

ECLIPSE

PROFESSIONAL ENGINEERING TOOLS

CELEBRATING
OVER
200
YEARS
OF EXPERIENCE

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ECLIPSE07

METAL CUTTING ENGINEERS TOOLS RIVETERS



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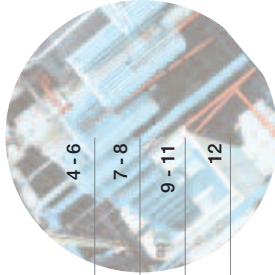
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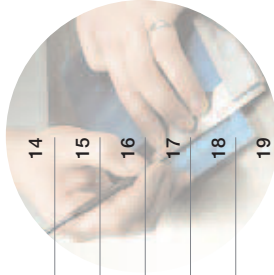
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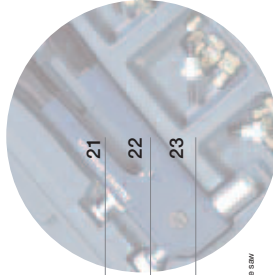
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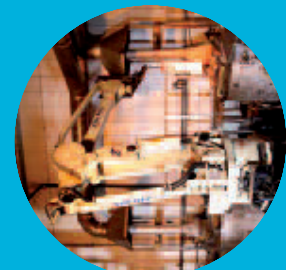


THE OFFICIAL MARK OF QUALITY

Dedication to quality has earned official accreditation of the BSEN ISO 9001:2000 Quality Assurance Certificate for the manufacture of general-purpose saw and hand saw blades. This represents another important milestone in NEWMANTOOLS' history, since this is internationally recognised as a mark of quality. Cert No. 04122900



Atlas Offices, Sheffield England



Eclipse saw blade robot

POWER HACKSAW BLADES HAND HACKSAW BLADES HOLESAWS & ARBORS SAW FRAMES & BLADES

RESEARCH & DEVELOPMENT

The Eclipse Plus 30 from Newmantools has replaced the next generation of hand hacksaw blades. It is a blade which can cut 30 percent faster than conventional blades because of its revolutionary blade tooth shape. Independent testing by leading UK academic institutions have confirmed the blade's improved cutting ability.

A REVOLUTIONARY BLADE DESIGN

Following many years of research into the most effective cutting profile possible, Eclipse has developed an entirely new blade tooth shape.

The Eclipse Plus 30 has been engineered to produce the best cut

possible. That means right from the start you will notice the difference. And you will go on noticing the difference as the Eclipse Plus 30 delivers extra performance throughout its life.



BETTER TESTING

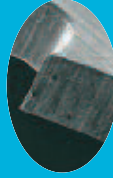
Independent testing at the University of Northumbria in Newcastle has verified the claims made about the Eclipse Plus 30. Using both machine and hand-testing, the Eclipse Plus 30 has been thoroughly tested and the improvement in cutting ability has been confirmed. Machine tests proved the increased cutting efficiency of the blade.

THE NUMBER ONE NAME IN CUTTING POWER

Eclipse have always been the number one in hacksaw blades. The new Eclipse Plus 30 is recognised for engineering excellence. Eclipse Plus 30... Power, Speed, Accuracy and Quality.

These two inset shots illustrate the difference between a ground and a milled blade under magnification.

MILLED TOOTH SHAPE



NEW GROUND TOOTH SHAPE



HAND HACKSAW BLADES

Plus 30 BiMetal HSS

Part No	Blade Size (mm)	Blade Size (inches)	Tooth Pitch (25mm)	PN dia. (mm)	PN dia. (in)	Peak Size (mm)	Peak Size (in)	Weight (kg)
AA3025G	250 X 12.5 X 0.63	10 X 1/2 X 0.025	18	4	100	1.63		
AA3026E	250 X 12.5 X 0.63	10 X 1/2 X 0.025	24	4	100	1.63		
AA3027V	250 X 12.5 X 0.63	10 X 1/2 X 0.025	32	4	100	1.63		
AA3045E	300 X 12.5 X 0.63	12 X 1/2 X 0.025	18	4	100	1.90		
AA3046V	300 X 12.5 X 0.63	12 X 1/2 X 0.025	24	4	100	1.90		
AA3047R	300 X 12.5 X 0.63	12 X 1/2 X 0.025	32	4	100	1.90		



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

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.

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

- **30% MORE CUTTING POWER**
- **HIGH PERFORMANCE**

Plus 30 All Hard HSS

Part No	Blade Size (mm)	Blade Size (inches)	Tooth Pitch (25mm)	PN dia. (mm)	PN dia. (in)	Peak Size (mm)	Peak Size (in)	Weight (kg)
AE3025W	250 X 12.5 X 0.63	10 X 1/2 X 0.025	18	4	100	1.63		
AE3026E	250 X 12.5 X 0.63	10 X 1/2 X 0.025	24	4	100	1.63		
AE3044W	300 X 12.5 X 0.63	12 X 1/2 X 0.025	14	4	100	1.90		
AE3045B	300 X 12.5 X 0.63	12 X 1/2 X 0.025	18	4	100	1.90		
AE3046K	300 X 12.5 X 0.63	12 X 1/2 X 0.025	24	4	100	1.90		
AE3047R	300 X 12.5 X 0.63	12 X 1/2 X 0.025	32	4	100	1.90		



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, 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.

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.

- **30% MORE CUTTING POWER**
- **SHARPER FIRST CUT**
- **LONGER LIFE**

BiMetal High Speed Steel

Part No	Blade Size (mm)	Blade Size (inches)	Tooth Pitch (25mm)	PN dia. (mm)	PN dia. (in)	Peak Size (mm)	Peak Size (in)	Weight (kg)
AA46E	300 X 12.5 X 0.63	12 X 1/2 X 0.025	18	4	100	1.90		
AA46V	300 X 12.5 X 0.63	12 X 1/2 X 0.025	24	4	100	1.90		
AA47R	300 X 12.5 X 0.63	12 X 1/2 X 0.025	32	4	100	1.90		



Cuts through all types of materials 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, 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.

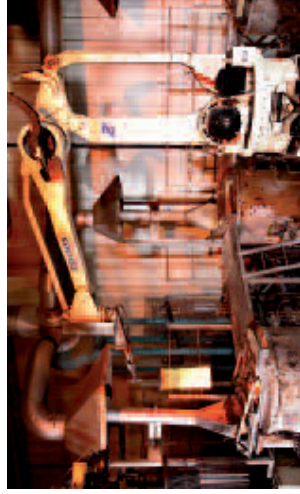
Cuts through all types of materials including alloy and stainless steels.

- **HIGH PERFORMANCE**
- **SHATTERPROOF BLADE**

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

The comprehensive range of ECLIPSE Power Hacksaw Blades will suit virtually all popular sawing machines including the Kasto range. The continuous development of our HSS or BiMetal HSS blades with a wide range of sizes and tooth pitch to cater for all varieties of materials and thicknesses. 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 M3 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 (5/8") width.

BI METAL HSS

Manufactured from M3 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 Eclipses 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 Eclipses 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 Eclipses power blades are manufactured to BSEN ISO 9001: 2000 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.

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

WORKPIECE MATERIAL	WORKPIECE THICKNESS				
	mm	inch	13	25	50
Magnesium			1/4	1	2
Free Machining Low Carbon Steels			14	10	6
Brass			14	10	6
Copper			14	10	6
Mild Steel			14	10	6
Carbon Steels Low & Medium Carbon 90-160			14	10	6
High Carbon Steels			14	10	6
Tool Steels			14	10	6
Alloy Steels			14	10	6
Copper Alloys			14	10	6
Malleable Cast Irons			14	10	6
Titanium Alloys			14	10	6
Grey Cast Irons			14	10	6
High Temperature 35-75 Alloys			14	10	6
(Inconel, Nimonic, Hastelloy, Incolony, Waspaloy)			14	10	6
Nickel Alloys			14	10	6
(Monel, Duranickel)			14	10	6

- **ACCURATE CUTTING**
- **LONG LIFE**

POWER HACKSAW BLADES

Table with columns: Part No, Blade Size mm, Blade Size inches, Teeth per 25mm, PW dia. mm, Pack Size, Pack Weight (kg), and Pack Weight (lb). Lists various power hacksaw blades with their specifications.



SUITABLE FOR USE WITH KASTO HACKSAWING MACHINES.

Table with columns: Part No, Blade Size mm, Blade Size inches, Teeth per 25mm, PW dia. mm, Pack Size, Pack Weight (kg), and Pack Weight (lb). Lists suitable blades for Kasto machines.



HOLESAWS, ARBORS & KITS

HOLESAWS

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

Table with columns: Part No, Diameter, Pack No, Diameter, Part No, Diameter, Pack No, Diameter. Lists various vari-pitch holesaws with their specifications.

CONSTANT PITCH - Thin sheet metal Holesaws constant pitch teeth

Table with columns: Part No, Diameter, Pack No, Diameter, Part No, Diameter, Pack No, Diameter. Lists various constant pitch holesaws with their specifications.

All packed in single units.

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

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

See chart on page 8 for recommended cutting speeds

BOXED HOLESAW KITS

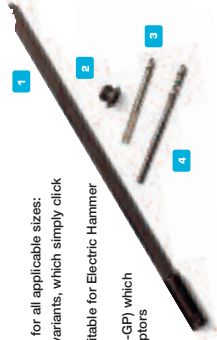
Table with columns: Part No, Diameter, Pack No, Diameter, Part No, Diameter, Pack No, Diameter. Lists various boxed holesaw kits with their specifications.

* Kits packed in single units

ARBORS

The range of Eclipse Holesaw Arbors now includes:

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



GENERAL PURPOSE EBP30-K
ELECTRICIAN'S DRILL KIT EBP4-K
ELECTRICIAN'S ARBOR KIT EBP4-K

ARBORS

Table with columns: Part No, Diameter, Part No, Diameter. Lists various arbor part numbers and diameters.

EXTENSION

Table with columns: Part No, Diameter, Part No, Diameter. Lists various extension part numbers and diameters.

* Kits packed in single units

ACCESSORIES

Table with columns: Part No, Diameter, Pack No, Diameter, Part No, Diameter, Pack No, Diameter. Lists various accessories with their specifications.



Arbor Selection Guide

Table with columns: Arbor, Holesaw Diameter, Screw Thread, Shank Type, Drill Chuck. Provides a selection guide for arbor compatibility.

HOLESAWS

ECLIPSE bi-metal holesaws are constructed of 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, aluminum, plastics and wood. Available in variable 4/8 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 upto 76mm in constant pitch.

Recommended Cutting Speeds

Product Code	Diameter	Mild Steel	Tool & Stainless Steel	Cast Iron	Brass	Aluminium	Wood
EBV30-14	14mm (1/2")	550	330	400	790	900	3000
EBV30-16	16mm (5/8")	530	275	365	825	730	3000
EBV30-17	17mm (5/8")	500	250	330	665	750	3000
EBV30-19	19mm (3/4")	460	230	300	600	690	3000
EBV30-20	20mm (3/4")	460	230	300	600	690	3000
EBV30-21	21mm (7/8")	425	210	280	560	630	3000
EBV30-22	22mm (7/8")	390	195	260	520	595	3000
EBV30-24	24mm (1")	370	185	245	495	555	3000
EBV30-25	25mm (1")	350	175	235	470	525	2700
EBV30-27	27mm (1 1/8")	325	160	215	435	480	2700
EBV30-29	29mm (1 1/8")	300	150	200	400	450	2700
EBV30-30	30mm (1 1/8")	285	145	190	380	425	2400
EBV30-32	32mm (1 1/4")	275	140	180	360	410	2400
EBV30-33	33mm (1 1/4")	260	135	175	345	390	2400
EBV30-35	35mm (1 3/8")	250	125	165	330	375	2400
EBV30-37	37mm (1 3/8")	240	120	160	315	360	2400
EBV30-38	38mm (1 3/8")	230	115	150	300	345	2400
EBV30-40	40mm (1 1/2")	220	110	145	290	330	2100
EBV30-41	41mm (1 5/8")	210	105	140	280	315	2100
EBV30-43	43mm (1 5/8")	205	100	135	270	305	2100
EBV30-44	44mm (1 5/8")	195	95	130	260	290	2100
EBV30-46	46mm (1 7/8")	190	95	125	250	285	2100
EBV30-48	48mm (1 7/8")	180	90	120	240	270	2000
EBV30-51	51mm (2")	170	85	115	230	255	2000
EBV30-52	52mm (2")	165	80	110	220	245	2000
EBV30-54	54mm (2 1/8")	160	80	105	210	240	2000
EBV30-55	55mm (2 1/8")	150	75	100	200	230	2000
EBV30-57	57mm (2 1/4")	150	75	100	200	230	2000
EBV30-59	59mm (2 3/8")	145	75	100	195	225	2000
EBV30-60	60mm (2 3/8")	140	70	95	190	220	2000
EBV30-64	64mm (2 5/8")	135	70	90	180	205	1800
EBV30-65	65mm (2 5/8")	130	65	85	175	200	1800
EBV30-67	67mm (2 5/8")	130	65	85	170	195	1800
EBV30-68	68mm (2 5/8")	130	65	85	165	190	1800
EBV30-70	70mm (2 3/4")	125	60	80	160	185	1800
EBV30-73	73mm (2 7/8")	120	60	80	160	180	1800
EBV30-76	76mm (3")	115	55	75	150	170	1500
EBV30-79	79mm (3 1/8")	110	55	70	145	165	1500
EBV30-83	83mm (3 1/4")	105	50	70	140	155	1500
EBV30-86	86mm (3 3/8")	100	50	65	130	150	1200
EBV30-89	89mm (3 5/8")	95	45	65	125	145	1200
EBV30-92	92mm (3 5/8")	95	45	60	120	140	1200
EBV30-95	95mm (3 7/8")	90	45	60	120	135	1200
EBV30-98	98mm (3 7/8")	90	45	60	115	130	1200
EBV30-102	102mm (4")	85	40	55	115	125	1000
EBV30-105	105mm (4 1/8")	85	40	55	110	120	1000
EBV30-108	108mm (4 1/4")	80	40	55	110	115	900
EBV30-111	111mm (4 3/8")	80	40	50	100	110	900
EBV30-114	114mm (4 1/2")	75	35	50	100	105	900
EBV30-121	121mm (4 3/4")	70	35	45	90	95	900
EBV30-127	127mm (5")	65	30	45	85	90	900
EBV30-140	140mm (5 1/2")	60	30	35	80	85	800
EBV30-152	152mm (6")	55	25	35	75	80	800



SAW FRAMES & BLADES

The Dawning of a new Era....



Introducing the new soft-feel family from Eclipse



SAW FRAMES - SOFT FEEL HANDLE

Part No	Description	Length	Height	Teeth per outer	Box Weight (kg)	Part No	Description	Length	Height	Teeth per outer	Box Weight (kg)
PS5TSF	Piercing Saw Soft Feel Handle	294mm (11 1/2")	95mm (3 7/8")	5	0.90	70-20TFSF	Professional Hack Saw Soft Feel Handle	480mm (18 7/8")	127mm (5")	5	2.5
70-FSTRSF	Fret Saw Soft Feel Handle	272mm (10 3/4")	300mm (11 3/4")	5	2.05	70-22TR	Hack Saw Soft Feel Handle	400mm (16")	132mm (5 1/4")	5	3.6
70-CPTRSF	Coping Saw Soft Feel Handle	317mm (12 1/2")	130mm (5 1/8")	5	1.50						

SAW FRAMES

70-20TR/20TND

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-20TR	Prof. Hacksaw	485mm(19")	130mm(5")	5	3.35
20TND*	Prof. Hacksaw	485mm(19")	130mm(5")	20	14.75



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**.

Also now available with a soft feel handle. See page 9.

18TND

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
18TND*	Hacksaw	448mm(17 1/2")	132mm(5 1/8")	10	4.4



Another new addition to our world famous range of hacksaws, the 18TND offers tremendous value for money without compromising on the strength and lightness synonymous with the **ECLIPSE** brand. Comes complete with an **ECLIPSE** bimetal blade.

PS51

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
PS51	Piercing Saw	292mm(11 1/2")	95mm(3 3/4")	5	0.80



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

SAW FRAMES

70-FS1R

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-FS1R	Fret	270mm(10 5/8")	300mm(11 7/8")	5	2.05



Fretsaw for fine cutting work in thin materials such as wood, bone, plastics, etc - ideal for model makers. Comfortable wooden handle and steel frame. Blades can be positioned at any angle to the frame.

70-CP1R

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



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

BLADES

Teeth per inch guide

70-17XR

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-17XR	High Access Saw	260mm(10 1/4")	67mm(2 5/8")	12	1.52



A variant on the Junior hacksaw for accessing confined places.

70-14JR

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-14JR	Junior	265mm(10 3/8")	67mm(2 5/8")	5	0.70



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

70-40OR/40OND

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-40OR	Handyman	400mm(15 3/4")	130mm(5")	5	4.5
40OND*	Handyman	400mm(15 3/4")	130mm(5")	20	9.20



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

40PG30/40PG

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
40PG30	Pistol Grip	485mm(19")	120mm(4 3/4")	5	3.50
40PG*	Pistol Grip	485mm(19")	120mm(4 3/4")	5	3.30



A traditional pistol grip hacksaw with diecast handle, solid frame and an **ECLIPSE** bimetal blade.

70-675R

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-675R	Mini Saw	250mm(10")	100mm(4")	5	1.00



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

70-130R

Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
70-130R	Pat Saw	276mm(10 7/8")	-	5	1.40



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.

72-66XR

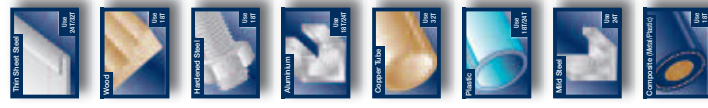
Code	Description	Length	Height	Packs per outer	Box Weight (Kg)
72-66XR	General Purpose	465mm(18 1/4")	-	5	2.70



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.

The most versatile hacksaw blade around - the 3-in-1 solution!

Part No	Description	Length	Teeth 25mm	No. of blades in pack	Pack Size	Box Weight (Kg)
71-624R	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	-	-



*Hacksaws without **PLUS 30** blades are only available in selected non UK markets

MERCHANDISER

ECLIPSE Plus 30

This attractive permanent merchandiser is constructed in blue steel. It can be used as a re-stocking merchandiser on the legs provided or for hanging tools on a set wall or peg board with hooks attached to the top.

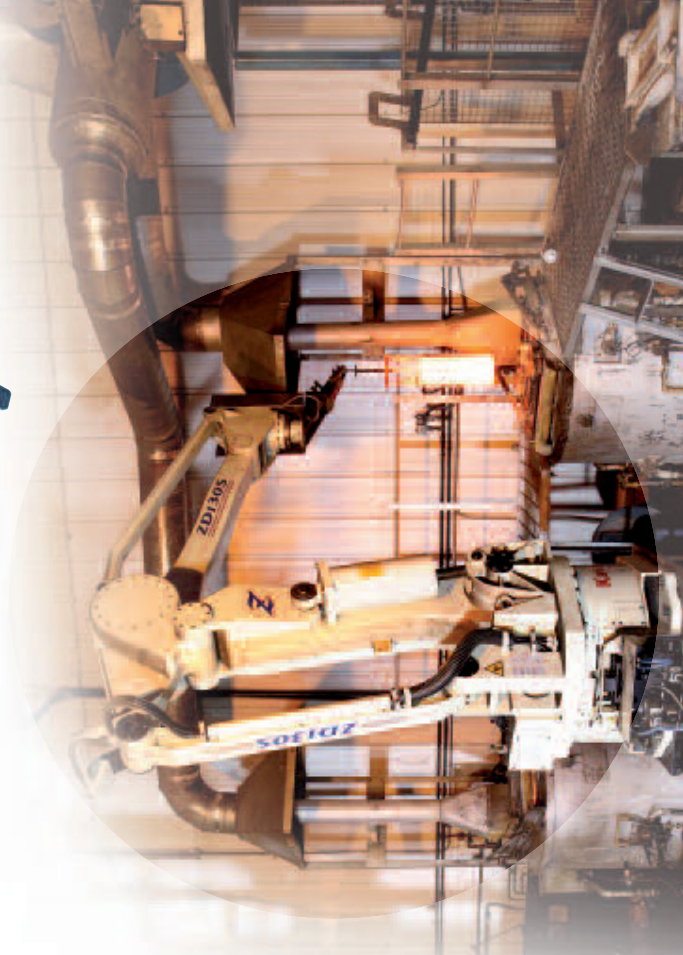
- To order this merchandiser, which comes complete with 100 ECLIPSE Plus 30 hacksaw blades, order part no. HSBTUBEMER
- ECLIPSE Plus 30 blades can be purchased in re-sealable tubes containing 10 blades



Replacement tubes listing

Part No	Blade Size mm	Blade Size inches	Tube Length 20mm mm	Qty per tube	Blade Size mm	Blade Weight (kg)
+30M10TUBE	250x12.5x0.63	10x1/2x0.025	18	4	100	1.63
+30M12TUBE	250x12.5x0.63	10x1/2x0.025	24	4	100	1.63
+30M14TUBE	250x12.5x0.63	10x1/2x0.025	32	4	100	1.63
+30M16TUBE	300x12.5x0.63	12x1/2x0.025	18	4	100	1.90
+30M18TUBE	300x12.5x0.63	12x1/2x0.025	24	4	100	1.90
+30M20TUBE	300x12.5x0.63	12x1/2x0.025	32	4	100	1.90

Blade re-order requirements (as per standard packaging) are that 100 blades of the same type must be ordered at the same time.



**HAND TOOLS
MACHINE TOOLS
WOODWORKING TOOLS**

ENGINEERS TOOLS

All ECLIPSE punches are made from a high quality carbon steel. The point is hardened and tempered to withstand continuous use. All punches have well cut knurling to provide positive finger grip.



PUNCHES



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 (1/8")	100mm (4")	10
351B	4mm (5/16")	100mm (4")	10
351C	4.8mm (3/8")	100mm (4")	10
351D	6.35mm (1/4")	100mm (4")	10
351W	Wallet containing one of each	100mm (4")	1 set
Carded retail products			
65-600R	3.2mm (1/8")	100mm (4")	5

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
352A	1.6mm (1/16")	100mm (4")	10
352B	2.4mm (1/8")	100mm (4")	10
352C	3.2mm (1/4")	100mm (4")	10
352D	4mm (5/16")	100mm (4")	10
352W	Wallet containing one of each	100mm (4")	1 set

Part No	Nail punch	Head Type	Diameter	Pack Size
65-232R	Nail punch		4mm (1/8")	5
65-322R	Nail punch		2.4mm (1/8")	5
65-432R	Nail punch		3.2mm (1/4")	5
65-532R	Nail punch		4mm (5/16")	5

- 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
9180	Pin driver	2.5mm (1/8")	6
9185	Nail driver	4mm (5/16")	6

PARALLEL PIN PUNCHES

- Used to punch out pins and dowels

Part No	Point Diameter	Length	Pack Size
161AA	1.7mm (1/16")	100mm (4")	10
161A†	2.3mm (3/16")	100mm (4")	10
161B†	3.1mm (1/8")	100mm (4")	10
161CC	3.9mm (5/16")	100mm (4")	10
161C†	4.7mm (3/8")	100mm (4")	10
161DD	5.3mm (1/4")	100mm (4")	10
161D	6.1mm (1/4")	100mm (4")	10
161E	7.6mm (5/16")	150mm (6")	5
161FF	9.5mm (3/8")	150mm (6")	5
161W	Wallet containing one of each	150mm (6")	1 set

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

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

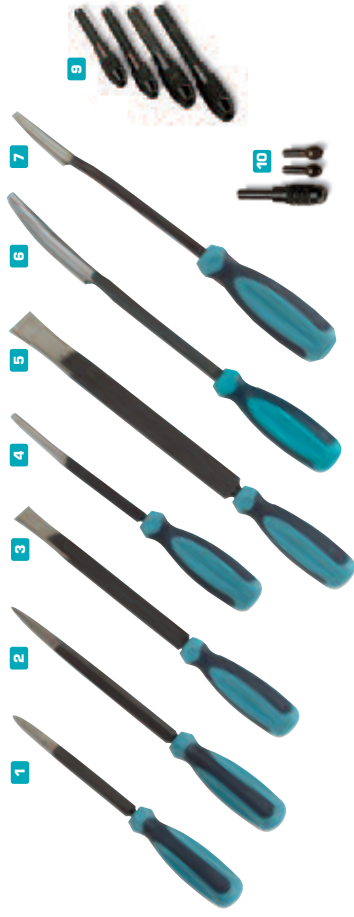
Part No	Length	Operating Pressure Range (kg)	Pack Size
65-171R	120mm (4 1/2")	13.5-2.25	10
E172	148mm (5 7/8")	22.5-6.3	1

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

SCRAPERS/PIN VICES/CHUCKS & COLLETS



Hand scrapers are designed for the removal of high spots on machined surfaces to give a smoother surface on slides, 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
96A	100mm (4")	Three Square	5
97A	140mm (5 1/2")	Three Square	5
99A	200mm (8")	Flat	5
96B	100mm (4")	Flat	5
97B	150mm (6")	Flat	5
99B	200mm (8")	Flat	5
96C	100mm (4")	Curved half round	5
97C	150mm (6")	Curved half round	5
97D	200mm (8")	Curved half round	5
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	355mm (13 7/8")	210mm (8 1/4")	Rat	5
257	350mm (14")	225mm (9")	Curved	5

BEARING SCRAPERS

- Suitable for removing high spots from bearings

Part No	Overall Length	Blade Length	Pack Size
258A	180mm (7 1/8")	100mm (4")	5
258B	240mm (9 1/2")	150mm (6")	5
258C	290mm (11 1/2")	200mm (8")	5
258	Set of 3 comprising	258A, 258B and 258C	1 set

PIN VICES

- Hand held tools designed for holding round materials 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 (3 1/4")	10
123	Chuck	1.4-3.1	0.055-0.122	95mm (3 3/4")	10
124	Chuck	3.1-5.00	0.122-0.196	106mm (4 1/4")	10
120	Set of 1 each (121, 122, 123 and 124)				1 set

PIN CHUCK & REPLACEMENT COLLETS

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

Part No	Overall Length (mm/inches)	Description	Pack Size
160	65mm (2 1/2")	Chuck with 3 collets capacity from 0.25-2.5mm (0.01-0.1")	1
RP621HRD		Replacement Collet capacity from 0.25-0.75mm (0.01-0.03")	1
RP622WRD		Replacement Collet capacity from 0.75-1.5mm (0.03-0.06")	1
RP623FRD		Replacement Collet capacity from 1.5-2.5mm (0.06-0.10")	1



SCRIBERS/JEWELLERS SCREWDRIVERS



ENGINEERS SCRIBERS

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

Part No.	Overall Length	Description	Pack Size	Part No.	Overall Length	Description	Pack Size
1 E222	190mm (7 1/2")	Double Ended	10	5 76-229R	175mm (7")		5

HANDY SCRIBER

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

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	88mm (3 1/2")	With hardened steel point	10
3 E225	89mm (3 1/2")	With tungsten carbide point	10
200/05	-	Replacement hardened steel point	10
225/02	-	Replacement tungsten carbide point	10

MACHINIST'S 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 (4 1/2")	One piece single ended scriber	10

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 Tool Bit	H5 Round Tool Bit	Dimensions (mm)	Length	Pack Size
1 TD70W	TE70D	4.8mm (3/16")	51mm (2")	10
2 TD74A	TE74B	4.8mm (3/16")	76mm (3")	10
3 TD109R		6.4mm (1/4")	76mm (3")	10
4 TD111M	TE111C	6.4mm (1/4")	102mm (4")	10
5 TD147R		7.9mm (5/16")	64mm (2 1/2")	10
6 TD149M	TE149K	7.9mm (5/16")	76mm (3")	10
7 TD151N	TE151D	7.9mm (5/16")	102mm (4")	10
8 TD189N	TE189J	9.5mm (3/8")	76mm (3")	10
9 TD191W		9.5mm (3/8")	102mm (4")	10
10 TD195C		9.5mm (3/8")	153mm (6")	10
11 TD271F	TE271E	12.7mm (1/2")	102mm (4")	5
12 TD275B		12.7mm (1/2")	153mm (6")	5
13 TD311E		15.9mm (5/8")	102mm (4")	5
14 TD315M		15.9mm (5/8")	153mm (6")	5
15 TD351R		19.0mm (3/4")	102mm (4")	5
16 TD355N		19.0mm (3/4")	153mm (6")	5

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



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

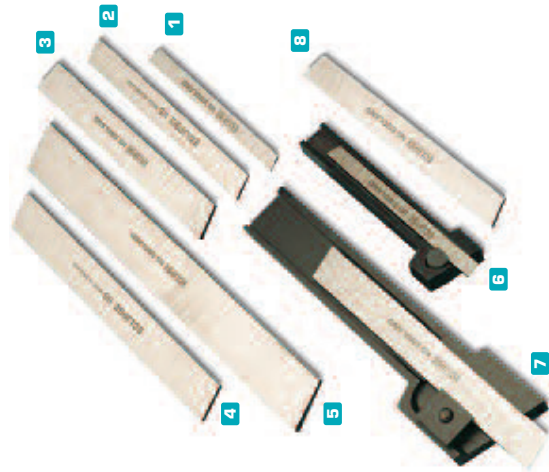
Part No.	Capacity	Shank Size	Overall Length	Pack Size
10 524SL	5-7	11.1 x 25.4	130mm (5 1/8")	1
11 534SL	8-10	15.9 x 31.8	155mm (6 1/8")	1
12 544SL	10-12.7	22.2 x 38	230mm (9")	1
13 523S	5-7	14.3 x 19	125mm (5")	1
14 533S	8-10	17.5 x 25.4	155mm (6")	1

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
15 TK105B	5mm (3/16")	114mm (4 1/2")	10
16 TK146C	6.5mm (1/4")	127mm (5")	10
17 TK189P	8mm (5/16")	153mm (6")	10
18 TK230J	9.5mm (3/8")	178mm (7")	10

CUTTING OFF/LATHE TOOLS/HOLDERS



CUTTING OFF TOOLS

- Bevel section accurately ground with clearance angle at cutting edge

HS Square	Width	Top Thickness	Bottom Thickness	Length	Pack Size
1 TH325M	12.70mm (1/2")	1.6mm (5/64")	1.6mm (5/64")	114mm (4 1/2")	10
2 TH466F	15.87mm (5/8")	2.4mm (3/16")	1.6mm (5/64")	127mm (5")	10
3 TH620V	19.65mm (3/4")	3.2mm (1/8")	1.6mm (5/64")	153mm (6")	10
4 TH750R	22.23mm (7/8")	3.2mm (1/8")	1.6mm (5/64")	178mm (7")	10
5 TH912T	25.40mm (1")	4.8mm (3/16")	3.2mm (1/8")	203mm (8")	5

CUTTING OFF TOOL HOLDERS

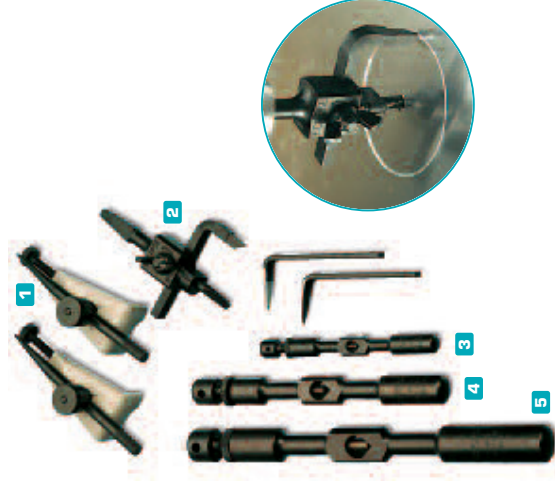
- 633S designed specifically for use on small lathes. The only toolholder in our range suitable for hollow ground cutting off tools
- All holders include a clamp designed to ensure that the tools are held securely and rigidly

Part No.	Capacity in mm	Shank Size in mm	Overall Length	Pack Size
6 633S	8	8 x 14.2	2.4mm (3/32")	95mm (3 3/8")
653S	12.7-16	12.7 x 25.4	3.2mm (1/8")	155mm (6")
672S	19-22.2	16 x 35	4.75mm (3/16")	180mm (7")
692S	25.4-28.5	19 x 43	5.5mm (1/4")	190mm (7 1/2")

Additional information

Part No.	Part No. of Suitable Cutting-Off Tool	Pack Size
6 633S	TJ123V	1
653S	TH825M or TH466F	1
7 672S	TH828R or TH750R	1
8 692S	TH912T	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 offset between 3/4" to 1 1/2" wide, minimum thickness of 3/8"

Part No.	Part No.	Part No.	Part No.
1 83	2 83	3 83	4 83

TANK & WASHER CUTTER

- Maximum design speed of 30rpm
- Designed for use in a carpenter's brace
- The tank cutter blade will cut holes from 25-125mm (1-5") diameter in tanks, boilers and sheet metal
- Two washer cutter blades will cut washers from 25mm-125mm (1-5") diameter from leather, cork, rubber and plastics
- Both tank and washer cutter blades can be precisely adjusted and securely clamped

Part No.	Type of Shank	Overall Length	Pack Size
2 280	Standard bit stock	115mm (4 1/2")	2

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.	Capacity Square A/F mm	BA	BSW BSW	UNC	UNF	Length mm	Length in	Height of Pack
3 E240	1.5-4.6	M1-M6	14-0	1/4-1/2	1/4-1/2	110/105	4 1/4	1
4 E241	2.0-7.2	M3-M12	5-0	1/2-1	1/2-1	164/156	6 1/2	1
5 E242	2.5-9.0	M4-M16	3-0	3/4-1 1/2	3/4-1 1/2	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.	Jaw Capacity mm	Square A/F mm	BA	BSW BSW	UNC	UNF
6 E141	Min 1	M1	14	1/4	1	1
7 E142	Max 2.8	M3.5	4	1/2	6	6
8 E143	Min 3.0	M4	3	3/4	8	8
9 E144	Max 8.0	M12	0	1 1/2	12	12

Part No.	Capacity mm	SO	DA	UNC	UNF
1 E141	50mm (1 3/4")	57mm (2 1/4")	1	1	1
2 E142	65mm (2 1/2")	90mm (3 1/2")	1	1	1
3 E143	90mm (3 5/8")	127mm (5")	1	1	1
4 E144	165mm (6 1/2")	90mm (3 5/8")	1	1	1
5 E145	245mm (10")	127mm (5")	1	1	1

TOOLMAKERS CLAMP

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

Part No.	Jaw Capacity	Length of Jaw	Jaw Section	Pack Size
9 410	25mm (1")	50mm (2")	8.0mm (5/16 in)	1
10 411	38mm (1 1/2")	75mm (3")	11.1mm (7/16 in)	1
11 412	63mm (2 1/2")	100mm (4")	14.3mm (9/16 in)	1
12 413	89mm (3 1/2")	125mm (5")	17.5mm (5/8 in)	1