	Price each
031-559	500	40 x 5	35.97
031-560	1000	40 x 5	92.90
031-561	2000	40 x 5	180.25

# **Folding Ruler Longlife Plus and Longlife**



17 • 1 ≈ 2 € 1 × 5 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6
--

- Glass fibre reinforced
- Scratch, weather and chemical resistant
- Patented, play free, wear resistant and maintenance free joint with steel spring pin for constant tension
- Useful 90° snap-in position
- Deep embossed black scale in 1mm increments. Every 10 cm is marked in red

				34577	1
			Price Ead	ch	
Mftrs. Part No.	Order Code	1+	5+	10+	
41020011	762-3631	4.98	4.54	4.16	
41010001	762-3640	3.07	2.80	2.57	

# Vernier Circumference And DiameterTape



16mm wide hardened spring steel tape with 0.1mm vernier reading. Circumference graduations in millimetres on lower edge and diameter graduations on upper edge

		4925
Circumference Diamete (mm) (mm)	er <b>Order Code</b>	Price Each 1+
60 - 950 20-300	032-129	80.63
940 - 2200 300-70	0 <b>032-130</b>	100.87
2190 - 3460 700-11	00 <b>032-131</b>	127.05

# **Tape Measures**

# **Hi-Vis Tape Measures**



- Tape measures in high visibility plastic housing
- Thumb operated blade lock
- Belt clip and wrist strap

					482917.4323
				Pric	e Each
ength	Width	Colour	Order Code	1+	5+
n/10ft	13mm	Yellow	136-7033	0.91	0.83
n/16ft	19mm	Orange	136-7034	1.16	1.02
n/26ft	25mm	Green	136-7035	2.57	2.44
	ength m/10ft m/16ft m/26ft	n/10ft 13mm n/16ft 19mm	m/10ft 13mm Yellow m/16ft 19mm Orange	m/10ft 13mm Yellow <b>136-7033</b> m/16ft 19mm Orange <b>136-7034</b>	ength Width Colour <b>Order Code</b> 1+ m/10ft 13mm Yellow <b>136-7033</b> 0.91 m/16ft 19mm Orange <b>136-7034</b> 1.16

# **Pocket Tapes** High Visibility



- High visibility, easy-to-find,
- Dual markings: metric and Imperial
- High-contrast, easy-to-read markings

		22115
Size	Order Code	Price Each 1+
3m/10ft	717-0725	2.10
F /4 C#		

# **ABS Tape Measures**

Length

Size

5m/16ft



- ABS cases and steel inserts
- Metric and Imperial markings Suitable for internal and external measurements

Price Each

3.43

Supplied with belt clip

m/16ft	19mm	313-3394

Order Code 313-3394

Order Code

# **Hi-Vis Measuring Tape**

Blade Width



These tapes feature a case made from durable ABS plastic contoured to fit comfortably in your hand. The hi-vis colour makes locating the product easy. Features include: Unique slide lock for easy control, belt clip, re-inforced end-hook which is double riveted on the 3M version and triple riveted on the 5M and 8M versions.

Len	gth	٧	Vidth			Price	e Each	
(m)	(ft)	(mm)	(inches)	Order Code	1+	5+	10+	20+
3	10	13	1/2	137-1657	3.00	2.91	2.82	
5	16	19	3/4	137-1658	5.00	4.85	4.70	4.56
8	26	25	1	137-1659	9.00	8.73	8.47	8.21

# **Tape Measures**



# A tape measure with 5 fantastic features

- Autobrake system Stops the tape from recoiling when extended
- Magnetic rubber grip hook the magnet will hold the end of the tape to metal surfaces and it's rubber grip hook holds the tape securely over the edge of non - metal surfaces, particularly smooth and chamfered sur-
- Big Blade standout. over two metres without bending
- ABS and Rubber body designed to take a lot of wear and tear
- Class II accuracy plus dual metric / imperial markings and convenient 16" centre joist
- Sizes: 5m / 16ft or 7.5m / 25ft

448558.470086

STANLEY

477993

Model/			Price	Each
Description	Mftrs. List No.	Order Code	1+	5+
5.5/18ftm	461003	128-3287	8.15	7.90
7.5m/25ft	461005	128-3288	10.80	10.50

# 8 Metre Powerlock

# With Blade Armor



The first 150mm/6in of the tape blade is reinforced with blade armor for added strength and durability. Entire blade coated with mylar polyester for durability. Durable chrome case.

	Price E	ach	
+	5+	10+	20+

Length Width (ft) (mm) Order Code 12 35 12.10 8 26 25 135-3424 13.45 13.05







# **Tape Measures - continued**

### **Fatmax Bladearmour**





Extra wide 11/4 inch blade for easier reading and 11 feet of stand-out, con-structed with a 3m industrial thermoplastic coating for maximum durability and reduced breakage.

Impact blade is mylar coated for long life and features a 3 rivet corrosion resistant end hook, which gives true zero reading and accurate inside and outside measurement. The end hook is also multifunctional allowing grip on side, top and

Conforms to class II accuracy.

4	11	9	98

	e Each	
Length Width		
(m) (ft) (mm) <b>Order Code</b> 1+ 5+	10+	20+
5 16 32 <b>135-3446</b> 12.45 12.10	11.45	11.22
8 26 32 <b>135-3449</b> 17.02 16.34	15.65	14.98

# **Fibreglass Tape Measures**

# **DURATOOL**



- Durable vinyl-coated fibreglass measuring tapes with easy to read markings
- Metal hook end for anchoring tape over
- long distances Metric and imperial measurements on opposite sides
- Tough plastic casing
- Folding winder with handle

48291	19.4	432	35

				Price	e Each	
Length	Width	Order Code	1+	5+	10+	20+
20m/33ft 30m/100ft	13mm 13mm	136-7727 136-7728	5.31 6.34	5.09 6.12	4.76 5.85	4.67 5.68

# **Closed Frame**

# STANLEY



This measure has two colour graduations that are easy to read in all conditions. A high impact yellow ABS case with the handle folding for storage. Conforms to Class II accuracy.

478216

Length	Length	Width			Price	e Each	
(m)	(ft)	(mm)	Order Code	1+	6+	12+	24+
20	66	12.7	380-8488	6.35	6.15	5.85	5.25
30	100	12.7	135-3451	7.70	7.55	7.39	7.25

# **Glass Fibre Measuring Tape**

# **Closed Case**



Folding winder handle. Strong steel coated case. Hand strap fitted to 30m tape only.

						453023
Length (m)	(ft)	Width (mm)	(in)	Order Code	Price Each 1+	
10 20 30	33 66 100	13 13 13	1/2 1/2 1/2	231-701 231-702 231-703	16.20 21.82 28.54	

### Wheel Measure

# DURATOOL



- Calculate the size of large areas without the hassle of measuring
- Perfect for making estimates for
- One person operation automatically records measurements as you walk

remodeling, landscaping fencing and more

- Ideal for builders, farmers, road contractors, councils, schools, real estate and police accident investigations
- The mechanical counting head is a fine digit read out
- Lightweight aluminium handle
- 121/2" rubber wheel
- Counter with reset button measures distances upto 10000ft
- Precision engineered to the highest quality
- One person operation automatically records measurements as you walk
- Ideal for builders, farmers, road contractors, councils, schools, real estate and police accident investigations
- Durable lightweight and compact design
- 300mm measuring wheel
- Reset lever on the counter meter
- The counter adds when the wheel is in a forward motion and subtracts in reverse
- The mechanical counting head is a fine digit read out
- Light facility for night use
- Comes with a canvas storage bag

482092.461140

	Price Each				
Order Code	1+	5+	10+	20+	50+
144-7553	22.92	21.02	18.34	17.20	15.62

### **Counter Mesuring Wheel**

# STANLEY



Durable traditional counter measuring wheel for

Gear driven counter with tough plastic housing. 5 digit counter with manual reset button. Heavy duty meta folding handle and rubber hand

Folding wheel mount.

Diecast aluminium wheel, wear resistant rubber

tread. Folding kick stand.

Technical Specification	
Working Range	9999.99 metres
Wheel Diameter	318mm (12.5")
Working Environment	Built for exterior use, larger wheel for rougher ground
Working Accuracy	+/- 1% typically
Units Of Measurement	Metres & Dm's
Wheel Mount	Folding wheel mount included
Build Standard	Diecast wheels, HD rubber tyres for durability. Tough counter moulding for strength
Warranty	24 months

478418

	Price Each			
Order Code	1+	5+	10+	20+
135-3729	57.95	56.79	55.66	54.54

# **Battery Testers and Jump Leads**

# **Battery Testers**

www.farnell.co.uk







### 20 - 120Ah Battery Tester

For testing 6 or 12V batteries of 20 to 120Ah capacity. Two flexible prods are held on the battery terminals for a few seconds and a meter reading diagnoses battery condition by referring to a chart permanently attached to the tester.

Model	Order Code	Price Each
0-524-08	282-410	94.05

### **Anti-Freeze Hydrometers**

**Model 0-55-00:** Designed for ethylene-glycol solutions only. Integral thermometer and drum calculator enables the correct % anti-freeze to be determined accurately over a wide temperature range.

**Model 0-711-00:** Polarmaster model indicates the amount of undiluted anti-freeze to add to obtain correct degree of frost protection. Specific gravity range 5 - 60%.

Model	Specific Gravity Range	Order Code	<b>Price Each</b>
0-550-00	0-25%	282-414	46.60
0-711-00	5-60%	282-415	55.15
0-711-00	5-60%	282-415	55.15

# **Battery Hydrometers**

Battery hydrometers covering specific gravity range 1.150 - 1.400°.

	Specific
Description	Model Gravity Range Order Code Price Each
For medium sized batteries.	0-070-00 1.150 - 1.400° <b>081-014</b> 13.51
For small batteries with less than 10cc of battery	0-059-00 1.150 - 1.350°
acid.	<b>281-411</b> 10.88

# **Battery Filler**

140cc capacity with 305mm 12in tube.

		49420
Model	Order Code	Price Each
0-149-00	081-034	12.10

# **Professional Jump Leads**





Top quality jump leads for general through to heavyduty commercial use. 100% copper conductors, flexible and durable PVC cables and robust clamps. Each set includes a strong PVC storage carry bag.

Order Code	Model	Engine cap (petrol)	Maximum amp cable rating
145-5460	CJL16C	Up to 2.5 litres	220
145-5462	CJL25C	Up to 5.5 litres	350
145-5463	CJL35C	Up to 7 litres	500

					491109
Engine cap (petrol)	Length (m)	Cable size	Order Code	Price Each 1+	
Up to 2.5 litres	3	(mm)2 16	145-5460	13.57	
Up to 5.5 litres	3.5	25	145-5462	24.28	
Up to 7 litres	4.5	35	145-5463	42.34	

# **Lubricating Guns**

# **Precision Pen-Oiler**

**DURATOOL** 

New



- Precision placement of oil or other lubricants
- Smooth actuator allows for greater control
- All aluminium construction
- Protective screw-on cover prevents leakage
- Convenient pocket clip
- Overall length: 140mm

Order Code	Price each	
	1+	5+
166-4784	5.05	4.85

# **Heavy Duty Grease Gun**



464846.527322



Grease Gun 120, 550, 60

- High pressure grease gun up to 5800 psi
- Will accept cartridges or bulk grease
- Supplied with delivery table and 4 jaw coupler
- Extension hoses and hydraulic coupler available separately

Order Code Mftrs. List No. Price Each 20+ 40+ Grease Gun 6270 629-959 17.45 16.95 16.40 15.70 Flexi Hose 11 500 Flexi Hose 8 330 62703 62702 629-960 629-972 6.20 3.95 5.85 3.70 2.10 6.00 5.60 3.85 2.20 3.55 2.05 62704 629-984

# **Dispensing Gun Accessories**

### Straight Steel



1/sin BSP thread fits the majority of guns available.

### **Delivery Tubes**

Model	Length (mm)	(in)	Order Code	Price Each 1+	
RTS6 RTS10	150	6	361-006	2.02	
nioiu	250	10	155-3783	1.50	

# Flexible Nylon

Model	Length (mm)	(in)	Order Code	Price Each 1+	
RTN9	225	9	361-010B	3.60	
RTN12	300	12	361-011	4.05	
RTN18	450	18	361-012	4.81	

### Super-Flexible Rubber

49463

Model	Length (mm)	(in)	Order Code	Price Each 1+
RTR9	225	9	361-013	5.39
RTR12	300	12	155-2370	5.36

# **Lubricating Nipples Selection Box**



 Each accessory box contains a wide selection of popular nipple sizes, straight and angled type plus a 4 jaw hydraulic connector

494311

		Price Each
Pack Quantity	Order Code	1+
81	151-0929	25.88

### E35 Foot Pump



All steel construction, fitted with preset dial gauge. Model E35DB is a double barrel pump giving increased efficiency and greater stability.

49394

Model	Vol. (cm³)	Swept (in <sup>3</sup> )	Weight (kg)	Order Code	Price Each 1+
E35	220	13.4	1.9	280-471B	10.02
E35DB	440	26.9	2.2	280-477	18.95







# **Lubricating Guns - continued**

# **Soft Kneeling Mat**



One side with indents for kneeling. Reverse side flat for sitting. Soft, washable, CFC-free foam rubber. SATRA approved445 x 245 x 30mm.

	4941	В
Order Code 963-4592	Price Each 14.12	

# **Plumbing Tools**

# **Plumber Tools** Man Hole Cover Lifting Keys



Heavy duty manhole cover lifting

All manhole lifting keys are sold in

		puiio		
		•		494351
Order Code	(mm)	(in)	(mm)	(in)
155-3141	125	5	100	4
828-8585	200	8	100	4
828-8607	300	12	100	4
828-8615	500	20	100	4
828-8623	600	24	100	4
	Handle		End	
Order Code	Type		Shape	
155-3141	Malleable iron tee		D	
828-8585	Triangular		Round	
828-8607	Closed handle		Rectangular	
828-8615	Closed handle		Rectangular	
828-8623	Closed handle		Rectangular	

	Price Each
Order Code	1+
155-3141	13.65
828-8585	18.91
828-8607	18.79
828-8615	27.43
828-8623	30.38

# Plunger Unblocker

# **DURATOOL**



- Used to clear and free blocked drains Fits baths, sinks and shower waste pipes
- Fits baths, sinks and snowe. ...

  Suction pump diameter: 160mm

482927.462276

	Price Each							
Order Code	1+	5+	10+	20+	50+			
139-1489	2.11	1.87	1.68	1.59	1.45			

### **Plumber Tools**

# **Hand Operated Pressure Test Pump**



Hand operated hydraulic test pump for proving central heating systems, waterpipes, boilers, vessels etc.

						49253
Tank	Test capacity				Price Each	
Tank capacity litres	Bar	PSI	Hose Connection BSP	Order Code	1+	
12	100	1400	1/2	828-8437	206.53	

# 14" Neon Grip Pipe Wrench



# **DURATOOL**

- Drop forged, heat
- treated jaw and nut Comfortable cushion matted grip for a nonslip hold
- Ideal for plumbing, steam fitting and many other applications
- Overall length 350mm
- 50mm jaw capacity

481971.460950

	Price Each					
Order Code	1+	5+	10+	20+	50+	
144-7409	5.69	4.74	4.49	4.11	3.33	

# 3 Piece Steel Pipe Wrench Set



- Drop forged, heat treated steel jaws and nuts
- Matted handles for a comfortable grip Sizes: 10", 14" and 18"
- Heavy duty cast I-Beam handles

48	19	170	).4	60	94	11

	Price/Set					
Order Code	1+	5+	10+	20+	50+	
144-7408	10.57	9.77	8.89	8.34	7.91	

# Stillson Pipe Wrenches





Handle and jaws are drop forged from high quality steel. Special heat treatment gives the gripping teeth the extra hardness necessary to withstand heavy use.

							483375	
Length (mm)	Length (inches)	Capacity O.D. (mm)	Order Code	1+	Pric 5+	<b>e Each</b> 10+	20+	
200 250	8	27 34	134-8373 134-8374	20.40 17.71	19.60 17.35	18.75 17.01	17.70 16.06	
300 350	12 14	42 49	134-8375 134-8376	21.23 31.05	20.80	20.39 28.55	19.74 26.92	
450 600	18 24	60 76	134-8377 134-8378	45.10 85.95	43.30 82.50	41.50 79.05	38.84 74.54	
900	36	102	134-8379	163.00	157 25	149 90	145 10	

# Stillson Pipe Wrenches 350 Leader





Used extensively in the oil, gas and civil engineering industries. One piece frame and handle are stronger and have greater capacity than equivalent size 300 series stillson. Drop forged steel jaws are replaceable.

483	3

Length	Length	Capacity			Pric	e Each	
(mm)	(inches)	0.D. (mm)	Order Code	1+	5+	10+	20+
200	8	34	134-8380	19.30	18.55	17.75	16.74
250	10	49	134-8381	21.85	21.00	20.10	18.61
300	12	55	134-8382	58.80	56.45	54.10	50.10
350	14	60	134-8384	79.40	76.20	73.05	68.89
450	18	76	134-8385	99.95	96.00	93.60	86.67
600	24	90	134-8386	188.00	179.00	173.00	163.14
900	36	140	134-8387	23.65	22.70	21.75	20.51
1200	48	162	134-8388	299.00	288.00	275.00	254.65





# **Aluminium Pipe Wrenches**



These lightweight wrenches are manufactured from titanium

				492947
Length		Capacity		Price Each
(mm)	(in)	0.D. (mm)	Order Code	1+
350	14	50	016-281	58.68
450	18	60	016-282	73.07
600	24	80	016-283	119.01
1050	48	210	016-285	485.05

# **Engineering Materials**

# **Torlon 4203 Resins** Rod 200mm lengths **Electrical grade**



Torlon resins have exceptional physical and chemical properties, that can withstand continuous exposures to temperatures between 230°C and 260°C.

Applications include: connectors, switches, relays, thrust washers, valve seats, piston rings,

Good electrical/dielectic performance

Excellent creep resistance

Good radiation resistance

mechanical linkages, bushings, electrical and thermal insulators.

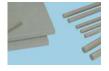
- High stiffness/strength
- Wide operating temperature range -190°C to 260°C
- Good dimensional stability
- Excellent chemical resistance

Colour	Dark Brown
Specific Gravity	1.4
Tensile Strength	192 N/mm <sup>2</sup>
Elongation	15%
Flexural Strength	244 N/mm <sup>2</sup>
Rockwell Hardness	E86
Melt Point	340°C
Linear Thermal Expansion Coefficient	3.06 K x 10
Linear Thermal Expansion Coefficient	3.06 K x 10
Volume Resistivity	2 x 10Ωcm
Dielectric Strength	23.6 kV/mm

All dimensions are approximate

					400402		
Diameter		Price Each					
(mm)	Order Code	1+	5+	10+	20+		
½in	722-0601	14.98	14.50	13.88	13.47		
3/4in	722-0613	31.76	30.51	29.02	27.95		
1in	722-0625	54.60	52.25	49.49	47.54		
11/4in	722-0637	84.24	78.41	74.75	72.74		
2in	722-0650	207.92	199.00	188.45	181.00		

# **High Performance Engineering Plastic** PEEK



A high performance engineering thermoplastic with excellent chemical, electrical and mechanical properties. PEEK is a tough, abrasion resistant material that retains good tensile and flexural properties at temperatures in excess of 250°C. % Elongation 15 Dielectric strength 23.6kV/mm, flexural strength 244N/mm

High stiffness/strength

Hydrolysis resistance

Good abrasion resistance

- Excellent chemical resistance
- Wide operating range (-60°C to 250°C) Superb electrical/dielectric performance
- Good radiation resistance (>1000Mrads)

- 0000 1001011100	10141100 (> 100
Specific Gravity	1.06
Water Absorption	0.45
Tensile Strength	110 N/mm <sup>2</sup>
Tensile Modulus	4200 N/mm <sup>2</sup>
Flexural Strength	170 N/mm <sup>2</sup>
Flexural Modulus	3600 N/mm <sup>2</sup>
Elongation	20%
Hardness (Rockwell M)	105

Non-flammable Melt Point 340°C Max. Service Temperature 250°C (20000hrs) Min Service Temperature Linear Thermal Expansion 5 K x 10 Coefficient

Thermal Conductivity Volume Resistivity 0.25 W/K.m 4-9 x 10 Dielectric Strength 24 kV/mm

All dimensions are approximate

# Rod 300mm length

Length		Price Each				
Diameter (mm)	Order Code	1+	5+	10+	20+	
16	717-5590	15.93	15.42	14.79	14.49	
25	717-5772	34.77	33.66	33.21	31.63	
30	717-5796	52.25	49.95	48.33	47.37	
35	717-5802	68.77	65.75	63.62	62.37	
40	717-5838	88.11	84.22	81.51	79.89	
45	717-5840	113.13	108.13	104.65	102.56	
50	717-5851	140.03	133.87	129.57	126.97	
60	717-5863	195.59	186.97	180.96	177.34	

### Plate 245mm x 305mm

Thickness			Price	e Each	
(mm)	Order Code	1+	5+	10+	20+
8	717-5875	170.91	163.38	158.14	154.96
10	717-5887	201.12	192.24	186.07	182.34
16	717-5905	320.45	306.34	296.49	290.56

### Strip 45mm x 500mm

Thickne	ess		Price	Each	
(mm)	Order Code	1+	5+	10+	20+
8	717-5929	68.16	65.97	63.24	61.99
10	717-5978	77.54	75.07	71.97	70.52
12	717-5980	95.75	92.70	88.87	87.10
16	717-5991	121.85	116.82	113.07	110.82
20	717-6004	148.18			

# **Engineering Thermoplastic**

### Sheet 610mm x 1220mmAcrylonitrile Butadiene Styrene

ABS is a tough and rigid thermoplastic exhibiting high impact resistance and which can be thermally formed easily. It also has good electrical properties and reasonable chemical resistance to acids and alkalis.

- High impact strength
- Good electrical insulator
- Natural white
- Easily formed
- Reasonable chemical resistance

Specific Gravity	1.06
Tensile Strength	37 N/mm <sup>2</sup>
Flexural Strength	65 N/mm <sup>2</sup>
Flexural Modulus	1800 N/mm
Impact Strength Izod Notched	290
Hardness (Rockwell R)	85
Linear Thermal Expansion Coefficient	9.5 K x 10

All dimensions are approximate

					4862
ickness			Price	e Each	
m)	Order Code	1+	5+	10+	20+
5	717-5541	26.61	25.41	24.59	24.09
)	717-5553	29.91	28.96	27.76	27.19
5	717-5565	40.10	38.29	37.06	36.32
1	717-5577	51 50	48 97	47 40	46 29

# **Engineering Material**

# Polytetrafluoroethylene (P.T.F.E.)



This material provides the ultimate in chemical resistance, ability to withstand extremes of operating temperature, very low friction and superb electrical performance. Applications include: gaskets, chute linings, insulators, valve seats, 'O' rings.

Non-stick surface

Natural white colour

- Excellent chemical resistance (pH 0-14) Tough and flexible
- Very low coefficient of friction
- Wide operating range (-260°C to 250°C)
- Superb electrical/dielectric performance
- All dimensions are approximate

(mı 1.5

1100						
Length Diameter (mm)	Quantity per lot	Order Code	1+	Price 5+	<b>Each</b> 10+	20+
6	5	717-4433	10.210	9.750	9.450	9.250
10	5	717-4445	24.280	23.180	22.430	22.000
15	3	717-4457	32.980	31.500	30.480	29.880
32	2	717-4482	95.970	91.660	88.720	86.950
36	1	717-4494	67.620	64.590	62.520	61.290
40	1	717-4500	72.160	68.920	66.710	65.380
45	1	717-4524	90.440	86.390	83.630	81.960
65	1	717-4548	135.300	131.268	128.143	125.163

### Rod 500mm length

Length	Quantity			Price	e Each		
Diameter (mm)	per lot	Order Code	1+	5+	10+	20+	
40	1	717-4597	34.48	33.06	32.01	31.37	
45	1	717-4603	42.93	41.17	39.84	39.06	
50	1	717-4615	53.08	50.90	49.26	48.28	
65	1	717-4627	84.20	80.75	79.13	77.55	

Rod 300mm length





# **Engineering Materials - continued**

# **Engineering Material - continued**

Rod 300mm - continued

Length	Quantity			Price	e Each	
Diameter (mm)	Per Lot	Order Code	1+	5+	10+	20+
70	1	717-4639	71.49	68.56	66.35	65.03
77	1	717-4640	84.37	80.90	78.29	76.74
83	1	717-4652	98.24	94.19	91.20	89.35
102	1	717-4688	129.36	124.04	120.05	117.66
110	1	717-4690	164.84	158.07	152.99	149.94
120	1	717-4706	265.11	243.02	221.55	205.73

### Sheet 610 x 305mm

Thickness	Quantity			Price	e Each	
(mm)	per lot	Order Code	1+	5+	10+	20+
1.5	1	717-4720	53.58	51.12	49.48	48.51
3	1	717-4731	69.68	66.47	64.33	63.06
6	1	717-4743	69.67	66.46	64.32	63.05
10	1	717-4755	112.50	107.33	103.89	101.82
15	1	717-4767	166.03	158.36	153.29	150.24

### Sheet 305 x 305mm

						480281
Thickness (mm)	Quantity Per Lot	Order Code	1+	Price 5+	<b>Each</b> 10+	20+
10	1	717-4810 717-4883	54.60 79.49	52.36 76.20	50.69 73.77	49.65 72.29
20 25	1	717-4895 717-4901	104.39 129.24	100.12 123.94	96.88 119.95	94.95 117.56

# **Engineering Material Acetal Homopolymer Natural**



Similar properties to that of Acetal Copolymer, except with marginally superior mechanical properties and better wear resistance. Slightly lower maximum continuous operating

Applications include: similar applications to Acetal Copolymer

wear resistance.

- High rigidity
- Good impact resistance
- Low moisture absorption Continuous working temperature 90°C (Max 150°C)
- Good chemical resistance
- temperature and less resistance to hot water. but requiring marginally superior mechanical properties and
  - Excellent dimensional stability
  - Ideal for close tolerance parts
  - Suitable for food contact
  - All dimensions are approximate

Specific gravity	1.43	Hardness (Rockwell M)	90
Water absorption	0.85%	Melt point	175°C
Tensile strength	80 N/mm <sup>2</sup>	Max. service temperature (5000 hrs)	95°C
Tensile modulus	3300 N/mm <sup>2</sup>	Min. service temperature	-50°C
Flexural strength	98 N/mm <sup>2</sup>	Linear thermal expansion coefficient	11.0 x 10 K
Flexural modulus	2620 N/mm <sup>2</sup>	Flammability	Slow burning
Elongation	30%	Volume resistivity	10Ωcm

### Rod 1 Metre Length

Length	Quantity			Price	Each	
Diameter (mm)	Per Lot	Order Code	1+	5+	10+	20+
10	5	717-1821	9.10	8.62	8.36	8.14
15	3	717-1833	10.73	10.19	9.85	9.60
25	2	717-1857	13.75	13.03	12.63	12.29
30	1	717-1948	13.18	12.49	12.08	11.78
36	1	717-1950	17.51	16.59	16.07	15.64
40	1	717-1961	20.89	19.80	19.18	18.67
45	1	717-2060	25.68	24.36	23.57	22.95
50	1	717-2072	30.69	29.11	28.18	27.42
55	1	717-2084	37.54	35.61	34.45	33.56
60	1	717-2096	43.13	40.89	39.58	38.53

# Sheet 500 x 305mm

						4802	04
Thickness (mm)	Quantity Per Lot	Order Code	1+	Price 5+	Each 10+	20+	
10 16 20 25 30 35	1 1 1 1 1 1	717-2114 717-2126 717-2138 717-2151 717-2163 717-2175	30.47 43.98 52.99 64.21 76.99 88.24	29.00 41.85 50.42 61.11 73.27 83.98	28.07 40.51 48.79 59.15 70.91 81.29	27.42 39.60 47.72 57.81 69.32 79.45	

### **Engineering Material** Acetal Homopolymer Black



Black Acetal Homopolymer is superior to the natural equivalent in environments where exposure to ultraviolet is a consideration.

Similar properties to that of Acetal Copolymer, except with marginally superior mechanical properties and better wear resistance, slightly lower maximum continuous operating temperatures and less resistance to hot water.

Similar applications to Acetal Copolymer but requiring marginally superior mechanical properties and wear resistance.

- High rigidity Good impact resistance Low moisture absorbtion
- Continuous working temperature 90°C
- Good chemical resistance

Specific gravity 1.43 Water absorption Tensile strength 0.85% 80 N/mm<sup>2</sup>

3300 N/mm<sup>2</sup> Tensile modulus Flexural strength 98 N/mm<sup>2</sup>

Flexural modulus Elongation

Excellent dimensional stability

Ideal for close tolerance parts

Suitable for food contact All dimensions are approximate

Melt point 175°C Max. service temperature 95°C (5000 hrs)

Min. service temperature -50°C Linear thermal expansion 11.0 x 10-5 K coefficient

Hardness (Rockwell M)

2620 N/mm<sup>2</sup> 30% Flammability Volume resistivity Slow burning  $10^{14}\Omega\text{cm}$ 

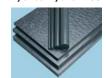
### Rod 1 Metre Length

Length Diameter (mm)	Quantity Per Lot	Order Code	1+	Price Eac 5+	<b>h</b> 10+	20+
16	3	717-3702	9.84	9.43	9.11	8.92
20	2	717-3714	10.02	9.64	9.29	9.10
25	2	717-3726	14.31	13.75	13.27	13.00
30	1	717-3738	10.98	10.51	10.19	9.97
45	1	717-3751	21.03	20.15	19.50	19.10
50	1	717-3763	25.93	24.94	24.04	23.56
60	1	717-3775	35.73	34.36	33.14	32.48
65	1	717-3787	43.80	42.10	40.58	39.77

### Sheet 500mm x 305mm

					100211
Thickness (mm)	Order Code	1+	Price Eac 5+	h 10+	20+
10 16 20 25 30 40	717-3799 717-3805 717-3817 717-3829 717-3842 717-3854	29.74 43.06 51.91 62.99 75.56 87.95	28.40 41.10 49.56 60.12 72.14 83.98	27.46 39.77 47.97 58.20 69.82 81.27	26.92 38.98 47.00 57.03 68.42 79.65

# **Engineering Plastic** Nylon 66- Nylatron ® GS



- High stiffness and strength
- Self-lubricating
- Excellent wear resistance
- Dark grey colour
- Continuous working temperature 80/95°C (Max 145°C)
- Greater load bearing capacity
- Excellent dynamic bearing material

Based on Nylon 66, this material is enhanced with molybdenum disulphide (MoS2) filler to produce a low friction, self lubricating material with superior properties over unfilled Nylon 66. Applications: as for Ertalon® 62A and 66GF-30.

Specific gravity Water absorption (saturation at 23°C)	1.14-1.18 6-8%	Hardness (Shore D) Linear thermal expansion coefficient	80-90 6.3 x 10 K
Tensile strength	69/96 N/mm <sup>2</sup>	Minimum service temper- ature	-40°C
Tensile modulus	3130/4160 N/mm <sup>2</sup>	Melting point	260°C
Elongation	5-150%	Thermal conductivity	0.30W/km
Flexural strength (23°C)	110-130 N/mm <sup>2</sup>	Flammability	Self-extinguishing
Flexural modulas	2758-3448 N/mm <sup>2</sup>	Coefficient of friction	0.15-0.35

# All dimensions are approximate

### Rod 1 Metre Length

nou i mono congui								
Diameter (m)	Qty Per Lot	Order Code	1+	Price Each 5+	20+			
12	3	520-639	4.68	4.36	4.22			
16	3	520-640	7.88	7.31	7.07			
20	2	520-652	8.23	7.88	7.63			
25	2	520-664	11.69	10.83	10.43			
30	1	520-676	9.39	8.65	8.40			
35	1	520-688	13.03	12.03	11.66			

# Sheet

486163

Sheet Size (mm)	Qty Per Lot	Order Code	1+	Price Each 5+	20+
8 x 500 x 305	2	520-720	39.43	35.33	34.20
12 x 500 x 305	1	520-731	27.61	25.21	24.37
16 x 500 x 305	1	520-743	36.65	33.14	32.07
20 x 500 x 305	1	520-755	47.03	42.92	41.54
25 x 500 x 305	1	520-767	57.58	52.56	50.87
30 x 500 x 305	1	520-779	68.42	63.38	61.34

# **Engineering Material** Acetal Copolymer Natural



This proven engineering material has a good combination of all round properties, distinguised by its low moisture absorption and excellent machinability.

Applications include: pump housing, impellers, gears, bearings, valves, valve seats, domestic applications, electrical components.

- High rigidity
- Good impact resistance
- Low moisture absorption
- Continuous working temperature 100°C (Max. 140°C)

Specific gravity 0.22% in 24 hrs Water absorption Tensile strength 62 N/mm<sup>2</sup>

Elongation 90 N/mm<sup>2</sup> Flexural strength

2585 N/mm<sup>2</sup> Flexural modulus Shear strength 53 N/mm<sup>2</sup>

# Good chemical resistance (pH5-11)

- Excellent dimensional stability Ideal for close tolerance parts
- Natural white colour
- All dimensions are approximate

Hardness (Rockwell R) 120 Melt point 165°C Max. service temp. (5000 115°C

Min. service temp. -50°C Liner thermal expansion 12.5 x 10 K Slow burning

coefficient Flammability

### Rod 1 metre length

Diameter				Price Each		
(mm)	Qty Per Pack	Order Code	1+	5+	20+	
6	5	520-986	5.08	4.76	4.60	
10	5	520-998	8.19	7.59	7.34	
15	3	521-000	9.26	8.58	8.31	
20	2	521-012	10.22	9.46	9.15	
25	2	521-024	15.14	14.04	13.59	
30	1	716-8391	10.66	10.21	9.88	
36	1	716-8408	14.16	13.57	13.13	
40	1	716-8410	16.15	15.43	14.94	
45	1	716-8421	22.43	21.41	20.73	
50	1	716-8433	25.97	24.82	24.03	
56	1	716-8445	33.51	31.96	30.92	
60	1	716-8457	37.06	35.40	34.26	
65	1	716-8469	44.01	42.08	40.73	
	(mm) 6 10 15 20 25 30 36 40 45 50 56 60	(mm) Qty Per Pack 6 5 10 5 15 3 20 2 25 2 30 1 36 1 40 1 45 1 50 1 56 1	(mm) Qty Per Pack Order Code 6 5 520-986 10 5 520-998 15 3 521-000 20 2 521-012 25 2 521-024 30 1 716-8491 36 1 716-8400 45 1 716-8410 45 1 716-8421 50 1 716-8435 66 1 716-8445	(mm)         Qty Per Pack         Order Code         1+           6         5         520-986         5.08           10         5         520-988         8.19           15         3         521-000         9.26           20         2         521-012         10.22           25         2         521-024         15.14           30         1         716-8491         10.66           36         1         716-8408         14.16           40         1         716-8410         16.15           45         1         716-8421         22.43           50         1         716-8433         25.97           56         1         716-8445         33.51           60         1         716-8457         37.06	(mm)         Qty Per Pack         Order Code         1 +         5 +           6         5         520-986         5.08         4.76           10         5         520-998         8.19         7.59           15         3         521-000         9.26         8.58           20         2         521-012         10.22         9.46           25         2         521-024         15.14         14.04           30         1         716-8391         10.66         10.21           36         1         716-8408         14.16         13.57           40         1         716-8410         16.15         15.43           45         1         716-8421         22.43         21.41           50         1         716-8433         25.97         24.82           56         1         716-8457         33.51         31.96           60         1         716-8457         37.06         35.40	(mm)         Qty Per Pack         Order Code         1+         5+         20+           6         5         520-986         5.08         4.76         4.60           10         5         520-998         8.19         7.59         7.34           15         3         521-000         9.26         8.58         8.31           20         2         521-012         10.22         9.46         9.15           25         2         521-024         15.14         14.04         13.59           30         1         716-8391         10.66         10.21         9.88           36         1         716-8408         14.16         13.57         13.13           40         1         716-8410         16.15         15.43         14.94           45         1         716-8421         22.43         21.41         20.73           50         1         716-8433         25.97         24.82         24.03           56         1         716-8457         33.51         31.96         30.92           60         1         716-8457         37.06         35.40         34.26

### Sheet

486184 Sheet Size Price Each Qty Per Pack Order Code 20+ (mm) 8 x 500 x 305 521-036 43.99 40.24 38.94 16 x 500 x 305 25 x 500 x 305 521-050 521-061 47.31 55.13 44.00 51.02 42.59 50.00 20 x 500 x 305 716-8500 43.42 41.60 40.77 30 x 500 x 305 716-8512 61.92 67.44 63.97 35 x 500 x 305 716-8524 72.00

# **Engineering Material**

**Acetal Copolymer Black** 



Black Acetal Copolymer is superior to the natural equivalent in enviroments where exposure to ultra violet light is a consideration. Similar properties to that of Acetal Copolymer , except with marginally superior mechanical properties and better wear resistance, slightly lower maximum continuous operating tem-

perature and less resistance to hot water. Similar applications to acetal copolymer but requiring marginally superior mechanical properties and wear resistance.

- High rigidity
- Good impact resistance Low moisture absorption
- Continuous working temperature 100°C
- Good chemical resistance (pH5-11)
- Excellent dimensional stability Ideal for close tolerance parts
- Black

( /			
Specific gravity	1.41	Shear strength	53 N/mm <sup>2</sup>
Water absorption	0.22% in 24 hrs	Hardness (Rockwell R)	120
Tensile strength	62 N/mm <sup>2</sup>	Melt point \	165°C
Tensile modulus	2795 N/mm <sup>2</sup>	Max. service temp. (5000 hrs)	115°C
Elongation	60%	Min. service temp.	-50°C
Flexural strength	90 N/mm <sup>2</sup>	Liner thermal expansion coefficient	12.5 x 10 K
Flexural modulus	2585 N/mm <sup>2</sup>	Flammability	Slow burning

All dimensions are approximate.

# Rod 1 metre length

Length				Price	Each	
Diameter (mm)	Quantity Per Lot	Order Code	1+	5+	10+	20+
6	5	717-1470	5.18	4.94	4.79	4.69
10	5	717-1481	8.82	8.37	8.12	7.92
15	3	717-1493	9.16	8.76	8.48	8.31
20	2	717-1500	11.24	10.56	10.26	9.83
25	2	717-1511	14.08	13.47	13.05	12.77
36	1	717-1535	15.90	15.15	14.66	14.38
40	1	717-1547	18.39	17.55	16.99	16.65
45	1	717-1559	21.94	20.98	20.30	19.90
50	1	717-1560	26.19	25.04	24.24	23.74
56	1	717-1572	32.74	31.27	30.26	29.67
60	1	717-1584	37.40	35.72	34.57	33.88

### Sheet 500 x 305mm

Price Each Order Code 5+ 10+ 20+ 717-1626 38.47 36.77 35.59 34.88 15 20 51.29 74.56 96.39 717-1651 48 90 47.35 46 40 717-1341 717-1365 71.12 91.95 67.44 87.21 30 40

Over 480,000 products online



### **Engineering Plastic** Nylon 66 - Ertalon ® 66SA



- Tough and resilient
- Good wear resistance
- Good electrical insulator
- Natural white colour
- Continuous working temperature 80°C (Max. 160°C)
- Good chemical resistance (pH5-11)
- Lightweight (1/6 vs steel)
- Good flexible fatigue resistance

Nylon 66 is a highly versatile engineering plastic due to its excellent combination of the above properties. Applications include: gears, bearings, rollers, wheels, cams, nuts, valve seats, pulleys, gaskets, electrical insulators.

, , , ,	,		
Specific gravity	1.14 - 1.15	Thermal conductiv	-0.24 W/K
		ity	
Water absorption	7-9% Max	Flammability	Self extinguishing
Tensile strength	62-83 N/mm	Volume resistivity	10 Ωm
Flexural strength	88-97 N/mm	Dielectric strength	<2 kV/mm
Shear strength	66 N/mm		
Melt point	260°C	All dimensions are	approximate

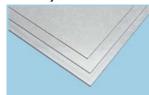
### Rod 1 metre

Diar	neter			Price Eac	ch .
(1	m) Qty Per Lot	Order Code	1+	5+	20+
	6 5	520-287	4.31	3.76	3.65
1	0 5	520-299	7.38	6.52	6.30
1	5 3	520-305	7.69	7.12	6.88
2	20 2	520-317	8.52	7.89	7.65
3	30 2	520-330	16.41	15.15	14.66
3	36 1	520-342	12.25	11.31	10.96
4	10 1	520-354	14.88	13.76	13.32
4	15 1	520-366	18.45	17.07	16.52
5	50 1	520-378	22.20	20.54	19.87
6	60 1	520-391	30.79	28.49	27.57
6	5 1	520-408	35.48	32.82	31.76
7	'0 1	520-410	41.14	38.05	36.82
7	75 1	520-421	43.54	40.19	38.89

### Sheet

					486135
Sheet Size (mm)	Qty Per Lot	Order Code	1+	Price Each 5+	20+
8 x 500 x 305 12 x 500 x 305 16 x 500 x 305 20 x 500 x 305 30 x 500 x 305 30 x 500 x 305 50 x 500 x 305	2 1 1 1 1 1	520-433 520-445 520-457 520-469 520-470 520-482 520-500	32.81 28.70 38.77 41.13 49.93 62.83 98.29	31.39 26.50 35.91 37.97 46.07 57.84 90.78	30.40 25.66 34.74 36.74 44.61 55.98 87.88

### Clear Polycarbonate Sheet



- Good mechanical strength
- Exceptional impact resistance
- Clear, high optical quality
- Good thermal and noise barrier • Continuous working temperature 80°C
- (Max. 120°C) Good UV/weather resistance

Polycarbonate sheet is a virtually unbreakable, flexible material of optical quality which can be fabricated into a wide variety of clear components

Applications include: flat and curved glazing, machine guards, riot shields, door viewing

Density Tensile strength at break Elongation at break	1.2 >60 N/mm <sup>2</sup> 80%	Thermal conductivity Flammability Coefficient of linear thermal expansion	0.21W/K.m UL94V-2 6.5K.10
Nail indentation hardness Impact strength Melt point	110 N/mm <sup>2</sup> No break 230°C	Volume resistivity Dielectric strength	10/cm 25 kV/mm

All dimensions are approximate

### Sheet

		494262
Sheet Size (mm)	Order Code	Price Each 1+
4 x 1250 x 610 5 x 1250 x 610	521-401 521-413	45.77 63.32







# **Engineering Materials - continued**

# Polypropylene Rods And Sheets



- High flexural fatigue resistance
- Good impact strength
- Resists steam cleaning
- Natural white colour
- Excellent electrical properties
- Continuous working temperature 80°C (Max. 100°C)
- Excellent chemical resistance (pH4-11)
- Limited UV resistance
- All dimensions are approximate

 $\begin{array}{lll} \mbox{Relative permittivity at 1kHz} & 2.25 \\ \mbox{Volume resistivity} & 10^{15}\mbox{cm} \\ \mbox{Surface resistivity} & 1011\ \mbox{to}\ \ 1015\ \mbox{\Omega} \\ \end{array}$ 

### Rod 1 Metre Length

	Diameter (mm)	Quantity Per Lot	Order Code	Price Each 1+
20 3 <b>521-309</b> 13.32	20	3	521-309	13.32
30 2 <b>521-310</b> 18.03	30	2	521-310	18.03
40 1 <b>521-322</b> 15.85	40	1	521-322	15.85

### Sheet

			493767
Sheet Size (mm)	Quantity Per Lot	Order Code	Price Each 1+
3 x 995 x 495 4.5 x 995 x 495 6 x 995 x 495 9 x 995 x 495 10 x 995 x 495 15 x 995 x 495	3 2 2 1 1	521-334 521-346 521-358 521-360 521-371 521-383	28.36 29.88 40.66 26.64 33.21 55.91

### **Clear Sheet PETG**



PETG sheets have high impact strength even at temperatures below zero. This allows punching, die cutting, shearing, cold bending riveting etc. as well as conventional fabricating techniques. PETG sheets have a light transmission at up to 90% combined with high surface gloss and optical quality.

PETG sheets are food compatible complying with FDA regulations.

Applications vary but include machine guards, point of sale items, food displays and containers, signs, and shop fitting items.

- Excellent thermoformability
- High clarity
- Good impact resistance
- Food compatible
- Sterilisable with ETO or Gamma-Rays

Specific Gravity Tensile Strength 23°C Tensile Modulus	1.27 50 N/mm 2050 N/mm
Coefficient of Expansion	5 x 10 K
Deformation Temp	
A: 1.81 N/mm	63°C
B: 0.45 N/mm	70°C
Specific Heat 30°C	1170J/kg.k
Specific Resistance	10 Ωcm

All dimensions are approximate

					4860	5.
Sheet			Price	e Each		
Size(mm)	Order Code	1+	5+	10+	20+	
1250 x 600 x 3	320-2756	26.04	23.87	23.09	20.62	
1250 x 600 x 4	320-2768	34.71	31.84	30.78	27.46	

# Acrylic Sheet Perspex ® Acrylic



An acrylic sheet is a most useful material in the workshop because its properties make it very suitable for a wide range of different purposes, from precision engineering components to domestic and commercial products. Some of the many applications are: signs, glazing, safety screens, roofing, lighting fittings, medical and research apparatus, furniture and craft work.

- Excellent surface quality
- Hygienic
- Consistent mechanical properties
- Low density
- Good abrasion resistance

					486083
Sheet			Price	e Each	
Size(mm)	Order Code	1+	5+	10+	20+
1010 x 670 x 5mm	320-2471	37.12	34.03	32.92	29.38
1010 x 670 x 6mm	320-2483	44.55	40.84	39.50	35.28

All dimensions are approximate

# **PVC Rods And Sheets**



Reasonable mechanical properties

50 N/mm<sup>2</sup> >5%

2400-3000 N/mm<sup>2</sup>

95-100 N/mm<sup>2</sup>

Limited impact strength

Low moisture absorption

Light grey colour

Easily fabricated
Density

Tensile strength at break Elongation at break

Tensile modulus

Ball indentation hard-

A long established plastic with quite good mechanical properties, generally chosen when chemical resistance is required at low cost.

Applications include: mainly static applications for prototyping, models, electrical insulation, chemical valves and pumps.

- Continuous working temperature 50°C (Max. 80°C)
- Good UV/weather resistance
- All dimensions are approximate

Impact strength Thermal conductivity	No break 0.16 W(k.m)
Linear thermal expan- sion coefficient	8K <sup>-1</sup> 10 <sup>-5</sup>
Volume resistivity	-10 $^{16}$ Ωcm
Dielectric strength	-30 kV/mm

### Rod - 1 Metre Length

Diameter (mm)	Quantity Per Lot	Order Code	Price Each 1+	
6	5	521-231	2.96	
10	5	521-243	4.59	
15	3	521-255	7.89	
25	2	521-279	11.49	

### Sheet

493763

Sheet	Quantity		Price Each
Size (mm)	Per Lot	Order Code	1+
4.5 x 1000 x 500	3	521-292	43.80

### **Plastic Shim**

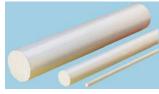


Fourteen assorted sizes, cut into  $20\text{in} \times 5\text{in}$  lengths. 0.0005in, 0.001in, 0.0015in, 0.002in, 0.003in, 0.004in, 0.005in, 0.0075in, 0.010in, 0.0125in, 0.015in, 0.020in, 0.025in, 0.030in.

495018

Description	Order Code	Price Each	
Plastic shim assorted sizes	031-904	54.35	

# Bearing Grade PETP & Solid Lubricant Eralyte TX



The material has a good combination of properties, distinguished by its low moisture absorption, excellent machinability and its improved bearing performance. Applications include: bearings, thrust washers, slideways, gears, rollers, pump components etc.

- High mechanical strength, stiffness and hardness
- Continuous working temperature of 100°C (max 160°C)
- Very good creep resistance
- Low coefficient of friction
- Low moisture absorption
- Very good dimensional stabilityExcellent wear resistance

Colour	Light grey
Specific gravity	1.44
Water absorption	0.47%
Saturation in water	
Tensile strength	78 N/mm <sup>2</sup>
Elongation	8%
Hardness (Shore D)	94
Thermal conductivity	0.29W/K.m
Linear thermal	
Linear thermal expansion coefficient	6.5-8.5K₁ x 10
Volume resistivity	10cm
Dielectric strength	21kV/mm

All dimensions are approximate



Diameter (mm)	Length (mm)	Quantity per lot	Order Code	1+	Price 5+	<b>Each</b> 10+	20+
10	1000	5	722-0790	12.40	11.49	11.10	10.61
20	1000	2	722-0819	18.07	16.72	16.17	15.44
25	1000	1	722-0820	14.64	13.53	13.11	12.52
40	1000	1	722-0832	33.15	30.66	29.70	28.37
50	1000	1	722-0844	50.50	46.71	45.23	43.21
80	500	1	722-0856	74.55	69.69	65.42	61.64

# **Precision Shim Steel**



Cut into 300mm lengths. Approximately 0.5kg package.

### **Assortment Pack**

494194 Price Each Pack Contents **Order Code** 4 x 0.50mm, 3 x 0.075mm, 2 x 0.10mm, 0.125mm, 1 x 0.15mm, 0.20mm, 0.30mm, 0.50mm 031-983 9.69

Sizes 0.002in to 0.015in rolled and packed in tins each containing approx 0.5kg. Size 0.020in and 0.025in supplied in flat pack approx 100mm wide.

Thickness (in)	Length (ft)	Order Code	Price Each 1+
0.002	36.6	031-951	20.19
0.003	24.3	031-952	11.25
0.004	18.3	031-953	6.95
0.005	14.6	031-954	6.63
0.006	12.2	031-955	6.70
0.007	10.3	031-956	6.35
0.008	9.1	031-957	5.28
0.010	7.3	031-958	4.88
0.012	6.1	031-959	5.26
0.015	4.9	031-960	4.77
0.025	2.9	031-962	3.86

# **Key Steel**

Specially proceed steel bars of the type used to make machine keys. Each bar is zinc plated. Tolerance 0.000 to  $\pm$ 0.002 oversize in both directions. Each bar is clearly size marked. Supplied in 12in lengths.

# **Machine Key Bars**

### **Imperial**

Available in sizes up to 2in square.

# Metric

Available in sizes up to 25mm x 28mm.

Size (in)	Order Code	Price Each 1+
1/8 x 1/8	231-910	1.31
3/16 X 3/16	231-911	1.74
1/4 X 1/4	231-912	1.89
5/16 X 5/16	231-913	3.05
3/8 x 3/8	231-914	3.02
7/16 X 7/16	231-915B	3.98
1/2 X 1/2	231-916	5.95
5/8 <b>x</b> 5/8	233-930	9.65
1 x 1	233-933	21.25

		Price Each
Size (mm)	Order Code	1+
4 x 4	233-940	1.59
5 x 5	233-941	2.59
6 x 6	155-3101	4.91
7 x 7	233-943	3.95
8 x 8	233-944	3.95
10 x 10	233-945	4.17
12 x 12	233-946	6.95
16 x 16	233-947	11.25
20 x 20	233-948B	24.30

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# Silver Steel



Over 25mm +0.0mm - 0.002mm 25 and below +0.00mm - 0.01mm333mm lengths

# 333mm Lengths

		Price Each
Diameter (mm)	Order Code	1+
4.0	155-2178	0.70
5.0	155-2179	0.92
6.0	155-2180	1.33
7.0	155-3734	1.60
8.0	155-2182	1.77
9.0	232-164	1.59
10.0	162-3437	2.00
11.0	232-168	2.38
13.0	232-172	2.88
14.0	232-174	3.37
15.0	232-176	3.99
16.0	155-2345	5.63
18.0	232-182	6.00
20.0	232-186	5.77
25.0	232-191B	9.17
30.0	232-196	13.50
40.0	231-153	29.40

### Imperial

1in and above  $\pm 0.0005$ Below 1in  $\pm 0.0003333$ mm lengths

### 333mm Lengths

492290 Price Each Diameter (in) Order Code 155-3097 155-3098 0.40 0.53 232-203 232-204 0.61 0.60 5/32 3/16 1/4 5/16 1.27 1.36 1.76 3.10 155-3099 232-208B 232-210B 232-212 3/8 7/16 1/2 5/8 3/4 13/16 7/8 155-3735 3.90 3.82 232-218 232-222 232-223 6.60 8.70 232-224 232-226 8 55 8.63

# **Dowel Pins**

493934



BS 1804 (part 2, grade 1). A parallel pin used to locate mating parts.

			Price Each
Thread x lgth (mm)	Pack qty	Order Code	1+
M4 x 10	50	155-2400	10.29
M4 x 16	50	155-3160	10.90
M4 x 20	50	887-6002	6.09
M4 x 25	50	887-6010	10.18
M5 x 10	50	887-6029	5.13
M5 x 12	50	887-6037	5.85
M5 x 16	50	887-6045	6.98
M5 x 20	50	887-6053	6.43
M5 x 25	50	887-6061	8.11
M5 x 36	50	887-6088	15.59
M5 x 40	50	887-6096	8.90
M6 x 20	25	887-6118	5.92
M6 x 25	25	887-6126	11.07
M6 x 30	25 25	887-6134	11.27
M6 x 32 M6 x 40	25 25	887-6142 887-6169	6.36 9.32
M6 x 50	25	887-6177	12.30
M6 x 60	25	887-6185	8.40
M8 x 20	25	887-6193	3.58
M8 x 25	25	887-6207	6.92
M8 x 30	25	887-6215	7.29
M8 x 40	25	887-6231	6.00
M8 x 50	25	887-6240	6.00







# **Engineering Materials - continued**

# **Extractable Dowel Pins**



BS 1804 (part 3, grade 1). Case hardened extractable pins.

Thread x lgth (mm)	Pack qty	Order Code	Price Each 1+
M8 x 25	25	887-6339	24.60
M8 x 30	25	887-6347	25.00
M8 x 40	25	887-6363	17.35
M8 x 50	25	887-6371	21.20
M10 x 25	25	887-6398	25.60
M10 x 30	25	887-6401	27.05
M10 x 40	25	887-6410	21.35
M10 x 50	25	887-6428	22.41
M10 x 60	10	887-6436	10.24

# **Netlon Protective Sleeving**





- Netlon protective sleeving provides effective and economical protection for a wide range of products during manufacture, storage and distribution
- Widely used in engineering to protect machined components during the manufacturing process and on through de-
- Netlon protective sleeving offers exceptional stretch capability and flexibility enabling a wide range of diameters and irregular shapes to be protected

  Manufactured from chemically resistant polymers, Netlon protective sleeving is very easy to handle and apply

				434101
olour	To Fit Diameter(mm)	Length (m)	Order Code	Price Each 1+
Vhite	50-65	25	310-088	17.96
irey				24.36
				23.42
				35.36 39.65
loval blue	190-225	25	310-092	70.20
	/hite rey ellow ight blue reen	olour Diameter(mm) /hite 50-65 rey 65-80 ellow 80-100 ight blue 100-125 reen 125-160	olour         Diameter(mm)         (m)           /hite         50-65         25           rey         65-80         25           ellow         80-100         25           ight blue         100-125         25           reen         125-160         25	olour         Diameter(mm)         (m)         Order Code           /hite         50-65         25         310-088           rey         65-80         25         310-089           ellow         80-100         25         310-090           ight blue         100-125         25         310-091           reen         125-160         25         310-092

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