

Product Guide 2013

HIGH SPEE

SIME









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2 Cert No. FM12290
THE OFFICIAL MARK OF QUALITY
Dedication to quality has earned official accreditation of the BSEN ISO 9001:2008 Quality Assurance Certificate for the general manufacture of all our hand tools.
This represents another important milestone in NEILL TOOLS history, since this is internationally recognised as a mark of quality.
In addition, we guarantee all our tools and products against defective workmanship and materials so you can be sure of first-class quality every time.

ECLIPSE PROFESSIONAL TOOLS

HAND & POWER HACKSAW BLADES SAW FRAMES & BLADES HOLESAWS & ARBORS CUTTING & GRINDING ABRASIVES DISCS BOLT & CABLE CUTTERS SNIPS



Eclipse saw blade robot



ECLIPSE - THE NUMBER ONE NAME IN METAL CUTTING

With a proud history of hacksaw blade manufacture stretching back nearly 100 years, Eclipse hacksaw blades have become synonymous with engineering excellence and continuous product development. As a result, Eclipse is now firmly established as the number one global metal cutting brand.

ECLIPSE PLUS 30 – A REVOLUTIONARY BLADE DESIGN

Following many years of research into the most effective cutting profile possible, Neill Tools has developed an entirely new blade tooth shape that enables a 30 percent faster cut over conventional blades. The result of this is the Eclipse Plus 30 range.

Why are Eclipse Plus 30 blades faster? - They are precision-ground to the finest tolerances, making them much sharper than conventional milled blades.



- Their tooth geometry has been designed to give a positive rake angle that is more aggressive and therefore faster than conventional milled blades. Our tests show a 30% faster cut, hence the name 'Plus 30'.

-REPROS

ECLIPSE PLUS 30 – CONFIRMED BY INDEPENDENT TESTING

Independent testing by the University of Northumbria in Newcastle has verified the claims made about the Eclipse Plus 30 blade. Using both machine and hand testing, the Eclipse Plus 30 has been thoroughly tested and the improvement in cutting ability has been confirmed. These two inset shots illustrate the difference between a ground and a milled blade under magnification.

BINETAL HIGH SALES

MILLED TOOTH SHAPE - STANDARD



GROUND TOOTH SHAPE - PLUS 30





HAND HACKSAW BLADES

Plus 30 Flexible BiMetal HSS

Part No	Blade Size mm	Blade Size inches	Teeth per 25mm	PIN dia. mm	Pack Size	Pack Weight (kg)
AA3025G	250 x 12.5 x 0.63	10 x ½ x 0.025	18	4	100	1.63
AA3026E	250 x 12.5 x 0.63	10 x ½ x 0.025	24	4	100	1.63
AA3027V	250 x 12.5 x 0.63	10 x ½ x 0.025	32	4	100	1.63
AA3045E	300 x 12.5 x 0.63	12 x ½ x 0.025	18	4	100	1.90
AA3046V	300 x 12.5 x 0.63	12 x ½ x 0.025	24	4	100	1.90
AA3047R	300 x 12.5 x 0.63	12 x ½ x 0.025	32	4	100	1.90

cutting performance, wear resistance and safety.

blades.

standard blade

stainless steels.

The combination of an M2 High Speed ground cutting

edge, electron-beam welded to a flexible alloy back

gives a level of cutting power and flexibility that is far

superior to edge hardened or conventional flexible

The unique ground tooth profile of the Plus 30 blade

produces a faster and more aggressive cutting action

that requires less effort and is more efficient than a

Cuts through all types of metals including alloy and

Blade Size

12 x ½ x 0.025

dia. 25

> 14 4 100 1.90

> 18 4 100 1.90

24 4

32 4 100 1.90

inch

• 30% MORE CUTTING POWER

• SHARPER FIRST CUT

LONGER LIFE

All Hard HSS

Blade Size

300x12.5x0.63

300x12.5x0.63

300x12.5x0.63

300x12.5x0.63

Part No

AE44W

AE45B

AE46X

AE47K

Part No	Blade Size mm	Blade Size inches	Teeth per 25mm	PIN dia. mm	Pack Size	Pack Weight (kg)
AE3025W	250 x 12.5 x 0.63	10 x ½ x 0.025	18	4	100	1.63
AE3026B	250 x 12.5 x 0.63	10 x ½ x 0.025	24	4	100	1.63
AE3044W	300 x 12.5 x 0.63	12 x ½ x 0.025	14	4	100	1.90
AE3045B	300 x 12.5 x 0.63	12 x ½ x 0.025	18	4	100	1.90
AE3046X	300 x 12.5 x 0.63	12 x ½ x 0.025	24	4	100	1.90
AE3047K	300 x 12.5 x 0.63	12 x ½ x 0.025	32	4	100	1.90

Plus 30 All Hard HSS

ECLIPSEPlys 30 ECLIPSEPING 3 0

A virtually unbreakable bimetal blade for superb A rigid, All Hard ground blade for highly accurate cutting and long life.

> The All Hard blade is manufactured entirely from top quality M2 High Speed Steel and each blade is precisely hardened throughout its entire width to give a strong, rigid back, thus ensuring a perfectly straight cut time after time.

> For the best performance from All Hard blades, the workpiece should be securely held in a clamp or vice to prevent shattering of the blade and safety goggles should be worn.

> The unique ground tooth profile of the Plus 30 blade produces a faster and more aggressive cutting action that requires less effort and is more efficient than a standard blade.

> > Blade Size

12x ½ x 0.025

18

24

4 100

4 100

4 100 1.80

1 80

1.80

• 30% MORE CUTTING POWER

Flexible Shatterproof HSS

300x12.5x0.63 12x ½ x 0.025

300x12.5x0.63 12x ½ x 0.025 32

• SHARPER FIRST CUT

• LONGER LIFE

Part No

AS45A

AS46D

AS47P

(kg)

100 1.90

Blade Size

300x12.5x0.63

Part No	Blade Size mm	Blade Size inches	Teeth per 25mm	PIN dia. mm	Pack Size	Pack Weight (kg)	
AA45E	300 x 12.5 x 0.63	12 x ½ x 0.025	18	4	100	1.90	
AA46V	300 x 12.5 x 0.63	12 x ½ x 0.025	24	4	100	1.90	
AA47R	300 x 12.5 x 0.63	12 x ½ x 0.025	32	4	100	1.90	

Elexible BiMetal HSS

ECLIPSE CAT. No. AA46V 0

Cuts through all types of metals including alloys and stainless steels.

A virtually unbreakable bimetal blade for superb cutting performance, wear resistance and safety.

The combination of an M2 High Speed cutting edge and electron-beam welded to a flexible alloy back gives a level of cutting power and flexibility that is far superior to edge hardened or conventional flexible blades.

Cuts through all types of metals including alloy and stainless steels.

• HIGH PERFORMANCE

• SHATTERPROOF BLADE

Flexible Silicon Shatterproof											
Part No	Blade Size mm	Blade Size inches	Teeth per 25mm	PIN dia. mm	Pack Size	Pack Weight (kg)					
AM25L	250x12.5x0.63	10 x ½ x 0.025	18	4	100	1.60					
AM26W	250x12.5x0.63	10 x ½ x 0.025	24	4	100	1.60					
AM44L	300x12.5x0.63	12 x ½ x 0.025	14	4	100	1.80					
AM45W	300x12.5x0.63	12 x ½ x 0.025	18	4	100	1.80					
AM46B	300x12.5x0.63	12 x ½ x 0.025	24	4	100	1.80					
AM47X	300x12.5x0.63	12 x ½ x 0.025	32	4	100	1.80					
•	ECLI	PSE	CAT: Noil-Te	No.	AM47	x					

A rigid, All Hard blade for highly accurate cutting and lona life.

Manufactured entirely from top quality High Speed Steel, each blade is precisely hardened throughout its entire width to give a strong, rigid back, ensuring a perfectly straight cut time after time.

For the best performance from All Hard blades the workpiece should be securely held in a clamp or vice to prevent shattering of the blade and safety goggles should be worn.

Cuts through all types of metals including alloy and stainless steels.

- ACCURATE CUTTING
- LONG LIFE



A virtually unbreakable, edge hardened blade, which offers flexibility and safety but less wear resistance than an All Hard or bimetal blade.

- EDGE HARDENED
- SHATTERPROOF BLADE
- LONGER LIFE

A virtually unbreakable blade suitable for DIY use. Manufactured from low alloy silicon steel, this blade is ideal for general purpose sawing of mild steel, brass,

aluminium, copper and other soft metals.

SHATTERPROOF BLADE

GENERAL PURPOSE

PACKAGING **OPTIONS** Plastic boxes Tubes of prefix part 10 blades no. with see page 9 "PB"

STATEMENT OF CONFORMITY

in general compliance with British Standard BS 1919: Part 1: 1993 - Specification for hand and machine hacksaw blades



HAND HACKSAW BLADES

HAND BLADE TOOTH PITCH SELECTION

To select the hacksaw blade with the correct number of teeth for the task, consider the following elements:

- How thick is the material to be cut? For thin sections, the highest number of teeth should be used and vice versa for thicker sections.
- What type of material is to be cut?

The table opposite is a guide to tooth pitch selection for different materials and various thicknesses.



POWER HACKSAW BLADES

	wo	RKPIE		IICKN	ESS
WORKPIECE MATERIAL	mm inch	3 1/8	6 1/4	10 3/8	13 1/2
Magnesium Aluminium Free Machining Low Carbon Steels		32	24 18		14
Brass, Copper, Carbon Steels, Low and Medium Carbon Structural Steels	3	32	24		18 14
High Carbon Steels, Bronze, Tool Steels, Die Steel,		32			
Alloy Steels, Stainless Steels, Copper Alloys					24
Malleable Cast Iron, Titanium Alloys, High Temperature Alloys (Inconel, Nimonic, Hastelloy, Incolony), Nickol Alloys (Monel, Duranickel)					18

The comprehensive range of **ECLIPSE** Power Hacksaw Blades will suit virtually all popular sawing machines including the Kasto range. The continuous development of our range has improved the long-term sharpness of the blades. To reflect this advance the blades are now known as 'Super Hardened'. There is a choice of All Hard HSS or Bimetal HSS blades with a wide range of sizes and tooth pitch to cater for all varieties of materials and thicknesses.

ALL HARD HSS

Manufactured entirely from top quality M2 High Speed Steel and hardened throughout, these blades are capable of cutting even the most difficult materials with great accuracy and combine consistent high performance with long life. This range also includes light power blades of 16mm (5%") width.

BI METAL HSS

Manufactured from M2 High Speed Steel, electron beam welded to a spring steel back, these bimetal blades are able to withstand heavy feed pressures, giving economical, high cutting rates. Because these blades are virtually unbreakable in normal use, they are particularly safe and therefore suitable for use by unskilled operators or on older machines. They will cut through most types of material including alloy and stainless steels.

TOOTH FORM

All Eclipse power blades feature a regular tooth form with a full, round and smooth gullet which is ideal for use on all ferrous metals and for general purpose cutting.

TOOTH SET

All Eclipse power blades are either raker set or wavy set dependent on tooth size and blade thickness. Wavy set helps eliminate tooth stripping when sawing thin sections such as tubing and pipe, whilst raker set is ideal for the majority of other sawing tasks.

APPROVALS AND SPECIFICATION

All **Eclipse** power blades are manufactured to BSEN ISO 9001: 2008 quality assurance standard.

POWER BLADE TOOTH PITCH SELECTION

The table on the right is a guide to tooth pitch selection for different materials and various thicknesses. Also included are suggested running speeds and strokes per minute. For thinner workpieces select the faster blade speed and for thicker pieces select the slower speed.

		WC	RKF	PIEC	ETH	HICK	(NES	S
WORKPIECE MATERIAL	SPEED STROKES/Min	mm inch	13 ½	25 1	50 2	75 3	100 4	125 5
Magnesium Aluminium Free Machining Lo	140-160 100-160 ow	14	10	6				
Carbon Steels Brass Copper Mild Steel	140-160 120-150 90-120 110-150	14		10	6			4
& Medium Carbor Structural Steels	w 190-160 100-125							4
High Carbon Stee Bronze Tool Steels Die Steels	ls 50-100 100-120 60-80 50-75		14	10	6			4
Alloy Steels Copper Alloys Malleable Cast Irc Titanium Alloys Grey Cast Irons	45-95 70-120 ons 50-90 50-70 70-100							4
High Temperature Alloys (Inconel, Nimonic, Waspaloy) Nickel Alloys (Monel, Duranicke	35-75 , Hastelloy, Incoloy, 30-60 ⊵I)		10	6				4



METAL CUTTING

POWER HACKSAW BLADES



ALL HARD HSS

Manufactured entirely from top quality M2 High Speed Steel and hardened throughout, these blades are capable of cutting even the most difficult metals with great accuracy and combine consistent high performance with long life. This range also includes light power blades of 16mm (58") width.

BiMetal High Speed Steel

Manufactured from High Speed Steel, electron beam welded to a spring steel back, these bimetal blades are able to withstand heavy feed pressures, giving economical, high cutting rates. Because these blades are virtually unbreakable in normal use, they are particularly safe and therefore suitable for use by unskilled operators or on older machines. They will cut through most types of metals including alloy and stainless steels.

Part No	Blade Size mm	Blade Size inches	Teeth per 25mm	PIN dia. mm	Pack Size	Pack Weight (kg)
AE144N	300 x 16 x 0.80	12 x %x 0.032	14	5	50	1.60
AE145L	300 x 16 x 0.80	12 x %x 0.032	18	5	50	1.60
AE146W	300 x 16 x 0.80	12 x %x 0.032	24	5	50	1.60
AE203V	300 x 25 x 1.25	12 x 1 x 0.050	10	8.2	10	0.79
AE204R	300 x 25 x 1.25	12 x 1 x 0.050	14	8.2	10	0.79
4 5000D	050 05 1.05	1410.050	0	0.0	10	0.04
AE222B	350 X 25 X 1.25	14 X I X 0.050	0 10	8.2	10	0.94
AE223R	350 x 25 x 1 25	14 x 1 x 0.050	14	8.2	10	0.54
	550 X 25 X 1.25	14 X 1 X 0.030	14	0.2	10	0.34
AE342E	350 x 32 x 1.60	14 x 1¼ x 0.062	6	8.2	10	1.50
AE343V	350 x 32 x 1.60	14 x 1¼ x 0.062	10	8.2	10	1.50
AE344R	350 x 32 x 1.60	14 x 1¼ x 0.062	14	8.2	10	1.50
AE452W	350 x 38 x 2.00	14 x 1½ x 0.075	6	8.2	10	1.06
AE243H	400 x 25 x 1.25	16 x1 x 0.050	10	8.2	10	1.06
AE244M	400 x 25 x 1.25	16 x 1 x 0.050	14	8.2	10	1.06
AE352X	400 x 32 x 1.60	16 x 1¼x 0.062	6	8.2	10	1.72
AE353K	400 x 32 x 1.60	16 x 1¼x 0.062	10	8.2	10	1.72
AE354C	400 x 32 x 1.60	16 x 1¼ x 0.062	14	8.2	10	1.72
AE462G	400 x 38 x 2.00	16 x 1½ x 0.075	6	8.2	10	2.50
AE263M	425 x 25 x 1.25	17 x 1 x 0.050	10	8.2	10	1.12
AE362V	425 x 32 x 1.60	17 x 1¼x 0.062	6	8.2	10	1.80
AE363R	425 x 32 x 1.60	17 x 1¼ x 0.062	10	8.2	10	1.80
AE270K	450 x 22 x 1 60	18 x 11/ x 0.062	6	10.2	10	1.99
AE373C	450 x 32 x 1.00	18 x 1½ x 0.062	10	10.2	10	1.88
AL0700	400 X 02 X 1.00	10 x 1/4 x 0.002	10	10.2	10	1.00
AE471W	450 x 38 x 2.00	18 x 1½ x 0.075	4	10.2	10	2.68
AE472B	450 x 38 x 2.00	18 x 1½ x 0.075	6	10.2	10	2.68
AE512M	450 x 45 x 2.25	18 x 1¾ x 0.088	6	10.2	10	3.90
AE522A	475 x 45 x 2.25	19 x 1¾ x 0.088	6	10.2	10	3.95
AE482E	500 x 38 x 2.00	20 x 1½x 0.075	6	10.2	10	3.00
AE492X	525 x 38 x 2.00	21 x 1½x 0.075	6	10.2	10	3.30
AE493K	525 x 38 x 2.00	21 x 1½x 0.075	10	10.2	10	3.30
	505 x 45 x 0.05	01 × 13/ × 0.000	4	10.0	10	4.20
AE541A	525 X 45 X 2.25	21 X 1% X 0.088	4	10.2	10	4.30
ALJ42D	JZJ X 4J X 2.2J	21 x 1/4 x 0.000	U	10.2	10	4.30
AE622C	550 x 50 x 2.50	22 x 2 x 0.100	6	12.5	10	5.60
AE631R	575 x 50 x 2.50	23 x 2 x 0.100	4	12.5	10	5.93
AE632H	575 x 50 x 2.50	23 x 2 x 0.100	6	12.5	10	5.93
AE562P	600 x 45 x 2.25	24 x 1¾ x 0.088	6	12.5	10	4.90
AE641C	600 x 50 x2.50	24 x 2 x 0.100	4	12.5	10	6.40
AE642J	600 x 50 x2.50	24 x 2 x 0.100	6	12.5	10	6.40
AE651H	650 x 50 x 2 50	26 x 2 x 0 100	Л	12.5	10	6.06
AE652M	650 x 50 x 2.50	26 x 2 x 0.100	- 6	12.5	10	6.96
AE662A	700 x 50 x 2.50	28 x 2 x 0.100	6	12.5	10	7.35
456015	750 x 62 x 2 50	20 x 21/ x 0 100		10.5	10	10.00
AE091F	1 DU X 03 X 2.50	30 X 2½ X 0.100	4	12.5	10	10.08

AE691F 7	50 x 63 x 2.50	30 x 2½ x 0.100	4	12.5	10	10.08
SUITABLE FOR	USE WITH KAST	O HACKSAWING MACHI	NES			
AE972G 4	50 x 38 x 2.00	18 x 1½ x 0.075	10	8.5	10	2.80
AE982B 5	75 x 50 x 2.50	23 x 2 x 0.100	4	10.5	10	5.96
AE983X 5	75 x 50 x 2.50	23 x 2 x 0.100	6	10.5	10	5.96

Part No	Blade Size mm	Blade Size inches	Teeth per 25mm	PIN dia. mm	Pack Size	Pack Weight (kg)
AA203K	300 x 25 x 1.25	12 x 1 x 0.050	10	8.2	10	1.03
AA204C	300 x 25 x 1.25	12 x 1 x 0.050	14	8.2	10	1.03
AA223C	350 x 25 x 1.25	14 x 1 x 0.050	10	8.2	10	1.16
AA224J	350 x 25 x 1.25	14 x 1 x 0.050	14	8.2	10	1.16
AA342X	350 x 32 x 1.60	14 x 1¼ x 0.062	6	8.2	10	1.56
AA343K	350 x 32 x 1.60	14 x 1¼x 0.062	10	8.2	10	1.56
AA352V	400 x 32 x 1.60	16 x 1¼x 0.062	6	8.2	10	1.78
AA353R	400 x 32 x 1.60	16 x 1¼ x 0.062	10	8.2	10	1.78
AA462B	400 x 38 x 2.00	16 x 1½x 0.075	6	8.2	10	2.68
AA463X	400 x 38 x 2.00	16 x 1½x 0.075	10	8.2	10	2.68
AA372R	450 x 32 x 1.60	18 x 1¼ x 0.062	6	10.2	10	1.96
AA373H	450 x 32 x 1.60	18 x 1¼x 0.062	10	10.2	10	1.96
AA472E	450 x 38 x 2.00	18 x 1½ x 0.075	6	10.2	10	3.02
AA473V	450 x 38 x 2.00	18 x 1½ x 0.075	10	10.2	10	3.02
AA482X	500 x 38 x 2.00	20 x 1½x 0.075	6	10.2	10	3.35
AA492V	525 x 38 x 2.00	21 x 1½x 0.075	6	10.2	10	3.52



STATEMENT OF CONFORMITY Hacksaw and Power Blades - in general compliance with British Standard BS 1919 : Part 1: 1993 - Specification for hand and machine hacksaw blades



METAL CUTTING

SAW FRAMES



SAW FRAMES

70-22TR			70-20TR/20TND				70-2	70-20TSF									
Code	Description	Length	Height per	Packs outer	Box Weight (Kg)	Code	Description	Length	Height	Packs per outer	Box Weight (Kg)	Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-22TR	Hacksaw SF	400mm(16")	132mm(5.1")	5	3.6	70-20TR 20TND*	Prof. Hacksaw Prof. Hacksaw	465mm(18 ^{//1}) 465mm(18 ^{//1})	130mm(5" 130mm(5"	") 5 ") 20	3.85 14.75	70-20TSF	Professional SF	460mm(18 ³ /	") 127mm(5') 5	2.5



The new 22T has soft-feel handle, Epoxy coated moulded section steel frame and comes complete with an **ECLIPSE** +30 bimetal blade



The world famous, best selling hacksaw featuring a die cast handle, tubular frame complete with an **ECLIPSE** bimetal blade. The 20T has set the standard for all other makes - but the best is still the original 20T from ECLIPSE

* Hacksaws without Plus 30 blades are only available in selected non U.K. markets



The world famous, best selling hacksaw featuring a die cast handle, tubular frame complete with an **ECLIPSE** +30 bimetal blade, but with the added comfort of a soft-feel handle

18TND									
Code	Description	Length	Height I per	Packs outer	Box Weight (Kg)				
18TND*	Hacksaw	443mm(17½")	132mm(5½")	10	4.4				



16TND Length Height **Packs** Box V per outer (Ka) 16TND* 430mm (165/6") 132mm(51/4") Hacksaw 10 4.4



A lightweight, economical hacksaw with a strong, box section tubular steel frame and a comfortable and durable cast aluminium handle. In addition, the extra long location pin gives increased security of the tensioning bit. Comes complete with an **ECLIPSE** bimetal blade

cksaws without Plus 30 blades are only available in selected non U.K. markets

			1	per outer	(Kg)
40PG30	Pistol Grip	485mm(19")	120mm(4%")	5	3.50
40PG	Pistol Grip	485mm(19")	120mm(4%")	5	3.50

40PG30/40PG



A traditional pistol grip hacksaw with diecast handle, solid frame and an **ECLIPSE** bimetal blade 40PG30 Includes a Plus30 blade 40PG Includes a Standard blade

Tremendous value for money without compromising on the strength and lightness synonymous with the **ECLIPSE** brand. Comes complete with an **ECLIPSE** bimetal blade

* Hacksaws without Plus 30 blades are only available in selected non U.K. markets

Packs Box Weight

METAL CUTTING

SAW FRAMES



A budget hacksaw with tubular steel frame and plastic handle supplied with an **ECLIPSE** flexible silicon steel blade

* Hacksaws without Plus 30 blades are only available in selected non U.K. markets



Mini Saw

Packs

5

Height

250mm(10") 100mm(4")

A more substantial version of the Junior hacksaw with plastic moulded pistol grip handle, steel frame and **ECLIPSE** blade. Blade tensioning device incorporated in the handle



The best selling Junior Hacksaw with an epoxy coated steel frame and **ECLIPSE** metal cutting blade



Padsaw for sawing in confined places, e.g. when cutting out keyholes or letter boxes. Diecast handle supplied with 2 blades, one for wood cutting and one for metal. The handle can hold the blade in one of two positions for maximum flexibility in use

70-CP1R								
Code	Description	Length	Height pe	Packs r outer	Box Weight (Kg)			
70-CP1R	Coping	315mm(12 ^{3/} ")	130mm(5 ¹ / ₈ ")	5	1.50			





72-66XR Packs per outer 72-66XR General Purpos 465mm(18¹/4") 5

(Kg)

2.70



General purpose saw for cutting through wood, plastics and soft metals (such as nails). Polyester coated blade and diecast 9 position handle to enable cutting in difficult positions

S1R

PS51						70-F
Code	Description	Length	Height	Packs per outer	Box Weight (Kg)	Code
PS51	Piercing Saw	292mm(11 ¹ ⁄2")	95mm(3 ³ /	¼") 5	0.90	70-FS1R



Coping saw for cutting and shaping in wood. Comfortable wooden handle and steel frame. Blades can be positioned at any angle to the frame



Piercing saw for use in fine metal work such as jewellery and dentistry. Comfortable wooden handle and steel frame. Includes 32tpi blade

Fretsaw for fine cutting work in thin materials such as wood, bone, plastics, etc - ideal for model makers. Comfortable wooden handle and steel frame

70-CP1RSF - Soft feel handle





Coping saw for cutting and shaping in wood, with a soft-feel handle for extra comfort and steel frame. Blades can be positioned at any angle to the frame



70-FS1RSF - Soft feel handle



Fretsaw for fine cutting work in thin materials such as wood, bone, plastics, etc - ideal for model makers. Comfortable soft feel handle and steel frame

STATEMENT OF CONFORMITY Hacksaw Frames - in general compliance with British Standard BS 7398 : 1991 - Specification for hand hacksaw frames.

SMALL SAW BLADES

Part No	Description	Length	Teeth per 25mm	No. of blades in pack	Pack Size	Box Weight (kg)
71-418	Bimetal blades	300mm (12")	18	2	10	-
71-424 R	Bimetal blades	300mm (12")	24	2	10	-
71-432 R	Bimetal blades	300mm (12")	32	2	10	-
171-624R	Triple pack of Hacksaw Blades		-	-	10	0.9
	- Bimetal blades	300mm (12")	18	1	-	-
	- Bimetal blades	300mm (12")	24	1	-	-
	- Bimetal blades	300mm (12")	32	1	-	-
71-224 R	Silicon blades	300mm (12")	24	5	10	-
271-132R	Junior blades	150mm (6")	32	10	10	-
71-114 R	Junior-wood	150mm (6")	14	10	10	-
71-230 R	Padsaw blades					
	- wood	254mm (10")	10	1	10	-
	- metal	203mm (8")	24	1	10	-
71-CP7 R	Coping Saw blades	165mm (6½'')	14	10	10	-
71-CP24 R	Coping Saw blades	165mm (6½'')	24	10	10	-
71-FS5 R	Fretsaw blades	125mm (5")	18	10	10	-
73-66SR	GP saw spare blade	375mm (15¾")	10	1	10	-
FS32	Fretsaw Blades	125mm (5")	32	100	1	0.30
FS22	Fretsaw Blades	125mm (5")	22	100	1	0.30
FS18	Fretsaw Blades	125mm (5")	18	100	1	0.30
FS16	Fretsaw Blades	125mm (5")	16	100	1	0.30
PS80	Piercing Saw Blades	125mm (5")	80	100	1	0.20
PS60	Piercing Saw Blades	125mm (5")	60	100	1	0.20
PS52	Piercing Saw Blades	125mm (5")	52	100	1	0.20
PS44	Piercing Saw Blades	125mm (5")	44	100	1	0.20
PS32	Piercing Saw Blades	125mm (5")	32	100	1	0.20

Teeth per inch guide

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Plus30 Blades -Tubes of 10									
Part No mm	Blade Size inches	Blade Size per 25mm	Teeth dia. mm	PIN Size	Pack Weight (kg)	Pack Size			
+30BM18TUBE	300 x 12.5 x 0.63	12 x ½ x 0.025	18	4	1.63	100			
3 +30BM24TUBE	300 x 12.5 x 0.63	12 x ½ x 0.025	24	4	1.63	100			
+30BM32TUBE	300 x 12.5 x 0.63	12 x ½ x 0.025	32	4	1.63	100			

METAL CUTTING

HOLESAWS

ECLIPSE bi-metal holesaws are constructed from hardened, heat and abrasive resisting M3 high speed steel teeth electron-beam welded to a tough alloy body and cap. This gives them exceptional strength, durability, shatter resistance and safety. Due to the superior and robust construction, the Eclipse holesaws have the capability of cutting through virtually any machineable material, including cast iron, stainless steel, brass, bronze, aluminium, plastics and wood. Available in variable 4/6 pitch teeth for all purpose application or constant 6 pitch teeth ideal for thin sheet metal application. Full range of sizes from 14mm - 152mm in vari pitch and up to 76mm in constant pitch.

VARI-PITCH - All purpose Holesaws 4/6 pitch teeth

Part No	Diameter	Part No	Diameter	Part No	Diameter
EBV30-14	14mm (%s")	EBV30-16	16mm (%")	EBV30-17	17mm (11/16")
EBV30-19	19mm (¾''')	EBV30-20	20mm (²⁵ / ₃₂ '')	EBV30-21	21mm (13/16"')
EBV30-22	22mm (%")	EBV30-24	24mm (15/16")	EBV30-25	25mm (1")
EBV30-27	27mm (11/16 ")	EBV30-29	29mm (1½")	EBV30-30	30mm (1¾")
EBV30-32	32mm (1¼")	EBV30-33	33mm (1⁵⁄₁₅'')	EBV30-35	35mm (1%'')
EBV30-37	37mm (1∛16")	EBV30-38	38mm (1½")	EBV30-40	40mm (1%")
EBV30-41	41mm (1%'')	EBV30-43	43mm (111/16")	EBV30-44	44mm (1¾")
EBV30-46	46mm (1 ¹ 3⁄16")	EBV30-48	48mm (1∛")	EBV30-51	51mm (2")
EBV30-52	52mm (21/16"')	EBV30-54	54mm (2½")	EBV30-55	55mm (2¾")
EBV30-57	57mm (2¼'')	EBV30-59	59mm (2⁵⁄₁₀'')	EBV30-60	60mm (2%''')
EBV30-64	64mm (2½")	EBV30-65	65mm (2 [%] 16")	EBV30-67	67mm (2%")
EBV30-68	68mm (211/16"')	EBV30-70	70mm (2¾")	EBV30-73	73mm (2½")
EBV30-76	76mm (3")	EBV30-79	79mm (3½")	EBV30-83	83mm (3¼")
EBV30-86	86mm (3¾'')	EBV30-89	89mm (3½")	EBV30-92	92mm (3%")
EBV30-95	95mm (3¾'')	EBV30-98	98mm (3%")	EBV30-102	102mm (4")
EBV30-105	105mm (41/8"')	EBV30-108	108mm (4¼")	EBV30-111	111mm (4%'')
EBV30-114	114mm (4½")	EBV30-121	121mm (4¾")	EBV30-127	127mm (5")
EBV30-140	140mm (5½")	EBV30-152	152mm (6")		

CONSTANT PITCH - Thin sheet metal Holesaws constant pitch teeth

Part No	Diameter	Part No	Diameter	Part No	Diameter
EBC-16	16mm (%")	EBC-27	27mm (11/16 '')	EBC-60	60mm (2%'')
EBC-19	19mm (¾'')	EBC-32	32mm (1¼")	EBC-64	64mm (2½")
EBC-20	20mm (25/32")	EBC-35	35mm (1%'')	EBC-76	76mm (3")
EBC-22	22mm (%")	EBC-38	38mm (1½")		
EBC-25	25mm (1 '')	EBC-51	51mm (2")		

All packed in single units.



- A SHARPER, MORE ACCURATE CUT
- CUTS FASTER
- STAYS SHARPER **FOR LONGER**

Available in boxed singles or 16mm - 105mm on Retail Hanging Tabs.



Recon	nmended	Cutting	Spe	eds				
Product Code	Product Code	Diameter	Mild Steel	Tool & Stainless Steel	Cast Iron	Brass	Aluminium	Wood
BOXED	RETAIL	\oslash				Ì		
EBV30-14		14mm (‰")	550	330	400	790	900	3000
EBV30-16	EBV30-16-RET	16mm (%")	530	275	365	730	825	3000
EBV30-17	EBV30-17-RET	17mm (11/16")	500	250	330	665	750	3000
EBV30-19	EBV30-19-RET	19mm (¾")	460	230	300	600	690	3000
EBV30-20	EBV30-20-RET	20mm (²⁵ / ₃₂ ")	460	230	300	600	690	3000
EBV30-21	EBV30-21-RET	21mm (13/16")	425	210	280	560	630	3000
EBV30-22	EBV30-22-RET	22mm (%")	390	195	260	520	585	3000
EBV30-24	EBV30-24-RET	24mm (15/16")	370	185	245	495	555	3000
EBV30-25	EBV30-25-RET	25mm (1")	350	175	235	470	525	2700
EBV30-27	EBV30-27-RET	27mm (11/16")	325	160	215	435	480	2700
EBV30-29	EBV30-29-RET	29mm (1½")	300	150	200	400	450	2700
EBV30-30	EBV30-30-RET	30mm (1%")	285	145	190	380	425	2400
EBV30-32	EBV30-32-RET	32mm (1¼")	275	140	180	360	410	2400
EBV30-33	EBV30-33-RET	33mm (1%")	260	135	175	345	390	2400
EBV30-35	EBV30-35-RET	35mm (1%")	250	125	165	330	375	2400
EBV30-37	EBV30-37-RET	37mm (11/16")	240	120	160	315	360	2400
EBV30-38	EBV30-38-RET	38mm (1½")	230	115	150	300	345	2400
EBV30-40	EBV30-40-RET	40mm (1%6")	220	110	145	290	330	2100
EBV30-41	EBV30-41-RET	41mm (1%")	210	105	140	280	315	2100
EBV30-43	EBV30-43-RET	43mm (1 ¹ / ₁₆ ")	205	100	135	270	305	2100
EBV30-44	EBV30-44-RET	44mm (1¾")	195	95	130	260	295	2100
EBV30-46	EBV30-46-RET	46mm (1 ¹ %")	190	95	125	250	285	2100
EBV30-48	EBV30-48-RET	48mm (1%")	180	90	120	240	270	2100
EBV30-51	EBV30-51-RET	51mm (2")	170	85	115	230	255	2000
EBV30-52	EBV30-52-RET	52mm (21/16")	165	80	110	220	245	2000
EBV30-54	EBV30-54-RET	54mm (2½")	160	80	105	210	240	2000
EBV30-55	EBV30-55-RET	55mm (2 ³ / ₆ ")	150	75	100	200	230	2000
EBV30-57	EBV30-57-RET	57mm (2¼")	150	75	100	200	230	2000
EBV30-59	EBV30-59-RET	59mm (2‰")	145	75	100	195	225	2000
EBV30-60	EBV30-60-RET	60mm (2%")	140	70	95	190	220	2000
EBV30-64	EBV30-64-RET	64mm (2½")	135	70	90	180	205	1800
EBV30-65	EBV30-65-RET	65mm (2%")	130	65	85	175	200	1800
EBV30-67	EBV30-67-RET	67mm (2%")	130	65	85	170	195	1800
EBV30-68	EBV30-68-RET	68mm (211/16")	130	65	85	165	190	1800
EBV30-70	EBV30-70-RET	70mm (2¾")	125	60	80	160	185	1800
EBV30-73	EBV30-73-RET	73mm (2%")	120	60	80	160	180	1800
EBV30-76	EBV30-76-RET	76mm (3")	115	55	75	150	170	1500
EBV30-79	EBV30-79-RET	79mm (3½")	110	55	70	145	165	1500
EBV30-83	EBV30-83-RET	83mm (3¼")	105	50	70	140	155	1500
EBV30-86	EBV30-86-RET	86mm (3%")	100	50	65	130	150	1200
EBV30-89	EBV30-89-RET	89mm (3½")	95	45	65	125	145	1200
EBV30-92	EBV30-92-RET	92mm (3%")	95	45	60	120	140	1200
EBV30-95	EBV30-95-RET	95mm (3¾")	90	45	60	120	135	1200
EBV30-98	EBV30-98-RET	98mm (3 ⁷ /")	90	45	60	115	130	1200
EBV30-102	EBV30-102-RE	102mm (4")	85	40	55	115	125	1000
EBV30-105	EBV30-105-RE	105mm (4½")	85	40	55	110	120	1000
EBV30-108		108mm (4¼")	80	40	55	110	115	900
EBV30-111		111mm (4%")	80	40	50	100	110	900
EBV30-114		114mm (4½")	75	35	50	100	105	900
EBV30-121		121mm (4¾")	70	35	45	90	95	900
EBV30-127		127mm (5")	65	30	40	85	90	900
EBV30-140		140mm (5½")	60	30	35	80	85	800
EBV30-152		152mm (6")	55	25	35	75	80	800

STATEMENT OF CONFORMITY Holesaw Arbors - in general compli

METAL CUTTING

HOLESAW KITS

HOLES	AW KITS			
Part No	Diameter	ELECTRICIANS Kit EE30-K	GENERAL PURPOSE KIT EGP30-K	ELECTRICIANS & Plumbers K EEP30-K
HOLES	AWS			
EBV30-16	16mm (%")	*	-	-
EBV30-20	20mm (²⁵ / ₃₂ ")	*	-	*
EBV30-22	22mm (%")	-	*	*
EBV30-25	25mm (1")	*	-	-
EBV30-29	29mm (1½")	-	*	*
EBV30-32	32mm (1¼")	*	-	-
EBV30-35	35mm (1%″)	-	*	*
EBV30-38	38mm (1½")	*	-	*
EBV30-44	44mm (1¾")	-	*	*
EBV30-51	51mm (2")	*	*	*
EBV30-57	57mm (2¼")	-	-	*
EBV30-64	64mm (2½")	-	*	*
ARBOR	S			
E4	14-30mm	*	*	*
E2	32-152mm	*	*	*



EXTENSION BAR

EE12	300mm (12")	-

14-30mm

4mm Hex Kev

* Kits packed in single units

E11

HEXKEY4

ARBORS

ACCESSORIES

ACC	ESSORIES			ARBOR S	SELECTION GUID	E		
Part No	Description	Size	Pack Size	Arbor	Holesaw Diameter	Screw Thread	Shank Type	Drill Chuck
1 EE12	Arbor Extension	300mm (12")	1	5 E4	14mm-30mm (%6"-1%6")	1/2"-20	6mm (¼") Round	6mm (¼")
2 EN1	Arbor Adaptor	-	10	6 E1	14mm-30mm (%16"-1¾18")	1⁄2"- 20	10mm (%") HEX	10mm (¾")
3 ED1	Pilot Drill	70mm (2⅔'")	10	7 E11	14mm-30mm (%16"-11/18")	1⁄2"- 20	11mm (1/16") HEX	13mm (½")
4 ED2	Pilot Drill	114mm (4½")	10	8 E6	32mm-152mm (1 ^{1//} "- 6")	5∕8"- 18	11mm (1/18") HEX	13mm (½")
				9 E2	32mm-152mm (1¼"- 6")	5∕8"- 18	11mm (7/18") HEX	13mm (½")
Drive p	lates are available for u	se with other holesaws v	vhich may not feature	10 E2QR	32mm-152mm (1¼"- 6")	5⁄8"- 18	11mm (1/16) HEX	13mm (½")

11 E-GP

14mm-152mm (%/18"- 6")

'solid cap' construction, to improve stability in use.

Also available: Arbor extension rod and adaptor to reduce screw thread size and spare pilot drills.

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The range	of Eclipse	Holesaw	Arbors	includes:
0				

- Standard arbors suitable for all applicable sizes:
- Quick release (QR) variants, which simply click the pins into place.
- SDS plus arbors suitable for Electric Hammer • drills.
- A general purpose set (E-GP) which includes a variety of adaptors to fit all sizes.



1⁄2"- 20

11mm (1/16") HEX

13mm (½")

STATEMENT OF CONFORMITY Holesaw Arbors - in general compliance with British Standard BS 8416 : 2002 - Specification for holesaws.



CUTTING & GRINDING WHEELS

The **ECLIPSE** range of cutting and grinding wheels for portable and fixed machines provide superior performance in the most strict working environment. The product range includes solutions for cutting-off, grinding, and surface finishing operations on materials related to all industrial markets.

UNDERSTANDING THE PRODUCT



CLIPS

SAFETY PICTOGRAM





WEAR GLOVES

WEAR EAR PROTECTION



WEAR EYE

PROTECTION

WEAR A DUST MASK



READ THE

INSTRUCTION

NOT PERMITTED

FOR FACE

GRINDING,

CUTTING ONLY



DO NOT USE A DAMAGED WHEEL

USER SAFETY

Diamond tools and bonded abrasives must rotate at high speeds for efficient operation. The risk of product failure is increased with low quality products not designed and manufactured to conform to the respective standards and regulations in place. Such non conforming products may not withstand mechanical loads and heat generated during use.

Standards for diamond tools

EN13236:-

In January 2001 the European standard EN13236 was introduced to govern the safety requirements for super abrasive (diamond) products. Eclipse diamond discs conform to EN13236.

Standards for thin wheel bonded abrasives (cutting & grinding discs)

EN12413:-

This standard highlights that these types of cutting and grinding discs have a use by date. This "use by" date is permanently marked into the central rim of every Eclipse disc.

oSa:-

In the year 2000 the oSa (Organisation for Safety of Abrasives) was founded to raise standards to a higher level. All members of the oSa have to adhere to strict manufacturing, safety and quality standards that comply with the requirements of EN13236 and EN12413 and are regularly audited to ensure conformity. The oSa symbol on an abrasive or diamond disc product is a further guarantee to the user of product safety and quality.

All Eclipse discs carry the oSa symbol.



CUTTING & GRINDING WHEELS

Abrasive Discs for Cutting & Grinding

High performance range of cutting and grinding discs for steel and ferrous metals

Flat Cutting						
Description	Part Ref	Dia. Inch	Dia. Metric	Thick- ness	Bore	Box Quantity
Flat *Petrol Hand Held	CSMP30020*	12	300	3.5	20	10
Cutting - Cho	psaws					
Description	Part Ref	Dia. Inch	Dia. Metric	Thick- ness	Bore	Box Quantity
Cutting	CSMC30025	12	300	2.6	25.4	10

Flap Discs

Conical fibreglass backed flap discs suitable for surface grinding, cleaning and de-burring of cast iron, steel and stainless steel

Zirconia - S	Stainless Steel Grir	nding					
Description	Part Ref	Dia. Inch	Dia. Metric	Grit	Bore	Box Quantity	
Flap	IGFC1152240	4.5	115	40	22.2	10	
Flap	IGFC1152260	4.5	115	60	22.2	10	
Flap	IGFC1152280	4.5	115	80	22.2	10	

Dry Diamond Wheels

Comprehensive range of general purpose dry diamond blades with high diamond content sintered segments

Abrasive Discs for Stainless Steel

Abrasive discs for cutting and grinding stainless steel High performance range of cutting and grinding discs suitable for contamination free cutting and grinding of

suitable for contamination free cutting and grinding of stainless steels

Flat Cut	ting
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Flat

_						
Description	Part Ref	Dia. Inch	Dia. Metric	Thick- ness	Bore	Box Quantity
Flat	ICWF11522	4.5	115	2.5	22.2	25
Flat	ICWF18022	7	180	2.5	22.2	25
Flat	ICWF23022	9	230	2.5	22.2	25
Flat	CSIC35025	14	350	3	25.4	25

Super Thin Wheels - Flat Cutting								
Description	Part Ref	Dia. Inch	Dia. Metric	Thick- ness	Bore			
Flat	ICWF115122	4.5	115	1	22.2			

ICWF2301.922

25

22.2 25

1.9

9 230

Depressed Centre - Cutting

Description	Part Ref	Dia. Inch	Dia. Metric	Thick- ness	Bore	Box Quantity
Depressed Centre	ICWD11522	4.5	115	6	22.2	10
Depressed Centre	ICWD18022	7	180	6	22.2	10
Depressed Centre	ICWD23022	9	230	6	22.2	10

Depressed Cen	tre - Grinding					
Description	Part Ref	Dia. Inch	Dia. Metric	Thick- ness	Bore	Box Quantity
Depressed Centre	IGWD11522	4.5	115	6	22.2	10
Depressed Centre	IGWD18022	7	180	6	22.2	10
Depressed Centre	IGWD23022	9	230	6	22.2	10



Diamond Wheel	- Continuous R	lim (fo	r cutting	iles includ	ing ceramic tiles
Description	Part Ref	Dia. Inch	Dia. Metric	Bore	Box Quantity
Flat	DWC11522	4.5	115	22.2	1
Flat	DWC18022	7	180	22.2	1
Flat	DWC23022	9	230	22.2	1



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BOLT CUTTERS

Bolt Cutters - High Tensile, Tubular Handles

Part No	Total Length	Max. Cutting Capacity	Pack Qty	
ETBC14	14" (355mm)	¾6" / 5.0mm	20	
ETBC18	18" (460mm)	¼" / 6.4mm	10	
ETBC24	24" (610mm)	⁵‰" / 7.9mm	8	
ETBC30	30" (762mm)	¾" / 9.5mm	5	
ETBC36	36" (915mm)	‰" / 11.1mm	4	
Centre Cut			CLIPSE	

High tensile - for cutting hard materials up to 50HRC. Centre cut, strap adjusted bolt cutters with lightweight tubular handles that do not compromise strength - every pound of force applied is amplified to produce 80lbs (36kg) of force between the jaws. To maximise safety the built in stops will yield rather than break, whilst the drop forged jaws are machined to precise specifications for a resilient body and rigid cutting edge

Bolt Cutters - High Tensile, Forged Handles

ETBC30-RH2 ETBC36-RH2

Spares For Boltcutters - Tubular Handles

Replacement Jaws & Strap Set 14" (355mm) Replacement Jaws & Strap Set 18" (460mm) Replacement Jaws & Strap Set 24" (610mm) Replacement Jaws & Strap Set 30" (762mm) Replacement Jaws & Strap Set 36" (915mm)

Part No	Total Length	Max. Cutting Capacity	Pack Qty	
EFBC14	14" (355mm)	³∕16" / 5.0mm	12	
EFBC18	18" (460mm)	¼" / 6.4mm	12	
EFBC24	24" (610mm)	⁵⁄16" / 7.9mm	12	
EFBC30	30" (762mm)	¾" / 9.5mm	2	
EFBC36	36" (915mm)	7∕16" / 11.1mm	6	O OT
EFBC42	42" (1070mm)	½" / 13mm	4	
Centr	e Cut			

High tensile - for cutting hard materials up to 50HRC. Centre cut, arm adjusted bolt cutters with solid forged handles for maximum strength every pound of force applied is amplified to produce 80lbs (36kg) of force between the jaws. To maximise safety the built in stops will yield rather than break, whilst the drop forged jaws are machined to precise specifications for a resilient body and rigid cutting edge

Part No

Part No

ETBC14-RH2

ETBC18-RH2

ETBC24-RH2

EFBC14-RH	Replacement Head - 14" (355mm)
EFBC18-RH	Replacement Head - 18" (460mm)
EFBC24-RH	Replacement Head - 24" (610mm)
EFBC30-RH	Replacement Head - 30" (762mm)
EFBC36-RH	Replacement Head - 36" (915mm)
EFBC42-RH	Replacement Head - 42" (1070mm)

Spares For Boltcutters - Forged Handles



END CUT BOLT, CABLE & WIRE CUTTERS



Pincer movement makes the bolt cutter ideal for cutting in restricted areas or where a side cut is difficult, eg when cutting off bolt heads. Jaws are drop forged and machined to precise specifications for a resilient body and rigid cutting edge. Handles are solid forged and incorporate safety stops that will yield rather than break

Cable Cutters - 24"/600mm





For cutting 16mm wire rope and up to 21mm armoured cable. The lightweight tubular steel handles reduce user fatigue during prolonged use, whilst the rubber hand grips reduce the risk of slippage. The jaws have hardened cutting edges for easy cutting

Wire & Rope Cutter - 8"/200mm





Material	Recommended Capacity
Mild steel strand	6.5mm
High tensile steel rope (180kg/mm²)	5.0mm
Soft steel wire (34kg/mm²)	5.0mm
Copper aluminium rod	5.0mm
Steel rod (66kg/mm²)	4.0mm
Spring wire (hardened & tempered) (180kg/mm²)	2.5mm
Electric cable (not armoured)	6.5mm

Suitable for a multitude of agricultural, garden, automotive and marine cutting tasks. Angled and hardened blades ensure a clean cut, whilst the spring loaded head gives a fast, smooth cutting action. Includes non-slip rubber handles



GENERAL PURPOSE, JEWELLERS' & AVIATION SNIPS

General Purpose Snips



For cutting sheet metal. The precision hollow ground blades reduce friction for an easy cutting action and, since they are also induction hardened and tempered, they can be easily re-sharpened. The spring loaded nut allows for easy adjustment to increase the working life, whilst the high quality steel drop forged handles offer maximum strength

Part No	Total Length	Cutting Capacity (mild steel up to 18g)	Cutting Capacity (stainless steel up to 23g)	Pack Qty
ESGP-8	8" (200mm)	0.8mm	0.46mm	6
ESGP-10	10" (250mm)	1.0mm	0.46mm	6
ESGP-12	12" (300mm)	1.2mm	0.46mm	6
ESGP-14	14" (355mm)	1.4mm*	1.2mm**	6
* up to 16g **	' up to 18g			

General Purpose Snips with Spring



For cutting sheet metal. Spring handle for ease of use during repetitive cutting. The precision hollow ground blades reduce friction for an easy cutting action and, since they are also induction hardened and tempered, they can be easily re-sharpened. The leather strap ensures safe storage

Part No	Total Length	Cutting Capacity (mild steel up to 18g)	Cutting Capacity (stainless steel up to 23g)	Pack Qty
ESGPS-8	8" (200mm)	0.8mm	0.46mm	6
ESGPS-10	10" (250mm)	1.0mm	0.46mm	6
ESGPS-12	12" (300mm)	1.2mm	0.46mm	6
ESGPS-14	14" (355mm)	1.4mm*	1.2mm**	6
* up to 16g ** up to 18g				

Jewellers' Snips



For cutting copper, silver and gold. The precision hollow ground blades reduce friction for an easy cutting action and, since they are also induction hardened and tempered, they can be easily re-sharpened. Integrated stops prevent trapped fingers without compromising the jaw capacity

Part No	Size	Cutting Capacity (mild steel up to 18g)	Cutting Capacity (stainless steel up to 23g)	Pack Qty
ESJ-7S	7" / 180mm (straight blade)	0.8mm	0.46mm	10
ESJ-7C	7" / 180mm (curved blade)	0.8mm	0.46mm	10



Aviation Snips



Cuts up to 1.2mm cold rolled steel and 0.7mm stainless steel. Drop forged alloy steel blades give a longer cutting life, whilst the spring loaded handles ensure a fast, smooth cutting action

PACKAGING

- Half sized transparent case allows the user to handle the snips and test the cutting action
- Small packaging size minimizes space wastage and the security tie limits the risk of theft
- Durability of the case prevents damage to the blades and provides an ideal storage facility for the snips

Part No	Description	Cutting Capacity (cold rolled steel)	Cutting Capacity (stainless steel)	Pack Qty
EAS-S	Straight and Wide Curves	1.22mm	0.7mm	6
EAS-R	Right and Straight Cut	1.22mm	0.7mm	6
EAS-L	Left and Straight Cut	1.22mm	0.7mm	6
EAS-SL	Long Cut / Straight Cut & Wide Curves	1.22mm	0.7mm	6

ECLIPSE PROFESSIONAL TOOLS

CHISELS

COLD CHISELS WRECKING BARS WOOD CHISELS

1" (25mm)

FLIPSE

Qty

5

COLD CHISELS

Cold chisels and bolsters upgraded to chrome vanadium. This is both better quality and harder wearing, so needs re-sharping less often, and is also even more resistant to mushrooming after prolonged use (Selected lines are available with hand guards in our Spear & Jackson range)

Flat Chisels

For general cutting and chipping of metals, and for shaping, facing and cutting of stonework

	ECUPSE	Contract of the local division of the local		
Part No	Length	Blade Width	Octagon Dia.	Pack Qty
CB24A	100mm (4")	6.35mm (1/4")	6.35mm (1/4")	10
CB28G	150mm (6")	6.35mm (1/4")	6.35mm (1/4")	10
CB46T	125mm (5")	9.5mm (3/8")	9.5mm (3/8")	10
CB48E	150mm (6")	9.5mm (3/8")	9.5mm (3/8")	10
CB68V	150mm (6")	12.7mm (1/2")	12.7mm (1/2")	10
CB70H	205mm (8")	12.7mm (1/2")	12.7mm (1/2")	10
CB72F	250mm (10")	12.7mm (1/2")	12.7mm (1/2")	10
CB73N	300mm (12")	12.7mm (1/2")	12.7mm (1/2")	10
CB88R	150mm (6")	15.9mm (5/8")	12.7mm (1/2")	10
CB89H	180mm (7")	15.9mm (5/8")	12.7mm (1/2")	10
CB90M	205mm (8")	15.9mm (5/8")	12.7mm (1/2")	10
CB92N	250mm (10")	15.9mm (5/8")	12.7mm (1/2")	10
CB108D	150mm (6")	19mm (3/4")	15.9mm (5/8")	10
CB110T	205mm (8")	19mm (3/4")	15.9mm (5/8")	10
CB111G	230mm (9")	19mm (3/4")	15.9mm (5/8")	10
CB112E	250mm (10")	19mm (3/4")	15.9mm (5/8")	10
CB113V	300mm (12")	19mm (3/4")	15.9mm (5/8")	10
CB116M	450mm (18")	19mm (3/4")	15.9mm (5/8")	5
CB150E	205mm (8")	25.4mm (1")	22.2mm (7/8")	5
CB151V	230mm (9")	25.4mm (1")	22.2mm (7/8")	5
CB152R	250mm (10")	25.4mm (1")	22.2mm (7/8")	5
CB153H	300mm (12")	25.4mm (1")	22.2mm (7/8")	5
CB156N	450mm (18")	25.4mm (1")	22.2mm (7/8")	5

Brick Bolsters



Floorboard Chisel

For cutting floorboard tongues before lifting

CB770K	230mm (9")	56mm (2¼")	17.5mm (11/16")	5
Part No	Length	Blade Width	Octagon Dia.	Pack Qty
	CLASS DOCT			

WRECKING BARS

Made from heat treated, solid forged steel for maximum strength. 30" and 36" are for demolishing large timber structures and dismantling concrete and metal constructions. 18" and 24" size are ideal for demolishing plasterboard, dismantling timber frames and pulling up floorboards. The light duty 14" is designed to pull large nails and prise or dismantle tough objects

Part No	Size	Pa Q
RIPPA14	350mm (14")	
RIPPA18	450mm (18")	
RIPPA24	600mm (24")	
RIPPA30	750mm (30")	
RIPPA36	900mm (36")	
RIPPA3PS	Boxed set contains: 14" 24" 36" Wrecking bars	

Crosscut Chisels For cutting slots in keyways



Plugging Chisel

For cutting out mortar from between bricks

Part No	Length	Blade Width	Octagon Dia.	1

Part No	Length	Blade Width	Octagon Dia.
CB827V	250mm (10")	6.35mm (1/4")	15.9mm (5/8")

Concrete Point Chisels

For breaking up concrete

ECLIPSE Pack Qty Part No Blade Width Octagon Dia Lenath CB292B 250mm (10") 4mm (5/32") 15.9mm (5/8") 10 **CB313P** 300mm (12") 4.8mm (3/16") 19mm (3/4") 10 CB353G 6.35mm (1/4") 25mm (1") 300mm (12") 5



STATEMENT OF CONFORMITY Cold Chisels - in general compliance with British Standard BS 3066 : 1995 - Specification for engineers' cold chisels and allied tools.



WOOD CHISELS



Wood Chisels

Part No	Length
BEWC3/8E	3/8" (9mm) Bevel Edge
BEWC1/4E	1/4" (6mm) Bevel Edge
BEWC5/8E	5/8" (15mm) Bevel Edge
BEWC3/4E	3/4" (19mm) Bevel Edge
BEWC1/2E	1/2" (12mm) Bevel Edge
BEWC1E	1" (25mm) Bevel Edge
BEWC11/4E	1.1/4" (32mm) Bevel Edge
BEWC11/2E	1.1/2" (38mm) Bevel Edge
BEWC2E	2" (50mm) Bevel Edge
BEWC3BCE	3pc Set: 1/2", 3/4", 1" - blister packed
BEWC4BCE	4pc Set: 1/4", 1/2", 3/4", 1" - blister packed
BEWC6BCE	6pc Set: 1/4", 3/8", 1/2", 3/4", 1", 1.1/4" - blister packed
BEWC3PSE	3pc Set: 1/2", 3/4", 1" - wallet
BEWC6PSE	6pc Set: 1/4", 3/8", 1/2", 3/4", 1", 1.1/4" - boxed



ECLIPSE PROFESSIONAL TOOLS

LOCKING JAW PLIERS & C-CLAMPS

LOCKING PLIERS LOCKING C-CLAMPS



A range of top quality locking pliers and locking C-Clamps for the professional user



Part No.	HVAC	Welding	Plumbing	Automotive	Electrical	Woodworking
E7R E10R	Clamping, crimping	Clamping flat, square & hex surfaces	Non slip pipe wrench, portable vice, twisting wire	Clamping, removing bolts	Portable vice, twisting wire	Portable vice, pulling out nails
E10CR	Clamping, crimping	Clamping round surfaces	Non slip pipe wrench, portable vice, twisting wire	Clamping, removing bolts	Portable vice, screwdriver lever	Portable vice, pulling out nails
E5WR E7WR E10WR	Clamping, crimping, wire cutting	Clamping round surfaces	Non slip pipe wrench, portable vice, cutting & twisting wire	Clamping, removing bolts	Portable vice, screwdriver lever, cutting & twisting wire	Portable vice, pulling out nails, cutting wire
E6LN	Clamping, crimping, wire cutting	Clamping in difficult-to-reach spaces	Repairing faucets	Removing brake springs & clips, general clamping	Bending & cutting wire	Pulling nails & staples
E6SP E11SP	Clamping welding supports	Clamping welding supports	Temporary pipe hanger	Sheet metal repair work	•	Clamping long reach, delicate woodworking work pieces
E6R E11R	Clamping welding supports	Clamping welding supports	Temporary pipe hanger	Sheet metal repair work	-	Clamping long reach woodworking work pieces
ERR	Isolating a piece of equipment by pinching off copper tubing	-	-	-	-	-
E8R	-	Holding sheet metal during bending, forming & crimping	-	-	-	-
E9R	-	Accurately aligning round & square shaped tubing	-	-	-	
E20R	Removing components, holding awkward shapes	Removing components, holding awkward shapes	Holding awkward shapes	Removing components, holding awkward shapes	-	-

CURVED JAW

Size

250mm (10")

Part No.

E10CR

LOCKING JAW PLIERS & LOCKING C-CLAMPS

STRAIGHT JAW





Straight jaws are ideal for use with flat, square and hex workpieces $% \left({{{\mathbf{x}}_{i}}} \right)$

CURVI	CURVED JAW with wire cutter											
Part No.	Size	Maximum Jaw Capacity	Box Qty									
E5WR	125mm (5")	32mm (1¼")	5									
E7WR	175mm (7")	34mm (1½")	5									
E10WB	250mm (10")	34mm (1%")	5									



Designed for gripping and clamping round surfaces. Incorporates a wire cutter

Qty

LONG NOSE with wire cutter





Particularly suited for clamping and tightening bolts in confined spaces. Also ideal for precision work. Incorporates a wire cutter

LOCKING C-CLAMPS with swivel pads



The wide opening jaws are designed to reach around and grip awkward shapes whilst the swivel pad protect delicate workpieces from damage. Provide a deep reach



Maximum Jav Capacity

45mm (1¾")

Qty

5

Designed for gripping and clamping round surfaces



LOCKING C-CLAMPS with regular tips



The wide opening jaws are designed to reach around and grip awkward shapes. Provide a deep reach













U-shaped jaws accurately align round and square shaped tubing when welding

forming, and crimping



Grips and holds awkward shapes up to 18"/455mm in diameter. Ideal for working with pipes in confined spaces, eg. up against a wall



Rockwell Hardness Testing



Torsion Testing

LOAD TEST RESULTS



The American Society of Mechanical Engineers







ECLIPSE PROFESSIONAL TOOLS

PLIERS

ECLIPSE PLIERS SPECIAL PURPOSE PLIERS

JSCHOOLENCE

Pliers cutting key

Symbol	Type of Wire	Example	Tensile strength ca. N/mm ²
\bigcirc	Soft wire	Copper, Aluminium	220 - 250
0	Medium hard wire	Iron wire	750 - 800
	Hard wire	Steel wire	1700 - 1800
	Piano wire	Hardened spring steel	2200 - 2300

E Charles

ECLIPSE PLIERS

Engineer	s' Pliers						Long No	se Pliers						Snipe Nose Pliers				
Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size		Pack Qty	
		\bigcirc							\bigcirc									
PW21696/11	160mm (6")	4.0	2.8	1.8	1.4	5	PW5835/11	140mm (5½")	3.0	2.5	1.6	1.2	5	PA15436/11	160mm (6")		5	
PW21697/11	180mm (7")	4.0	3.0	2.0	1.6	5	PW5836/11	160mm (6")	4.0	2.8	1.8	1.4	5	PA15438/11	200mm (8")		5	
PW21698/11	200mm (8")	4.0	3.0	2.0	1.6	5	PW10638/11	200mm (8")	4.0	3.0	2.0	1.6	5					
PW216910/11	250mm (10")	6.0	4.0	2.8	2.4	5												
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		LIPSE							ECLIP	SE						TOUPSE		
																EUL		
	2						-	- 1										

Multi-purpose pliers for cutting, gripping and twisting. Induction hardened cutting edges for cutting medium hard wire. Pipe grip for gripping pipes, rods and other components. Serrated jaw for gripping nuts, bolts, studs and similar objects. Joint cutter for cleanly cropping soft wire. Ergonomic soft feel handles



Long tapering jaws for gripping in confined spaces and side cutter for cutting medium hard wire. Fine jaw ends for gripping and manoeuvring small objects. Serrated jaws for extra grip. Induction hardened cutting edges for cutting medium hard wire. Ergonomic soft feel handles

Long tapering jaws for gripping in confined spaces. Fine serrated jaws for gripping components. Fine jaw ends capable of gripping and manoeuvring small objects. Long tapering jaws for accessing confined places. Ergonomic soft feel handles

Round N	lose Pliers		Diagona	Cutting	Nipp	ers
Part No	Size	Pack Qty	Part No	Size	Soft	Med Hard
PA14736/11	160mm (6")	5	PW7735/11 PW7736/11 PW7737/11	125mm (5") 160mm (6") 180mm (7")	3.0 4.0 4.0	2.5 3.0 3.0



3.0 2.5 1.6 1.2 5

5

5

PW7738/11

Part No a

> 5.0 3.5 2.4 2.0

5

200mm (8")

Diagonal Cutting Nippers - heavy duty



For internal gripping of hollow items and for looping wire or thin strips of material. Smooth conical jaws for forming loops. Tapering jaws allow for loops of different sizes. Ergonomic soft feel handles



For cutting medium to hard wire. Tapering head shape to access confined spaces. Induction hardened cutting edges. Design of cutter face allows wire to be cut close to surface. Rounded jaw ends provide strength in area where majority of cutting takes place. Ergonomic soft feel handles



Ideally suited for cutting hard wire. Tapering head shape to access confined spaces. Induction hardened cutting edges. Design of cutter face allows wire to be cut close to surface. Rounded jaw ends provide strength in area where majority of cutting takes place. Ergonomic soft feel handles

Diagonal Cutting Nipper - high leverage							End Cutting Nipper							End Wire Stripper					
Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size	Dia mm	Dia mm²	Pack Qty	
PW14537/11	180mm (7")	4.0	3.0	2.0	1.6	5	PW9637/11	165mm (6½")	4.0	3.0	2.0	1.6	5	PA19536/11	160mm (6")	2.0	1.6	5	



Heavy duty nipper for cutting hard wire. High leverage design means less effort is required in cutting process. Induction hardened cutting edges for hard wire. Lay joint for added strength. Ergonomic soft feel handles



Heavy duty end cutting nippers for cutting hard wire. For cutting wire flush to a surface. Induction hardened cutting edges. Specially designed for cutting wire not accessible from the side allows knuckle clearance. Ergonomic soft feel handles



Removes insulation from cable without damaging the core. Suitable for a variety of cable sizes. Adjustable stop screw allows setting of required wire stripping diameter. Knurled screw head allows one hand adjustments. Spring return for automatic handle opening. Ergonomic soft feel handles

ECLIPSE SPECIAL PURPOSE PLIERS

Carpenters' Pincers			Cable Croppe				
Part No	Size	Pack Qty	Part No	Size	Dia mm	Dia mm ²	Pack Qty
PB807/11	180mm (7")	5	PA196810/11	250mm (10")	2.0	1.6	5
PB808/11	200mm (8")	5					
	ECLIPSE		Le construction de la constructi	1	ECLIPSE		

For gripping and extracting nails and tacks. Bevelled jaw edges for gripping nails without cutting them. Curved jaw to enable rocking of tool to lever nails and tacks. PVC dip handles

Specially designed cutting edges ensure ends of cable do not fray. For soft cables only (not to be used on cable with a hard core / outer eg. steel). PVC dip handles

Waterpump Pliers - slip joint										
Part No	Size	Capacity mm	Pack Qty							
PA4069/11	250mm (10")	0-42	5							



Adjustable pliers for gripping pipes, nuts and bolts. Sliding pivot gives a wide range of jaw openings. Joint protector ensures handles cannot close together and trap fingers. Offset jaws to provide more accurate gripping when jaw grip is applied. PVC dip handles





Adjustable pliers for gripping pipes, nuts and bolts.Sliding pivot gives a wide range of jaw openings. Joint protector ensures handles cannot close together and trap fingers. Offset jaws to provide more accurate gripping when jaw grip is applied. PVC dip handles

waterpump Plier	S - box joint		
Part No	Size	Capacity mm	Pack Qty
PA55510/11	250mm (10")	0-36	5
111	ECL	PSE	
	(un sea, averaging		

Adjustable pliers for gripping pipes, nuts and bolts. Sliding pivot gives a wide range of jaw openings. Joint protector ensures handles cannot close together and trap fingers. Offset jaws to provide more accurate gripping when jaw grip is applied. PVC dip handles



ECLIPSE SPECIAL PURPOSE PLIERS



For holding and shaping glass. Painted handles stop splinters of glass from embedding in handles. Jaws do not meet immediately in front of pivot to ensure glass can be gripped up to cut line. Used to snap off a narrow strip of scored glass or nibble back to a line or around a curve. Painted handles Designed to grip pipework of different sizes. Multi-purpose tool which includes a joint cutter. Two curved serrated sections to grip pipes of varying sizes. 'V' notch in front of each jaw to grip wire. Wire cropper located near pivot. Handles shaped to form a pipe reamer and turn screw respectively. Unsleeved handles

Wire Stripper Crimper - heavy duty

Part No	Size	Stripping Capacity	Pacl Qt
PA18518HD/11	200mm (8")	0.13-8.00 sq mm	Ę
		ECLIPSE	
12			

Designed to cut the cable sheath and crimp the wire. Alloy steel jaws capable of stripping all types of wire. Unique, fully automatic design makes wire stripping easy. Multi-purpose tool combining stripping, crimping and cutting. Sleeved handles

Engineers' Pliers - unsleeved





For use in environments where bare metal handles are appropriate. The handles are impervious to swarf, glass chippings and heat melting. Multi-purpose pliers for cutting, gripping and twisting. Induction hardened cutting edges for cutting medium hard wire. Pipe grip for gripping pipes, rods and other components. Serrated jaw for gripping nuts, bolts, studs and similar objects. Joint cutter for cleanly cropping soft wire. Unsleeved handles



Designed to cut the cable sheath and crimp the wire. Alloy steel jaws capable of stripping all types of wire. Unique, fully automatic design makes wire stripping easy. Multi-purpose tool combining stripping, crimping and cutting. Sleeved handles





VDE CUTTERS & PLIERS VDE SCREWDRIVERS SPECIALIST ELECTRICIANS HAND TOOLS TOOLS STORAGE





PREMIUM QUALITY SAFETY TOOLS

What is VDE?

The VDE Testing and Certification Institute (Verband der Elektrotechnik) is an internationally accredited independent organisation working to ensure the safety of electrical tools and machines

What products are VDE certified?

Only those that have been tested to strict criteria in the VDE Institute's Frankfurt-based laboratories can be issued with the VDE Certification Mark

How are VDE Tools Tested?

Each tool is individually tested to 10,000V for complete assurance of safety when working on live equipment up to 1,000V AC

Why choose VDE tools?

They are designed specifically to reduce the risk of injury, as well as minimise the likelihood of damage to electrical circuitry

How do I recognise VDE tools?

Look out for the following marks:



	1000V	IEC 60900:2004
This shows compliance with VDE regulations concerning safety requirements. Confirms safety with regards to electrical, mechanical, thermal, toxicological, radiological and other hazards	The double triangle and voltage show that the tool is suitable for working on energised parts at the stated voltage	An international standard that includes detailed requirements for the design of insulated tools, eg the thickness of the protective insulation and the testing programme required on this material

Are Insulated tools VDE approved?

'Insulated' only means that a tool is coated with a material that is not a conductor of electricity. Only VDE marked tools have passed the rigorous tests set by the VDE Testing and Certification Institution. Also beware of tools that claim to be VDE purely on the basis of their compliance with IEC 60900; this does not carry the assurance of safety through independent product testing and production auditing.

Caring for VDE Tools

Always visually inspect VDE tools before use. If the insulation is damaged or marked in any way, the tool should not be used near live electrical circuits. To ensure satisfaction from this product, it should be kept clean and carefully stored in a contaminant free, dry environment.



VDE CUTTERS & PLIERS

A comprehensive range of high quality VDE approved cutters and pliers for the professional electrician. Each tool is VDE approved, meaning that it is individually tested to 10,000V for complete assurance of safety when working on live equipment up to 1,000V AC.







VDE Side Cutters							VDE Side Cutters with wire strippers					VDE Side Cutters heavy duty								
WIRE CUTTING CAPACITIES							WIRE CUTTING CAPACITIES					WIRE CUTTING CAPACITIES								
Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty
PWSF7746/11 PWSF7747/11	165mm (6½") 185mm (7½")	4.0 4.0	3.0 3.0	2.0 2.0	1.6 1.6	5 5	PWSF9956/11 PWSF9957/11	165mm (6½") 185mm (7½")	4.0 4.0	3.0 3.0	2.0 2.0	1.6 1.6	5 5	PWSF8856/11 PWSF8858/11	165mm (6½") 200mm (8")	4.0 5.0	3.0 3.5	2.0 2.4	1.6 2.0	5 5



For cutting wires or groups of wires that need to be shortened or separated

- For cutting medium to hard wire
- Tapered head shaped to access confined spaces
- Induction hardened cutting edges Design of the cutter face allows wire to be
- cut close to the surface Rounded jaw ends provide strength in the
- area where the majority of cutting takes place
- Ergonomic soft feel handles



For cutting and stripping 1.5mm² and 2.5mm² medium to hard wire

- Induction hardened cutting edges
- Tapered head shaped to access confined spaces
- The head includes wire stripping notches for fast, easy and damage free stripping of 1.5mm² and 2.5mm² wire
- The design of the cutter face allows wire to be cut close to surface
- Rounded jaw ends provide strength in the area where the majority of cutting takes place
- Ergonomic soft feel handles



For cutting and stripping cables and wires. Particularly suited to hard wire

- For cutting medium to hard wire
- Tapered head shaped to access confined spaces
- Induction hardened cutting edges
- Design of the cutter face allows wire to be cut close to the surface
- Rounded jaw ends provide strength in the area where the majority of cutting takes place
- Ergonomic soft feel handles

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PROFESSIONAL ELECTRICIANS' TOOLS

VDE Combination Pliers					VDE Long Nose Pliers					VDE Bent Long Nose Pliers										
WIRE CUTTING CAPACITIES					WIRE CUTTING CAPACITIES					WIRE CUTTING CAPACITIES										
Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty	Part No	Size	Soft	Med Hard	Hard	Piano	Pack Qty
PWSF21647/11 PWSF21648/11	180mm (7") 200mm (8")	4.0 4.0	3.0 3.0	2.0 2.0	1.6 1.6	5 5	PWSF10648/11	200mm (8")	4.0	3.0	2.0	1.6	5	PWSF10748/11	200mm (8")	4.0	3.0	2.0	1.6	5





Designed to remove wires or pry electrical

Long tapered jaws for gripping in confined

Side cutter for cutting medium hard wire

Fine jaw ends for gripping and manoeuvring

edges for cutting medium to hard wire

parts out of confined spaces. Includes cutting



Multi-purpose pliers for gripping, twisting and cutting

- Induction hardened cutting edges
- Pipe grip for pipes, rods and round
- Serrated jaws for gripping nuts, bolts, studs
- and similar objects • Joint cutter for cleanly cropping wire

Spring return for automatic handle opening

• Ergonomic soft feel handles

- Ergonomic soft feel handles
- Serrated jaws for extra grip
 Induction hardened cutting edges
 Ergonomic soft feel handles

spaces

small objects

Ergonomic son reel nandles

Ideal for adjusting relay contacts. Includes cutting edges for cutting medium to hard wire

- Bent nose with angled jaws for increased access
- Long tapered jaws for gripping in confined spaces
- Side cutter for cutting medium hard wireFine jaw ends for gripping and manoeuvring
- small objects
- Serrated jaws for extra grip
- Induction hardened cutting edgesErgonomic soft feel handles

VDE 3pc Plier Set **VDE End Wire Strippers VDE Cable Cutters** Pacl Dia Dia Pack Qty Dia Dia Part No Size mm mm² Part No Size mm mm² Qty Part No Desciption Qty PWSF19546/11 PWSF1978/11 EVDE3P 160mm (6") 2.0 1.6 5 210mm (8½") 38.0 11.5 5 Contains: 1 61/2" Side Cutters 7" Combination Pliers 8" Long Nose Pliers Removes insulation from cables without A compact, one handed cable cutter for use damaging the core on copper and aluminium wire (not suited to steel wire) ECLIPSE • Suitable for a variety of cable sizes - the Made from drop forged steel for maximum adjustable stop screw allows setting of the strength and durability required wire stripping diameter Cutting edges are induction hardened for a Knurled screw head allows one handed high cutting performance adiustment

- The shearing action cuts through cables cleanly and effortlessly
 - Ergonomic soft feel handles

DISPLAY SOLUTIONS

VDE Cutters & Pliers Core Range

Part No	Description	Size	Suggested Qty
PWSF7746/11	Side Cutters	165mm (6½")	5
PWSF9956/11	Side Cutters & Wire Strippers	165mm (6½")	4
PWSF7747/11	Side Cutters	185mm (7½")	4
PWSF21647/11	Combination Pliers	180mm (7")	3
PWSF10648/11	Long Nose Pliers	200mm (8")	4
PWSF8858/11	Heavy Duty Side Cutter	200mm (8")	3
VDEBC-C	Pegboard Backing / Restocking Card	-	1





VDE Cutters & Pliers Full Range

Part No	Description	Size	Suggested Qty
PWSF7746/11	Side Cutters	165mm (6½")	5
PWSF7747/11	Side Cutters	185mm (7½")	4
PWSF8856/11	Heavy Duty Side Cutters	185mm (7½")	3
PWSF8858/11	Heavy Duty Side Cutters	200mm (8")	3
PWSF9956/11	Side Cutters & Wire Strippers	165mm (6½")	3
PWSF9957/11	Side Cutters & Wire Strippers	185mm (7½")	3
PWSF21647/11	Combination Pliers	180mm (7")	3
PWSF21648/11	Combination Pliers	200mm (8")	3
PWSF10648/11	Long Nose Pliers	200mm (8")	3
PWSF10748/11	Bent Long Nose Pliers	200mm (8")	3
PWSF19546/11	End Wire Stripper Pliers	160mm (6")	3
PWSF1978/11	Cable Cutter	210mm (8½")	3
VDEBC-C	Pegboard Backing / Restocking Card	-	1







VDE SCREWDRIVERS

The unique handle design of the Eclipse VDE screwdriver range has been developed following extensive research amongst professional electricians. These research forums confirmed that not only do electricians require VDE approved screwdrivers, that they also consider comfort in use to be essential for such a tool, given that it is in constant use. Our handle has therefore been designed with this in mind; its contours and grip are shaped to fit snugly into the hand without compromising either torque or fingertip control.

Moreover, each tool is VDE approved, meaning that it is individually tested to 10,000V for complete assurance of safety when working on live equipment up to 1,000V AC.

Suitable for a wide range of electrical screwdriving tasks, such as the removal of breaker panel covers and the attachment of individual electrical wires to circuit breaker terminals



VDE SCREWDRIVERS



DISPLAY SOLUTION

VDE Screwdriver Merchandiser

Part No	Tip / Type Size mm	Blade Length mm	Suggested Qty
EV25X75	2.5	75	7
EV30X100	3.0	100	7
EV35X100	3.5	100	7
EV40X100	4.0	100	7
EV55X125	5.5	125	4
EV65X150	6.5	150	4
EVPH0X60	PHO	60	4
EVPH1X80	PH1	80	4
EVPH2X100	PH2	100	7
EVPZ0X60	PZ0	60	4
EVPZ1X80	PZ1	80	4
EVPZ2X100	PZ2	100	7
EVPZ2X200	PZ1	200	4
EVMOD2	No.2 (65mm)	100	4
	. ,		





SPECIALIST ELECTRICIANS' HAND TOOLS



For scoring and stripping cables

- 50mm hardened steel blade for increased durability
- Anti-slip guard and protective detachable cap to maximise safety
 Ergonomically shaped handle for increased comfort in use
- Certified and approved by the world renowned VDE (Verband der Electrotechik) institute of Germany
- Each tool is tested to 10,000V for complete assurance of safety when working on live equipment up to 1,000V AC

For crimping open cable insulated terminals

- The head has colour coded recesses of red, blue and yellow for different insulated terminals
- Made from high quality carbon steel with a hardened black oxide finish to ensure maximum strength and durability
- A high compression pressure and an adjustment mechanism enable fast and effective crimping
- Soft feel handles offer comfort and a secure grip

Automatic Wire Strippers

Part No	Function	Description	Pack Qty	Part No	Range	Sensitivity	Power Requirements	Operating Temperature	Pack Qty
EAWS6	Stripping Wire Cutting Crimping	0.2 - 6.0mm ² copper and aluminium wire, solid or stranded HRC 40-50 1.5, 2.5, 6.0mm insulated and non-insulated terminals	10	EVS1000	80-1000v	Can pick up a 5 volt signal & detect 240v through an air gap of 4mm	2 x AAA batteries	-20° to +55°C	5

Voltage Sensor



A multi-purpose tool for use on both T&E flat cable and round flex cable. Combines stripping, crimping and cutting

- Strips wire with no need for adjustment
- Crimping jaws can be use on both insulated and non-insulated terminals
- The steel blades of the jaws are designed to cut wire and are hardened to ensure a longer working life. The micro-adjustment mechanism allows for the stripping of wire less than 0.2mm²

For safely checking the presence of voltage in cables, wall sockets, fuses, circuit breakers and junction boxes

- When the tip is placed closed to AC voltage it lights up in red and a detection buzzer sounds
- Pocket clip enables convenient storage
- Over-voltage CAT III and compliance with IEC 1010



SPECIALIST ELECTRICIANS' HAND TOOLS



For detecting the presence of electric voltage

- Bright chrome vanadium steel bars for strength and rust protection
- · Packed individually on printed skin packed cards

- as ventilation system and stop valves
- Fits square, 3-square and double pin
- Manufactured from die cast zinc for durability
 Slotted and Phillips screwdriver bits included

Impact Punch Down Tools



Quickly and securely seats data wires into terminal blocks and neatly cuts off wire ends

• For use on KRONE terminal blocks

• Includes a wire extractor, hook and spudger tool in the handle




PROFESSIONAL ELECTRICIANS' TOOL CASE

Professional Tools Case

Part No	Description	Material	Overall Size (mm)	Pacl Qt
TECHCASE	Technician's Toolcase	600D x 600D	440 x 200 x 330	4

Heavy duty tool case that is ideal for service engineers, electricians, technicians and general tradesmen

- Designed to carry both tools and technical equipment
- Made from 600 denier polyester for maximum strength
 and durability
- The padded laptop compartment is designed to protect sensitive equipment
- The 24 internal compartments and 29 internal loops are designed to carry tools, power tool accessories, documents and technical equipment
- The internal document pocket is ideal for carrying A4 sized documents
- The industrial grade metal hook on the strap adds strength when carrying heavy loads
- •6 protective rubberised feet on the bottom of the bag





WORKHOLDING SOLUTIONS



MECHANICS' VICES, SPARES & ACCESSORIES WOODWORKING VICES G-CLAMPS ONE HANDED BAR CLAMPS & SPREADERS SCREW CLAMPS SASH CLAMPS & CLAMP HEADS T-BAR CLAMPS MAGNETIC CLAMPS MAGNETIC CHUCKS

Workholding Range - Average Clamping Forces

Range	Average Clamping Force	Main Tasks
VICES		
Mechanics' Vices	4,500lbs - 10,100lbs (2,040kg - 4,580kg)	General metalworking applications
Quick Release Woodworking Vices	1,900lbs (860kg)	Holding large pieces of wood for cutting and gluing
Plain Screw Woodworking Vices	1,900lbs (860kg)	Holding large pieces of wood for cutting and gluing
CLAMPS		
T-Bar Clamps	2,200lbs (1,000kg)	Clamping heavy pieces of furniture when gluing
Sash Clamps	1,100lbs (500kg)	Clamping heavy pieces of furniture when gluing
Clamp Heads	Light Duty (depends on timber used)	Low cost alternative to sash clamps
G Clamps (Extra heavy duty)	Frame Proof Loads 3,300lbs - 4,500lbs (1500kg - 2050kg)	Heavy duty fabrication and engineering tasks
G Clamps (Heavy duty)	Frame Proof Loads 660lbs - 1,700lbs (300kg - 770kg)	Multi-purpose - generally woodworking & metalworking
Screw Clamps (Mid range)	660lbs (300kg)	Lightweight wood/metal clamping
One Handed Bar Clamp & Spreaders	150kg	A 'third hand'



For general metalworking applications



Handle and main screw are manufactured from steel

a high tolerance for a fast, smooth operation

Mechanics' Vices

The body and sliding jaw are manufactured from high quality grey cast iron, which has excellent shock absorbing qualities. The precision milled slide ensures a fast, smooth operation, whilst the fused tommy bar will bend before the vice can become over-stressed. Includes hardened steel replaceable jaws and fixing holes for bench mounting

Part No	Jaw Width	Throat Depth (mm)	Opening (mm)	Clamping Force (kN)	Net Weight (kg)	Qty per pallet
EMV-1	3"/ 75mm	48	82	20	4.8	144
EMV-3	4"/ 100mm	63	109	25	9.3	90
EMV-5	5"/ 125mm	73	136	30	15.8	40
EMV-6	6"/ 150mm	86	168	35	24.2	36
EMV-8	8"/ 200mm	103	208	45	38.1	24

Jaw Plates with Screws (pair)

Part No	Description	Pack Qty
EMV-1JPS	For use with EMV-1	1
EMV-3JPS	For use with EMV-3	1
EMV-5JPS	For use with EMV-5	1
EMV-6JPS	For use with EMV-6	1
EMV-8JPS	For use with EMV-8	1





WORKHOLDING SOLUTIONS

VICES

Swivel Bases

For use with Eclipse Mechanics' Vices



Includes three mount holes for attaching to a workbench.

Fibre Grips

For use with Eclipse Mechanics' Vices



A range of high quality fibre grips for use with Eclipse Mechanics' Vices. Prevents damage to workpieces with soft or polished surfaces. Supplied in pairs

Part No	Size	For use with	Part No	Size	For use with	Pack Qty
EMVSB-1	Swivel Base for 3" (75mm) Vice	EMV-1	EFG1	3" (75mm)	EMV-1	10
EMVSB-3	Swivel Base for 4" (100mm) Vice	EMV-3	EFG3	4" (100mm)	EMV-3	10
EMVSB-5	Swivel Base for 5" (125mm) Vice	EMV-5	EFG5	5" (128mm)	EMV-5	10
EMVSB-6	Swivel Base for 6" (150mm) Vice	EMV-6	EFG6	6" (150mm)	EMV-6	10
EMVSB-8	Swivel Base for 8" (200mm) Vice	EMV-8	EFG8	8" (200mm)	EMV-8	10

Quick Release Woodworking Vices



Quick release trigger opens and closes the vice quickly without using the mainscrew. Fitted with an adjustable front stop – or dog – that gives an additional clamping facility when used with a bench stop, to provide a normal vice and a tail vice in one tool. To increase safety, the fused tommy bar will bend before the vice can become over-stressed

Part No	Jaw Width	Throat Depth (mm)	Opening (mm)	Net Weight (kg)	Qty per pallet
EWWQR7	7"/ 178mm	80	202	9.4	60
EWWQR9	9"/ 230mm	106	260	15.5	32
EWWQR10	10"/ 254mm	100	380	17.7	24

Plain Screw Woodworking Vices

Plain screw mechanism works through a separate unbreakable nut housed beneath the body seating, to ensure the constant alignment of the screw mechanism. Precision machined grey cast iron body and front to ensure a smooth, parallel action. Fitted with an adjustable front stop – or dog – that gives an additional clamping facility when used with a bench stop, to provide a normal vice and a tail vice in one tool. To increase safety, the fused tommy bar will bend before the vice can become over-stressed

Part No	Jaw Width	Throat Depth (mm)	Opening (mm)	Net Weight (kg)	Qty per pallet
EWWPS7	7"/ 178mm	80	202	9.4	60
EWWPS9	9"/ 230mm	106	260	15.5	32

CLAMPS

For woodworking & metalworking applications



G Clamps - Heavy Duty



Average clamping force of 300 - 800kg (660 - 1760lbs). Guaranteed unbreakable malleable iron frame with a fast action twin start rolled acme thread. The steel swivel shoe applies an even pressure, even on angled surfaces, whilst the tommy bar will bend before the frame can become over-stressed.

Part No	Clamping Capacity	Frame Proof Loads	Pack Qty
E20-3	3" (75mm)	1000lbs / 455kg	6
E20-4	4" (100mm)	1200lbs / 545kg	6
E20-6	6" (150mm)	1400lbs / 636kg	6
E20-8	8" (200mm)	1700lbs / 773kg	2
E20-10	10" (250mm)	2000lbs / 909kg	2
E20-12	12" (300mm)	2500lbs / 1136kg	2

G Clamps - Extra Heavy Duty



Ideal for heavy duty fabrication and engineering tasks, where very high clamping forces are often required. Sturdy, drop forged steel frame gives a proof load of over 2,000kg (4,400lbs) on the larger sizes. Substantial acme thread for greater applicable torque. The tommy bar will bend before the frame can become overstressed, whilst the swivel shoe applies an even pressure on angled surfaces

Part No	Clamping Capacity	Frame Proof Loads	Pack Qty
E21-3	3" (75mm)	3500lbs / 1588kg	4
E21-4	4" (100mm)	4500lbs / 2041kg	4
E21-6	6" (150mm)	5000lbs / 2268kg	4
E21-8	8" (200mm)	5000lbs / 2268kg	2
E21-10	10" (250mm)	8000lbs / 3629kg	2
E21-12	12" (300mm)	9300lbs / 4218kg	2

WORKHOLDING SOLUTIONS

CLAMPS

One Handed Bar Clamps & Spreaders

Quick release trigger enables the clamp to be quickly positioned and released, whilst the jaw release clip mechanism allows the jaw to be removed and re-attached to the other end of the bar, thus converting the clamp into a spreader. The carbon steel bar and reinforced nylon body make it both tough and durable, whilst the ergonomicallydesigned, soft feel pistol grip handle fits easily into the hand. In addition, the toe-in feature means that, when fully closed, the jaws only meet at the top, thus providing an even clamping force across the whole depth of the workpiece. Non-marring pads firmly grip and protect the workpiece

Clamping

Capacity

6" (150mm)

6" (150mm)

12" (300mm)

18" (450mm)

24" (600mm)

36" (900mm)



31½" (800mm)

43½" (1105mm)

* 6" (150mm) in pairs - in a display box of 5 Screw Clamps

Part No

EOHBC6

EOHBC6X2*

EOHBC12

EOHBC18

EOHBC24

EOHBC36



6%" (168mm)

6%" (168mm)

DIN5117 standard clamps with an average clamping force of 300kg (660lbs). The sliding head quickly sets the clamp to the required capacity, whilst the serrated grooves on the corrosion resistant nickel plated bar prevent slippage in use. The cast iron malleable heads offer maximum strength and the wooden handle provides a firm and comfortable grip.

3¾" (85mm)

3¾" (85mm)

1

1

Pack Qty

10

10

10

10

6

Part No	Clamping Capacity	Clamping Depth
EC-SCR8	8" / 200mm	120mm / 4¾"
EC-SCR12	12" / 300mm	120mm / 4¾"
EC-SCR16	16" / 400mm	120mm / 4¾"
EC-SCR24	24" / 600mm	120mm / 4¾"
EC-SCR32	32 "/ 800mm	120mm / 4¾"



Sash Clamps & Clamp Heads

Sash clamps have an average clamping force of 500kg (1100lbs). The ductile head and slide are guaranteed unbreakable, whilst the steel bar offers maximum tensile and yield strength. The slightly tapered jaws enable perfectly parallel clamping and the fast action rolled thread applies pressure quickly and smoothly to the workpiece



Part No	Maximum Clamping Capacity / Type	Bar Length	Box Qty	
ESC24	24" (600mm)	30" (760mm)	6	
ESC30	30" (760mm)	36" (915mm)	6	
ESC36	36" (915mm)	42" (1070mm)	6	
ESC42	42" (1070mm)	48" (1220mm)	6	
ESC48	48" (1220mm)	54" (1370mm)	6	
ESC54	54" (1370mm)	60" (1525mm)	6	ECHX2
ESC66	66" (1680mm)	72" (1830mm)	6	
ESC-TSPC	Spare - Tail slide, peg & chain	-	1	
ESC-PC	Spare - Peg & Chain	-	1	
ECHX2	Clamp Heads (pair)	-	4	

T-Bar Clamps



enable the clamp to be mounted to a workbench. The ductile head and slide are guaranteed unbreakable, whilst the steel bar offers maximum tensile and yield strength. The slightly tapered jaws enable perfectly parallel clamping and the fast action rolled thread applies pressure quickly and smoothly to the workpiece

Part No	Maximum Clamping Capacity	Bar Length	Box Qty
ETBR42	42" (1070mm)	48" (1220mm)	4
ETBR48	48" (1220mm)	54" (1370mm)	4
ETBR54	54" (1370mm)	60" (1525mm)	4
ETBR66	66" (1680mm)	72" (1830mm)	4
ETBR78	78" (1980mm)	84" (2135mm)	4

MAGNETIC WELDING TOOLS

Force (kg)

20

Pull

10

15





Clamp components during welding, fabrication and assembly. Powerful 40kg clamping force, enabling larger components to be clamped with ease

Fast accurate holding of ferrous sheets and tubes for welding and assembly work

90° Fixed Magnetic Clamps



Two magnetic faces in a rigid 90° angle for jigging on sheets, pipes and tubes. A fast and cost effective means of clamping components rigid at 90° angles during fabrication, assembly and weld preparation applications





Supplied with screw release handle. Can be built into workholding, handling and assembly fixtures to provide a high clamping force and positive grip

Heavy Duty Magnetic Clamp



Hold workpieces at an exact 45 or 90° angle to each other. 10kg and 15kg of magnetic pull make these ideal for a range of workshop welding and holding applications

ECLIPSE E955

2

'Quick' Magnetic Clamps





Fast and accurate holding of ferrous metals at different fixed angles. Also suitable for retrieval applications

MAGNETIC WELDING TOOLS



Effective and inexpensive method of clamping flat (923) or round (924) ferrous components

Magnetic Adjustable Links									
Part No	Length mm	Height mm	Width mm	Weight (kg)	Pull Force / Magnet (kg)				
920 SU (single unit)	60	25	29	0.35	12				

51

0.70

12

25

127

920 (pair)



Ferrite magnet material. Clamp components at any angle for welding and assembly applications

Magnetic	Holder				
Part No	Length mm	Height mm	Width mm	Weight (kg)	Pull Force (kg)
E925	108	140	108	5.67	100

Provides the welder with a powerful, rigid support on flat and round components at various angles during welding and welding preparation applications. Switchable and can be partially energised to aid positioning



2 magnetic blocks connected by 2 non-magnetic steel straps. The blocks contain ferrite magnetic material. Magnetic on two faces. On / off switch located at each end

Magnetic Adjustable Links

Part No	Length mm	Height mm	Width mm	Weight (kg)	Pull Force / Magnet (kg)
920SUOT (single unit original type)	60	25	25	0.32	12
9200TPR (original type pair)	127	25	45	0.70	12



Alnico magnet material. Clamp components at any angle for welding and assembly applications

Magnet	tic Earth	Welding	Clamp)		
Part No	Length mm	Height mm	Width mm	Maximum Current (amps)	Weight (kg)	Pull Force (kg)
E946	193	64	90	800	1.6	25



Quick and easy earthing for most steel welding operations. Provides earthing / ground on large welding operations where croc-clip or G-clamps cannot be easily used

MAGNETIC WORKHOLDING

Premier Range Magnetic Chucks

Eclipse Magnetics invented the first permanent magnet chuck in 1934 and we continue to set the benchmark for quality workholding with today's Premier Range.

Radial Pole

Premier range chucks are fully serviceable and can provide many years of service

Rectangular

Part No	Length mm	Height	Width	Pole Pitch mm
AX47/P	203	42	127	17.6
AX510/P	276	53	129	35
AXS612/P	322	63	151	32
AXS614/P	360	63	151	32
AXS618/P	451	63	151	32
AXM824/P	601	63	201	35

Dimensions are for reference only

- The all-metal top plate is extra thick to ensure maximum accuracy after frequent re-grinding
- Chrome plated side and end stops for packing and positioning
- The chucks can be partially magnetised to allow part
 positioning in set up
- Removable, ergonomically designed handles allow easy switching
- Supplied with clamps
- Custom sizes are available



Circular

Part No	A* mm	B mm	C mm	D mm	E mm	F mm	G mm
AX475C/P	121	45	50.8	6.5	76.2	M6	101.6
AX651C/P	167	60	76.22	6.5	101.6	M10	139.7
AX91C/P	229	60	85.8	6.5	114.3	M10	190.5
AX12C/P	305	72	152.4	4.75	184.15	M12	254
* reference diameter only							



The unique top plate configuration concentrates the magnetic energy on to the face of the chuck

The chucks can be partially magnetised to aid the correct positioning of the workpiece. Grooved rings in the top plate assist in visual positioning to aid quick changeover in set up. Excellent for holding thin ring-shaped components that can be subject to radial distortion. Removable handles allow easy switching

Part No	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	No. of Poles
NR100C	100	48	50.8	6.5	N/A	M6	76	N/A	N/A	6
NR150C	150	69	76.2	4	N/A	M10	102	32	36	10
NR225C	225	71	85.8	5	114.3	M10	190.5	50	54	14
NR300C	300	71	152.4	54.75	184.15	M12	254	62	66	18
* reference dia	meter only									



Radial pole configuration concentrates the entire magnetism of the chuck into the workpiece – ideal for a wide range of operations from precision grinding to heavy turning

Dynamically balanced to enable use at high rpm. All metal top plate and a rugged, industrial build ensures accuracy and longevity. Through-bore (except the NR100C) allows through-flushing of coolant during machining Optional centre plug available

WORKHOLDING SOLUTIONS

ECLIPSE PROFESSIONAL TOOLS

MAGNETIC WORKHOLDING

Standard Range Magnetic Chucks

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Standard Range chucks provide high performance at a competitive price

- Clamping force: 80N/cm² on test piece (steel ring 52mmØ outer, 38mmØ inner,10mm thick)
- Brass and steel top plates
- Removable hexagon key handles ensure ease of operation through a 180 degree arc
- All chucks are supplied with side and end stops
- All chucks are supplied with clamps

Standard chucks are available with a choice of 2 pole spacings:



Standard Pole

Pole spacing: 4.0mm steel – 2.0mm brass Effectively clamps all workpiece thicknesses down to 3mm



Fine Pole

Rectangular

Part No Fine Pol

Part No Std Pole

Pole spacing: 1.5mm steel – 0.5mm brass Ideal for small workpieces less than 3mm in thickness.

Circular

Part No Part No	A	B	C	D	E	F
Std Pole Fine Pole	mm	mm	mm	mm	mm	mm
ECSP100 ECFP100 ECSP125 ECFP125 ECSP160 ECFP160 ECSP195 ECFP195 ECSP255 ECFP255 ECSP310 ECFP310 ECSP350 ECFP350	100 125 160 195 255 310 350	50 50 50 50 50 50 50	50.8 50.8 76.2 76.2 85.73 152.4 196.85	6.35 6.35 6.35 6.35 6.35 6.35 6.35 6.35	76.2 76.2 101.6 101.6 114.3 184.15 196.85	M6 M6 M10 M10 M10 M12 M12



Pole

Direction Along Width

Longitudinal

I ongitudinal



ERSP1018 ERFP1018 175 100 50 ERSP1325 **ERFP1325** 255 130 50 ERSP1530 ERFP1530 300 150 50 ERSP1535 ERFP1535 350 150 50 ERSP1545 ERFP1545 50 450 150 ERSP2060 ERFP2060 50 600 200



Part No Length mm Width mm Height mm 950 60 75 30 950V 50 100 40



Supplied in matched and numbered pairs Use to extend the flux paths of a magnetic chuck with parallel poles

May be used horizontally or vertically. Can be machined to accommodate awkward workpieces

Simple Magnetic Sine Tables										
Part No Std Pole	Part No Fine Pole	Top Plate Length mm	Top Plate Width mm	Base Length mm	Base Width mm	Height at Zero mm	Weight kg			
SSTFP1018	ERFP1018	180	100	215	115	73	10			
SSTFP1325	ERFP1325	255	130	295	195	78	20.5			
SSTEP1535	EBED1535	250	150	200	165	80	26			



Accuracy of sine table within (+/- 5 secs of arc) Pole spacing 2mm (1.5mm Steel 0.5mm Brass) Sine table calculations included Clamping force 80N/cm²

'V' Blocks

Part No	Width mm	Length mm	Height mm	'V' mm	Sottom 'V' mm	Weight kg
25 Micron Accuracy						
E934	70	101.6	95.5	65	22	1.98
E934MP	70	101.6	95.5	65	22	3.96
E935	70	80	95.5	65	22	3.12
E935MP	70	80	95.5	65	22	6.24
10 Micron Accuracy						
E993A	70	120	95	65	22	4.4
E933MPA	70	120	95	65	22	8.8
E935A	70	80	95	65	22	2.95
E935MPA	70	80	95	65	22	5.9

'V' 'blocks are ideal for holding cylindrical and complex workpieces for marking, spark erosion, grinding and measurement operations

Can be used on its base, side or end



Max. Dia. of Workpiece



MAGNETIC LIFTERS

ULTRALIFT PLUS+ ULTRALIFT LM ULTRALIFT TP





MAGNETIC LIFTERS

Magnetic lifters are quicker, easier and safer to use than slings, chains, hooks and grabs, and do not mark the load.

Onboard switching and permanent magnet technology mean installation and operation could not be easier and running costs are non-existent.

Access is only required to the load's top face, allowing for more efficient storage and handling.







Ultralift Plus

The world's safest lifter Lifts up to 2000kg (flat) 800kg (round) 3 safety features:

Locking switch handle mechanism

Unique 'Safety Shim': pre-test any load to ensure
 a 3:1 safety factor

 Locking eye mechanism: magnet cannot be switched off while holding a load

3:1 SAFETY FACTOR



The patented 'safety shim' allows pre-testing of the load to be lifted, irrespective of weight, material type, material thickness and surface condition. If the load passes a 3:1 safety factor is guaranteed



Ultralift Plus+

Lifter Dimensions								Lift Specifications				
mm									Flat	Section	Roun	d Section
	Self							Material	CWI *	Thickness	CMI *	Diameter
Part No.	Weight	Α	В	С	D	E	F	Length Max.	SVVL"	Min.	SWL"	Max.
	(kg)							mm	(ку)	mm	(ку)	mm
UL0125+	4	152	64	74	69	101	155	1500	125	20	50	200
UL0250+	11	218	94	96	92	155	214	1500	250	25	100	300
UL0500+	27	266	123	128	122	224	300	1500	500	30	200	400
UL1000+	63	391	140	174	176	260	359	1500	1000	45	400	450
UL2000+	157	493	195	227	233	368	477	2000	2000	70	800	600

E

F

* SWL - Safe Work Load



MAGNETIC LIFTERS

Ultralift LM

Lifter Dimensions Flat Section Round Sect		
Calf mm I Matarial I Thiskness Diam	Round Section	
Self Miaterial Charles	mete	
Part No. Weight A B C D E F Length Max. Switch Min. King Mi	lax.	
(kg) mm ^(vg) mm ^(vg) m	nm	
LM0125 4.5 150 54 62 76 110 150 1500 125 20 50 29	250	
LM0250 8.5 210 76 72 90 165 200 1500 250 25 100 30	300	
LM0500 17.5 281 103 88 106 225 243 1500 500 30 200 40	100	
LM1000 36.5 391 113 103 136 325 365 1500 1000 45 400 45	150	
LM2000 79 483 170 132 186 400 526 2000 2000 70 800 60	500	

Ultralift LM

Safe, general-purpose lifting Lifts up to 2000kg (flat) 800kg (round) Locking switch handle mechanism







Ultralift TP

								Lift Specifications Material Thickness							
				Lifter D	imensio	Ins		5	mm	6	imm	8	Bmm	1()mm
Part No.	Self Weight (kg)	A	В	C	D	E	F	SWL (kg)	Length Max. mm	SWL (kg)	Length Max. mm	SWL (kg)	Length Max. mm	SWL (kg)	Length Max. mm
TP150 TP300	8 15	181 181	52 52	74 74	100 100	150 300	202 352	75 150	1500 2000	100 200	1500 2000	150 300	1500 2000	200 400	1500 2000

Ultralift TM

Thin plate lifter

Lifts up to 400kg (flat)

Specifically designed for the safe lifting of thin plate and pressings, it can lift single sheets from the tops of stacks

Locking switch handle mechanism







GRIPPING & PLUMBING TOOLS

ECLIPSE PROFESSIONAL TOOLS

PIPE WRENCHES ADJUSTABLE WRENCHES CHAIN PIPE WRENCHES HINGED PIPE VICES PIPE CUTTERS HAND BENDER

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GRIPPING & PLUMBING TOOLS

WRENCHES & PIPE VICES

Leader Pattern Pipe Wrenches



The frame and handle are made from a one piece ductile iron casting which is guaranteed unbreakable, whilst the flash hardened teeth increase wear resistance. The hardened and tempered steel adjustment nut gives a longer working life and the precision machined screw thread and spring jaw remain open until pressure is applied. Can also be used as a crude hammer. Conforms to British Standard BS3594.

Part No	Length (when open)	Pipe Capacity	Box Qty
ELPW8	8" (200mm)	1" (25mm)	4
ELPW10	10" (250mm)	1½" (38mm)	4
ELPW12	12" (300mm)	2" (51mm)	4
ELPW14	14" (350mm)	2" (51mm)	4
ELPW18	18" (450mm)	2½" (63mm)	4
ELPW24	24" (600mm)	3" (76mm)	1
ELPW36	36" (910mm)	5" (127mm)	1
ELPW48	48" (1200mm)	6" (152mm)	1



Stillson Pattern Pipe Wrenches





The hardened and tempered hook jaw eliminates breakage, whilst the flash hardened teeth increase wear resistance. The nut abutment means that all loading is transferred direct from the handle to the nut and jaw via the nut abutment, ensuring that the frame is not load bearing, thus reducing the possibility of frame failure. Conforms to British Standard BS3594

Part No	Length (when open)	Pipe Capacity Bo	x Qty
ESPW8	8" (200mm)	3/4" (19mm)	6
ESPW10	10" (250mm)	1" (25mm)	6
ESPW12	12" (300mm)	1¼" (32mm)	6
ESPW14	14" (350mm)	1½" (38mm)	6
ESPW18	18" (450mm)	2" (51mm)	4
ESPW24	24" (600mm)	2½" (63mm)	1
ESPW36	36" (910mm)	3½" (89mm)	1

WRENCHES & PIPE VICES

Adjustable Wrenches

Part No	Description	Jaw Width	Pack Qty
ADJW6	6" (150mm)	1¼6"(27mm)	5
ADJW8	8" (200mm)	1⁵‰"(33mm)	5
ADJW10	10" (250mm)	1½"(38mm)	5
ADJW12	12" (300mm)	1¾"(45mm)	5



The extra wide jaw can be used to tighten large nuts and bolts, whilst the metric scale laser etched onto the jaw ensures fast setting of the tool. The rust resistant lacquer increases the product life and the ergonomic soft feel sleeve gives maximum comfort and grip

Adjustable Wrenches - Extra Wide Jaws

Part No	Description	Jaw Width	Pack Qty
ADJW6WJ	6" (150mm)	1⁵⁄₁₀"(34mm)	6
ADJW8WJ	8" (200mm)	1½"(38mm)	6
ADJW10WJ	10" (250mm)	2"(50mm)	5





6 6 5

ECLIPSE

Ideal for use in plumbing, installation and automotive tasks. Not only does the extra wide jaw opening increase versatility, but the super thin head means that the wrench can be used in confined spaces. In addition, the throat depth is deeper than standard adjustable wrenches and the head is angled to offer maximum speed and efficiency. Soft grip handle for added comfort

Adjustable Wrenches - Standard Handle

Part No	Length	law Width	Pack Otv
T ult No	Longui	Jaw Width	r uon quy
ADJW6S	6" (150mm)	11/16" (27mm)	5
ADJW8S	8" (200mm)	1⁵⁄₁₀" (33mm)	5
ADJW10S	10" (250mm)	1½" (38mm)	5
ADJW12S	12" (300mm)	1¾" (45mm)	5
ADJW15S*	15" (375mm)	1¾" (45mm)	2
* Ring spanner not included			





The extra wide jaw can be used to tighten large nuts and bolts, whilst the metric scale laser etched onto the jaw ensure fast setting of the tool. The rust resistant lacquer increases the product life, whilst the ergonomic handle includes a ring spanner



WRENCHES & PIPE VICES

Swedish Pattern Pipe Wrenches



Part No	Length (when open)	Pipe Capacity	Pack Qty
ESWDPW1	13¾°" (335mm)	1" (25mm)	6
ESWDPW15	18½" (470mm)	1½" (38mm)	6
ESWDPW2	24" (610mm)	2" (50mm)	4
ESWDPW3	27%" (695mm)	3" (75mm)	1

Bent nose 90 degree angled head. Manufactured from drop forged, hardened chrome vanadium steel. Hardened jaws.

Chain Pipe Wrenches

An adjustable pipe wrench that turns a pipe in either direction. Ideal for use on round, square, or irregular shapes in confined spaces, eg when a pipe is in a trench or against a wall. Drop forged steel jaws are both hardened and tempered for maximum strength. The tensile steel chain loops quickly around the pipe and, once locked, holds it in place to prevent slippage. Only the teeth on the face of the handle bite into the pipe, meaning that, when these become worn, the jaws can be reversed to double the life of the tool. Drop forged steel cylindrical handle.



Pack

Qty

1

1

1

1

Hinged Pipe Vices



Ideal for repetitive clamping tasks on pipework. Can be fitted to a bench or a stand. The hinged top section allows rapid access to the job, whilst the self locking frame is reversible for right or left-handed operation. The steel tommy bar and mainscrew exert and maintain a powerful gripping force and the SG ductile iron frame is guaranteed unbreakable.

Size

Part No

EHPV2

EHPV6

EHPV2-1/2

EHPV3-1/2

3/8" - 2" (10-50mm) 3/8" - 2½" (10-60mm) 3/8" - 3½" (10-90mm) 5/8" - 6" (16-150mm)

Pipe Capacity

5/16" - 2.5" (7-75mm) 1/2" - 4" (12-100mm) 1" - 8" (25-200mm) 2" - 12" (50-300mm)



PIPE CUTTERS & HAND BENDER

Copper Pipe Slicers



For cutting copper tubing. Single handed operation – ideal for use in confined areas, for example where there is limited space between the wall and copper pipes. Two sizes available for use with 15mm and 22mm copper tube. Spare cutting wheels also available

Part No	Cutting Capacity	Box Qty
ECPS15	¹⁹ / ₂ " (15mm)	10
ECPS22	%" (22mm)	10
ECPS15-SW (Spare Wheel)	¹⁹ / ₂ " (15mm)	10
ECPS22-SW (Spare Wheel)	%" (22mm)	10

Telescopic Tube Cutters



For cutting copper, brass, aluminium and light gauge steel tube. Makes clean, fast cuts, leaving little fash to clear away. The feed screw does not expand during use, so telescopic tube cutters are ideal for use in confined spaces. Each cutter includes an integral deburrer and a spare cutting wheel. Spare cutting wheels also available separately

Part No	Cutting Capacity	Box Qty
ECTC32	1⁄2" - 11⁄2" (3-32mm)	5
ECTC50	¹³ / ₆₄ " - 2" (5-50mm)	10
ECTC32-SW (Spare Wheels)	1⁄%" - 11⁄½" (3-32mm)	(2pk) 10
ECTC32W-SS (Spare Wheels) - Stainless Steel	1⁄%" - 11⁄½" (3-32mm)	(6pk) 24
ECTC50-SW (Spare Wheels)	¹³ / ₆₄ " - 2" (5-50mm)	(2pk) 10
ECTC50W-SS (Spare Wheels) - Stainless Steel	¹³ / ₆₄ " - 2" (5-50mm)	(6pk) 24

Roller Pipe Cutter



For cutting steel and cast iron pipe. Frame made from unbreakable SG Ductile iron. The two rollers keep the cutter squarely on track whilst also rolling down burr to leave a clean cut. Includes a hardened steel cutting wheel and a steel mainscrew that applies a firm pressure, creating a clean cut. The safety stop prevents the cutting wheel from being damaged by the rollers

Part No	Cutting Capacity	Box Qty
ERP2	%" - 2" (3-50mm)	1

Mini Tube Cutter



For cutting 3-22mm (1/8" to 7/8" o.d.) copper and aluminium tubing. Specifically suited to small bore tubing. The compact size makes the mini tube cutter ideal for use in confined spaces. Quickly adjusts to the required cutting position. Spare cutting wheel also available

Part No	Cutting Capacity	Box Qty
ECTC22	1⁄8" - 1⁄8" (3-22mm)	10
ECTC22W-SW (Spare Wheels)	1⁄8" - 1⁄8" (3-22mm)	(pkt 2) 5
ECTC22W-SS (Spare Wheels - Stainless Steel)	1⁄8" - 7⁄8" (3-22mm)	(pkt 6) 24

Plastic Pipe Cutters



For cutting PVC, polythene, MDP and polyethylene pipe, HEP 20, plastic overflow pipe and rubber hoses etc. High quality stainless steel blades ensure clean cuts without distortion to the plastic tubing. Ratchet system ensures a fast, efficient cut. Two sizes available; 32mm and 42mm. Spare blades also available

Part No	Cutting Capacity	Box Qty
EPPC32	1‰2" (32mm)	1
EPPC42	1 ¹¹ / ₁₆ " (42mm)	1
EPPC32-SB (Spare Blade)	1‰" (32mm)	1
EPPC42-SB (Spare Blade)	1 ¹¹ / ₁₆ " (42mm)	1



A compact tool for bending 15mm and 22mm o.d. copper tube. Ideal for installing small heating systems. Supplied with 15mm and 22m formers and guides

Part No	Pipe Capacity	Box Qty
EHB1522	¹ ‰2" - ¾" (15mm - 22mm)	1
EHBG15	15mm Guide	24
EHBG22	22mm Guide	4
EHBF15	15mm Former	10
EHBF22	22mm Former	10





BOILERMAG BOILERMAGXT BOILERMAGXL

ollerille

Total heating syster protection Dual flow technolog Patented magnetic circuit

> Range includes filters for all property types

HEATING SYSTEM FILTERS





- Removes ferrous oxide (black sludge)
 - Reduces energy and maintenance costs
- Easy to install and service
 - Extends boiler life

BoilerMag Domestic - 22 x 28mm connections





BOILERMAG

BoilerMag Commercial XL - 11/4" (32mm) Connections



BoilerMag Industrial XT



Industrial Heating System Protection

- For large commerical, industrial and municipal premises
- Large collection capacity
- Stainless steel construction
- Easy to clean and service

Part No	Pipe Fitting	Box Qty
BMXT150	2"	1
BMXT200	4"	1
BMXT300	4"	1
BMXT300HF	6"	1

For full technical information visit www.boilermag.com





www.boilermag.com

FOFESSIONAL TOOLS

RIVETERS & THREADED INSERT SETTING TOOLS

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RIVETERS THREADED INSERT SETTING TOOLS SPARES KITS RIVETS

RIVETERS

Lazy ⁻	Tong - 2750			Heavy	/ Duty Lazy Tong -	2750HD)	Long	Arm - 2760		
Part No 2750	Description Lazy Tong	For use with Rivet Sizes 3mm (½") 4mm (½") 5mm (¾")	Pack Qty 1	Part No 2750HD	Description Heavy Duty Lazy Tong	For use with Rivet Sizes 3mm (½") 4mm (5⁄22") 5mm (3⁄46") 6.4mm (½")	Pack Qty 1	Part No 2760	Description Long Arm	For use with Rivet Sizes 4mm (½") 5mm (½") 6mm (¼")	Pack Qty 1
4		0		-		and the second sec				nat at at at at.	
This pov	verful and versatile tool has	the advantag	e of	A fixed h	nead riveter ideal for use w	ith stainless	steel	The long	arms reduce to the minimum	n the effort rec	quired

This powerful and versatile tool has the advantage of being operated with one hand, providing no loss in efficiency. Useful on vehicle maintenance, agricultural projects and construction A fixed head riveter ideal for use with stainless steel rivets up to 6.4mm. This powerful and versatile tool has the advantage of being operated with one hand, providing no loss in efficiency. Useful on vehicle maintenance, agricultural projects and construction. The long arms reduce to the minimum the effort required to set rivets up to 6mm. Probably the most powerful industrial hand riveter available today. Ideal for boat building and coachwork, agricultural machine maintenance, etc. Supplied with 4 interchangeable noses

Heav	y Duty Long Nose	- 2720		Heavy	/ Duty - 2730			Easy	Grip - 2770		
Part No	Description	For use with Rivet Sizes	Pack Qty	Part No	Description	For use with Rivet Sizes	Pack Qty	Part No	Description	For use with Rivet Sizes	Pack Qty
2720	Heavy Duty Long Nose	3mm (½") 4mm (½2") 5mm (¾6")	1	2730	Heavy Duty	3mm (½") 4mm (½") 5mm (兆")	1	2770	Easy Grip	3mm (½") 4mm (½") 5mm (¾")	1



A versatile variation of the 2730, with extra long nose to facilitate access in recessed situations such as corrugated sheet. Supplied with 4 interchangeable noses



The market leading professional heavy duty riveter, best suited to engineering and maintenance projects. Supplied with 3 interchangeable noses



Easy one-handed operation. Well suited to light engineering use, especially for the home and workshop, providing a professional finish

General Purpose Riveter - 2800					
Part No	Description	For use with Rivet Sizes	Pack Qty	Part N	
2800	General Purpose	2mm (½²") 3mm (½") 4mm (½") 5mm (½")	1	2772	
	0.0		'n		



General purpose riveter, equipped with 4 interchangeable noses, also features automatic ejection of mandrel, slip guarded comfort handles and an internally stored spanner for changing nose bushes

Easy Grip Kit - 2772

art No Description

The 2770 riveter is supplied with a selection of 3mm, 4mm and 5mm aluminium rivets. Packed in attractive hanging box, offering good product visibility



Part No Description

2735 A carefully conceived engineering riveter kit, comprising robust hinged plastic box and 200 assorted 3, 4 and 5mm aluminium rivets and 2730 heavy duty riveter







THREADED INSERT SETTING TOOLS & KITS





Threaded Insert Setting Tool

Part No Description

1 2743 This thin sheet setting tool has been designed to enable threaded nut inserts to be set easily by hand. Invaluable to maintenance engineers for on-the-spot repairs. Supplied in storage wallet complete with 4mm, 5mm, 6mm and 8mm nose bushes and mandrels

Threaded Insert Nose Bush / Mandrel Conversion Kit

Part No.	Size	Qty	Part No.	Size	Qty
72CK211	6 UNC	10	72CK224	1/4 UNF	10
72CK212	8 UNC	10	72CK231	3mm	10
72CK213L	10 UNC	10	72CK232L	4mm	10
72CK214L	1/4 UNC	10	72CK233L	5mm	10
			72CK234	6mm	10
			72CK235	8mm	10

Inserts					
Part No.	Size	Qty	Part No.	Size	Qty
724504 724506	4mm 6mm	100 100	724505 724508	5mm 8mm	100 100

Threaded Insert Setting Tool Kit

Part No Description

0.128"

available

surface damage

 A comprehensive range of conversion kits and inserts are

Designed for the quick, manual

insertion of permanent load bearing

threads in materials from 0.20" to

 Simple set up and easy uniform stroke allows a nutsert to be set in

thin sheet materials without causing

2 2745 As the 2743 but supplied with additional 4mm, 5mm, 6mm and 8mm threaded nutserts. Housed in a compact tool box for easy storage

Product BenefitsOne side application

- Flush mounting
 - Hush mounting
- Permanent thread
- Moisture resistant
- Cost effective
- StrongRapid
- Паріа
- Vibration resistant
- Portable

TSN[®] GRIP RANGE

SIZE	MINIMUM	MAXIMUM	
4mm	0.51mm (0.020")	1.27mm (0.050")	
5mm	0.51mm (0.020")	1.27mm (0.050")	
6mm	0.76mm (0.030")	1.68mm (0.066")	
8mm	0.91mm (0.036")	3.25mm (0.128")	

All TSN® are BS, ISO metric screw threads in the coarse pitch series. TSN® (thin sheet nutsert) is the registered trademark of AVDEL LTD.

RIVETER KITS/SPARES/RIVETS/DEBURRING TOOLS

Rivets			
	-		
SHUR	•		
Rivet Dia	Part No	Maximum Grip	Overall Length to Collar
3mm	A23S	2mm	6mm
4mm	A24S	2mm	6mm
5mm	A25S	3mm	7mm
MEDIU	M		
Rivet Dia	Part No	Maximum Grip	Overall Length to Collar
3mm	A23M	3.5mm	8mm
4mm	A24M	5mm	8mm
5mm	A25M	7mm	10mm
LONG			
Rivet Dia	Part No	Maximum Grip	Overall Length to Collar
3mm	A23L	7.5mm	11mm
4mm	A24L	9mm	14mm
5mm	A25L	11mm	16mm

Deburring Tool

Part No Description

1 9350 A multifunctional tool capable of holding a range of different blades, coarse to fine, for external and internal deburring operations. Easy to operate chuck allows for quick blade changeover.



Deburring Tool Blades

Washers

Part No	Description		Unit of Pack
S23W	Washers Blister	100 x 3mm (¼")	10
S24W	Washers Blister	100 x 4mm (5/32")	10
S25W	Washers Blister	100 x 5mm (¾6")	10

Part No Description

DB1 Heavy Duty HSS blade for steel and aluminium
 DB2 Heavy Duty HSS blade for brass and cast iron. Capable of right and left hand cuts

All blades are ground from quality high speed steel, heat treated for maximum tool life and designed for safety with unique rounded heads

Spare Nose Kits

Part No	Description	For use with rivet sizes
1 02738A	Kit 1-5x72HD12A	3mm(½")
2 02738B	Kit 2-5x72HD13A	4mm(5/2")
🔁 02738C	Kit 3-5x72HD14	5mm(¾6'')
for use with 27	50HD	
02738A-HD	Spare Nose Kit - 5 x 3mm	3mm(1/4")
02738B-HD	Spare Nose Kit - 5 x 4mm	4mm(5⁄32'')
02738C-HD	Spare Nose Kit - 5 x 5mm	5mm(¾6'')
02738A-HD	Spare Nose Kit - 5 x 6mm	6mm (¼")
for use with 27	60	
02768A	Kit 4-1 each 72LA12	4mm(5/2")
	72LA13A (for aluminium)	5mm(¾6")
	72LA13S (for steel)	5mm(¾6")
	72LA14	6mm (¼")
1	2	3

Spare Jaw Kits

Part No Description

2738	Pack of 5 jaws to suit models: 2720, 2730, 2750, 2770 Part No. 72HD5A
02768	Pack of 5 jaws to suit models: 2760 Part No. 72LA5

Spares list and drawings are also available for threaded insert setting tool 2743/2745.

Riveter Repair Kits

Part No	Description	Part No	Description
02729	Repair kit for 2720	02759	Repair kit for 2750
02739	Repair kit for 2730/2770	02769	Repair kit for 2760

ECLIPSE TORQUE CONTROL TOOLS, ACCESSORIES & MULTIPLIERS

TORQUE WRENCHES TORQUE WRENCH SPARES SOCKET SETS TORQUE SCREWDRIVERS MULTIPLIERS

(1)

ECLIPSE TORQUE TOOLS

Eclipse torque wrenches are manufactured in the UK and incorporate the very latest design, manufacturing and quality control technology to achieve the highest level of innovation and precision in the field of torque control equipment.

GLOBAL SERVICE

Neill Tools are pleased to advise the availability of tool re-calibration services to the original factory standard at five locations on five different continents. The accredited laboratories are situated in the UK, Australia, USA, Singapore and China, and use the same equipment and procedures as the factory (which has UKAS accreditation). Please contact sales@neill-tools.co.uk for full details of the repair and re-calibration services available.

THE OFFICIAL MARK OF QUALITY



CERT NO. Q6228

Eclipse torque wrenches conform to the most stringent quality standards set by UKAS (the UK Government body who set the laboratory standards for calibration services). The factory manufactures according to BSEN ISO/IEC 17025:2000 which sets the standard for the technical competence of the original testing laboratory. This should not be confused with laboratories claiming ISO 9000:2000, as this standard relates only to a laboratory's quality management systems. We guarantee all our tools and products against defective workmanship and materials so you can be sure of first class quality every time.

ECLIPSE TORQUE WRENCHES: TRACEABLE CALIBRATION

A Certificate of Calibration is generated on the production line during calibration for each torque wrench and is individually packed with each product.

Certificate Key

- 1. Torque wrench model
- 2. Torque wrench individual serial number

0256

- 3. Torque settings to which the wrench is calibrated
- 4. Upper and lower tolerance
- 5. The actual torque readings achieved by the wrench
- 6. The standard against which the wrench is being tested
- Details of the test equipment and calibration certificate number. This information provides the traceability to our UKAS laboratory and hence to national standards





WHAT IS TORQUE?

Torque is any force or system of forces that tends to cause rotation about an axis.

MEASUREMENT OF TORQUE

Imagine someone tightening a bolt using a socket attached to a meter long bar. If they apply 10 kg of force (kgf) perpendicular to the bar they will produce a torque of 10 kgf.m at the axis (the centre of the bolt). However, under the S.I. system of measurement, force is expressed in Newtons (N) rather than kgf. The conversion between kgf and N is x 9.807 so the person is applying 98.07 N.m of torque.



THE IMPORTANCE OF TORQUE CONTROL

Although many methods exist to join two or more parts together, the ease of assembly and disassembly provided by threaded fasteners make them the ideal choice for many applications.

The object of a threaded fastener is to clamp parts together with a tension greater than the external forces tending to separate them. The bolt then remains under constant stress and is immune from fatigue. However, if the initial tension is too low, varying loads act on the bolt and it will quickly fail. If the initial tension is too high, the tightening process may cause bolt failure. Reliability therefore depends upon correct initial tension. The most practical way of ensuring this is by specifying and controlling the tightening torque.

BOLT TENSION

When an assembly is clamped by tightening a nut and bolt, the induced tension causes the bolt to stretch. An equal force acts to compress the parts which are thus clamped.

The proof load of a bolt, normally established by test, is the load which just starts to induce permanent set – also known as the yield point. Typically bolts are tightened to between 75% and 90% of yield.



FRICTION IN THE BOLTED JOINT

When a threaded fastener is tightened, the induced tension results in friction under the head of the bolt and in the threads. It is generally accepted that as much as 50% of the applied torque is expended in overcoming friction between the bolt head and the abutting surface and another 30% to 40% is lost to friction in the threads. As little as 10% of the applied torque results in useful work to tension the bolt.



Given that up to 90% of the applied torque will be lost to friction, it follows that any changes in the coefficient of friction resulting from differences in surface finish, surface condition and lubrication can have a dramatic effect on the torque versus tension relationship. Some general points can be made:

- Most torque tightened joints do not use washers because their use can result in relative motion between the nut and washer or the washer and joint surface during tightening. This has the effect of changing the friction radius and hence affects the torque-tension relationship. Where a larger bearing face is required then flange nuts or bolts can be used. If washers are to be used, hard washers with a good fit to the shank of the bolt give lower and more consistent friction and are generally to be preferred.
- Degreasing fasteners of the film of oil usually present on them as supplied will decrease the tension for a given torque and may result in shear of the fastener before the desired tension is achieved.
- Super lubricants formulated from graphite, molybdenum disulphide and waxes result in minimal friction. Unless allowance is made in the specified tightening torque, the induced tension may be excessive causing the bolt to yield and fail. However, used in a controlled manner, these lubricants serve a useful purpose in reducing the torque to produce the desired tension meaning that a lower capacity tightening tool can be used.
- For reasons of appearance or corrosion resistance, fasteners may be plated. These treatments affect the coefficient of friction and therefore the torque versus tension relationship.

Friction is often deliberately introduced into the fastener to reduce the possibility of loosening		SUF	RFACE CON	DITION OF B	OLT
due to vibration. Devices such as		Untreated	Zinc	Cadmium	Phosphate
lock-nuts must be taken into account when establishing the correct		1.00	1.00	0.80	0.90
tightening torque.	ZINC	1.15	1.20	1.35	1.15
As a rough guide, the calculated		0.85	0.90	1.20	1.00
by the factor from the table opposite	PHOSPHATE & OIL	0.70	0.65	0.70	0.75
according to surface treatment and lubrication.	🖁 ZINC & WAX	0.60	0.55	0.65	0.55

RECOMMENDED MAXIMUM TORQUE VALUES

The information supplied here is intended to be an acceptable guide for normal conditions. For critical applications, further information and research will be necessary. The following basic assumptions have been made:

a. Bolts are new, standard finish, uncoated and not lubricated (other than the normal protective oil film).

b. The load will be 90% of the bolt yield strength.

c. The coefficient of friction is 0.14.

d. The final tightening sequence is achieved smoothly and slowly.

If lubrication is to be applied to the nut/bolt, multiply the recommended torque by the appropriate factor shown in the table on page 56.

F	EDLT GRADE									
	3.6	4.6	5.6	5.8	6.8	8.8	9.8	10.9	12.9	
' M '				Torque	III IN.III					
M 1.6	0.05	0.07	0.09	0.11	0.14	0.18	0.21	0.26	0.31	3.2
M 2	0.11	0.14	0.18	0.24	0.28	0.38	0.42	0.53	0.63	4
M 2.5	0.22	0.29	0.36	0.48	0.58	0.78	0.87	1.09	1.31	5
M 3	0.38	0.51	0.63	0.84	1.01	1.35	1.52	1.9	2.27	5.5
M 4	0.71	0.95	1.19	1.59	1.91	2.54	2.86	3.57	4.29	7
M 5	1.71	2.28	2.85	3.8	4.56	6.09	6.85	8.56	10.3	8
M 6	2.94	3.92	4.91	6.54	7.85	10.5	11.8	14.7	17.7	10
M 8	7.11	9.48	11.9	15.8	19	25.3	28.4	35.5	42.7	13
M 10	14.3	19.1	23.8	31.8	38.1	50.8	57.2	71.5	85.8	17
M 12	24.4	32.6	40.7	54.3	65.1	86.9	97.7	122	147	19
M 14	39	52	65	86.6	104	139	156	195	234	22
M 16	59.9	79.9	99.8	133	160	213	240	299	359	24
M 18	82.5	110	138	183	220	293	330	413	495	27
M 20	117	156	195	260	312	416	468	585	702	30
M 22	158	211	264	352	422	563	634	792	950	32
M 24	202	270	337	449	539	719	809	1011	1213	36
M 27	298	398	497	663	795	1060	1193	1491	1789	41
M 30	405	540	675	900	1080	1440	1620	2025	2430	46
M 33	550	734	917	1223	1467	1956	2201	2751	3301	50
M 36	708	944	1180	1573	1888	2517	2832	3540	4248	55
M 39	919	1226	1532	2043	2452	3269	3678	4597	5517	60
M 42	1139	1518	1898	2530	3036	4049	4555	5693	6832	65
M 45	1425	1900	2375	3167	3800	5067	5701	7126	8551	70
M 48	1716	2288	2860	3813	4576	6101	6864	8580	10296	75
M 52	2210	2947	3684	4912	5895	7859	8842	11052	13263	80
M 56	2737	3650	4562	6083	7300	9733	10950	13687	16425	85
M 60	3404	4538	5673	7564	9076	12102	13614	17018	20422	90
M 64	4100	5466	6833	9110	10932	14576	16398	20498	24597	95
M 68	4963	6617	8271	11029	13234	17646	19851	24814	29777	100

TORQUE CONVERSION FACTORS

FORMULAE

Units to be	S.I	S.I Units Imp		l Units		Metric Units	
converted	cN.m	N.m	ozf.in	lbf.in	lbf.ft	kgf.cm	kgf.m
1 cN.m=	1	0.01	1.416	0.088	0.007	0.102	0.001
1 N.m=	100	1	141.6	8.851	0.738	10.20	0.102
1 ozf.in=	0.706	0.007	1	0.0625	0.005	0.072	0.0007
1 lbf.in=	11.3	0.113	16	1	0.083	1.152	0.0115
1 lbf.ft=	135.6	1.356	192	12	1	13.83	0.138
1 kgf.cm=	9.807	0.098	13.89	0.868	0.072	1	0.01
1 kgf.m=	980.7	9.807	1389	86.8	7.233	100	1
Force lbf x 4.45 = N N x 0.225 = lbf	Flow I/s x 2 cu.ft/r	2.119 = cu.ft/r nin x 0.472 :	Pro min Ibf/ = I/s ba	e ssure ⁄in² x 0.069 r x 14.504 =	= bar Ibf/in²	Power hp x 0.746 kW = N.m	6 = kW x rev/min

Accepted formulae relating torque and tension, based on many tests are:-

$M = \frac{P \times D}{60}$	M = torque lbf.ft P = bolt tension lbf D = bolt dia.ins
$M = \frac{P \times D}{5000}$	M = torque N.m P = bolt tension Newtons D = bolt dia.mm

These formulae may be used for bolts outside the range of the tables.

FORMULAE FOR CALCULATING THE EFFECT OF TORQUE WRENCH EXTENSIONS

 $M1 = M2 \times L1/L2$

Where L1 is the normal length and L2 is the extended length, M1 is the set torque and M2 the actual torque applied to the nut.



EXAMPLE

The required torque on the fastener is 130 N.m (M2) but what do you set on the torque wrench scale?

L1 = 500 L2 = 650

(units of length not important, this is a ratio) M1 = 130 x 500/650 M1 = 100 ECLIPSE

TORQUE CONTROL TOOLS, ACCESSORIES & MULTIPLIERS



ECLIPSE



ECLIPSE TORQUE CONTROL TOOLS, ACCESSORIES & MULTIPLIERS

ECLIPSE TORQUE WRENCHES RATCHET HEAD

Torque Mechanism

Accuracy of +/- 3% exceeds all international standards for torque wrenches. Each wrench is supplied with a traceable calibration certificate

Ratchet

- Strength & Durability: push-through ratchet with 60-72 engagements per revolution (depending on the model)
- Versatility: push through square drive allows the wrench to be used for torque control in both a clockwise and an anti-clockwise direction (note: ETW14-20 and ETW38-50 are with reversible ratchets so do not have this feature)

Handle

Adjustment Mechanism

Safety: a robust lock

prevents accidental

adjustment of the

wrench during use.

Speed and Ease of Use:

quick and light adjustment

with the minimal of effort over the entire scale in approximately ten complete turns.

- Comfort & Safety: two component ergonomic handle for maximum comfort and slip resistance
- Durability: Handle material and lens resist chemicals in common usage in the automotive, aviation and industrial environments

Reversible Ratchet

• Versatility: the tough ratchets are reversible with a narrow engagement angle of 6° to allow easy positioning of the tool in the tight confines of today's vehicles and machines

Micrometer Scale

Versatility & Accuracy: micrometer scale gives simple and error free setting (On dual scale wrenches, the micrometer increment applies to the N.m scale)



Torque Wrenches - Ratchet Head

Part No.	Square Drive	Range	Range	Resolution	Ratchet Diameter	Engagements per Revolution	Length	Weight
	Inch	N.m	lbf.ft	N.m	mm		mm	kg
ETW14-20	1/4"	1-20	10-180*	0.05	30	72	230	0.4
ETW38-50	3/8"	8-50	6-35	0.10	30	72	230	0.4
ETW38-100	3/8"	20-100	15-75	0.50	38	60	405	1.0
ETW12-100	1/2"	20-100	15-75	0.50	38	60	405	1.0
ETW12-150	1/2"	30-150	20-110	0.50	38	60	455	1.1
ETW12-200	1/2"	40-200	30-150	1.00	46	60	505	1.2
ETW12-250	1/2"	50-250	40-185	1.00	46	60	560	1.4
ETW12-300	1/2"	60-300	45-220	1.00	46	60	610	1.6

*lbf.in

ECLIPSE TORQUE WRENCHES FIXED HEAD

Torque Mechanism

Accuracy of +/- 3% exceeds all international standards for torque wrenches. Each wrench is supplied with a traceable calibration certificate



Handle

- Comfort & Safety: two component ergonomic handle for maximum comfort and slip resistance
- **Durability:** Handle material and lens resist chemicals in common usage in the automotive, aviation and industrial environments

Fixed Head

- Ease of use: fewer working parts than ratchet type wrenches, so simpler to repair
- Versatility: push through square drive for left and right handed operation
- Strength & Durability: strong head with push through square drive is ideal for use in tough working conditions

Micrometer Scale

Versatility & Accuracy: micrometer scale gives simple and error free setting (On dual scale wrenches, the micrometer increment applies to the N.m scale)



Adjustment Mechanism

Safety: a robust lock prevents accidental adjustment of the wrench during use.

Speed and Ease of Use: quick and light adjustment with the minimal of effort over the entire scale in approximately ten complete turns.

Torque Wrenches - Fixed Head

Part No.	Square Drive	Range	Range
	Inch	N.m	lbf.ft
ETW38-50FH	3/8"	8-50	6-35
ETW38-100FH	3/8"	20-100	15-75
ETW12-100FH	1/2"	20-100	15-75
ETW12-150FH	1/2"	30-150	20-110
ETW12-200FH	1/2"	40-200	30-150
ETW12-250FH	1/2"	50-250	40-185
ETW12-300FH	1/2"	60-300	45-220

ECLIPSE PROFESSIONAL TORQUE WRENCHES RATCHET HEAD

Ratchet

- Strength & Durability: push-through ratchet with 60-72 engagements per revolution (depending on the model)
- Versatility: push through square drive allows the wrench to be used for torque control in both a clockwise and an anti-clockwise direction
- Accuracy: offset ratchet pawls give a narrow engagement angle



- Safety: a robust lock prevents accidental adjustment of the wrench during use.
- Ease of use: Fingertip light adjustment

Torque Scale

• Versatility & Accuracy: Unique 'harmonic drive' scale mechanism allows for a long scale length and therefore accurate and error free setting

Torque Mechanism

 Accuracy: less parts to maintain when compared to 'pivot block' mechanisms
 Accuracy: +/-3% exceeds all international standards for torque wrenches. Each wrench is supplied with a traceable calibration certificate
 Ease of use: Simple calibration adjustments without disassembly

Handle

- Comfort & Safety: two component ergonomic handle for maximum comfort and slip resistance
- Durability: Handle material and lens resist chemicals in common usage in the automotive, aviation and industrial environments
ECLIPSE TORQUE CONTROL TOOLS, ACCESSORIES & MULTIPLIERS



Professional Torque Wrenches - Ratchet Head

Part No.	Square Drive Inch	Range N.m	Range Ibf.ft	Ratchet Diameter mm	Engagements per Revolution	Length mm	Weight kg
EPTW38-60	3/8"	8-60	5-45	35	72	312	0.66
EPTW12-60	1/2"	8-60	5-45	40	72	320	0.74
EPTW38-100	3/8"	20-100	15-80	35	72	353	0.73
EPTW12-100	1/2"	20-100	15-80	40	72	359	0.80
EPTW12-200	1/2"	40-200	30-150	42	72	442	1.01
EPTW12-300	1/2"	60-300	45-220	49	60	570	1.38
EPTW12-330	1/2"	60-330	45-250	49	60	683	1.50
EPTW34-400	3/4"	80-400	60-300	49	60	683	2.09

ECLIPSE PROFESSIONAL TORQUE HANDLES (FEMALE FITTING)*

F

- For many applications a spanner end fitting rather than a socket is the best or, often, the only solution. Typically this will be because the joint is a pipe union (such as a brake pipe)
- 9x12mm and 14 x 18mm rectangular type handles



Professional Torque Handles - Ratchet Head

Part No.	Square Drive	Range	Range	Length	Weight
	Inch	N.m	lbf.ft	mm	kg
EFTH-60	9x12	8-60	5-45	300	0.55
EFTH-100	9x12	20-100	15-80	340	0.6
EFTH12-200	9x12	40-200	30-150	421	0.78
EFTH18-200	14x18	40-200	30-150	431	0.78
EFTH-300	14x18	60-300	45-220	546.5	1.13
EFTH-400	14x18	80-400	60-300	658	1.78

*Available on request. Minimum order quantities apply

ECLIPSE AUTOMOTIVE TORQUE WRENCHES (RATCHET HEAD)*

- Versatility: The reversible ratchet is designed with compact dimensions and a narrow engagement angle resulting from the 72 tooth pattern. This makes the wrench ideal for use in the confined spaces of modern motor vehicles and other applications where space is limited
- Accuracy: of +/- 3% exceeds all international standards for torque wrenches. Each wrench is supplied with a traceable calibration certificate
- Comfort & Safety: two component ergonomic handle for maximum comfort and slip resistance
- **Durability:** Handle material and lens resist chemicals in common usage in the automotive, aviation and industrial environments
- Safety: a robust lock prevents accidental adjustment of the wrench during use



Automotive Torque Wrenches - Ratchet Head

Part No.	Square Drive	Range	Range	Ratchet Diameter	Engagements per Revolution	Length	Weight
	Inch	N.m	lbf.ft	mm		mm	kg
EATW38-60	3/8"	8-60	5-45	31	72	307	0.6
EATW12-60	1/2"	8-60	5-45	31	72	307	0.6
EATW38-100	3/8"	20-100	15-80	31	72	347	0.7
EATW12-100	1/2"	20-100	15-80	31	72	347	0.7
EATW12-200	1/2"	40-200	30-150	41	72	443	1.0

ECLIPSE SLIMLINE TORQUE HANDLE (FEMALE FITTING)

- Adjustable torque handle female end fitting
- Accuracy exceeds all international standards
- Traceable calibration certificate supplied to satisfy
 ISO 9000:2000 quality systems
- Moulded grip aids correct handle location and operator comfort



Slimline Torque Handle

Part No.	End Fitting	Range	Range	Length	Weight
	Inch	N.m	lbf.ft	mm	kg
ESLH38-20	9x12	4-20	40-180	205	0.4

ECLIPSE INDUSTRIAL TORQUE WRENCHES

- Accuracy: +/-4%, even in arduous working conditions. Each wrench is supplied with a traceable calibration certificate
- Accuracy: large break angle improves accuracy by reducing the possibility of over torquing
- **Safety:** cam control of the mechanism gives a controlled break which will not throw the operator off balance
- Versatility: dual scaled N.m and lbf.ft

Industrial Torque Wrenches

Part No.	Square Drive	Range	Range	Ratchet Diameter	Engagements per Revolution	Length	Weight
	Inch	N.m	lbf.ft	mm		mm	kg
EITW-500	3/4"	100-500	70-350	70	36	910	5.2
EITW-1000	3/4"	300-1000	200-750	70	36	1475	7.3
EITW-1500	3/4"	70-1500	500-1000	70	36	1475	10.4

ECLIPSE PROFESSIONAL INDUSTRIAL TORQUE WRENCHES RATCHET HEAD

- Accuracy: +/- 3% reading
- Ease of Use: non length dependent extension handle can be used to reduce operator effort (handle supplied as standard with 800, 1000 and 1500 N.m models)
- Accuracy: long scale length in N.m and lbf.ft allows error free setting
- Versatility: fine 60 tooth ratchet allows the wrench to be used in confined spaces
- Ease of Use: positive 'click' can be heard, seen and felt
- Storage & Protection: supplied in hard carry case





Professional Industrial Torque Wrenches - Ratchet Head

Part No.	Square Drive	Range	Range	Ratchet Diameter	Engagements per Revolution	Length	Length (Inc Ext Handle)	Weight
	Inch	N.m	lbf.ft	mm		mm	mm	kg
EPITW34-550	3/4"	110-550	80-400	61	60	845	-	4.0
EPITW34-800	3/4"	200-800	150-600	75	60	1035	1535	5.2
EPITW1-800	1"	200-800	150-600	75	60	1035	1535	5.2
EPITW34-1000	3/4"	300-1000	220-750	75	60	1250	1750	5.8
EPITW1-1000	1"	300-1000	220-750	75	60	1250	1750	5.8
EPITW34-1500	3/4"	500-1500	370-1100	75	60	1570	2070	6.7
EPITW1-1500	1"	500-1500	370-1100	75	60	1570	2070	6.7

RATCHET REPAIR KITS

Eclipse Range



Eclipse Professional Range



Part No	For Torque Wrenches	Box
E10010		uty
E13212	EP1W38-60 / EP1W38-100	1
E13213	EPTW12-60 / EPTW12-100	1
E13214	EPTW12-200	1
E13215	EPTW12-300 / EPTW12-330	1
E13216	EPTW34-400	1

Box

Qty 1

11 Piece Socket Sets

Part	No	

EC-SS11M1/2U

Sockets	Qty	
10mm	1	
11mm	1	
12mm	1	
13mm	1	$\langle \cdot \rangle$
14mm	1	
15mm	1	- HI
17mm	1	P
19mm	1	
21mm	1	
22mm	1	
Plus	Qty	9
Ratchet	1	

Socket Sets are used for tightening and loosening nuts

- 1/2" square drive, double hex
 Triple plated chrome vanadium
 Surface drive and high torque
- system - full face contact for maximum
- torque - ideal for fasteners with worn
- heads

24 Piece Socket Sets

Part No	Box	Sockets	Qty	Sockets	Qty	
	Qty	10mm	1	21mm	1	
EC-SS24M1/2U	1	11mm	1	22mm	1	
		12mm	1	23mm	1	
_ 70.	100	13mm	1	24mm	1	
ECLIPSE In Pract Provide Control Research		14mm	1	27mm	1	
000000000000000000000000000000000000000		15mm	1	30mm	1	
		17mm	1	32mm	1	
		19mm	1			
2000000000 000	00,00	Plus			Qty	
		Slidina T E	Bar 250mm		1	
		Universal Joint		1		
		Speed Har	ndle 395mm		1	
		Extension	Bar 125mm		1	
		Extension Bar 250mm				
		Reversible	72 tooth Ra	atchet Handle	1	



T all NO	Tor Torque Wienenes	Qty
E13427	ETW1/2-50	1
E13407	ETW38-100	1
E13409	ETW12-100 / ETW12-150	1
E13408	ETW12-200 / ETW12-250 / ETW12-300	1

Eclipse Automotive Professional Range

Assembled Ratchet Head

Part No	For Torque Wrenches	Qty
E11598	EATW38-60 / EATW38-100	1
E11618	EATW12-60 / ETW12-100	1
E11622	EATW12-200	1

Eclipse Industrial Range

Ratchet Repair Kit

Part No E12307	For Torque Wrenches EITW-500 / EITW-800 / EITW-1000 / EITW-1500	Box Qty 1
Kit contai	ns	
Description	Qty	
Ratchet Cen	tre 1	
Side Washer	rs 2	

Side Washers	2
Circlips	2
Pawls	4
Springs	4

Box



ECLIPSE TORQUE SCREWDRIVERS









Bit holder can be removed and replaced with a wide range of screwdriver blades

Torque Screwdrivers

Part No.	Hex Holder Size	Range N.m	Length mm	Weight kg
ETS14-15	1/4"	0.3 - 1.5	155	0.235
ETS14-30	1/4"	0.6 - 3.0	155	0.235
ETS14-60	1/4"	1.2 - 6.0	155	0.235

TORQUE MULTIPLIERS

WHAT IS A TORQUE MULTIPLIER?

A torque multiplier is a device that increases the torque that can be applied. Because the power output cannot exceed the power input, the number of output revolutions will be lower than the number of input revolutions (torque x rpm = power).

WHAT ARE THE ADVANTAGES OF TORQUE MULTIPLIERS?

Safety: Using long levers can be dangerous. Torque multipliers reduce the lever length or operator effort by a factor of 5, 25 or 125.

Flexibility: Torque multipliers are ideal for use in confined spaces where it may not be possible to fit long levers.

Accuracy: Torque is most accurate when it is applied smoothly and slowly. Torque multipliers help to achieve this by removing much of the physical effort from the tightening task.





HOW DO ECLIPSE HANDTORQUE™ MULTIPLIERS WORK?

Eclipse Handtorque[™] Multipliers incorporate an 'epicyclic' or 'planetary' gear train that has one or more stages. Each stage of gearing increases the torque applied by a factor of 5, so Eclipse multipliers typically offer ratios of 5:1, 25:1 and 125:1

With the planetary gear system, torque is applied to the input gear (known as the 'sun' gear), causing the three or four 'planet' gears whose teeth engage with the 'sun' gear to rotate. The outside casing of the multiplier (the annulus) also engages with the planet gear teeth and would normally rotate in the opposite direction to the sun gear.

However, a reaction arm prevents the annulus from rotating, allowing the planet gears to orbit around the sun. The planet gears are held in a 'planetary' carrier which also holds the input square drive so that, as the planet gears orbit around the sun gear, the carrier and therefore the square drive turn. Without the reaction arm to keep the annulus stationary, the output square will not apply torque.

WHY CHOOSE AN ECLIPSE HANDTORQUE™ MULTIPLIER?

Accuracy & Reliability: Eclipse gearboxes are built to an extremely high standard of precision, with all gears rotating on needle roller bearings about hardened and ground journal pins. As a result, Eclipse Handtorque[™] multipliers have a torque multiplication accuracy of +/-4% throughout the operating range, taking the uncertainty out of high torque tightening.

Accuracy: No gearbox is 100% efficient and so the velocity ratio (the number of turns that the input has to make to achieve one revolution of the output) is not the same as the torque multiplication ratio. Eclipse multipliers are engineered such that each gear stage has a typical velocity ratio of 5.45:1, resulting in a true torque multiplication factor of 5:1.

Safety & Ease of Use: Torque output calculations on Eclipse multipliers are a matter of simple arithmetic, with little risk of incorrect bolt loading due to conversion errors. Unlike most other manufacturers' multipliers, there is no need for graphs or formulae to calculate the input torque required to achieve a particular output.

ECLIPSE HT3 'HIGHWAYMAN' TORQUE MULTIPLIERS

- 5:1 torque multiplication with a guaranteed accuracy of better than +/- 4%.
- Two reaction bar styles for maximum versatility.
- Robust construction for minimum maintenance and a longer life.
- Spare ³/₄" output square included in the 1300 N.m kit.
- Robust carry case ideal for inclusion in a heavy vehicle tool kit.



HT3 'Highwayman' Torque Multipliers

Part No	Description	Range N.m	Range Ibf.ft	Ratio	Input Square in	Output Square in	A mm	B mm	C mm	D mm	Tool Weight kg	Reaction Weight kg
E17220	HT3 Torque Multiplier	1300	960	5:1	1/2	3/4	108	126	210	180	3.8	1.3
E17221	HT3 Torque Multiplier	2700	2000	5:1	3/4	1	108	128	210	186	3.8	1.3

ECLIPSE HT4 TORQUE MULTIPLIERS

- True 15.5:1 or 26:1 torque multiplication with a guaranteed accuracy of better than +/- 4%.
- High ratios allow small torque wrenches to be used.
 Robust construction for minimum maintenance and a longer life.
- Anti Wind Up Ratchet (anti backlash) fitted to allow safer and more practical operation.
- Angle protractor for easy torque and angle tightening.
- Robust carry case with replacement square.





HT4 Torque Multipliers											
Part No	Description	Range N.m	Range Ibf.ft	Ratio	Input Square in	Output Square in	A mm	B mm	C mm	Tool Weight kg	Reaction Weight kg
E17022	HT4 Torque Multiplier	3000	2200	15.5:1	1/2	1	108	156	450	6.1	1.9
E17021	HT4 Torque Multiplier	4500	3300	26:1	1/2	1	108	173	450	7.0	1.9

ECLIPSE HANDTORQUE™ SMALL DIAMETER SERIES

- Reduced diameter allows for better access, particularly on pipe flanges.
- Reaction taken from high strength spline
- Reaction foot can slide on the spline to allow for sockets of various lengths.
- Anti Wind Up Ratchet (anti backlash) fitted to allow safer and more practical operation.





Handtorque™ Small Diameter Series

Part No	Description	Range N.m	Range Ibf.ft	Ratio	Input Square in	Output Square in	A mm	B mm	C mm	D min mm	D max mm	Tool Weight kg	Reaction Weight kg
E18008	Small diameter torque multiplier 60/25	6000	4400	25:1	1/2	1½	119	271	154	320	351	10.6	4
E18012	Small diameter torque multiplier 60/125	6000	4400	125:1	1/2	1½	119	301	172	350	381	12.1	4

ECLIPSE TORQUE CONTROL TOOLS, ACCESSORIES & MULTIPLIERS

WHAT IS AN ANTI WIND UP RATCHET?

With any high ratio gearbox (25:1 or more), a certain amount of wind up (backlash) has to be taken up before any useful tightening work is applied to the nut. Each time the input device is released, the wind up will rotate it back against the direction of operation. The Anti Wind Up Ratchet (AWUR) on Eclipse torque multipliers retains all of the wind up force as it is created.



WHAT ARE THE BENEFITS OF THE ECLIPSE ANTI WIND UP RATCHET?

Safety: The torque input device cannot fly backwards against the direction of operation if it is suddenly released.

Ease of Use: Without an anti wind up ratchet, it is generally necessary to make continuous 360° sweeps with the torque input device to prevent the multiplier unwinding. However, any obstructions will make this impossible.

Versatility and Safety: With an Anti Wind Up Ratchet fitted, the multiplier locks onto the nut, because the reaction plate is held hard against the reaction point. This means that, even when used upside down, the multiplier supports its own weight.



Multiplier behaves like a very stiff 'spring'



Multiplier will achieve maximum torque only after the 'spring' has been taken up



In this application the multiplier is used upside down and is able to support its own weight because the reaction plate is held hard against the reaction point



In this application, if it takes more than 180° to take up the wind-up at the required torque, this tightening operation will be impossible without an 'Anti Wind-Up Ratchet'

ECLIPSE PROFESSIONAL TOOLS

ENGINEERS' TOOLS

HAND TOOLS MACHINE TOOLS WOODWORKING TOOLS

ECLIPSE PROFESSIONAL TOOLS



Centre Punches

Used to indent, mark, scribe lines and to make indentations in workpieces prior to drilling. Punch point accurately ground to an angle of 90°

Part No	Point Diameter	Length	Pack Size
351A	3.2mm (½")	100mm (4")	10
351B	4mm (5⁄32")	100mm (4")	10
351C	4.8mm (¾16")	100mm (4")	10
1 351D	6.35mm (¼")	100mm (4")	10
351W	Wallet containing one of	each	1 set
Carded retail pro	oducts 3.2mm (½")	100mm (4")	5

Parallel Punches

Used to punch out pins and dowels

Part No	Point Diameter	Length	Pack Size
161AA	1.7mm (1/16")	100mm (4")	10
5 161A†	2.3mm (¾2")	100mm (4")	10
📒 161B†	3.1mm (1/8")	100mm (4")	10
161CC	3.9mm (5⁄32")	100mm (4")	10
📒 161C†	4.7mm (⅔₁₀")	100mm (4")	10
161DD	5.3mm (1/32")	100mm (4")	10
6 161D	6.1mm (¼")	100mm (4")	10
📒 161E	7.6mm (⁵⁄₁₀")	150mm (6")	5
7 161FF	9.5mm (⅔")	150mm (6")	5
161W	Wallet containing one of each	1 set	

† also available in bulk packs of 200 (161ABP, 161BBP, 161CBP)

Nail Punches

Designed to drive nail heads below the surface of wood. Cupped and bevelled points limit skidding off nail head

Part No	Point Diameter	Length	Pack Size
3 352A	1.6mm (1/16")	100mm (4")	10
352B	2.4mm (¾2")	100mm (4")	10
352C	3.2mm (1/8")	100mm (4")	10
4 352D	4mm (5⁄32")	100mm (4")	10
352W	Wallet containing one of each	1 set	
Carded retail products			
65-232R Nail punch	1.6mm (1/16")	100mm (4")	5
65-332R Nail punch	2.4mm (³⁄₃₂")	100mm (4")	5
65-432R Nail punch	3.2mm (1/8")	100mm (4")	5
65-532R Nail punch	4mm (5⁄32")	100mm (4")	5

Auto Centre Punches

Delivers a punch when hand pressure applied to knurled head. One handed operation, hammer should not be used. Depth of impression adjusted by turning knurled head

Part No	Length mm	Operating Pressuk kg	re Range Ib	Pack Size
8 65–171R	120mm (411/16")	13.5-2.25	30-5	10
9 E172	149mm (5%")	22.5-6.3	50-14	1

Nail & Pin Drivers

Two quality drivers for pushing home nails and pins when using a hammer would be hazardous or cause damage. Magnetic head holds nail in place, and spring return allows automatic thrusting of nail below material surface. Pistol grip handle for extra secure grip. 2.5mm: for pushing home panel pins and nails up to 2.5mm diameter. 4mm: for nails up to 4mm diameter.

Part No	Head Type	Diameter	Pack Size
10 9180	Pin driver	2.5mm (¾2")	6
9185	Nail driver	4mm (5⁄32")	6



SCRAPERS / PIN VICES / CHUCKS & COLLETS



Hand scrapers are designed for the removal of high spots on machined surfaces to give a smoother surface on slideways, bearings, cast iron surface plates and precision marking out plates. All scrapers have a soft feel handle and are made from high grade tool steel suitably hardened, to maintain a very keen cutting edge

Engineers' Scrapers

Suitable for toolroom and small engineering work

	Part No	Blade Length	Cutting Edge	Pack Size
1	96A	100mm (4")	Three Square	Ę
2	97A	140mm (5½")	Three Square	Ę
	99A	200mm (8")	Three Square	Ę
3	96B	100mm (4")	Flat	Ę
4	97B	150mm (6")	Flat	Ę
	99B	200mm (8")	Flat	Ę
	96C	100mm (4")	Curved half round	Ę
5	97C	150mm (6")	Curved half round	Ę
	97D	200mm (8")	Curved half round	Ę
	96	Set of 3 comprising Nos 96A, B, and C	1 set	
	97	Set of 4 comprising Nos 97A. B. C and D	1 set	

Erector Scrapers

Suitable for large jobs or heavy engineering. Manufactured from chrome vanadium steel

Part No	Overall Length	Blade Length	Cutting Edge	Pack Size
256	335mm (13¼")	210mm (8¼")	Flat	5
6 257	350mm (14")	225mm (9")	Curved	5

Pin Chuck & Replacement Collects

Used for gripping very small drills, mainly on automatic lathes, where pin chuck does not revolve

Part No	Overall Length mm/inches	Description	Pack
9 160	65mm (%=")	Chuck with 3 collets capacity from 0.25-2.5mm(0.01-0.1")	
RP621HRD		Replacement Collet capacity from 0.25-0.75mm(0.01-0.03	3")
RP622MRD		Replacement Collet capacity from 0.75-1.5mm(0.03-0.06")
RP623FRD		Replacement Collet capacity from 1.5-2.5mm(0.06-0.10")	

Pin Vices

Hand held tools designed for holding round materials. Hollow handle enables material greater than the overall length of the pin chuck to be used

	Part No	Capacity Type	mm	inches	Overall Length	Pack Size
	121	Chuck	0-1.0	0-0.04	75mm (3")	10
	122	Chuck	0.75-1.5	0.03-0.062	85mm (311/32")	10
	123	Chuck	1.4-3.1	0.055-0.122	95mm (3¾")	10
	124	Chuck	3.1-5.00	0.122-0.196	105mm (4 ¹ / _{8"})	10
E	120	Set of 1 each	(121 122	123 and 124)	1 set	

120 Set of Leach (121, 122, 123 and 124

Be	Bearing Scrapers					
	Part No	Overall Length	Blade Length	Pack Size		
	2584	180mm (7¼")	100mm (4")	5		
	2586	240mm (9½")	150mm (6")	5		
7	2588	290mm (11½")	200mm (8")	5		
	258	Set of 3 comprising	258/4, 258/6 and 258/8	1 set		

NUTSPINNERS

Nut Spinner - BA						
Part No			Pack Size			
7800	150mm (6")	0 BA	6			
7801	150mm (6")	1 BA	6			
7802	150mm (6")	2 BA	6			
7803	150mm (6")	3 BA	6			
7804	150mm (6")	4 BA	6			
7806	150mm (6")	6 BA	6			



For loosening and securing nuts particularly where spanners cannot reach or are awkward to use. Trilobular handle with tapered neck for ergonomic fit. Dual material handle for comfort in use. Integral moulded finger grips around neck to allow increased torque



For loosening and securing nuts particularly where spanners cannot reach or are awkward to use. Trilobular handle with tapered neck for ergonomic fit. Dual material handle for comfort in use. Integral moulded finger grips around neck to allow increased torque



For loosening and securing nuts particularly where spanners cannot reach or are awkward to use. Ergonomically designed handle. Low slip textured finish for improved grip and torque



SCRIBERS / JEWELLERS SCREWDRIVERS



Engineers' Scribers

Double ended for marking out in confined spaces, e.g. grooves

Part No	Overall Length	Description	Pack Size
1 E222	190mm (7½")	Double Ended	10

Handy Scribers

Double ended with pointed and knife-edge ends. Suitable for marking and scoring most materials including wood, metal, laminates and plastics

Part No	Overall Length	Pack Size
6 76-229R	175mm (7")	5

Pocket Scribers

Available with either hardened steel or tungsten carbide points. Reversible point prevents tearing and snagging of clothing when clipped in a pocket

Part No	Size when closed	Description	Pack Size
2 E220	89mm (3½")	With hardened steel point	10
3 E225	89mm (3½")	With tungsten carbide point	10
220/05	-	Replacement hardened steel point	10
4 225/02	-	Replacement tungsten carbide point	10

Machinists' Scriber

Designed for the machinist. For marking out in confined spaces, particularly on pre-machined workpieces

Part No	Overall Length	Description	Pack Size
5 E227	114mm (4½")	One piece single ended scriber	10

Jewellers' Screwdrivers

Designed to carry out fine, delicate work by toolmakers, jewellers, watch makers, instrument engineers and opticians. Blade sizes match all commonly used slotted screws. 110mm ($4\mathfrak{H}_{6}$ in) overall length when fitted with blade

Part No	Blade Width	Pack Size
	mm in	
777/1	Set of six complete screwdrivers supplied in fitters case	1 set
7 777/2	Pocket set containing one screwdriver body and six interchangeable blades with widths from 0.6mm (0.025in) to 2.5mm (0.100in)	1 set



TOOL BITS / HOLDERS / BORING BARS



Tool Bits

Eclipse H5 tool bits have a 5% cobalt content to give optimum hardness, grindability and cutting performance. Square tool bits can be used in lathes and shaping machines. Round tool bits used in internal boring bars and slotting machines. Tool bits manufactured to ISO5421

H5 Square Part No.	H5 Round Part No.	Dimensions Section	Length	Pack Size
	TE70D/10	4.8mm (¾16")	51mm (2")	10
	5 TE74B/10	4.8mm (⅔₁₀'')	76mm (3")	10
TD109R/10)	6.4mm (¼")	76mm (3")	10
1 TD111M/1	0 TE111C/10	6.4mm (¼")	102mm (4")	10
TD149M/1	0		76mm (3")	10
TD151N/10) TE151D/10	7.9mm (≸⁄₁₅'')	102mm (4")	10
2 TD189N/10) 6 TE189J	9.5mm (%")	76mm (3")	10
TD191W/1	0	9.5mm (%")	102mm (4")	10
3 TD195C/10)	9.5mm (%")	153mm (6")	10
TD271F	TE271E	12.7mm (½")	102mm (4")	5
TD275B/10)	12.7mm (½")	153mm (6")	5
TD311E/10)	15.9mm (%")	102mm (4")	5
TD315M		15.9mm (%")	153mm (6")	5
4 TD351R/10)	19.0mm (¾")	102mm (4")	5
TD355N/10)	19.0mm (¾")	153mm (6")	5

Tool Bit Holders

Eclipse tool bit holders are designed to optimise toolbit performance. Eclipse holders clamp the tool bit securely and rigidly. Supplied complete with an Allen key and one Eclipse H5 tool bit

	Part No.	Capacity mm	in	Shank Size mm	in	Overall Length	Pack Size
	524SL	5-7	³ / ₁₆ - ¹ / ₄	11.1 x 25.4	⅔6 x 1	130mm (5 ¹ / ₈ ")	1
7	534SL	8-10	⁵ /16 - 3/8	15.9 x 31.8	% x 1¼	155mm (6")	1
	544SL	10-12.7	3/8 - 1/2	22.2 x 38	‰ x 1½	230mm (9")	1
8	523S	5-7	³ / ₁₆ - ¹ / ₄	14.3 x 19	⁹ ∕16 x ³ ∕4	125mm (5")	1
	533S	8-10	⁵ ⁄16 - ¾	17.5 x 25.4	¹ / ₁₆ x 1	155mm (6")	1

Holders with the suffix 'SL' are designed for use in American type (slotted pillar) tool posts. Holders with suffix 'S' are of more robust construction and are designed for use on English type lathes with flat tool rests, or 4 way turret tool posts.

Boring Bars

Made from H5 cobalt high speed steel. Shank ground on underside to provide a flat surface for ease of setting and to ensure rigidity when used in a tool post. Ends ground ready for use

	Part No	Diameter	Length	Pack Size
9	TK105B	5mm (‱)	114mm (4½")	10
	TK146C/10	6.5mm (¼")	127mm (5")	10
	TK188P/10	8mm (5/16'')	153mm (6")	10
10	TK230J/10	9.5mm (⅔ ")	178mm (7")	10

Diameters quoted are approximate, actual diameters being slightly more than the nominals quoted. We recommend that tool bits be ground under a copious flow of coolant to prevent build-up of heat.

Tool Bits - in general compliance with British Standard BS 1296 : 4 - Specification for single point cutting tools, ground high speed tool bits.



CUTTING OFF TOOLS / LATHE TOOLS / HOLDERS



Cutting Off Tools - Bevel Section

Bevel section accurately ground with clearance angle at cutting edge

	H5 Square	Width	Top Thickness	Bottom Thickness	Length	Pack Size
1	TH325M	12.70mm (½")	2.4mm (⅔")	1.6mm (1/16")	114mm (4½	[/] ") 10
2	TH466F	15.87mm (%")	2.4mm (½2")	1.6mm (1/16")	127mm (5") 10
3	TH628V/10	19.05mm (¾")	3.2mm (½")	1.6mm (1/16")	153mm (6") 10
4	TH750R	22.23mm (%")	3.2mm (½")	1.6mm (1/16")	178mm (7") 10
5	TH912T	25.40mm (1")	4.8mm (⅔₅")	3.2mm (½")	203mm (8") 5

Cutting Off Tools - Hollow Ground

Hollow ground providing extra side clearance

	Part No	Capacity	Thickness	Length	Pack Size
	TJ123V	7.93mm (≸₁₀'')	1.6mm (1/16")	89mm (3½")	10
8	TJ445T	12.70mm (½")	2.4mm (¾2")	114mm (4½")	10
	TJ465G	12.70mm (½")	3.2mm (½")	114mm (4½")	10
	TJ766J	17.46mm (11/16")	4.0mm (5⁄32")	127mm (5")	5

Cutting Off Tool Holders

693S

633S designed specifically for use on small lathes. The only toolholder in our range suitable for hollow ground cutting off tools. All holders include a clamp designed to ensure that the tools are held securely and rigidly

Part No.	Capacity mm	in	Shank Size mm	in	Base to Underside	Overall Length	
6 633S	8	5/16	8 x 14.2	5∕16 X %16	2.4mm (¾2")	95mm (311/18")	
653S	12.7-16	1/2 - 5/8	12.7 x 25.4	½x 1	3.2mm (1/8")	155mm(6")	
🔽 673S	19-22.2	3/4 - 7/8	16 x 35	%x 1%	4.75mm (¾")	180mm (7")	
693S	25.4-28.5	1-11/8	19 x 43	¾x 1 ¹ ⅓	5.5mm (1/32")	190mm (7½")	
Additional info	mation						
Part No	Pa	rt No. of Sui	table Cutting-Off To	ol		Pack Size	
6 633S	633S TJ123V						
653S	653S TH325M or TH466F						
7 673S	TH	628V or TI	H750R			1	

TH912T

Lathe Tool Sets

Each set contains six H5 tools in a plastic rack. Ends are ground ready for use and bases are ground to ensure correct seating and rigidity. Individual tools in each set are available separately

Part No	Nominal Thickness	Length	Pack Size
9 E420/10	6.5mm (¼")	90mm(3½")	1 set
E430/10	9.5mm $\binom{2}{6}$ ") each set contains 1 of eac Roughing, Finishing, Partii	125mm (5") ch: ng-Off, External Threading, Boring, Iı	1 set nternal Threading



1

TAP WRENCHES & ACCESSORIES





Trammel Heads

Supplied as one pair of heads. Suitable for laying out the distance between two points and scribing arcs and circles. To be used in conjunction with any wood offcut between $\$_4$ " to $1 \$_2$ " wide, minimum thickness of $\$_8$ "

Part No	Suitable for beam sizes	Pack Size
1 33	19 x 38mm (‰" - 1½") Thick, & 38mm (‰") Wide	pair

Standard Bar Type Tap Wrench

Provides a comfortable and positive grip plus the sensitivity required when tapping a blind hole. Knurled locknut ensures a constant grip on the tap when in use

Part No.	Capac mm	ity Square A/F ISO	BA	BSW BSF	UNC	UNF	Length mm	in	Unit of Pack
2 E240	1.5-4.6	M1-M6	14-0	1/8-1/4	0-12	1/4	110/105	41/4	1
3 E241	2.0-7.2	M3-M12	5-0	1/8-1/2	4-12	1/4-1/2	164/156	6¼	1
4 E242	2.5-9.0	M4-M16	3-0	3/16-5/8	8-12	1/4-5/8	230/220	9	1

Chuck Type Tap Wrench

Stepped jaws greatly extend range of taps for each wrench. Adjustable tommy bar for tapping close to a shoulder or other obstructions. Available in normal and long reach designs

Part No	Body Length		W	idth	Pa	ick Size	
5 E141 (Fixed Bar)	50mm (115/16")		57	7mm (2¼")			1
E142	65mm (2 ¹ / ₁₆ ")		90)mm (3½")			1
6 E143	90mm (3%")		12	27mm (5")			1
E145	165mm (6½")		90	90mm (3½")			
7 E146	245mm (10")		12	27mm (5")		1	
Part No.	Jaw Capacities	Squar mm	e A/F ISO	BA	BSW BSF	UNC	UNF
5 E141	Min	1	M1	14	-	1	-
	Max	2.8	M3.5	4	1/8	6	-
E142 & E145	Min	2.0	M1	14	1/8	6	-
	Max	5.0	M6	0	1/4	12	1/4
6 E143 & 7 E146	Min	3.0	M4	3	⅔16	8	1/4
	Max	8.0	M12	0	1/2	12	1/2

Tool Makers' Clamp

Manufactured from case-hardened steel, designed to ensure jaws remain in place

	Part No	Jaw Capacity	Length of Jaw	Jaw Section	Pack Size
8	410	25mm (1")	50mm (2")	8.0mm (5∕₁₀sq in)	1
	411	38mm (1½")	75mm (3")	11.1mm (‰sq in)	1
9	412	63mm (2½")	100mm (4")	14.3mm (%sq in)	1
	413	89mm (3½")	125mm (5")	17.5mm (11/16 sq in)	1

DRILL BITS



SDS PLUS DRILL BITS MASONRY DRILL BITS HSS DRILL BITS HINGE BORING BITS



PREMIUM SDS PLUS HAMMER DRILL BITS

Fast, efficient and accurate

Flute geometry design ensures maximum amount of spoil removal. Multi-carbide tip increases penetration rate, cutting accuracy, and life. Optimum core width and flute geometry provides the perfect balance between speed and strength. Copper brazing between body and tip for ultimate strength.



CUTTING-EDGE 'FAST-FIT' BIT-CHANGE TECHNOLOGY



The widened entry profile of the 'Fast-Fit' Eclipse SDS drive-groove rapidly guides the shank into the locked position. Reduces down-time and minimises chuck wear. Compatible with all SDS/SDS Plus machines Enables drill bit to be easily located in SDS Plus chuck

Ease of location

reduces wear on

machine chuck



Widened entry profile of SDS drive-groove for 'Fast Fix

Significantly faster to load an Eclipse bit compared with a standard SDS Plus

Pack Size

1

1

Metric

Part No	Size Ø x Length	Working Length	Pack Size	Part No	Size Ø x Length	Working Length	Pack Size	Part No	Size Ø x Length	Working Length
EC-SDS040011	4.0 x 110mm	50mm	10	EC-SDS100026	10.0 x 260mm	200mm	10	EC-SDS080060	8.0 x 600mm	550mm
EC-SDS050011	5.0 x 110mm	50mm	10	EC-SDS110026	11.0 x 260mm	200mm	10	EC-SDS100060	10.0 x 600mm	550mm
EC-SDS055011	5.5 x 110mm	50mm	10	EC-SDS120025	12.0 x 250mm	200mm	10	EC-SDS120060	12.0 x 600mm	550mm
EC-SDS060011	6.0 x 110mm	50mm	10	EC-SDS130025	13.0 x 250mm	200mm	10	EC-SDS140060	14.0 x 600mm	550mm
EC-SDS070011	I 7.0 x 110mm	50mm	10	EC-SDS140025	14.0 x 250mm	200mm	10	EC-SDS160060	16.0 x 600mm	550mm
EC-SDS080011	l 8.0 x 110mm	50mm	10					EC-SDS180060	18.0 x 600mm	550mm
EC-SDS100011	I 10.0 x 110mm	50mm	10	EC-SDS150025	15.0 x 250mm	200mm	10	EC-SDS200060	20.0 x 600mm	550mm
				EC-SDS160025	16.0 x 250mm	200mm	10	EC-SDS220060	22.0 x 600mm	550mm
EC-SDS040016	6 4.0 x 160mm	100mm	10	EC-SDS180025	18.0 x 250mm	200mm	10	EC-SDS250060	25.0 x 600mm	550mm
EC-SDS050016	5 5.0 x 160mm	100mm	10	EC-SDS220025	22.0 x 250mm	200mm	10			
EC-SDS055016	5 5.5 x 160mm	100mm	10	EC-SDS240025	24.0 x 250mm	200mm	1	EC-SDS160080	16.0 x 800mm	750mm
EC-SDS060016	6.0 x 160mm	100mm	10	EC-SDS250025	25.0 x 250mm	200mm	1	EC-SDS120100	12.0 x 1000mm	950mm
EC-SDS065016	6.5 x 160mm	100mm	10	EC-SDS260025	26.0 x 250mm	200mm	1	EC-SDS140100	14.0 x 1000mm	950mm
EC-SDS070016	5 7.0 x 160mm	100mm	10	EC-SDS100031	10.0 x 310mm	250mm	10	EC-SDS180100	18.0 x 1000mm	950mm
EC-SDS080016	6 8.0 x 160mm	100mm	10	EC-SDS110031	11.0 x 310mm	250mm	10	EC-SDS200100	20.0 x 1000mm	950mm
EC-SDS090016	5 9.0 x 160mm	100mm	10	EC-SDS120030	12.0 x 300mm	250mm	10	EC-SDS220100	22.0 x 1000mm	950mm
EC-SDS100016	5 10.0 x 160mm	100mm	10	EC-SDS130030	13.0 x 300mm	250mm	10	EC-SDS250100	25.0 x 1000mm	950mm
EC-SDS110016	5 11.0 x 160mm	100mm	10	EC-SDS140030	14.0 x 300mm	250mm	10			
EC-SDS120016	5 12.0 x 160mm	100mm	10	EC-SDS160030	16.0 x 300mm	250mm	10			
EC-SDS130015	• 13.0 x 150mm	100mm	10	EC-SDS180030	18.0 x 300mm	250mm	10			-
EC-SDS140015	5 14.0 x 150mm	100mm	10	EC-SDS200030	20.0 x 300mm	250mm	10			
EC-SDS150015	5 15.0 x 150mm	100mm	10		2010 X 0001111	2001111				
EC-SDS160015	• 16.0 x 150mm	100mm	10	EC-SDS100036	10.0 x 360mm	300mm	10			E CI IN
EC-SDS050021	I 5.0 x 210mm	150mm	10	EC-SDS060045	6.0 x 450mm	400mm	1			13 10
EC-SDS055021	I 5.5 x 210mm	150mm	10	EC-SDS080045	8.0 x 450mm	400mm	1			L'ALL
EC-SDS060021	l 6.0 x 210mm	150mm	10	EC-SDS100045	10.0 x 450mm	400mm	1			
EC-SDS065021	6.5 x 210mm	150mm	10	EC-SDS120045	12.0 x 450mm	400mm	1			2) *
EC-SDS070021	I 7.0 x 210mm	150mm	10	EC-SDS130045	13.0 x 450mm	400mm	1			
EC-SDS080021	l 8.0 x 210mm	150mm	10	EC-SDS140045	14.0 x 450mm	400mm	1			
EC-SDS090021	I 9.0 x 210mm	150mm	10	EC-SDS150045	15.0 x 450mm	400mm	1			
EC-SDS100021	l 10.0 x 210mm	150mm	10	EC-SDS160045	16.0 x 450mm	400mm	1		12	
EC-SDS120021	l 12.0 x 210mm	150mm	10	EC-SDS180045	18.0 x 450mm	400mm	1			
EC-SDS140020) 14.0 x 200mm	150mm	10	EC-SDS200045	20.0 x 450mm	400mm	1		9	
EC-SDS160020) 16.0 x 200mm	150mm	10	EC-SDS220045	22.0 x 450mm	400mm	1	8		
EC-SDS180020	18.0 x 200mm	150mm	10	EC-SDS240045	24.0 x 450mm	400mm	1			
EC-SDS200020	20.0 x 200mm	150mm	10	EC-SDS250045	25.0 x 450mm	400mm	1			
EC-SDS055026	5 5 x 260mm	200mm	10	EC-SDS260045	26.0 x 450mm	400mm	1	Jan 19		
EC-SDS060026	6 0 x 260mm	200mm	10	EC-SDS280045	28.0 x 450mm	400mm	1	50		
EC-SDS065025	6 5 x 250mm	200mm	10	EC-SDS300045	30.0 x 450mm	400mm	1			
EC-SDS080026	8 0 x 260mm	200mm	10							
20-0000020	0.0 x 2001111	20011111	10							

PREMIUM SDS PLUS HAMMER DRILL BITS

Imperial

Part No	Size Ø x Length	Working Length	Pack Size	Part No	Size Ø x Length	Working Length	Pack Size	Part No	Size Ø x Length	Working Length	Pack Size
EC 606021604	2/16 v /"	0"	10		2/16 y 0"	C"	10	EC 606024012	2/4 x 10"	10"	10
EC-3D3031004	3/10 X 4	2	10	EC-3D3031008	3/10 x 0	0	10	EC-3D3034012	3/4 X 12	10	10
EC-SDS014004	1/4 X 4"	2	10	EC-SDS073208	7/32 X 8"	0	10	EC-SDS078012	7/8 X 12"	10	10
EC-SDS093294	9/32 x 4"	2"	10	EC-SDS014008	1/4 x 8"	6"	10	EC-SDS100012	1x12"	10"	1
EC-SDS051604	5/16 x 4"	2"	10	EC-SDS051608	5/16 x 8"	6"	10	EC-SDS038018	3/8 x 18"	16"	1
				EC-SDS038008	3/8 x 8"	6"	10	EC-SDS012018	1/2 x 18"	16"	1
EC-SDS031606	3/16 x 6"	4"	10	EC-SDS058008	5/8 x 8"	6"	10	EC-SDS091618	9/16 x 18"	16"	1
EC-SDS073206	7/32 x 6"	4"	10	EC-SDS034008	3/4 x 8"	6"	10	EC-SDS058018	5/8 x 18"	16"	1
EC-SDS014006	1/4 x 6"	4"	10	20-020004000	5/4 X 0	0	10	EC-SDS034018	3/4 x 18"	16"	1
EC-SDS093206	9/32 x 6"	4"	10	EC-SDS012010	1/2 x 10"	8"	10	EC-3D3034018	3/4 X 10	10	
EC-SDS051606	5/16 x 6"	4"	10	EC-SDS058010	5/8 x 10"	8"	10	EC-SDS078018	7/8 X 18"	10	1
EC 6D6029006	2/0 v 6"	4"	10	20 02000010	0/0 X 10	0	10	EC-SDS100018	1 x 18"	16"	1
EC-3D3030000	3/0 X U	4	10	EC-SDS073212	7/32 x 12"	10"	10		5/0 0.4	0.01	
EC-SDS071606	7/16 X 6"	4	10	EC-SDS051612	5/16 x 12"	10"	10	EC-SDS058024	5/8 x 24"	22"	1
EC-SDS012006	1/2 x 6"	4"	10	20-303031012	J/10 X 12	10	10		4 9.4%	0.01	
EC-SDS091606	9/16 x 6"	4"	10	EC-SDS0/1612	7/16 X 12"	10"	10	EC-SDS100024	1x 24"	22"	1
EC-SDS058006	5/8 x 6"	4"	10	EC-SDS012012	1/2 x 12"	10"	10				
EC-SDS034006	3/4 x 6"	4"	10	EC-SDS058012	5/8 x 12"	10"	10				

Non-standard sizes are available subject to lead-time, minimum order quantity and pricing agreement.

MASONRY DRILL BITS

Fast, efficient and accurate

Straight shank bits for use in percussion drilling in concrete, brick, stonework and cement.



Metric							
Part No	Size Ø x Length	Working Length	Pack Size	Part No	Size Ø x Length	Working Length	Pack Size
EMD30X60	3 x 60mm	30mm	1	EMD70X200	7 x 200mm	112mm	1
EMD35X70	3.5 x 70mm	40mm	1	EMD80X200	8 x 200mm	112mm	1
	4 70	50		EMD10X200 EMD12X200	10 x 200mm	112mm 112mm	1
EMD40X70	4 x 70mm	50mm	1	ENID IZAZOO	12 X 20011111	11211111	<u> </u>
EMD45X/5	4.5 X / 5MM	50mm	1	EMD60X400	6 x 400mm	350mm	1
EMDSUX65	D X 0011111	5011111	1	EMD80X400	8 x 400mm	350mm	1
EMD55X85	5.5 x 85mm	60mm	1	EMD10X400	10 x 400mm	350mm	1
EMD60X100	6 x 100mm	60mm	1	EMD12X400	12 x 400mm	350mm	1
EMD65X100	6.5 x 100mm	60mm	1	EMD14X400	14 x 400mm	350mm	1
				EMD16X400	16 x 400mm	350mm	1
EMD70X100	7 x 100mm	80mm	1	EMD18X400	18 x 400mm	350mm	1
EMD80X120	8 x 120mm	80mm	1	EMD20X400	20 x 400mm	350mm	1
EMD90X120	9 x 120mm	80mm	1	EMD22X400	22 x 400mm	350mm	1
EMD10X120	10 x 120mm	90mm	1	EMD25X400	25 x 400mm	350mm	1
EMD11X150	11 x 150mm	90mm	1	EMD60X600	6 x 600mm	550mm	1
EMD12X150	12 x 150mm	90mm	1	EMD80X600	8 x 600mm	550mm	1
EMD13X150	13 x 150mm	90mm	1	EMD10X600	10 x 600mm	550mm	1
EMD14X140	14 x 140mm	90mm	1	EMD12X600	12 x 600mm	550mm	1
EMD15X160	15 x 160mm	90mm	1	EMD14X600	14 x 600mm	550mm	1
EMD16X150	16 x 150mm	100mm	1	EMD16X600	16 x 600mm	550mm	1
EMD18X150	18 x 150mm	100mm	1	EMD18X600	18 x 600mm	550mm	1
EMD20X160	20 x 160mm	100mm	1	EMD20X600	20 x 600mm	550mm	1
EMD22X160	22 x 160mm	100mm	1	EMD22X600	22 x 600mm	550mm	1
EMD25X160	25 x 160mm	100mm	1	EMD25X600	25 x 600mm	550mm	1
EMD50X200	5 x 200mm	112mm	1				
EMD55X200	5.5 x 200mm	112mm	1				
EMD60X200	6 x 200mm	112mm	1				
EMD65X200	6.5 x 200mm	112mm	1				

ECLIPSE PROFESSIONAL TOOLS

HSS DRILL BITS

Fast, efficient and accurate

Manufactured to DIN 338 standards with an 118 degree point angle that is suitable for drilling into a wide range of materials, including steel, cast iron, copper, brass, iron and plastic. Flute geometry designed for rapid removal of the drilled material.



Metric

Part No	Size Ø x Length	Pack Size	Part No	Size Ø x Length	Pack Size
EHSS10	1.00mm	1 tube of 10	EHSS85	8.50mm	1 tube of 5
EHSS15	1.50mm	1 tube of 10	EHSS90	9.00mm	1 tube of 5
EHSS20	2.00mm	1 tube of 10	EHSS95	9.50mm	1 tube of 5
EHSS21	2.10mm	1 tube of 10	EHSS100	10.00mm	1 tube of 5
EHSS22	2.20mm	1 tube of 10	EHSS105	10.50mm	1 tube of 5
EHSS25	2.50mm	1 tube of 10	EHSS110	11.00mm	1 tube of 5
EHSS30	3.00mm	1 tube of 10	EHSS115	11.50mm	1 tube of 5
EHSS31	3.10mm	1 tube of 10	EHSS120	12.00mm	1 tube of 5
EHSS32	3.20mm	1 tube of 10	EHSS125	12.50mm	1 tube of 5
EHSS35	3.50mm	1 tube of 10	EHSS130	13.00mm	1 tube of 5
EHSS40	4.00mm	1 tube of 10			
EHSS41	4.10mm	1 tube of 10	EHSS6PC	HSS Drill Bits Set - 6pc	1
EHSS42	4.20mm	1 tube of 10		Contains: 2, 3, 4, 5 ,6, 8mm -	PVC Wallet
EHSS43	4.30mm	1 tube of 10	EHSS19PC	HSS Drill Bits Set - 19nc	1
EHSS45	4.50mm	1 tube of 10		Contains: 1 1 5 2 2 5 3 3 5	4 4 5 5 5 5
EHSS50	5.00mm	1 tube of 10		6 6 5 7 7 5 8 8 5 9 9 5 10)mm - Metal Case
EHSS55	5.50mm	1 tube of 10		0, 0.0, 7, 7.0, 0, 0.0, 0, 0, 0, 0, 10	
EHSS60	6.00mm	1 tube of 10	EHSS25PC	HSS Drill Bits Set - 25pc	1
EHSS65	6.50mm	1 tube of 10		Contains: 1, 1.5, 2, 2.5, 3, 3.5,	, 4, 4.5, 5, 5.5
EHSS70	7.00mm	1 tube of 10		6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10), 10.5, 11,
EHSS75	7.50mm	1 tube of 10		11.5, 12, 12.5, 13mm - Metal	Case
EHSS80	8.00mm	1 tube of 5			

Max RPM 1800 1800

HINGE BORING BITS

For boring out holes when making hinges (not to be used in plane routing machines). High Speed steel for hard and soft woods. Tungsten carbide models for harder man-made boards

Hinge Boring Bits

Part No	Size mm	Material
1235	35	High Speed Steel
1335	35	Tungsten Carbide







UTILITY KNIVES & BLADES TAPE MEASURES



UTILITY KNIVES & BLADES

Standard Trimming Knife

Standard retractable utility knife with a zinc alloy body. Supplied with one blade



Heavy Duty Trimming Knife

Heavy duty retractable utility knife designed to fit the hand and maintain a strong grip. Ideal for cutting tough materials such as carpets, roofing felt and vinyl. Hinged body assists quick blade change. Supplied with one blade





Utility Blades

1702BP

1702R 1603BC

Supplied in handy dispensers which allow easy access to one blade at a time and minimises contact with the blade

Part No Description

Description	Qty
Straight	100
Straight	10
Hooked (no dispenser cellophaned in	100
bundles of 10)	

Pack

TAPE MEASURES

Tape Measures

Auto lock system. Magnetic hook & pause button. Blades with both metric and imperial graduations or just metric. Belt clip and wrist band. Ergonomic soft feel grip





ECLIPSE PROFESSIONAL TOOLS

MAGNETIC SOLUTIONS

PERMANENT MAGNETS ELECTRO-MAGNETS MAGNETIC TOOLS



ECLIPSE

PERMANENT MAGNETS - MAGNET MATERIALS

ALNICO

AlNiCo

- Alnico 5 magnet material (unless stated)
- 550°C max. operating temp.
- Magnetically stable at high temperatures
- Good corrosion resistance

Cylind	rical E	Bar Ma	agnets			Rect	Rectangular Bar Magnets							
Part No	Diameter mm	Length* mm	Weight per pair (kg)	Gauss	Pack Qty (Pair)	Part No	Material	Width mm	Height mm	Length* mm	Weig per p (kg)			
E808**	4	10	0.002	1200	5	E842	Alnico 2	15	10	50	0.22			
E809**	5	10	0.003	1200	5	E843	Alnico 2	15	10	75	0.33			
E810**	6	10	0.004	1200	5	E844	Alnico 5	10	5	20	0.03			
E805	6	20	0.008	1200	10	E845	Alnico 5	12.5	5	40	0.04			
E806	8	25	0.018	1200	5	E846	Alnico 5	15	5	60	0.13			
E807	10	30	0.035	1200	5									
* Magnetic axis	** Supplied	natural				* Magnetic	axis							

* Magnetic axis ** Supplied natural



Sold in pairs



Sold in pairs. North pole is indicated by a notch / dimple

Pack Qty (Pair)

2

2

5

5

5

Gauss

750

750

1100

1100

1100

Weight

per pair (kg)

0.220

0.330

0.030

0.040

0.130

Mino	r Ma	gnet						Butte	Button Magnets						Pock	Pocket Magnets							
Part No	Width mm	Height mm	Length mm	Pole Gap	Weight (kg)	Max Pull (kg)	Pack Qty	Part No	Dia. mm	Height mm	Slot Size Min - Max mm	Hole Size	Weight (kg)	Max Pull (kg)	Pack Qty	Part No	Length mm	Width mm	Height mm	Width of Gap	Weight (kg)	Max Pull (kg)	Pack Qty
E801	7.9	11.1	22.2	6.3	0.01	0.9	10	E821	12.7	9.5	4.0 - 7.2	4.4	0.006	0.7	10	E802	28.5	7.6	25.4	6.3	0.030	2.4	10
								E822	19.1	12.7	5.6 - 8.7	4.8	0.020	1.9	10	E803	33.3	15.9	35	7.9	0.090	4	5
								E825	22.2	19.1	6.3 - 6.3	4.8	0.050	3	10								
								E823	25.4	15.9	5.6 - 8.7	4.8	0.050	3.4	10								
								E824	31.8	25.4	8.0 - 12.7	7.1	0.113	4.8	2								







Pole Gap mm

111 27.3

Weight (kg)

2.9

Flux density at

gap centre* Wb/m² - Gauss

0.210 - 2000

Pack Qty

1

Length Width Height mm mm mm

Pow	er Mag	nets								Majo	or Ma	agn	et
Part No	Length mm	Height mm	Width mm	Width of Gap mm	Hole Size mm	Hole Centres mm	Weight (kg)	Pull Force (kg)	Pack Qty	Part No	Length mm	Width mm	Hei mn
811	30	20	20	15	5	N/A	0.060	4.5	5	862	103.5	50	11
812	40	25	25	20	5	N/A	0.120	9	5				
813	45	30	30	23	5	N/A	0.180	11.8	2	* at room te	mperature	and press	sure
814	57	35	44.5	27.8	2 x 7.9	31.75	0.370	23.5	1				
815	70	41.3	57.2	34.1	2 x 7.9	38.10	0.710	37	1				
816	79.4	54	82.6	38.1	2 x 9.5	42.86	1.450	47	1				
817	60.3	39.7	62	31.75	N/A	N/A	0.80	35	1				
818	79.4	54	85.7	47.6	N/A	N/A	1.80	60	1			COLUMN STATE	









ECLIPSE PROFESSIONAL TOOLS

PERMANENT MAGNETS - MAGNET MATERIALS

NEODYMIUM

NdFeB

- Neodymium iron boron 'rare earth' material
- Strongest magnet material available
- 80°C max. operating temp.
- High resistance to de-magnetisation
- Anisotropic
- N35 Grade



Button M	agnets				
Part No	Dia. mm	Height* mm	Weight (kg)	Pull Force (kg)	Pack Qty
E800	3	2	0.0001	0.3	10
E801	4	2	0.0002	0.4	10
E802	4	3	0.0003	0.7	10
E803	4	4	0.0004	0.9	10
E804	5	2	0.0003	0.55	10
E805	5	3	0.0004	0.85	10
E806	5	5	0.0007	1.3	10
E807	6	3	0.0006	1.0	10
E808	6	4	0.0008	1.3	10
E809	8	4	0.0015	1.7	10
E810	8	5	0.0017	2.12	10
E811	9	3	0.0014	1.6	10
E812	10	3	0.0018	1.65	10
E813	10	5	0.0029	2.7	10
E814	15	3	0.0040	2.5	3
E815	20	3	0.0071	3.3	3
E816	20	10	0.0236	10.5	1

Ring M	agnets						Block I	Block Magnets							
Part No	Dia. mm	Height* mm	Hole	Screw Head	Weight (kg)	Pull Force (kg)	Pack Qty	Part No	Length mm	Width mm	Height* mm	Weight (kg)	Pull Force (kg)	Pack Qty	
N822	20	10	6 Csk	M6	0.0214	4.7	1	E817	25	10	3	0.0056	4.7	4	
E823	37	3.5	6 Csk	M6	0.0275	4.9	1	E818	25	10	5	0.0094	4.9	4	
* Magnetic axis								E819	35	10	5	0.0131	5.8	1	
								E820	50	20	3	0.0225	5.8	1	
								E821	50	50	12.5	0.2438	40.1	1	

* Magnetic axis

Countersunk hole





FERRITE

• 250°C max. operating temp.

 Isotropic – multi-pole magnetised on one face

Disc Magnets

Part No	Length mm	Height* mm	Weight (kg)	Pull Force (kg)	Pack Qty
CM700-R	14	5	0.0038	0.123	10
CM701-R	20	5	0.0079	0.175	10
CM702-R	30	5	0.0177	0.262	10



30

Deep Pot Magnets - Threaded

Thread

Height

M6



PERMANENT MAGNETS - POT MAGNETS

ALNICO

AlNiCo

Standard products indicated

Customed designs available subject to quantity

Please contact our sales office

Shal	low	Pot N	Лаgr	nets				Deep Pot Magnets							
Part No	Dia. mm	Height	Hole Size (Csk)	Screw Head Size	Weight Kg	Pull Force Kg	Pack Qty	Part No	Dia. mm	Height	Thread Size	Weight Kg	Pull Force Kg	Pack Qty	
826	19	7.5	4.5	M3 Csk	0.010	3.0	10	829	9.5	15	M3	0.005	1	10	
827	28.5	8.5	5.2	M4 Csk	0.030	5.0	10	830	12.7	15.9	M4	0.015	2	10	
828	38.1	10.35	5.2	M4 Csk	0.080	13.0	5	831	17.5	16	M6	0.023	2.65	10	
								832	20.5	19	M6	0.040	4	5	
								833	27	25	M6	0.085	6.1	5	

834

35

Dia



Pull

Painted Red

Pull

Weight

14.75

0.184

2

Dee	Deep Pot Magnets													
Part No	Dia. mm	Height mm	Weight (kg)	Pull Force (kg)	Pack Qty									
E790	6	20	0.004	0.2	20									
E791	8	20	0.007	0.4	20									
E792	10	20	0.011	0.8	20									
E793	13	20	0.019	1.0	20									
E794	16	20	0.029	1.8	10									
E795	20	25	0.057	4.2	5									
E796	25	35	0.140	8.0	2									

Max. operating temperature 220° Mild Steel pot Brass spacer Zinc plated body



NEODYMIUM

Standard products indicated

Customed designs available

Please contact our sales office

subject to quantity

N35 Grade

NdFeB



Mild Steel pot Brass spacer Zinc plated body

> Pull Weight (kg)

Force (kg)

0.0027 0.5

0.0045 2.5

0.0132 9.5

0.0165 14

0.034 20 Pack

Qty

20

20

20

10

10

5

Max. operating temperature 220° Mild Steel pot Brass spacer Zinc plated body Diameter ground to H6 tolerance

Shallow Pot Magnets

Deep Pot Magnets - H6

Height

Weight

Dia.

onanon		magin			
Part No	Dia. mm	Height mm	Weight (kg)	Pull Force (kg)	Pack Qty
E760NEO	6	4.5	0.001	0.5	20
E761NEO	8	4.5	0.0018	1.3	20
E762NEO	10	4.5	0.0025	2.5	20
E763NEO	13	4.5	0.0045	6	20
E764NEO	16	4.5	0.0055	9.5	20
E765NEO	20	6	0.015	14	10
E766NEO	25	7	0.031	20	10
E767NEO	32	7	0.04	35	10





Shallow Pot Magnets - Threaded

Height

13

15.5 M5

Thread

Size

M4

M4

M4

Outer Dia.

6

6 0.0035 1.3 20

6

6 0 0075 6 20

8

8

8

10 0.048 35

Pot

Height mm

Dia

mm

6 4.5 11.5 M3

8 4.5 11.5 M3

10 4.5 11.5 M3

13 4.5 11.5 M3

16 4.5 11.5

20 6

25

32 7

7 14

Part No

E770NEO

E771NEO

E772NEO

E773NEO

E774NEO

E775NEO

E776NEO

E777NEO

Threaded Hole Zinc plated body



PERMANENT MAGNETS - POT MAGNETS

Hook N	lagne	ets					Deep Pot Bi-Pole Magnets					Deep P	ot Bi-F	ole M	agnet	S			
Part No	Dia. mm	Pot Height mm	Total Height	Weight (kg)	Pull Force (kg)	Pack Qty	Part No	Dia. mm	Height mm	Thread Size mm	Weight (kg)	Pull Force (kg)	Pack Qty	Part No	Dia. mm	Height mm	Weight (kg)	Pull Force (kg)	Pack Qty
M19863XR	32	7	38	0.051	35	1	NH025	12.7	12	M5	0.01	2.5	10	E750NEO	6	20	0.004	1.0	20
							NH065	16	16	M6	0.018	8.0	10	E751NEO	8	20	0.007	2.5	20
							NH130	22.2	20	M6	0.04	16.0	5	E752NEO	10	20	0.011	4.5	20
							NH240	25.4	25	M6	0.07	25.0	5	E753NEO	13	20	0.019	7.0	20
				-										E754NEO	16	20	0.029	15.0	10
				-										E755NEO	20	25	0.057	28.0	5
			1			1								E756NEO	25	35	0.128	45.0	2
					1					1				E757NEO	32	40	0.228	70.0	2
	l white Pg100 fective)		ANE OF	and a		Al Mild stee Ti	uminium I pole pie Painted I nreaded I	pot ces plue nole			Diam	eter groun	Br d to H6 to	rass pot lerance					

SAMARI	JM
COBALT	SmCo

Shallow Pot Magnets

Part No E760

E761

E762

E763

E764

E765

E766

E767

Dia. mm

6

8

10

13 16

20

25

32

Height mm

4.5

4.5

4.5

4.5 4.5

6

7

7

Standard products indicated

Customed designs available subject to quantity

Please contact our sales office

		Milds	Aluminium pot steel pole pieces Painted blue Threaded hole			C
Shallow	Pot Mag	gnets - T	hreaded	Hole		
Part No	Dia. mm	Height Body mm	Height Inc Thread mm	Thread Size	Ferrule Outer Dia. mm	Weight (kg)
E770	6	4.5	11.5	M3	6	0.0027

Pull Force (kg) Pack Qty E7 0.5 20 27 E771 M3 0.0035 20 8 4.5 11.5 6 1.1 E772 10 4.5 11.5 М3 6 0.0045 2.0 20 E773 4.5 11.5 М3 6 0.0075 4.0 20 13 E774 16 4.5 11.5 M4 8 0.009 6.0 20 E775 20 6 13 M4 8 0.0165 9.0 10 E776 25 7 14 M4 8 0.033 15.0 10 E777 15.5 M5 10 0.048 22.0 32 7 5

Max. operating temperature 200° Mild Steel pot Zinc plated body . Threaded Hole

Pack Qty

20

20

20

20

20

10

10

10



Deep Pot Magnets - H6

Part No	Dia. mm	Height mm	Weight (kg)	Pull Force (kg)	Pack Qty
E750	6	20	0.004	0.8	20
E751	8	20	0.007	2.2	20
E752	10	20	0.011	4.0	20
E753	13	20	0.019	6.0	20
E754	16	20	0.029	12.5	10
E755	20	25	0.057	23.0	5
E756	25	35	0.128	40.0	2
E757	32	40	0.228	60.0	2



Max. operating temperature 200° Brass pot Diameter ground to H6 tolerance

Max. operating temperature 200° . Mild Steel pot Zinc plated body

Pull Force (kg)

0.5

1.1

2.0

4.0

6.0

9.0

15.0

22.0

Weight (kg)

0.001

0.0015

0.0025

0.0045

0.0065

0.015

0.022

0.04



PERMANENT MAGNETS - POT MAGNETS

FERRITE

Shallow Pot Magnets - Countersunk Mounting

Part No	Dia. mm	Height mm	Hole Size mm	Screw Head	Weight (kg)	Pull Force (kg)	Pack Qty
E887	20	6	4.2	M4	0.09	2.7	10
E876	25	7	5.5	M5	0.016	3.6	10
E877	32	7	5.5	M5	0.027	7.2	10
E878	40	8	5.5	M5	0.053	9.0	5

Standard products indicated

Customed designs available subject to quantity

Please contact our sales office

Max. operating temperature 120° Mild Steel pot Zinc plated body

Countersunk mounting



Shallow	Pot Ma	agnets					Shallov	Shallow Pot Magnets - Male Thread							
Part No	Dia. mm	Height mm	Hole in Body mm	Hole in Magnet mm	Weight (kg)	Pull Force (kg)	Pack Qty	Part No	Dia. mm	Pot Height mm	Overall Height mm	Thread	Weight (kg)	Pull Force (kg)	Pack Qty
E888 E889	50 80	10 18	8.5 6.5	22 16	0.009 0.48	18 54	5 1	E720 E723	22 32	7 7	17 22	M5 M5	0.020 0.032	3.5 8.0	5 5

Max. operating temperature 120° Mild Steel pot Zinc plated body



Max. operating temperature 120° Mild Steel pot Male Thread



Shallow F	Pot Magne	ts				Hook Magnets							
Part No	Dia. mm	Height mm	Weight (kg)	Pull Force (kg)	Pack Qty	Part No	Dia. mm	Pot Height mm	Total Height mm	Thread Size	Weight (kg)	Pull Force (kg)	Paci Qt
E700	10	4.5	0.002	0.4	20	E879-RB	25	8	34	M4	0.027	4.0	1
E701	13	4.5	0.003	1.0	20	E880-RB	32	8	34	M4	0.034	8.0	1
E702	16	4.5	0.0045	1.8	20	E881-RB	36	8	34	M4	0.038	10.0	1
E703	20	6	0.010	3.0	10								
E704	25	7	0.019	4.0	10								
E705	32	7	0.030	8.0	10			-					
E706	40	8	0.055	12.5	5								
E707	50	10	0.100	22.0	5		11						
E708	63	14	0.230	35.0	1				12				
E709	80	18	0.485	60.0	1							(
Max. operatii	ng temperature 12	0°					1 1			1			

Mild Steel pot Zinc plated body



Max. operating temperature 120° Mild Steel pot. Painted white See also neodymium hook magnets pg99 (35kg pull)



PERMANENT MAGNETS - POT MAGNETS

Shallow Pot Magnets - Threaded Hole

Part No	Dia. mm	Pot Height mm	Total Height mm	Thread Size	Weight (kg)	Pull Force (kg)	Pac Qt
E860	10	4.5	11	M3	0.003	0.4	2
E861	13	4.5	11.5	M3	0.005	1.0	2
E862	16	4.5	11.5	M3	0.006	1.8	2
E863	20	6	13	M3	0.011	3.0	10
E864	25	7	15	M4	0.022	4.0	10
E865	32	7	15	M4	0.032	8.0	;
E866	36	8	16	M4	0.045	10.0	;
E867	40	8	18	M5	0.060	12.5	!
E868	47	9	17	M4	0.090	18.0	
E869	50	10	22	M6	0.110	22.0	
E870	57	10.5	18.5	M4	0.145	28.0	
E871	63	14	30	M8	0.240	35.0	
E872	80	18	34	M10	0.520	60.0	
E873	90	20	40	M10	0.820	70.0	
E874	100	22	42	M12	0.940	90.0	
E875	125	26	50	M14	1.720	130.0	

Max. operating temperature 120° Mild steel pot Zinc plated Female thread



Shallow	Pot Ma	agnets	- Threa	ded Hole		Shallow Pot Magnets							
Part No	Dia. mm	Height mm	Thread	Weight (kg)	Pull Force (kg)	Pack Qty	Part No	Dia. mm	Height mm	Thread	Weight (kg)	Pull Force (kg)	Pack Qty
E780	50	10	M8	0.16	15	1	E890	46	10.7	M6	0.090	6	5
E781	80	18	M10	0.56	55	1	E891	56	10.7	M6	0.130	16	5
							E892	66	10.7	M6	0.190	25	5

Max. operating temperature 120° Mild steel pot Painted red Threaded hole



Max. operating temperature 120° Mild steel pot with removeable hook Painted red



Shallow Pot Magnets - M6 Tapped Holes

Part No	Dia. mm	Height mm	Fixing Stud Centres PCD M6	Centre Fixing Point	Weight (kg)	Pull Force (kg)	Pack Qty
E895	66	10.7	46mm - 3 Holes	M6	0.270	25	1
E896	76	12.5	46mm - 3 Holes	M6	0.300	33	1
E897	100	15.5	70mm - 3 Holes	M6	0.610	55	1

Max. operating temperature 120° Mild steel pot with removeable hook Painted red

Three M6 tapped holes to aid mounting products





Channel Magnets

Part No	Length mm	Width mm	Height mm	Plain Fixing Holes mm	Hole Centres mm	Weight each (kg)	Pull Force (kg)	Pack Qty
E898/1	115	30	13mm	4.2	80	0.25	8	5
E898/2	130	30	13mm	4.2	90	0.30	14	5
E899	190	43	13mm	4.2	110	0.55	48	2

Max. operating temperature 120° Mild steel pot

Painted red





Two-pole connector

ELECTRO MAGNETS

Electro Magnets - Energised to hold

Energise to hold



Electric current required to turn the magnet ON

Sturdy nickel plated cylinder, passivated with body mounting High-quality permeable iron for low remanence Armature plates to suit

Operating voltage Connector options Mountings Finish ED rating IP rating 12VDC, 24VDC & 240VAC (with rectified plug connector) Flying leads, two-pole connector and Hirschman connector Threaded holes in magnet rear face Bright nickel plated with machined face 100% 54 (20 for the two-pole connector)

Standard Operating Voltage



Air Gap mm

	240vac		24vdc		12vdc		0	0.09	0.18	0.27	0.36	0.59	1.00	1.59	2.00
Diameter	Part No.	Current	Part No.	Current	Part No.	Current					Pull Force				
25			M52172/24VDC	90	M52172/12VDC	180	113	34	19	11	7	4	2	-	-
30			M52173/24VDC	140	M52173/12VDC	280	253	94	50	32	21	11	5	3	2
40			M52174/24VDC	230	M52174/12VDC	440	575	289	153	97	59	32	15	8	4
50	M52175/240VA	40	M52175/24VDC	240	M52175/12VDC	470	1097	639	403	268	190	100	48	24	10
65	M52176/240VA	50	M52176/24VDC	340	M52176/12VDC	690	1677	949	554	347	237	129	64	31	15

25, 30mm diameter Free leads (500mm long)



40, 50, 65mm diameter, 12VDC & 24VDC Two pole connector



50, 65mm diameter 240VAC Hirschman connector



Part No. Dimensions										Current
12v and 24v units	D	L	W	Α	В	С	D1	D2		g
M52172/	25	20	-	-	-	-	M4	M3	15	66
M52173/	30	24	-	-	-	-	M5	M3	18	108
M52174/	40	27	-	16	13	19	M5	M4	26	210
M52175/	50	30	-	16	13	19	M5	M4	34	364
M52176/	65	35	-	16	13	19	M8	M5	40	710
240v units										
M52175/240VA	50	30	98	-	50	30	M5	M4	34	408
M52176/240VA	65	35	111	-	50	30	M8	M5	40	744

Α

D1

D2

ELECTRO MAGNETS

Electro Magnets - Energised to release

Energise to release



Electric current required to turn the magnet OFF

Sturdy nickel plated cylinder, passivated with body mounting. High-quality permeable iron for low remanence. Armature plates to suit

Operating voltage24VDC & 240VAC (with rectified plug connector)Connector optionsHirschman connectorMountingsCentral machined hole in rear face of magnetFinishBright nickel plated with machined faceIP rating54Duty Cycle52



Air Gap mm

Standard Operating Voltage

	240vac	-	24vdc		0	0.09	0.18	0.27	0.36	0.59	1.00	1.59
Diameter	Part No.	Current	Part No.	Current				Pull	Force			
35	M52177/240VA	50	M52177/24VDC	240	285	98	54	37	31	17	-	-
50	M52178/240VA	40	M52178/24VDC	350	471	398	264	190	131	112	54	32



			Dir	mensions			Weight
Part No.	D	L	В	W	Connector	D1	(g)
M52177/24VDC M52178/24VDC M52177/240VA	35 50 35	48 63 48	50 50 50	78 94 81	Hirschman Style Hirschman Style Hirschman	M5 M5 M5	352 874 354
M52178/240VA	50	63	50	97	Hirschman	M5	880

Armature Plates

Part No	Dia. mm	Height mm	Screw	To suit unit dia. mm	Weight (g)
M52171/25ARM	25	3	M3	25	15
M52171/30ARM	30	4	M4	25	30
M52171/40ARM	40	5	M4	30 or 35	50
M52171/50ARM	50	6	M4	40	100
M52171/65ARM	65	8	M5	50	210
M52171/80ARM	80	10	M6	65	400



To fit both types Supplied with screw We recommend you use armature plates that are the same diameter as the magnet or larger

ECLIPS

MAGNETIC SOLUTIONS

MAGNETIC TOOLS (GENERAL)

Pull

5



Constructed from a ferrite magnet sandwiched between two steel plates

Designed for recovery or retrieval applications such as retrieving objects from coolant tanks and vats

Magnetic Tool Mat



3 strong ceramic magnets encapsulated in a tough **PVC** casing

Widely used in production areas for keeping tools and parts within easy reach Magnetic both sides



Contains 2 x 350mm powerful magnet bars with extruded magnetic rubber lengths, housed between two pole pieces

Neatly secures and holds tools in the garage or workshop and knives in the kitchen



Magnet in base attaches the tray firmly to ferrous surfaces and holds ferrous items in the tray Magnet base is rubber coated to safeguard surfaces

Pull Force (kg)

0.5

Weigh (kg)

0.11

Flexible Pick-up Tool

450

E600

Telescopic Pick-up Tool





Powerful neodymium iron boron magnets are used to ensure maximum pull from a small magnetic area Ideal for retrieving ferrous objects that are out of reach Pen-sized with clip



6

Semi-rigid, bendable pick-up tool, ideal for retrieving difficult to reach objects.

Magnetic Sweeper



Adjustable telescopic handle

Quickly and easily clear workshop and factory floors, sports pitches and car parks of spilt items or potentially damaging and dangerous metal debris such as nails, pins, staples and metal fragments Handle mounted quick release mechanism

Magnetic Swarf Wand



Separate small parts after rumbling

Quick release handle

Lightweight, non-rusting shaft

Quickly and safely pick-up iron and steel offcuts, filings, chips, swarf and small components

Magnetic Sheet Floaters

Part No	Width mm	Height mm	Depth mm	Mounting Hole Size	Weight per pair (kg)
E913	73	76	65	M8	1.40
E914	92	102	76	M8	3.10
E915	113	152	89	M10	6.75



Sheet separators use mutual magnetic repulsion to separate sheets in a stack so they can be removed more easily Sold in pairs

MAGNETIC TOOLS (GENERAL)





Lightweight unit for the removal of residual magnetism from components after workholding $% \left({{{\rm{T}}_{{\rm{T}}}}_{{\rm{T}}}} \right)$

CE approved

(Max usage: 2 minutes in any 4 minute period)

Magnetic Vice Jaws

Part No	Width mm	Height mm	Length mm	Weight per pair (kg)
EM983-R	31	32	103	0.13



Powerful neodymium magnet material encased in polyurethene Secure round and irregular workpieces without damage or distortion

Magnet Pole Indicator





Shows the true north or true south pole of magnets. Pocket sized. Battery powered (includes $4\times1.5\nu$ batteries)



Magnetic Plate Drag

	•				
Part No	Length mm	Height mm	Width mm	Weight (kg)	Pull (kg)
E964	118	98	38	2.8	50
		-			
a	1000				
ASS IN					
	133				
ECLIDE		U U	se to remove	steel sheets from	na
WESTERD LING AND		s	tack and trar	sport sheets to a from machines of	nd etc

Contains powerful permanent ferrite magnets in an aluminium housing

Gauss Meter

Part No	Weight (kg)		6
GMET/1	0.5		Alle
GMET/2	0.5		
Digital han magnetic f	d held Gauss meter lux.	for checking	Gauss Meter
Supplied v Axial (AX))	vith 2 probes (Transv , case, battery (PP3).	erse (TX) and	
Measurem Ampere m	ent units: Gauss, Tes eters.	sla, Oersted,	
Measuring	range settings:		
1: 1 to 300 (0.0001 o 0	0 Gauss).3 Tesla)		
Resolution	- 1 Gauss		
2: 10 to 30	,000 Gauss (0.001 to	3 Tesla)	0
Resolution	- 10 Gauss		
Auto: Auto	matically measures	between settings 1	and 2
+/- 15mT o	on/off hysteresis		

ECLIPSE PROFESSIONAL TOOLS

MAGNETIC BASES



Complete Magnetic Stands

Part No	Base Part No	Switching Type	Fitment Part No	Fitment Type	Ma: Pul (kg
1 E901	E901WF	Push Button	RP991BL	Heavy duty with fine adjustable	80
2 E901/1	E901WF	Push Button	RP901/1	Extra large heavy duty	80
3 E903CP	E900WF	Push Button	RP72CP	Light duty	30
4 E908M	E900WF	Push Button	RP995BL	Heavy duty	30
5 E905	E905WF	Lever	RP995BL	Heavy duty	80
6 E906	E905WF	Lever	RP991BL	Heavy duty with fine adjustable	80
🔽 E907M	E905WF	Lever	RP907S	Flexible snake arm F/A	80
E910	E905WF	Lever	RP999	Mechanical one piece	80
🧐 E909	834	Non-switchable	RP909FIT	One pillar	14

For use in the measurement, inspection and positioning of workpieces with dial indicators.

To measure the flatness of a workpiece after grinding or milling

For checking concentricity of a workpiece. All stands will clamp onto curved and flat surfaces, with the exception of E909 (flat only)



Magnet	tic Ba	ases	- Push	Butto	n		Magnetic	; Bas	es -	Toggle	Swit	ch		Μ	ag
Part No	Length mm	Height mm	Width mm	Hole Size	Weight Cl (kg)	amping Force (kg)	Part No	Length mm	Height mm	Width mm	Hole Size	Weight (kg)	Clamping Force (kg)		Part I
E900WF	48	52	40	M8	0.5	30	E905WF	65	55	50	M8	1.05	80	1	RP72
E901WF	64	76	64	M8	1.7	80	E905WF/100	75	55	50	M8	1.20	100	2	RP99
														3	RP99
				the second										4	RP90
														5	RP90
				1											Part N
			(B)	1										6	RP90
			EUL	PSE					-		-			7	RP99
	PUSH		PUSH MAGNET CAT N WAG BY	OFF C BASE 0 EBOT				ECLIP	SE					2	

4 magnetic faces. Eclipse magnetic bases can be attached to any ferrous surface to provide a rigid support

3 magnetic faces: top, bottom & back

N	lagnetic	Base	S - Fil	tment S	ets	
	Part No	Pillar Height mm	Pillar Dia. mm	Crossbar Length mm	Crossbar Dia. mm	Screw Fixing
	RP72CP	185	12.5	150	6.3	M8
2	RP991BL	175	12	165	10	M8
3	RP995BL	175	12	165	10	M8
Ð	RP901/1	300	20	200	14	M8
5	RP907FIT	120	6	N/A	N/A	M6
	Part No	Ma: Hei	x Extension ght mm			Screw Fixing
5	RP909S	35	5			M8
Z	RP999	29	5			M8





FOR RETAIL, OFFICE & WAREHOUSE APPLICATIONS

MAGNETIC TAPE MAGNETIC SHEET MAGNETIC LABELLING RACKING STRIP WHITEBOARDS MAGNETIC MARKERS

30

30

30

FLEXIBLE MAGNETS

Ma	gnetic	Tape

_						
Part No	Width mm	Thickness mm	Length m	Weight (kg)	Pull Force (g/cm²)	Pack Qty
EM884-R	13	0.5	1	0.027	28	1
FM660	7.5	0.75	10	0.240	44	1
FM661	12.5	0.75	10	0.390	44	1
FM662	20	0.75	10	0.630	44	1
FM652	10	1.5	30	1.7	55	1
FM663	12.7	1.5	30	2.1	55	1
FM664	20	1.5	30	3.3	55	1
FM665	25.4	15	30	42	55	1

Material: strontium ferrite in thermo-plastic binder Max. operating temperature 80°C Magnetic on 1 face only Can be cut with scissors

All supplied with standard acrylic adhesive. FM652, FM663, FM664, FM665 are also



Adhesive-backed steel tape can be used with the matching width adhesivebacked magnetic tape to provide temporary and semi-permanent fixings

Steel Tape

FM663

FM664

FM665

Part No

FM667

FM668

FM669

mm

13

20

25

0.2

0.2

0.2



28

Weigh (kg)

0.8

1.2 1.5

Qty

Finish

Plain

Supplied with standard acrylic adhesive

Magnetic Extrusion

Part No	Width mm	Thickness mm	Length m	Weight (kg)	Pull Force (g/cm²)	Pack Qty
EM888-R (pairs)*	9.5	3.6	0.15	0.021	65	10 pairs
FM880-R	9.5	3.6	2	0.026	65	1
FM670	9.5	3.6	10	1.44	65	1
FM671	11	4.6	10	2.07	65	1
FM672	15	6.4	10	3.64	65	1
* Adhesive backing					Ĺ	\bigcirc

Material: strontium ferrite in thermo-plastic binder Max operating temperature 80°C

Forms a strong bond when paired with itself

Magnetic on 1 face

Please contact us if you require custom extruded profiles



Magnetism with profile (cross sectio

Secondary Glazing / Fly Screen Kit

Part No	Materials	Thickness mm	Width mm	Roll Length m	Adhesive
DIY2NDDG13	Magnetic Tape	1.5	12.7	30	Foam
	Steel Tape	0.2	13	30	Std Acrylic
DIY2NDDG25	Magnetic Tape	1.5	25.4	30	Foam
	Steel Tape	0.2	25	30	Std Acrylic

The quickest and easiest way to install permanent or temporary secondary glazing

Kit contains 30 metres of adhesive backed magnetic tape and 30 metres of matching adhesive backed steel tape. Attach the steel to your window frame and the magnetic strip to your plastic glazing (not supplied)

Steel has a standard acrylic adhesive and is coated white . It can be painted to match your frame. Magnetic tape has white foam adhesive backing

Both materials are easily cut with scissors



Roll

30

Length

(kg)

35

Material: strontium ferrite in thermo-plastic binder

Max. operating temperature 80°C

Magnetic Sheet

Part No

Thick

0.50

Magnetic on 1 face

UV coating for cleaner handling

Flexible and impact resilient but can easily be cut using scissors. Regular shapes can be cut using inexpensive dies

620

Available with plain, white gloss or standard acrylic adhesive backing

Coloured and dry-wipe finishes also available





strip to the glazing


OFFICE / WAREHOUSE MAGNETS

Magnetic Labelling

Description	Application	Size	Thickness mm	Finish	Pack Qty
Magnetic Paper	Laser or Inkjet Printing	A4	0.25	White Matt	10
Self Adhesive Magnetic Sheet	Application to existing card / label	business card (85x55mm)	0.6	Adhesive Backed	25
Self Adhesive Magnetic Sheet	Application to existing card / label	A4	0.8	Adhesive Backed	10
Dry Wipe Magnetic Sheet	Dry Wipe Marker	A4	0.6	White Dry-wipe	10
- Co				D1 09	
	Description Magnetic Paper Self Adhesive Magnetic Sheet Dry Wipe Magnetic Sheet	DescriptionApplicationMagnetic Paper Self Adhesive Magnetic Sheet Dry Wipe Magnetic SheetLaser or Inkjet Printing Application to existing card / label Application to existing card / label Dry Wipe MarkerVVipe Vipe Magnetic Sheet	DescriptionApplicationSizeMagnetic Paper Self Adhesive Magnetic Sheet Dry Wipe Magnetic SheetLaser or Inkjet Printing Application to existing card / label Application to existing card / label Dry Wipe MarkerA4 A4The second s	DescriptionApplicationSizeThickness mmMagnetic Paper Self Adhesive Magnetic Sheet Self Adhesive Magnetic Sheet Dry Wipe Magnetic SheetLaser or Inkjet Printing Application to existing card / label Application to existing card / labelA40.25Dry Wipe Magnetic SheetDry Wipe Dry Wipe MarkerA40.8Dry Wipe Magnetic SheetDry Wipe MarkerA40.6	DescriptionApplicationSizeThickness mmFinishMagnetic Paper Self Adhesive Magnetic Sheet ory Wipe Magnetic SheetLaser or Inkjet Printing Application to existing card / label Application to existing card / labelA40.25White Matt Adhesive Backed0.6Adhesive bry Wipe Magnetic SheetDry Wipe MarkerA40.6Backed Backed0.79 Wipe MarkerA40.6White Dry-wipe0.6Dry Wipe MarkerA40.6Dry-wipe0.6Dry Wipe MarkerA40.6Dry-wipe

2011

Part No	Description	Roll Length m	Width mm	Height mm	Weight (kg)	Pack Qty
FM676/B	Label Packs	-	100	25	1.01	50
FM677/B	Label Packs	-	100	30	1	50
FM683	Label Packs	-	150	35	0.125	5
FM674C	Roll	50	-	15	7	1
FM676C	Roll	50	-	25	7	1
FM677C	Roll	50	-	30	7	1



3 ways to make your own custom magnetic labels:

Print with laser printer or inkjet on to matt or gloss magnetic paper Apply self-adhesive magnetic sheet to the back of existing labels, signs,

notices and graphics Write on dry-wipe flexible magnetic sheet

All materials are easily cut with scissors

Magnetic Racking Strip / Bay Markers

Width	Colour	Colour	Colour	Colour	Colour
mm	Yellow	Blue	Red	White	Green
20	060610U8/Y	060610U8/B	060610U8/R	060610U8/W	060610U8/G
30	060610U9/Y	060610U9/B	060610U9/R	060610U9/W	060610U9/G
50	060610U10/Y	060610U10/B	060610U10/R	060610U10/W	060610U10/G
70	060610U11/Y	060610U11/B	060610U11/R	060610U11/W	060610U11/G
90	060610U12/Y	060610U12/B	060610U12/R	060610U12/W	060610U12/G

Sticks to all steel racking

Dry wipe surface - write on, wipe off Supplied in 10 metre rolls. Thickness 0.5mm



Marker Magnets



Marker magnets

Magnet material in a coloured plastic shell Ideal for filing cabinets, fridge doors, noticeboards and our magnetic whiteboards



Temporary / permanent signage, labelling, identification

Magnetic Label Holders

Can be used on steel racking, cabinets, shelving or any magnetically receptive surface

Complete with magnetic rubber, white card, acrylic cover

Whiteboards Width Height mm Part No MDWB300450 300 450 MDWB600450 600 450 MDWB900600 900 600 MDWB1200900 1200 900

. .

KTUESDAY

CALL

ECLIPSE MAGNETIC

Dry-wipe magnetic white boards with anodised aluminium frame and dropdown shelf for pens and eraser. Supplied with fixings, pack of 4 pens and eraser

Pens and Erasers





Dry wipe pens and erasers for use with whiteboards Pens come in a pack of four in red, green, blue and black

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MERCHANDISING / POINT OF SALE

We offer a range of merchandising and point of sale materials to support our stockists. Some of the options are shown below^{*}





Please see our website for further details on all of our ranges

























www.eclipsegroup.com www.spear-and-jackson.com www.eclipsemagnetics.com