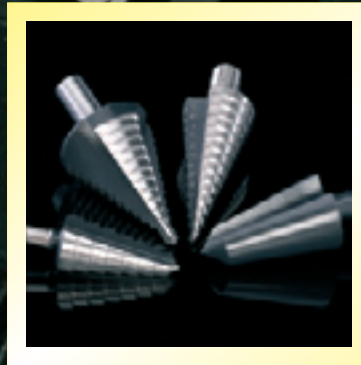


The logo for G&J HALL TOOLS is prominently displayed at the top center. It features the company name in a bold, green, sans-serif font, with 'G&J' in a smaller size above 'HALL'. The text is set against a yellow rectangular background that has a slight 3D effect with a shadow.

G&J HALL

TOOLS



PRODUCT CATALOGUE

ISSUE 5

DIRECT SALES LINE: +44 (0) 114 254 3206

www.gjhall.co.uk



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POWER, PRECISION AND PRODUCTIVITY

Powerbor®

ELECTROMAGNETIC DRILLING SYSTEMS

The POWERBOR® range of electromagnetic drilling machines, annular hole cutters, step drills and accessories offers the engineer a totally flexible choice of equipment for quick, efficient and accurate metal cutting either on site or in the workshop.

Hole cutting capacities range from 8mm to 100mm and many features on these quality manufactured machines are included as standard.

Industrial Applications:

- General engineering
- Bridge and highway maintenance
- Truck and trailer manufacturing
- Construction
- Mining
- Shipbuilding and railroad
- Refineries, offshore rigs and pipelines
- Lift and elevator repair
- Welding
- General metal fabrication

- Dual carrying handles for enhanced operating maneuverability
- Reversible handles for use in restrictive conditions
- Improved high density magnet for maximum adhesion
- Corrosive resistant, tangle-free cable from stand to drill unit
- Isolating power relay for improved handling safety
- Control panel situated conveniently on the same side as the traverse handles
- Free protective carrying case complete with safety strap, safety guard and hex key set

THE
Powerbor®
STANDARD
INCLUDED WITH ALL MACHINES

ELECTROMAGNETIC DRILLING SYSTEMS

PB32-S

The Powerbor® PB32-S has been ergonomically designed to provide an electromagnetic drilling machine that is totally user friendly.

- Fitted with the reliable and proven HITACHI D13 power unit
- A complete coolant system is available
- All Powerbor® standard features are backed by a full range of replacement spares
- 13mm drill chuck and key included*

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18A32/110	18011	PB32-S 110V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
320mm/480mm	90mm/202mm	240mm	160mm	12.5kgs

TOTAL POWER	780W
MOTOR	720W
MAGNETIC ADHESION	1000kgs
VOLTAGE	110V (AC supply)
RATED LOAD SPEED	380 rpm
DEPTH OF CUT	25mm
CUTTER CAPACITY	12mm to 32mm
DRILLING CAPACITY	18mm - with reduced shank drill

* To fit drill chuck (13mm with 1/2" x 20) remove arbor (RH thread) and arbor support bracket

See PB32-S user manual for complete specification at www.gjhall.co.uk



SAFETY GUARD...
Machine shown without
Safety Guard for clarity

THE
Powerbor®
STANDARD
INCLUDED (SEE PAGE 4)

PB35

The Powerbor® PB35 has excellent power to weight ratio, with optimum cutting and drilling capability for both HSS and TCT cutters.

- Annular cutter capacity (Ø35mm - HSS / Ø38mm - TCT)
- Custom moulded carrying case complete with Safety strap, Safety guard, Chrome Vanadium spanners/wrenches and Hex keys / Allen keys
- Optional coolant
- Optional drill chuck and key
- Optional chuck extension
- Arbor depth of cut Ø50mm
- 3/4" Weldon Shank arbor

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18C110	18811	PB35 110V
18C230	18814	PB35 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
395mm/530mm	95mm/202mm	300mm	135mm	13kgs

TOTAL POWER	1010W
MOTOR	960W
MAGNETIC ADHESION	1000kgs
VOLTAGE	110/230V (AC Supply)
RATED LOAD SPEED	360 rpm
DEPTH OF CUT	50mm
CUTTER CAPACITY	35mm HSS 38mm TCT
DRILLING CAPACITY	13mm

See PB35 user manual for complete specification at www.gjhall.co.uk



SAFETY GUARD...
Machine shown without
Safety Guard for clarity

THE
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Find out more about all our Powerbor® machines, including manuals and videos.



ELECTROMAGNETIC DRILLING SYSTEMS

PB35 FRV

The Powerbor® PB35 FRV has excellent power to weight ratio and forward, reverse and variable speed brings a choice of tapping, cutting and drilling capability.

- Annular cutter capacity (Ø35mm - HSS / Ø38mm - TCT)
- Single gear - electronically variable
- Coolant as Standard
- Forward/Reverse for tapping (M6 - M16)
- Arbor depth of cut 50mm
- 3/4" Weldon Shank arbor
- Optional drill chuck and key
- Custom moulded carrying case complete with Safety strap, Safety guard, Chrome Vanadium spanners/wrenches and Hex keys/allen keys
- Optional chuck extension

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18C110/FRV	18817	PB35 FRV 110V
18C230/FRV	18819	PB35 FRV 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
395mm/530mm	95mm/276mm (with coolant)	300mm	135mm	13.9kgs

TOTAL POWER	1010W
MOTOR	960W
MAGNETIC ADHESION	1000kgs
VOLTAGE	110-230V (AC Supply)
RATED LOAD SPEED	150-360 rpm
DEPTH OF CUT	50mm
CUTTER CAPACITY	35mm HSS 38mm TCT
DRILLING CAPACITY	13mm
TAPPING CAPACITY	M16 (with Powerbor® Weldon Shank Spiral Point Taps)

See PB35 FRV user manual for complete specification at www.gjhall.co.uk



SAFETY GUARD...
Machine shown without Safety Guard for clarity

THE Powerbor® STANDARD
INCLUDED (SEE PAGE 4)

PB45-S

The cutting capacity to weight ratio of the Powerbor® PB45-S complements the PB32-S but adds more cutting power.

The relatively light overall weight of the PB45-S disguises the cutting and drilling power normally associated with much heavier machines.

- Fitted with the tried and tested Eibenstock 2 speed motor unit
- Arbor depth of cut 50mm
- A complete coolant system is available as an option
- All Powerbor® standard features are backed by a full range of replacement spares

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18H45/110	18063	PB45-S 110V
18H45/240	18066	PB45-S 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
370mm/560mm	145mm/210mm	280mm	190mm	20kgs

TOTAL POWER	1225W
MOTOR	1150W
MAGNETIC ADHESION	1500kgs
VOLTAGE	110V or 220-240V (AC supply)
RATED LOAD SPEED	250-450rpm
DEPTH OF CUT	50mm
CUTTER CAPACITY	12mm to 50mm
DRILLING CAPACITY	20mm
ARBOR	M.T.2 to 3/4" Weldon Shank

See PB45-S user manual for complete specification at www.gjhall.co.uk



SAFETY GUARD...
Machine shown without Safety Guard for clarity

THE Powerbor® STANDARD
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Find out more about all our Powerbor® machines, including manuals and videos.



ELECTROMAGNETIC DRILLING SYSTEMS

PB70/2

The Powerbor® PB70/2 has been carefully designed to guarantee enhanced power and versatility.

A proven, powerful performer and still portable enough to be used on-site or in the workshop, the PB70/2 provides the perfect solution to even the most difficult of drilling applications.

- 2 geared speeds
- Arbor depth of cut 50mm
- Mechanical Clutch
- MT3 fitting for accessories or up to 32mm twist drill
- 3/4" Weldon Shank arbor
- Optional coolant
- Optional MT3 drill chuck and key
- Optional MT3 x 1.1/4" arbor for large cutters
- Carrying case containing Safety strap, Safety guard, spanners/wrenches and Hex keys / allen keys

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18G702/110	18513	PB70/2 110V
18G702/240	18060	PB70/2 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
440mm/640mm	160mm/235mm	330mm	190mm	22kgs
TOTAL POWER	1675W			
MOTOR	1600W			
MAGNETIC ADHESION	1500kgs			
VOLTAGE	110V or 220-240V (AC supply)			
RATED LOAD SPEED	140-470 rpm			
DEPTH OF CUT	50mm			
CUTTER CAPACITY	12mm to 70mm*			
DRILLING CAPACITY	32mm			
ARBOR	M.T.3 to 3/4" Weldon Shank			

* Cutters larger than 65mm need optional 1.1/4" arbor.

See PB70/2 user manual for complete specification at www.gjhall.co.uk



SAFETY GUARD...
Machine shown without Safety Guard for clarity

THE
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PB70 FRV

The Powerbor® PB70 FRV has excellent power to weight ratio and forward, reverse and variable speed version of the PB70/2. It brings a choice of tapping, cutting and drilling to our 70mm capacity magnetic drilling machine.

- Annular cutter capacity Ø70mm (HSS / TCT)
- Forward/Reverse for tapping (M6 - M24)
- MT3 fitting for accessories or up to Ø32mm twist drill
- 2 geared speeds - electronically variable
- Arbor depth of cut 50mm
- Torque boost and feedback control for speed
- Mechanical Clutch
- Electronic overload and thermal cut-out
- 3/4" Weldon Shank arbor
- Optional coolant
- Optional MT3 drill chuck and key
- Optional MT3 x 1-1/4" arbor for large cutters
- Carrying case containing Safety strap, Safety guard, spanners/wrenches and Hex keys / allen keys

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18P110	18806	PB 70 FRV 110V
18P230	18807	PB 70 FRV 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
440mm/640mm	160mm/255mm	330mm	190mm	22kgs
TOTAL POWER	1875W			
MOTOR	1800W			
MAGNETIC ADHESION	1500kgs			
VOLTAGE	110/230V (AC supply)			
RATED LOAD SPEED	60-140, 200-470 rpm*			
DEPTH OF CUT	50mm			
CUTTER CAPACITY	70mm HSS** 70mm TCT**			
DRILLING CAPACITY	32mm			
TAPPING CAPACITY	M24 (with Powerbor® Weldon Shank Spiral Point Taps)			
ARBOR	M.T.3 to 3/4" Weldon Shank			

* The load and no load speeds on the PB70 FRV are the same, this is because the machine has electronic feedback control so it tries to maintain speed under load, so the load speed stays the same as the no load speed until it reaches its limits.

** Cutters larger than 65mm need optional 1.1/4" arbor.

See PB70 FRV user manual for complete specification at www.gjhall.co.uk



Contact us for availability of this new machine added to the Powerbor® range

SAFETY GUARD...
Machine shown without Safety Guard for clarity

THE
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ELECTROMAGNETIC DRILLING SYSTEMS

PB100E

The Powerbor® PB100E has a larger magnet and 4 speed gearbox, increasing its flexibility for cutter size and difficult applications.

Optional swivel base allows for movement of the machine's body through 2 x 60° and a lateral movement of 22mm.

- Cutting capacity of 100mm
- Fitted with proven Eibenstock 1700W motor unit
- A complete coolant system is available as an option
- All Powerbor® standard features are backed by a full range of replacement spares

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18B100/110/EIB	18032	PB100E 110V
18B100S/110/EIB	18048	PB100E 110V Swivel Base
18B100/240/EIB	18043	PB100E 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
455mm/705mm	160mm/255mm	360mm	260mm	25kgs
TOTAL POWER	1795W			
MOTOR	1700W			
MAGNETIC ADHESION	2000kgs			
VOLTAGE	110V or 220-240V (AC supply)			
RATED LOAD SPEED	110, 175, 245, 385 rpm			
DEPTH OF CUT	50mm			
CUTTER CAPACITY	100mm*			
DRILLING CAPACITY	32mm			
ARBOR	M.T.3 to 3/4" Weldon Shank			

* Cutters larger than 65mm need optional 1.1/4" arbor.

See PB100E user manual for complete specification at www.gjhall.co.uk



SAFETY GUARD...
Machine shown without
Safety Guard for clarity

THE
Powerbor®
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PB100E FRV

The Powerbor® PB100E FRV is the forward, reverse and variable speed version of the PB100E. It brings a choice of tapping, cutting and drilling capability to our 100mm capacity magnetic drilling machine.

- Annular cutter capacity - Ø100mm (HSS / TCT)
- Forward/Reverse for tapping (M6 - M30)
- MT3 fitting for accessories or up to Ø32mm twist drill
- 4 geared speeds, all electronically variable
- Arbor depth of cut 50mm
- Torque boost and feedback control for speed
- Mechanical Clutch
- Electronic overload and thermal cut-out
- Optional coolant
- Optional MT3 drill chuck and key for large cutters
- Optional MT3 x 1-1/4" arbor for large cutters
- Optional swivel/adjustable base
- Carrying containing Safety strap, Safety guard, MT3 x 3/4" Weldon arbor, Hex keys / allen keys and drill drift

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18N110	18804	PB100E FRV 110V
18N230	18805	PB100E FRV 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
455mm/705mm	160mm/255mm	360mm	260mm	25kgs
TOTAL POWER	1795W			
MOTOR	1700W			
MAGNETIC ADHESION	2000kgs			
VOLTAGE	110/230V (AC supply)			
RATED LOAD SPEED	60-140, 100-230, 140-330, 220-510 rpm*			
DEPTH OF CUT	50mm			
CUTTER CAPACITY	100mm HSS 100mm TCT			
DRILLING CAPACITY	32mm			
TAPPING CAPACITY	M30 (with Powerbor® Weldon Shank Spiral Point Taps)			
ARBOR	M.T.3 to 3/4" Weldon Shank			

* The load and no load speeds on the PB100E FRV are the same, this is because the machine has electronic feedback control so it tries to maintain speed under load, so the load speed stays the same as the no load speed until it reaches its limits.

See PB100E FRV user manual for complete specification at www.gjhall.co.uk



Contact us for
availability of this
new machine
added to the
Powerbor® range

SAFETY GUARD...
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Safety Guard for clarity

THE
Powerbor®
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ELECTROMAGNETIC DRILLING SYSTEMS



Contact us for availability of this new machine added to the Powerbor® range

THE Powerbor® STANDARD
INCLUDED (SEE PAGE 4)

SAFETY GUARD...
Machine shown without Safety Guard for clarity

PB120-MT4

The Powerbor® PB120-MT4 is the largest capacity drill in the range. It brings a choice of tapping, cutting and drilling capability with up to 120mm x 75mm cutter capacity.

- Annular cutter capacity - Ø120mm (HSS / TCT)
- Forward/Reverse for tapping (M6 - M42)
- MT4 fitting for accessories or up to Ø38mm twist drill
- Arbor depth of cut 75mm
- 4 geared speeds
- Through the arbor coolant as standard
- Metal Carrying containing: Safety chain, MT4 x 3/4" Weldon arbor (75mm Depth of Cut), MT4 x 1.1/4" Weldon arbor (75mm Depth of Cut), MT4 fitting drill chuck Ø5 - 20mm capacity, 2 - 3 Morse Taper sleeve, 3 - 4 Morse Taper sleeve and Hex keys / allen keys, drill drift

12 months comprehensive warranty as standard

PART NUMBER	ITEM NO	DESCRIPTION
18M110	18802	PB120-MT4 110V
18M230	18803	PB120-MT4 230V

HEIGHT (Min/Max)	WIDTH (Min/Max)	DEPTH	TRAVEL	WEIGHT
660mm/790mm	130mm/205mm	430mm	75mm	32kgs

TOTAL POWER	2000W
MOTOR	1800W
MAGNETIC ADHESION	3200kgs
VOLTAGE	110V or 220-240V (AC supply)
RATED LOAD SPEED	50, 110, 160, 320 rpm
DEPTH OF CUT	75mm
CUTTER CAPACITY	120mm (HSS) 120mm (TCT)
DRILLING CAPACITY	38mm
TAPPING CAPACITY	M42

See PB120-MT4 user manual for complete specification at www.gjhall.co.uk

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Find out more about all our Powerbor® machines, including manuals and videos.

ELECTROMAGNETIC DRILLING SYSTEMS : MACHINE SPECIFICATIONS

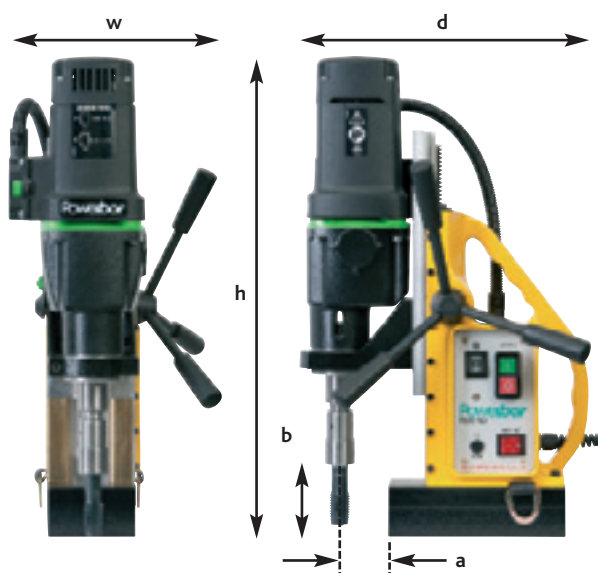
CUTTER RANGE		TWIST DRILL RANGE	
POWERBOR CUTTER Ø	POWERBOR MACHINE	TWIST DRILL Ø	POWERBOR MACHINE
Max 32mm	PB32-S	Max 13mm	PB35 • PB35 FRV
Max 38mm	PB35 • PB35 FRV	Max 18mm	PB32-S
Max 50mm	PB45-S	Max 20mm	PB45-S
Max 70mm	PB70/2 • PB70 FRV	Max 32mm	PB100E • PB100E SB • PB100E FRV
Max 100mm	PB100E • PB100E SB • PB100E FRV	Max 38mm	PB120-MT4
Max 120mm	PB120-MT4		

The hole making capacity on some of the machines can be extended using a Powerbor® Step Drill.

RATED LOAD SPEEDS									
SPINDLE RPM	PB32-S	PB35	PB35 FRV	PB45-S	PB70/2	PB70 FRV	PB100E PB100E SB	PB100E FRV	PB120-MT4
50									
60									
70									
80									
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550									

 = variable speed
 = fixed or geared speed

 For no load speed see machine user manuals at www.gjhall.co.uk

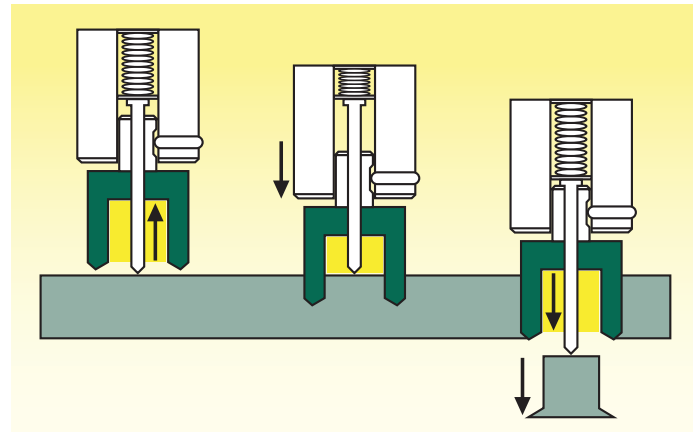


MACHINE DIMENSIONS (mm)								
MACHINE	HEIGHT Min/Max (h)	WIDTH Min/Max (w)	DEPTH (d)	TRAVEL (Stroke)	WEIGHT (kg)	MAGNET TO SPINDLE CL (a)	HEIGHT UNDER ARBOR (b)	MAGNET AREA
PB32-S	320/480	90/202	240	160	12.5	44	163	160 x 85
PB35	395/530	95/202	300	135	13.5	32.5	131.5	160 x 85
PB35 FRV	395/530	95/276	300	135	13.9	32.5	131.5	160 x 85
PB45-S	370/560	145/210	280	190	20	35	133	200 x 100
PB70/2	440/640	160/235	330	190	22	56	180	200 x 100
PB70 FRV	440/640	160/255	330	190	22	56	180	200 x 100
PB100E	455/705	160/255	360	260	25	75	230	220 x 110
PB100E SB	455/705	160/255	360	260	25	75	230	220 x 110
PB100E FRV	455/705	160/255	360	260	25	75	230	220 x 110
PB120-MT4	660/790	130/250	430	75	32	70	135	330 x 110

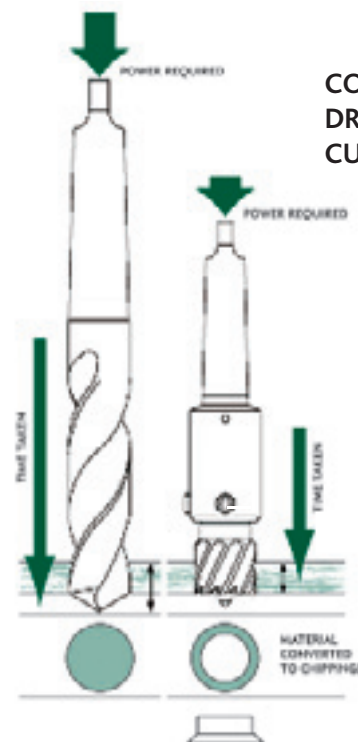
Height under spindle for PB32-S is 190mm with drill chuck fitted and 160mm with Powerbor arbor fitted.

ANNULAR CUTTERS

The Powerbor® complete cutting technology allows holes to be produced quicker and more efficiently, compared to conventional drills, and due to the cutter design, the load per tooth is greatly reduced; and the power used by the machine is kept to a minimum. This greatly increases productivity and the life expectancy of the machine.



Powerbor® cutters produce a solid slug of steel which is ejected when the cutter breaks through and the hole is complete. This reduces the problems experienced by the swarf and chips generated by conventional drilling.



COMPARISON OF TWIST DRILL AND BROACHING CUTTER PERFORMANCE



STANDARD M2 HSS CUTTERS

- For cutting general engineering and structural steels
- Dramatically outperform conventional twist drills, in terms of cutting speed and tool life
- *Available to size 12 - 65mm • Other sizes available to order*



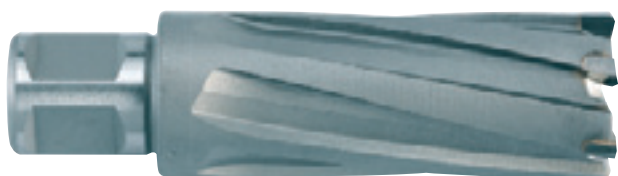
PREMIUM M42 COBALT CUTTERS

- Keep their cutting edge for longer than standard HSS - producing more holes between resharpening, reducing the cost per cut and increasing productivity
- *Available to size 12 - 65mm • Other sizes available to order*



BLUE CUTTERS

- Distinctive 'blue' finish provides improved cutter properties and improved cutting performance
- Improved wear resistance, reducing friction and minimising 'pick up' of work piece material
- Greatly enhanced cutting tool life - three times longer - even without coolant
- Less stress on the drilling machine motor, leading to longer machine life
- *Available to size 12 - 65mm • Other sizes available to order*



TUNGSTEN CARBIDE CUTTERS

- Suitable for drilling harder materials such as stainless steel, castings and higher grade wear resistant steels
- *Available to size 18 - 65mm • Other sizes available to order*

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For full specifications and technical data



ANNULAR CUTTERS : SPECIFICATIONS

POWERBOR® STANDARD M2 HSS - METRIC

POWERBOR® STANDARD M2 HSS CUTTERS CUT DEPTH 25mm 3/4" Shank		
PART NUMBER	ITEM NO	DIA mm
20AAM12*	40002	12
20AAM13	40004	13
20AAM14	40006	14
20AAM15	40008	15
20AAM16	40010	16
20AAM17	40012	17
20AAM18	40014	18
20AAM19	40016	19
20AAM20	40018	20
20AAM21	40020	21
20AAM22	40022	22
20AAM23	40024	23
20AAM24	40026	24
20AAM25	40028	25
20AAM26	40030	26
20AAM27	40032	27
20AAM28	40034	28
20AAM29	40036	29
20AAM30	40038	30
20AAM31	40040	31
20AAM32	40042	32
20AAM33	40044	33
20AAM34	40046	34
20AAM35	40048	35
20AAM36	40050	36
20AAM37	40052	37
20AAM38	40054	38
20AAM39	40056	39
20AAM40	40058	40
20AAM41	40060	41
20AAM42	40062	42
20AAM43	40064	43
20AAM44	40066	44
20AAM45	40068	45
20AAM46	40070	46
20AAM47	40072	47
20AAM48	40074	48
20AAM49	40076	49
20AAM50	40078	50
20AAM51	40080	51
20AAM52	40082	52
20AAM53	40084	53
20AAM54	40086	54
20AAM55	40088	55
20AAM56	40090	56
20AAM57	40092	57
20AAM58	40094	58
20AAM59	40096	59
20AAM60	40098	60
20AAM61	40000	61
20AAM62	40102	62
20AAM63	40104	63
20AAM64	40106	64
20AAM65	40108	65
EJECTOR/PILOT PIN • Part No : 20ZASR • Item No : 41002 Except * • Part No : 20ZAXL100P-7/16 • Item No : 41004		

Other cutting diameters to order

POWERBOR® STANDARD M2 HSS CUTTERS CUT DEPTH 50mm 3/4" Shank		
PART NUMBER	ITEM NO	DIA mm
20ABM12*	40114	12
20ABM13	40116	13
20ABM14	40118	14
20ABM15	40120	15
20ABM16	40122	16
20ABM17	40124	17
20ABM18	40126	18
20ABM19	40128	19
20ABM20	40130	20
20ABM21	40132	21
20ABM22	40134	22
20ABM23	40136	23
20ABM24	40138	24
20ABM25	40140	25
20ABM26	40142	26
20ABM27	40144	27
20ABM28	40146	28
20ABM29	40148	29
20ABM30	40150	30
20ABM31	40152	31
20ABM32	40154	32
20ABM33	40156	33
20ABM34	40158	34
20ABM35	40160	35
20ABM36	40162	36
20ABM37	40164	37
20ABM38	40166	38
20ABM39	40168	39
20ABM40	40170	40
20ABM41	40172	41
20ABM42	40174	42
20ABM43	40176	43
20ABM44	40178	44
20ABM45	40180	45
20ABM46	40182	46
20ABM47	40184	47
20ABM48	40186	48
20ABM49	40188	49
20ABM50	40190	50
20ABM51	40192	51
20ABM52	40194	52
20ABM53	40196	53
20ABM54	40198	54
20ABM55	40200	55
20ABM56	40202	56
20ABM57	40204	57
20ABM58	40206	58
20ABM59	40208	59
20ABM60	40210	60
20ABM61	40212	61
20ABM62	40214	62
20ABM63	40216	63
20ABM64	40218	64
20ABM65	40220	65
EJECTOR/PILOT PIN • Part No : 20ZALR • Item No : 41000 Except * • Part No : 20ZAXL200P-7/16 • Item No : 41005		

Other cutting diameters to order

POWERBOR® STANDARD M2 HSS - IMPERIAL

POWERBOR® STANDARD M2 HSS CUTTERS CUT DEPTH 1" 3/4" Shank		
PART NUMBER	ITEM NO	DIA inch
20AN7/16*	40278	7/16
20AN1/2	40250	1/2
20AN9/16	40280	9/16
20AN5/8	20251	5/8
20AN11/16	40251	11/16
20AN3/4	40276	3/4
20AN13/16	40252	13/16
20AN7/8	40279	7/8
20AN15/16	40253	15/16
20AN1	40234	1
20AN1.1/16	40235	1.1/16
20AN1.1/8	40238	1.1/8
20AN1.3/16	40242	1.3/16
20AN1.1/4	40237	1.1/4
20AN1.5/16	40245	1.5/16
20AN1.3/8	40244	1.3/8
20AN1.7/16	40247	1.7/16
20AN1.1/2	40236	1.1/2
20AN1.9/16	40249	1.9/16
20AN1.5/8	40246	1.5/8
20AN1.11/16	40239	1.11/16
20AN1.3/4	40243	1.3/4
20AN1.13/16	40240	1.13/16
20AN1.7/8	40248	1.7/8
20AN1.15/16	40241	1.15/16
20AN2	40255	2
20AN2.1/16	40515	2.1/16
20AN2.1/8	40518	2.1/8
20AN2.3/16	40522	2.3/16
20AN2.1/4	40517	2.1/4
EJECTOR/PILOT PIN • Part No : 20ZASR • Item No : 41002 Except * • Part No : 20ZAXL100P-7/16 • Item No : 41004		

Other cutting diameters to order

POWERBOR® STANDARD M2 HSS CUTTERS CUT DEPTH 2" 3/4" Shank		
PART NUMBER	ITEM NO	DIA inch
20AO7/16*	40334	7/16
20AO1/2	40301	1/2
20AO9/16	40336	9/16
20AO5/8	40333	5/8
20AO11/16	40302	11/16
20AO3/4	40330	3/4
20AO13/16	40303	13/16
20AO7/8	40335	7/8
20AO15/16	40304	15/16
20AO1	40281	1
20AO1.1/16	40282	1.1/16
20AO1.1/8	40285	1.1/8
20AO1.3/16	40291	1.3/16
20AO1.1/4	40284	1.1/4
20AO1.5/16	40295	1.5/16
20AO1.3/8	40294	1.3/8
20AO1.7/16	40297	1.7/16
20AO1.1/2	40283	1.1/2
20AO1.9/16	40300	1.9/16
20AO1.5/8	40296	1.5/8
20AO1.11/16	40286	1.11/16
20AO1.3/4	40293	1.3/4
20AO1.13/16	40288	1.13/16
20AO1.7/8	40299	1.7/8
20AO1.15/16	40289	1.15/16
20AO2	40306	2
20AO2.1/16	40558	2.1/16
20AO2.1/8	40561	2.1/8
20AO2.3/16	40565	2.3/16
20AO2.1/4	40560	2.1/4
EJECTOR/PILOT PIN • Part No : 20ZALR • Item No : 41000 Except * • Part No : 20ZAXL200P-7/16 • Item No : 41005		

Other cutting diameters to order

POWERBOR® STANDARD M2 HSS CUTTERS CUT DEPTH 1" 1.1/4" Shank		
PART NUMBER	ITEM NO	DIA inch
20AN2.5/16	40525	2.5/16
20AN2.3/8	40524	2.3/8
20AN2.7/16	40527	2.7/16
20AN2.1/2	40516	2.1/2
20AN2.9/16	40529	2.9/16
20AN2.5/8	40526	2.5/8
20AN2.11/16	40519	2.11/16
20AN2.3/4	40523	2.3/4
20AN2.13/16	40520	2.13/16
20AN2.7/8	40528	2.7/8
20AN2.15/16	40521	2.15/16
20AN3	40530	3
20AN3.1/16	20257	3.1/16
20AN3.1/8	20260	3.1/8
20AN3.3/16	20263	3.3/16
20AN3.1/4	20259	3.1/4
20AN3.5/16	20266	3.5/16
20AN3.3/8	20265	3.3/8
20AN3.1/2	20258	3.1/2
20AN3.9/16	20269	3.9/16
20AN3.5/8	20267	3.5/8
20AN3.3/4	20264	3.3/4
20AN3.13/16	20261	3.13/16
20AN3.7/8	20268	3.7/8
20AN3.15/16	20262	3.15/16
20AN4	40532	4
EJECTOR/PILOT PIN • Part No : 20ZASR • Item No : 41002		

Other cutting diameters to order

POWERBOR® STANDARD M2 HSS CUTTERS CUT DEPTH 2" 1.1/4" Shank		
PART NUMBER	ITEM NO	DIA inch
20AO2.5/16	40568	2.5/16
20AO2.3/8	40567	2.3/8
20AO2.7/16	40570	2.7/16
20AO2.1/2	40559	2.1/2
20AO2.9/16	40572	2.9/16
20AO2.5/8	40569	2.5/8
20AO2.11/16	40562	2.11/16
20AO2.3/4	40566	2.3/4
20AO2.13/16	40563	2.13/16
20AO2.7/8	40571	2.7/8
20AO2.15/16	40564	2.15/16
20AO3	40573	3
20AO3.1/16	40574	3.1/16
20AO3.1/8	40577	3.1/8
20AO3.3/16	20280	3.3/16
20AO3.1/4	40576	3.1/4
20AO3.5/16	40578	3.5/16
20AO3.3/8	20282	3.3/8
20AO3.1/2	40575	3.1/2
20AO3.9/16	20285	3.9/16
20AO3.5/8	20283	3.5/8
20AO3.3/4	20281	3.3/4
20AO3.13/16	20278	3.13/16
20AO3.7/8	20284	3.7/8
20AO3.15/16	20279	3.15/16
20AO4	20286	4
EJECTOR/PILOT PIN • Part No : 20ZALR • Item No : 41000		

Other cutting diameters to order

ANNULAR CUTTERS : SPECIFICATIONS

POWERBOR® PREMIUM M42 COBALT - METRIC

POWERBOR® PREMIUM M42 COBALT CUTTERS CUT DEPTH 25mm 3/4" Shank			POWERBOR® PREMIUM M42 COBALT CUTTERS CUT DEPTH 50mm 3/4" Shank		
PART NUMBER	ITEM NO	DIA mm	PART NUMBER	ITEM NO	DIA mm
20BAM12*	40624	12	20BBM12*	40742	12
20BAM13	40626	13	20BBM13	40744	13
20BAM14	40628	14	20BBM14	40746	14
20BAM15	40630	15	20BBM15	40748	15
20BAM16	40632	16	20BBM16	40750	16
20BAM17	40634	17	20BBM17	40752	17
20BAM18	40636	18	20BBM18	40754	18
20BAM19	40638	19	20BBM19	40756	19
20BAM20	40640	20	20BBM20	40758	20
20BAM21	40642	21	20BBM21	40761	21
20BAM22	40644	22	20BBM22	40763	22
20BAM23	40646	23	20BBM23	40765	23
20BAM24	40648	24	20BBM24	40767	24
20BAM25	40650	25	20BBM25	40769	25
20BAM26	40652	26	20BBM26	40771	26
20BAM27	40654	27	20BBM27	40773	27
20BAM28	40656	28	20BBM28	40775	28
20BAM29	40658	29	20BBM29	40777	29
20BAM30	40660	30	20BBM30	40779	30
20BAM31	40662	31	20BBM31	40781	31
20BAM32	40664	32	20BBM32	40783	32
20BAM33	40666	33	20BBM33	40785	33
20BAM34	40668	34	20BBM34	40787	34
20BAM35	40670	35	20BBM35	40789	35
20BAM36	40672	36	20BBM36	40791	36
20BAM37	40674	37	20BBM37	40793	37
20BAM38	40676	38	20BBM38	40795	38
20BAM39	40678	39	20BBM39	40797	39
20BAM40	40680	40	20BBM40	40799	40
20BAM41	40682	41	20BBM41	40801	41
20BAM42	40684	42	20BBM42	40803	42
20BAM43	40686	43	20BBM43	40805	43
20BAM44	40688	44	20BBM44	40807	44
20BAM45	40690	45	20BBM45	40809	45
20BAM46	40692	46	20BBM46	40811	46
20BAM47	40694	47	20BBM47	40813	47
20BAM48	40696	48	20BBM48	40815	48
20BAM49	40698	49	20BBM49	40817	49
20BAM50	40700	50	20BBM50	40819	50
20BAM51	40702	51	20BBM51	40821	51
20BAM52	40704	52	20BBM52	40823	52
20BAM53	40706	53	20BBM53	40825	53
20BAM54	40708	54	20BBM54	40827	54
20BAM55	40710	55	20BBM55	40829	55
20BAM56	40712	56	20BBM56	40831	56
20BAM57	40714	57	20BBM57	40833	57
20BAM58	40716	58	20BBM58	40835	58
20BAM59	40718	59	20BBM59	40837	59
20BAM60	40720	60	20BBM60	40839	60
20BAM61	40722	61	20BBM61	40841	61
20BAM62	40724	62	20BBM62	40843	62
20BAM63	40726	63	20BBM63	40845	63
20BAM64	40728	64	20BBM64	40847	64
20BAM65	40730	65	20BBM65	40849	65
EJECTOR/PILOT PIN • Part No : 20ZASR • Item No : 41002 Except * • Part No : 20ZAXL100P-7/16 • Item No : 41004			EJECTOR/PILOT PIN • Part No : 20ZALR • Item No : 41000 Except * • Part No : 20ZAXL200P-7/16 • Item No : 41005		
Other cutting diameters to order			Other cutting diameters to order		

POWERBOR® PREMIUM M42 COBALT - IMPERIAL

POWERBOR® PREMIUM M42 COBALT CUTTERS CUT DEPTH 1" 3/4" Shank			POWERBOR® PREMIUM M42 COBALT CUTTERS CUT DEPTH 2" 3/4" Shank		
PART NUMBER	ITEM NO	DIA inch	PART NUMBER	ITEM NO	DIA inch
20BE7/16*	20182	7/16	20BF7/16*	20335	7/16
20BE1/2	20174	1/2	20BF1/2	20326	1/2
20BE9/16	20184	9/16	20BF9/16	20337	9/16
20BE5/8	20181	5/8	20BF5/8	20334	5/8
20BE11/16	20175	11/16	20BF11/16	20327	11/16
20BE3/4	20180	3/4	20BF3/4	20333	3/4
20BE13/16	20176	13/16	20BF13/16	20328	13/16
20BE7/8	20183	7/8	20BF7/8	20336	7/8
20BE15/16	20177	15/16	20BF15/16	20329	15/16
20BE1	20158	1	20BF1	20310	1
20BE1.1/16	20159	1.1/16	20BF1.1/16	20311	1.1/16
20BE1.1/8	20162	1.1/8	20BF1.1/8	20314	1.1/8
20BE1.3/16	20166	1.3/16	20BF1.3/16	20318	1.3/16
20BE1.1/4	20161	1.1/4	20BF1.1/4	20313	1.1/4
20BE1.5/16	20169	1.5/16	20BF1.5/16	20321	1.5/16
20BE1.3/8	20168	1.3/8	20BF1.3/8	20320	1.3/8
20BE1.7/16	20171	1.7/16	20BF1.7/16	20323	1.7/16
20BE1.1/2	20160	1.1/2	20BF1.1/2	20312	1.1/2
20BE1.9/16	20173	1.9/16	20BF1.9/16	20325	1.9/16
20BE1.5/8	20170	1.5/8	20BF1.5/8	20322	1.5/8
20BE1.11/16	20163	1.11/16	20BF1.11/16	20315	1.11/16
20BE1.3/4	20167	1.3/4	20BF1.3/4	20319	1.3/4
20BE1.13/16	20164	1.13/16	20BF1.13/16	20316	1.13/16
20BE1.7/8	20172	1.7/8	20BF1.7/8	20324	1.7/8
20BE1.15/16	20165	1.15/16	20BF1.15/16	20317	1.15/16
20BE2	20178	2	20BF2	20330	2
20BE2.1/16	20179	2.1/16	20BF2.1/16	20331	2.1/16
EJECTOR/PILOT PIN • Part No : 20ZASR • Item No : 41002 Except * • Part No : 20ZAXL100P-7/16 • Item No : 41004			EJECTOR/PILOT PIN • Part No : 20ZALR • Item No : 41000 Except * • Part No : 20ZAXL200P-7/16 • Item No : 41005		
Other cutting diameters to order			Other cutting diameters to order		

SPECIAL SIZES

Other cutting diameters and cut depth (DOC) to order.
Contact us for details.

SCAN THE QR CODE...

For full specifications and technical data



ANNULAR CUTTERS : SPECIFICATIONS

POWERBOR® BLUE - METRIC

POWERBOR® BLUE CUTTERS CUT DEPTH 25mm 3/4" Shank		
PART NUMBER	ITEM NO	DIA mm
20AJM12*	40386	12
20AJM13	40387	13
20AJM14	40388	14
20AJM15	40389	15
20AJM16	40390	16
20AJM17	40391	17
20AJM18	40392	18
20AJM19	40393	19
20AJM20	40394	20
20AJM21	40395	21
20AJM22	40396	22
20AJM23	40397	23
20AJM24	40398	24
20AJM25	40399	25
20AJM26	40400	26
20AJM27	40401	27
20AJM28	40402	28
20AJM29	40403	29
20AJM30	40404	30
20AJM31	40405	31
20AJM32	40406	32
20AJM33	40407	33
20AJM34	40408	34
20AJM35	40409	35
20AJM36	40410	36
20AJM37	40411	37
20AJM38	40412	38
20AJM39	40413	39
20AJM40	40414	40
20AJM41	40415	41
20AJM42	40416	42
20AJM43	40417	43
20AJM44	40418	44
20AJM45	40419	45
20AJM46	40420	46
20AJM47	40421	47
20AJM48	40422	48
20AJM49	40423	49
20AJM50	40424	50
20AJM51	40425	51
20AJM52	40426	52
20AJM53	40427	53
20AJM54	40428	54
20AJM55	40429	55
20AJM56	40430	56
20AJM57	40431	57
20AJM58	40432	58
20AJM59	40433	59
20AJM60	40434	60
20AJM61	40435	61
20AJM62	40436	62
20AJM63	40437	63
20AJM64	40438	64
20AJM65	40439	65
EJECTOR/PILOT PIN • Part No : 20ZASR • Item No : 41002 Except * • Part No : 20ZAXL100P-7/16 • Item No : 41004		

Other cutting diameters to order

POWERBOR® BLUE CUTTERS CUT DEPTH 50mm 3/4" Shank		
PART NUMBER	ITEM NO	DIA mm
20AKM12*	40440	12
20AKM13	40441	13
20AKM14	40442	14
20AKM15	40443	15
20AKM16	40444	16
20AKM17	40445	17
20AKM18	40446	18
20AKM19	40447	19
20AKM20	40448	20
20AKM21	40449	21
20AKM22	40450	22
20AKM23	40451	23
20AKM24	40452	24
20AKM25	40453	25
20AKM26	40454	26
20AKM27	40455	27
20AKM28	40456	28
20AKM29	40457	29
20AKM30	40458	30
20AKM31	40459	31
20AKM32	40460	32
20AKM33	40461	33
20AKM34	40462	34
20AKM35	40463	35
20AKM36	40464	36
20AKM37	40465	37
20AKM38	40466	38
20AKM39	40467	39
20AKM40	40468	40
20AKM41	40469	41
20AKM42	40470	42
20AKM43	40471	43
20AKM44	40472	44
20AKM45	40473	45
20AKM46	40474	46
20AKM47	40475	47
20AKM48	40476	48
20AKM49	40477	49
20AKM50	40478	50
20AKM51	40479	51
20AKM52	40480	52
20AKM53	40481	53
20AKM54	40482	54
20AKM55	40483	55
20AKM56	40484	56
20AKM57	40485	57
20AKM58	40486	58
20AKM59	40487	59
20AKM60	40488	60
20AKM61	40489	61
20AKM62	40490	62
20AKM63	40491	63
20AKM64	40492	64
20AKM65	40493	65
EJECTOR/PILOT PIN • Part No : 20ZALR • Item No : 41000 Except * • Part No : 20ZAXL200P-7/16 • Item No : 41005		

Other cutting diameters to order

POWERBOR® TUNGSTEN CARBIDE - METRIC

POWERBOR® TUNGSTEN CARBIDE CUTTERS CUT DEPTH 35mm 3/4" Shank		
PART NUMBER	ITEM NO	DIA mm
20CAM12	57859	12
20CAM13	57860	13
20CAM14	57861	14
20CAM15	57862	15
20CAM16	20367	16
20CAM17	20368	17
20CAM18	40882	18
20CAM19	40884	19
20CAM20	40886	20
20CAM21	40888	21
20CAM22	40890	22
20CAM23	40892	23
20CAM24	40894	24
20CAM25	40896	25
20CAM26	40898	26
20CAM27	40900	27
20CAM28	40902	28
20CAM29	40904	29
20CAM30	40906	30
20CAM31	40908	31
20CAM32	40910	32
20CAM33	40912	33
20CAM34	40914	34
20CAM35	40916	35
20CAM36	40918	36
20CAM37	40920	37
20CAM38	40922	38
20CAM39	40924	39
20CAM40	40926	40
20CAM41	40928	41
20CAM42	40930	42
20CAM43	40932	43
20CAM44	40934	44
20CAM45	40936	45
20CAM46	40938	46
20CAM47	40940	47
20CAM48	40942	48
20CAM49	40944	49
20CAM50	40946	50
EJECTOR/PILOT PIN • Part No : 20ZAT35 • Item No : 41011		

Other cutting diameters to order

POWERBOR® TUNGSTEN CARBIDE CUTTERS CUT DEPTH 50mm 3/4" Shank		
PART NUMBER	ITEM NO	DIA mm
20CBM12	20501	12
20CBM13	20502	13
20CBM14	20503	14
20CBM15	20504	15
20CBM16	20505	16
20CBM17	20506	17
20CBM18	20464	18
20CBM19	20507	19
20CBM20	20465	20
20CBM21	20508	21
20CBM22	20466	22
20CBM23	20509	23
20CBM24	20467	24
20CBM25	20468	25
20CBM26	20469	26
20CBM27	20510	27
20CBM28	20470	28
20CBM29	20511	29
20CBM30	20471	30
20CBM31	20512	31
20CBM32	20472	32
20CBM33	20473	33
20CBM34	20474	34
20CBM35	20475	35
20CBM36	20476	36
20CBM37	20477	37
20CBM38	20478	38
20CBM39	20513	39
20CBM40	20479	40
20CBM41	20514	41
20CBM42	20515	42
20CBM43	20516	43
20CBM44	20480	44
20CBM45	20517	45
20CBM46	20518	46
20CBM47	20519	47
20CBM48	20481	48
20CBM49	20520	49
20CBM50	20482	50
EJECTOR/PILOT PIN • Part No : 20ZAT50 • Item No : 41012		

Other cutting diameters to order

SPECIAL SIZES

Other cutting diameters and cut depth (DOC) to order.
Contact us for details.

SCAN THE QR CODE...

For full specifications and technical data



ANNULAR CUTTER KITS

POWERBOR® ANNULAR CUTTER KITS



PB4 (20K04)



PB7 (20K07)



PB4BLUE (20K04BLUE)



PB7BLUE (20K07BLUE)



POWERBOR® ANNULAR CUTTER KITS

PART NUMBER	ITEM NUMBER	INCLUDES
PB4 (20K04)	40994	25mm DOC M14, M16, M18, M20, M22 Powerbor® M2 HSS Cutters
PB7 (20K07)	40996	50mm DOC M14, M16, M18, M20, M22 Powerbor® M2 HSS Cutters
PB4BLUE (20K04BLUE)	40997	25mm DOC M14, M16, M18, M20, M22 Powerbor® M2 Blue Cutters
PB7BLUE (20K07BLUE)	40995	50mm DOC M14, M16, M18, M20, M22 Powerbor® M2 Blue Cutters

All kits include pins

ANNULAR CUTTERS : SPECIFICATIONS

RAIL CUTTERS



Normal/Standard/260 Grade HP Rail Grade • Head Hardened

The cutters are designed to produce high quality accurate holes in the toughest rail grades in use.

Suitable for all rail drilling machines that have a 3/4" (19.05mm) arbor bore.

METRIC SIZES:

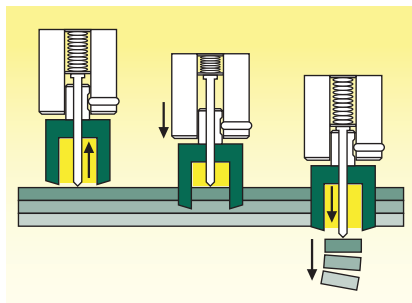
- Cutting diameters are 21mm to 40mm
- Standard depth of cut (DOC) is 25mm, and 35mm & 50mm DOC on request

IMPERIAL SIZES:

- Cutting diameters are 7/8" to 1 1/2"
- Standard depth of cut (DOC) is 1", and 1 3/8" & 2" DOC on request

Full details available on request.

STACK CUTTERS



A clear breakthrough is essential when drilling stacked plates. The Powerbor® Stack Cutter has specially designed cutting edges and flutes to provide better chip clearance and offers high cutting performance.

- Purpose designed for drilling a combination of stacked plates
- More cutting edges for greater cutting efficiency
- Smoother surface of cut with multiple edges

Full details available on request.



ANNULAR CUTTER SPEED RECOMMENDATIONS

CUTTER DIAMETER	HIGH TENSILE STEEL	MILD STEEL
MM	RPM	RPM
12	239	637
14	205	546
16	179	477
18	159	424
20	143	382
22	130	347
24	119	318
26	110	294
28	102	273
30	95	255
32	90	239
34	84	225
36	80	212
38	75	201
40	72	191
42	68	182
44	65	174
46	62	166
48	60	159
50	57	153
52	55	147
54	53	141
56	51	136
58	49	132
60	48	127
62	46	123
64	45	119
66	43	116
68	42	112
70	41	109
72	40	106
74	39	103
76	38	101
78	37	98
80	36	95
82	35	93
84	34	91
86	33	89
88	33	87
90	32	85
92	31	83
94	30	81
96	30	80
98	29	78
100	29	76

CUTTER DIAMETER	HIGH TENSILE STEEL	MILD STEEL
INCH	RPM	RPM
7/16	262	698
1/2	229	611
9/16	204	543
5/8	183	489
11/16	167	444
3/4	153	407
13/16	141	376
7/8	131	349
15/16	122	326
1	115	306
1.1/16	108	288
1.1/8	102	272
1.3/16	96	257
1.1/4	92	244
1.5/16	87	233
1.3/8	83	222
1.7/16	80	213
1.1/2	76	204
1.9/16	73	196
1.5/8	71	188
1.11/16	68	181
1.3/4	65	175
1.13/16	63	169
1.7/8	61	163
1.15/16	59	158
2	57	153
2.1/16	56	148
2.1/8	54	144
2.3/16	52	140
2.1/4	51	136
2.5/16	50	132
2.3/8	48	129
2.7/16	47	125
2.1/2	46	122
2.9/16	45	119
2.5/8	44	116
2.11/16	43	114
2.3/4	42	111
2.13/16	41	109
2.7/8	40	106
2.15/16	39	104
3	38	102
3.1/16	37	100
3.1/8	37	98
3.3/16	36	96
3.1/4	35	94
3.5/16	35	92
3.3/8	34	91
3.7/16	33	89
3.1/2	33	87
3.9/16	32	86
3.5/8	32	84
3.11/16	31	83
3.3/4	31	81
3.13/16	30	80
3.7/8	30	79
3.15/16	29	78
4	29	76

PERIPHERAL SPEED

MILD STEEL: 24m/min - 80ft/min

HIGH TENSILE STEEL: 9m/min - 30ft/min

ACCESSORIES

The Powerbor® Step Drill offers advantages over conventional drilling and cutting methods and can be used for many different industrial applications.

The unique design of the Powerbor® Step Drill allows a number of popular hole sizes to be drilled with just one tool.

STEP DRILLS - FIVE STEPS



PART NUMBER	ITEM NO	DESCRIPTION - METRIC
19X8M5	19000	Step Drill - Starter - 8, 10, 12, 14, 16mm - 12mm plate - with 3/4" Weldon Shank
19X10M5	19002	Step Drill - Starter - 10, 12, 14, 16, 18mm - 12mm plate - with 3/4" Weldon Shank
19X20M5	19004	Step Drill - Starter - 20, 22, 24, 26, 28mm - 12mm plate - with 3/4" Weldon Shank
19X30M5	19006	Step Drill - Follow on - 30, 32, 34, 36, 38mm - 12mm plate - with 3/4" Weldon Shank
19X40M5	19008	Step Drill - Follow on - 40, 42, 44, 46, 48mm - 12mm plate - with 3/4" Weldon Shank

PART NUMBER	ITEM NO	DESCRIPTION - IMPERIAL
19X5/16E5	19040	Step Drill - Starter - 5/16, 3/8, 7/16, 1/2, 9/16" - 12mm plate - with 3/4" Weldon Shank
19X3/8E5	19042	Step Drill - Starter - 3/8, 7/16, 1/2, 9/16, 5/8" - 12mm plate - with 3/4" Weldon Shank
19X11/16E5	19044	Step Drill - Starter - 11/16, 3/4, 13/16, 7/8, 15/16" - 12mm plate - with 3/4" Weldon Shank
19X1E5	19046	Step Drill - Follow on - 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4" - 12mm plate - with 3/4" Weldon Shank
19X1.5/16E5	19048	Step Drill - Follow on - 1.5/16, 1.3/8, 1.7/16, 1.1/2, 1.9/16" - 12mm plate - with 3/4" Weldon Shank
19X1.5/8E5	19050	Step Drill - Follow on - 1.5/8, 1.11/16, 1.3/4, 1.13/16, 1.7/8" - 12mm plate - with 3/4" Weldon Shank
19X1.15/16E5	19052	Step Drill - Follow on - 1.15/16, 2, 2.1/16, 2.1/8, 2.3/16" - 12mm plate - with 3/4" Weldon Shank

STEP DRILLS - THREE STEPS

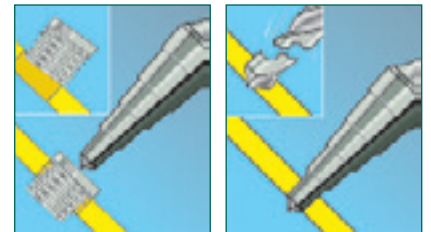


PART NUMBER	ITEM NO	DESCRIPTION - METRIC
19X10M3	19020	Step Drill - Starter - 10, 12, 14mm - 25mm plate - with 3/4" Weldon Shank
19X16M3	19022	Step Drill - Starter - 16, 18, 20mm - 25mm plate - with 3/4" Weldon Shank
19X22M3	19024	Step Drill - Follow on - 22, 24, 26mm - 25mm plate - with 3/4" Weldon Shank
19X28M3	19026	Step Drill - Follow on - 28, 30, 32mm - 25mm plate - with 3/4" Weldon Shank
19X34M3	19028	Step Drill - Follow on - 34, 36, 38mm - 25mm plate - with 3/4" Weldon Shank
19X40M3	19030	Step Drill - Follow on - 40, 42, 44mm - 25mm plate - with 3/4" Weldon Shank
19X46M3	19032	Step Drill - Follow on - 46, 48, 50mm - 25mm plate - with 3/4" Weldon Shank

PART NUMBER	ITEM NO	DESCRIPTION - IMPERIAL
19X7/16E3	19060	Step Drill - Starter - 7/16, 1/2, 9/16" - 25mm plate - with 3/4" Weldon Shank
19X5/8E3	19062	Step Drill - Starter - 5/8, 11/16, 3/4" - 25mm plate - with 3/4" Weldon Shank
19X13/16E3	19064	Step Drill - Follow on - 13/16, 7/8, 15/16" - 25mm plate - with 3/4" Weldon Shank
19X1E3	19066	Step Drill - Follow on - 1, 1.1/16, 1.1/8" - 25mm plate - with 3/4" Weldon Shank
19X1.3/16E3	19068	Step Drill - Follow on - 1.3/16, 1.1/4, 1.5/16" - 25mm plate - with 3/4" Weldon Shank
19X1.3/8E3	19070	Step Drill - Follow on - 1.3/8, 1.7/16, 1.1/2" - 25mm plate - with 3/4" Weldon Shank
19X1.9/16E3	19072	Step Drill - Follow on - 1.9/16, 1.5/8, 1.11/16" - 25mm plate - with 3/4" Weldon Shank
19X1.3/4E3	19074	Step Drill - Follow on - 1.3/4, 1.13/16, 1.7/8" - 25mm plate - with 3/4" Weldon Shank
19X1.15/16E3	19076	Step Drill - Follow on - 1.15/16, 2, 2.1/16" - 25mm plate - with 3/4" Weldon Shank

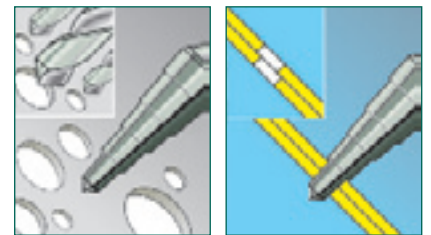


ADVANTAGES OVER CONVENTIONAL DRILLS AND ANNULAR CUTTERS:



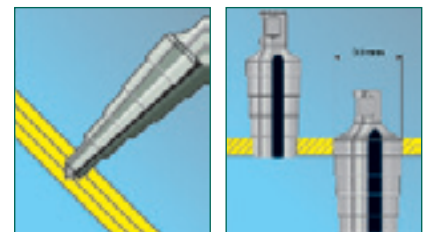
Easy to enlarge holes

Increased rigidity



3 or 5 drill sizes on 1 tool

Rectify out of line holes



Drill through several stacked plates

Increased maximum diameter capability of Powerbor® Drilling Machine

PLEASE NOTE:

The recommended drilling speed for each step of the Powerbor® Step Drill is the same as for the equivalent size HSS cutter shown on page 16.

SCAN THE QR CODE...



Check out technical information on Step Drills and compatibility with Powerbor® machines

ACCESSORIES

This is the complete drill/tap solution, ranging from M6 to M24. The Powerbor® Drill/Tap delivers great time and efficiency savings when compared to conventional tapping applications.

2-IN-1 DRILL TAP

Provides top quality threads every time, the 2-in-1 Drill/Tap is one tool that drills and taps. A great time saver, available in sizes M12, M16, M20 and M24. Also available as a handy set.



PART NUMBER	ITEM NO	DESCRIPTION
19AM12	19077	Drill Tap M12 x 1.75 - 2 in 1 with 3/4" Weldon Shank
19AM16	19078	Drill Tap M16 x 2.0 - 2 in 1 with 3/4" Weldon Shank
19AM20	19079	Drill Tap M20 x 2.5 - 2 in 1 with 3/4" Weldon Shank
19AM24	19080	Drill Tap M24 x 3.0 - 2 in 1 with 3/4" Weldon Shank

POWERBOR® COMBI DRILL/TAP KIT

Specially designed taps are used together with either Powerbor® Blue 1/4" Hex shank drills or Powerbor® Blue cutters for drilling the core diameters.

PART NUMBER	ITEM NO	DESCRIPTION
19KDT6	19205	Drill/Tap Kit M6 x 1.0 - with adaptor for 3/4" Weldon Shank
19KDT8	19206	Drill/Tap Kit M8 x 1.25 - with adaptor for 3/4" Weldon Shank
19KDT10	19200	Drill/Tap Kit M10 x 1.5 - with adaptor for 3/4" Weldon Shank

The Powerbor Combi Drill/Tap Kit eliminates the need for tapping attachments. The M6 - M10 combi range of drills and taps are used with a unique adaptor having a standard 3/4" dia 2 flat shank with a 1/4" Hex bit drive. Fitted in seconds it means threads can be drilled and tapped easily when required.



PART NUMBER	ITEM NO	DESCRIPTION
19KDT12	19201	Drill/Tap Kit M12 x 1.75 - annular cutter and tap with 3/4" Weldon Shank
19KDT16	19202	Drill/Tap Kit M16 x 2.0 - annular cutter and tap with 3/4" Weldon Shank
19KDT20	19203	Drill/Tap Kit M20 x 2.5 - annular cutter and tap with 3/4" Weldon Shank
19KDT24	19204	Drill/Tap Kit M24 x 3.0 - annular cutter and tap with 3/4" Weldon Shank

These kits come complete with ejector pin.

With the M12 - M24 range Powerbor® Blue cutters are used for core drilling.



POWERBOR® 2-IN-1 DRILL/TAP SET

PART NUMBER	ITEM NO	DESCRIPTION
19S1224	19217	Drill/Tap Kit M12, M16, M20, M24 - 2 in 1 with 3/4" Weldon Shank

All component parts can be purchased individually.



! See Page 21 for Spiral Point Taps

SCAN THE QR CODE...

Check out compatibility of Drill Taps with Powerbor® machines



ACCESSORIES

WELDON SHANK ARBORS

We have a large range of Weldon shank arbors to fit into our machines.

All machines are supplied with the standard arbor for that particular machine but there may be a need for a replacement or a longer depth of cut or conversion to coolant, etc.

Arbors are either 1/2" x 20 UN fitting, MT2, MT3 fitting Weldon shank sizes 3/4" and 1.1/4" are available (cutters up to 65mm are 3/4" shank - cutters above 65mm are 1.1/4" shank).

An MT3 to 3/4" Weldon Shank to Quick Release arbor is now available.



PART NUMBER	ITEM NO	DESCRIPTION
18Y130	18250	Arbor 1/2" - 20 UN to Weldon 3/4" - 1" DOC (STD)
18Y130/A	18251	Arbor 1/2" - 20 UN to Weldon 3/4" - 2" DOC (LONG)
18Y101	18236	Arbor Morse Taper 2 to 3/4" Weldon STD
18Y104	18239	Arbor Morse Taper 2 to 3/4" Weldon - Coolant
18Y102	18237	Arbor Morse Taper 3 to 3/4" to Weldon STD
18Y105	18240	Arbor Morse Taper 3 to 3/4" to Weldon - Coolant
18Y105/A	18241	Arbor Morse Taper 3 to 1.1/4" Weldon STD
18Y105/B	18242	Arbor Morse Taper 3 to 1.1/4" Weldon - Coolant
18Y106	18243	Arbor Morse Taper 4 to 1.1/4" Weldon - Coolant
18Y1220	95226	Arbor Morse Taper 3 Quick Release
18X691	68447	Arbor 1/2" - 20 UN to Weldon 3/4" - 2" DOC (PB35)

SCAN THE QR CODE...



Check out compatibility of all our Powerbor® Accessories with Powerbor® machines

DRILL CHUCKS

We stock a large range of quality Drill Chucks and Morse Taper arbors which can also be used in Powerbor® machines.

These allow the machines to use twist drills or any other plain shank cutting tool.

Chucks are available in capacities of 13mm, 16mm, 20mm.

Fittings are 1/2" x 20 UN, Morse Taper 2 or Morse Taper 3 (subject to machine capacity).

PART NUMBER	ITEM NO	DESCRIPTION
18ZA02B	18307	Chuck 1.5 - 13mm Capacity with 1/2" x 20 UN Thread (with KS2PK Key)
18Y109	06711	Chuck 1.5 - 16mm Capacity with Morse Taper 3 Arbor (with KS3 Key)
18Y111	18244	Chuck 1.5 - 16mm Capacity with Morse Taper 2 Arbor (with KS3 Key)
18Y1221	95229	Chuck 2.5mm-16mm Capacity - 1/2" x 20 UN Thread (with S2 Key)
18Y1222	95230	Chuck 2mm-13mm Capacity - 5/8" x 16 UN Thread (with K32 Key)
18Y1223	95231	Chuck 3.0mm-16mm Capacity - 5/8" x 16 UN Thread (with K3 Key)
18Y1224	95232	Chuck 5.0mm-20mm Capacity - 5/8" x 16 UN Thread (with K4 Key)
18Y1226	95234	Chuck 3.0mm-16mm Capacity - Jacobs 3JT Taper (with K3 Key)
18Y1227	95235	Chuck 5.0mm-20mm Capacity - Jacobs 3JT Taper (with K4 Key)



MORSE TAPER ARBORS AND MORSE TAPER SLEEVES

To compliment the Drill Chucks we also have a range of Morse Taper arbors and Sleeves.

Arbors are MT2/MT3.

Sleeves are MT1-2, MT2-3, MT3-4.

PART NUMBER	ITEM NO	DESCRIPTION
18X1228	95236	Arbor - MT2 to 5/8 x 16UN Thread
18Y1234	18542	Arbor - MT3 with 3JT mount
18Y1231	95238	Sleeve Morse Taper 1 - 2
18Y1232	95239	Sleeve Morse Taper 2 - 3
18Y1233	95240	Sleeve Morse Taper 3 - 4



ACCESSORIES

DRIFTS AND KEYS

Spare Chuck Keys and Drill Drifts are available as spares accessories.



PART NUMBER	ITEM NO	DESCRIPTION
18ZA01	18306	Chuck Key KS2PK
18Y1229	95242	Chuck Key KS3
18X1236	18537	Chuck Key Type K4
18X1235	18536	Chuck Key Type K3B
18X1230	18531	Drift for Morse Taper 2-3

CHUCK ADAPTORS

We have a range of various adaptors for use with Powerbor® machines and cutters.

The 3/4" Weldon to 1/2" x 20 UN Chuck adaptor allows a 1/2" x 20 threaded drill chuck to be quickly placed into any 3/4" Weldon arbor to allow the used of twist drills and plain shank cutters.

The 3/4" Weldon to 1/4" female hexagon allows the machine to be converted to accept any 1/4" hex shank cutter.

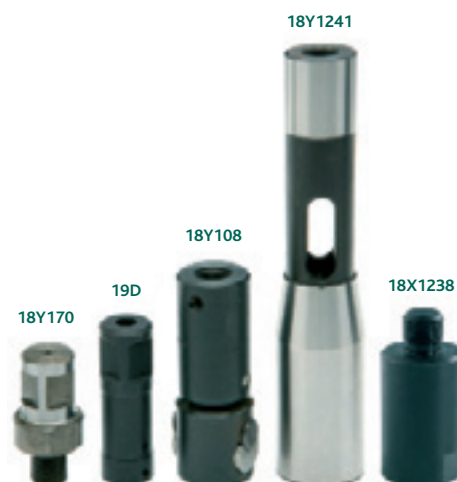
The 1/2" x 20 UN threaded Tap Chuck allows the PB32 Combi to use standard DIN taps (Square drive).

*The R8 to MT3 adaptor (used with our MT3 to 3/4" Arbor) allows Powerbor® cutters to be used in a Bridgeport type milling machine.**

Because to MT3 - 3/4" arbor is used the ejector pin mechanism will eject the slug as each hole is cut.

PART NUMBER	ITEM NO	DESCRIPTION
18Y170	18280	Adaptor 1/2" x 20 UN Thread to 3/4" Weldon
19D	19116	Adaptor 3/4" Weldon to 1/4" Female Hexagon
18Y108	18630	Adaptor 1/2" x 20 UN Thread Tap Chuck
*18Y1241	18544	Adaptor R8 to MT3 (To use with Powerbor® MT3 Arbor - Powerbor® cutters in milling m/c's)
18X1238	18867	Chuck Extension: 1. 1/2" long, 1/2" x 20 UN Threads

** For use with Powerbor® cutters in Bridgeport type milling machines.*



EXTENSION ARBORS

Arbor Extensions are used to extend the reach of the magnetic drilling machine.

This allows a machine to cut through say a box section where the material thickness may only be small but the sections to be cut through are 50mm, 75mm, 100mm etc apart.

Use of extension arbors may require additional machine guarding; depending on the application.

PART NUMBER	ITEM NO	DESCRIPTION
18Y1250	18545	Extension Arbor 50mm - 3/4" Weldon
18Y1251	18546	Extension Arbor 75mm - 3/4" Weldon
18Y1252	18547	Extension Arbor 100mm - 3/4" Weldon
18Y1253	18548	Extension Arbor 150mm - 3/4" Weldon



SPIRAL POINT TAPS

Powerbor® Spiral Point Taps come in seven common thread sizes to suit the popular metric bolts sizes. The Powerbor® Spiral Point Taps are suitable for cutting 25mm /1" thick material due to the safety recess at the end of the thread.

The advantages of Spiral Point Taps are:

- Reduce torque when compared to a hand tap
- A stronger cross section strength is permitted due to the shallow flute design
- Greater strength, allows higher tapping speeds
- Less power is required to drive
- The distinctive blue surface finish reduces the surface friction



PART NUMBER	ITEM NO	DESCRIPTION
19DM12	44009	M12 x 1.75
19DM14	44011	M14 x 2
19DM16	44013	M16 x 2
19DM20	44015	M20 x 2.5
19DM24	44017	M24 x 3
19DM27	44019	M27 x 3
19DM30	44021	M30 x 3.5

COUNTERSINKS

PART NUMBER	ITEM NO	DESCRIPTION
20ZB113	41008	Countersink 32mm with 3/4" Weldon Shank
20ZB114	41009	Countersink 65mm with 3/4" Weldon Shank



MORSE TAPER COUNTERSINKS

PART NUMBER	ITEM NO	DESCRIPTION
26D16	26007	Countersink 16mm with Morse Taper 1 Shank
26D20	26009	Countersink 20mm with Morse Taper 2 Shank
26D25	26011	Countersink 25mm with Morse Taper 2 Shank
26D31	26013	Countersink 30mm with Morse Taper 2 Shank
26D40	26015	Countersink 40mm with Morse Taper 3 Shank



MORSE TAPER COUNTERBORES

PART NUMBER	ITEM NO	DESCRIPTION
25C8	25150	Counterbore for M8 with Morse Taper 2 Shank
25C10	25152	Counterbore for M10 with Morse Taper 2 Shank
25C12	25154	Counterbore for M12 with Morse Taper 2 Shank
25C14	25156	Counterbore for M14 with Morse Taper 2 Shank
25C16	25158	Counterbore for M16 with Morse Taper 3 Shank
25C18	25160	Counterbore for M18 with Morse Taper 3 Shank
25C20	25162	Counterbore for M20 with Morse Taper 3 Shank
25C22	25164	Counterbore for M22 with Morse Taper 3 Shank
25C24	25166	Counterbore for M24 with Morse Taper 3 Shank



SCAN THE QR CODE...

Check out compatibility of all our Powerbor® Accessories with Powerbor® machines



ACCESSORIES

EJECTOR PINS

PART NUMBER	ITEM NO	DESCRIPTION
20ZAXL100P-7/16	41004	Ejector / Pilot Pin 4.75mm x 82.5mm for 25mm depth of cut
20ZAXL200P-7/16	41005	Ejector / Pilot Pin 4.75mm x 101.6mm for 50mm depth of cut
20ZASR	41002	Ejector / Pilot Pin 6.35mm x 77.8mm pin for 25mm depth of cut
20ZALR	41000	Ejector / Pilot Pin 6.35mm x 101.6mm for 50mm depth of cut
20ZAXL300P	41006	Ejector / Pilot Pin 6.35mm x 134.9mm for 75mm depth of cut
20ZAM85	20376	Ejector / Pilot Pin 6.35mm x 144.5mm for 85mm depth of cut
20ZAXL400P	41007	Ejector / Pilot Pin 6.35mm x 158.75mm for 100mm depth of cut
20ZAM110	20375	Ejector / Pilot Pin 6.35mm x 168.30mm for 110mm depth of cut
20ZAT35	41011	Ejector / Pilot Pin 8mm x 88.9mm for 35mm depth of cut
20ZAT50	41012	Ejector / Pilot Pin 8mm x 101.6mm for 50mm depth of cut
20ZAT75	41013	Ejector / Pilot Pin 8mm x 134.9mm for 75mm depth of cut
20ZAT100	41010	Ejector / Pilot Pin 8mm x 158.75mm for 100mm depth of cut



ADDITIONAL ACCESSORIES

With the pipe clamp attachment the magnetic drill can be mounted on round objects such as pipes, columns, etc.

The pipe does not need to be magnetic since the attachment is held on by tensioning the two ratchet straps provided.

The magnetic drill is positioned over the top plate of the attachment then the electro-magnet is applied.

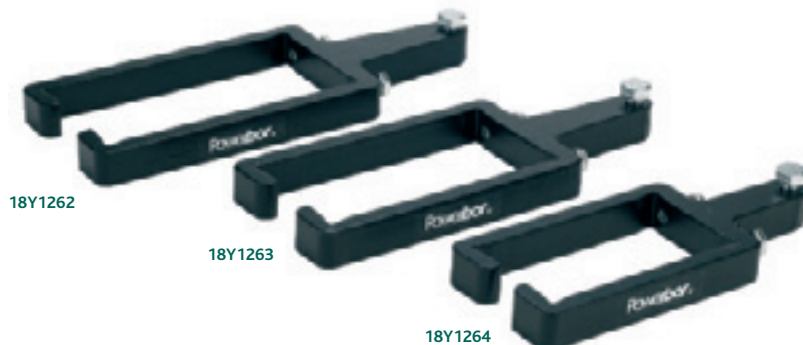


PART NUMBER	ITEM NO	DESCRIPTION
18YPIPE	18305	Pipe Clamp Adaptor
18X527	18177	Allen / Hex Key Set
18X419	18770	Safety Strap - Cam Buckle - 2 Metres Long
18X533	18773	Safety Strap - Hook to Ratchet - 0.2 Metres Long
18X535	18774	Safety Strap - Hook Strap - 2 Metres Long
18Y117	18247	Cutting Fluid - 250ml Bottle
18Y1260	95259	Magnetic Swarf Collector
18Y1262	18549	Mag Base Extension - Large Magnet
18Y1263	18550	Mag Base Extension - Medium Magnet
18Y1264	18551	Mag Base Extension - Small Magnet

SCAN THE
QR CODE...



Check out compatibility of all our
Powerbor® Accessories with
Powerbor® machines



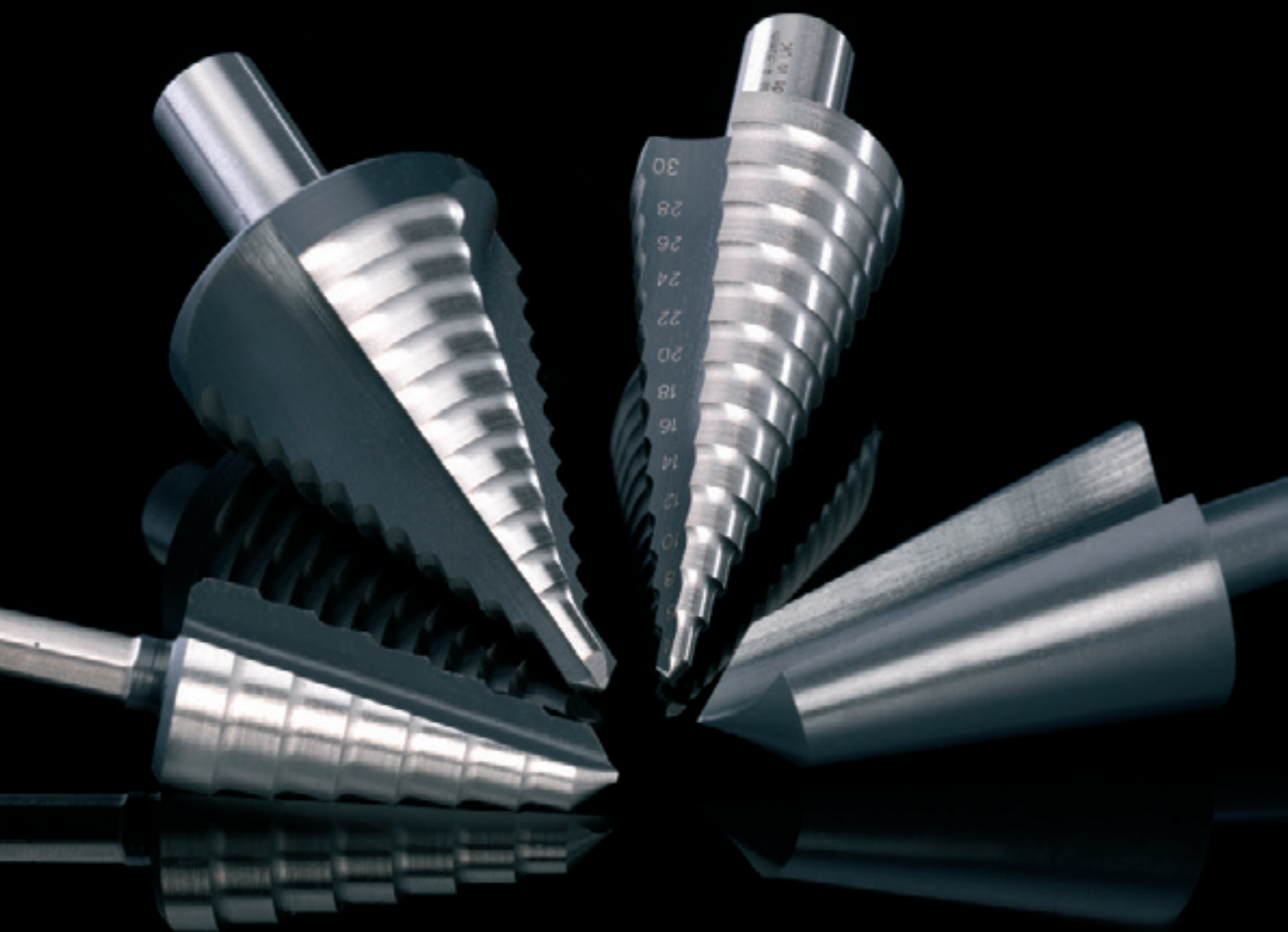
The Mag Base Extension accessory is available for Powerbor® machines.

This accessory is a retro-fit, it simply clamps on over the existing magnet. The purpose of this accessory is to extend the magnet base pivot point rearward, this in turn improves the magnets breakaway load. This is particularly useful if drilling with large twist drills, which tend to generate a high drill point load.

• Small = PB32-S, PB35, PB35 FRV • Medium = PB45-S, PB70/2, PB70 FRV • Large = PB100E, PB100E SB, PB100E FRV

CONECUT®
MULTICUT®
HSS HEXIBIT® SHANK
BRADRAD®

PLUSCUT



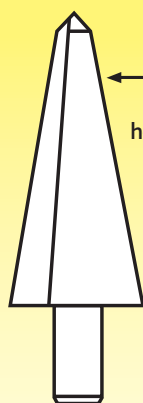
CONECUT®

The most versatile hole-cutting tool for rapid drilling and enlarging holes in thin materials up to 2mm thick.

Designed for industrial applications, the diameter of the hole increases as the Conecut® is advanced into the material, providing infinitely variable sizes.

For use in sheet steel, non-ferrous metals, plastics, Formica and plywood.

CONECUT® FEATURES



Produces round, virtually burr-free holes in material up to 2mm thick

Drills holes of any diameter within range

Non-slip point; needs no centre punch
No flexing of drill whilst drilling
Multi-flute design
Drills from 30mm - 60mm dia.
Enlarges existing holes
Shank will not slip in chuck

CONECUT® APPLICATIONS:

- ELECTRICAL
- HEATING
- VENTILATION
- PLUMBING
- SHOPFITTING INSTALLATIONS ETC.
- AUTO BODY REPAIR
- CONTROL PANELS
- SHEET METALWORK ETC.
- MAINTENANCE

PLEASE NOTE:

For Metric/Imperial, unless otherwise specified, Conecut® with a steam tempered blue surface treatment, which is advantageous in many applications will be supplied.

However, should it be required, all Metric/Imperial tools can be supplied with bright ground finish on body and paint.

METRIC/IMPERIAL

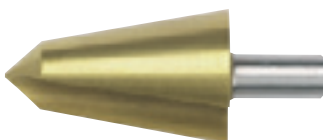


The most comprehensive range of Drills for all applications. Below is listed our current standard stock range - please enquire for other sizes. When drilling metals always use cutting compound - available in 30cc, 60cc and 1/2 kilo sizes.

PART NUMBER	ITEM NUMBER	DESCRIPTION	METRIC RANGE	IMPERIAL RANGE APPROX	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS	NON-FERROUS
02X0	02000	CC0	3 - 14mm	(1/8" - 9/16")	1/4" (6.5mm)	400 - 800	900 - 2000
02X1	02002	CC1	6 - 20mm	(1/4" - 13/16")	3/8" (10mm)	200 - 600	500 - 1500
02X1A*	02004	CC1A	9.5 - 22.5mm	(3/8" - 7/8")	3/8" (10mm)	200 - 600	500 - 1500
02X2*	02006	CC2	16 - 30.5mm	(5/8" - 1.3/16")	3/8" (10mm)	150 - 400	400 - 1000
02X3	02008	CC3	25 - 40mm	(1" - 1.5/8")	3/8" (10mm)	100 - 300	300 - 500
02X4**	02010	CC4	37 - 52mm	(1.1/2" - 2.1/16")	1/2" (13mm)	100 - 200	200 - 400
02X25***	02012	CC25	16 - 25mm	(5/8" - 1")	3/8" (10mm)	150 - 400	400 - 1000
02X820	02014	CC820	8 - 20mm	(5/16" - 13/16")	3/8" (10mm)	200 - 600	500 - 1500
02X430	02016	CC430	4 - 30.5mm	(5/32" - 1.3/16")	3/8" (10mm)	150 - 400	400 - 1000
02X830	02018	CC830	8 - 30mm longdrill	(5/16" - 1.3/16")	3/8" (10mm)	150 - 400	400 - 1000
02X15	02020	CC315	3 - 15mm	(1/8" - 19/32")	1/4" (6.5mm)	400 - 800	900 - 2000

* Finishing diameters of sizes 1A and 2 are designed to produce the international standard hole sizes for fitting of pushbuttons and indicator lights **Pilot hole required *** Covers 20mm + 25mm conduit lights

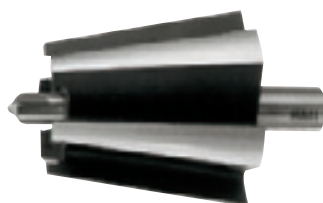
TiN - TITANIUM NITRIDE COATED



Prolongs tool life and reduces torque. Resists wear and abrasion while reducing pick-up along the cutting edge. Lower friction results in higher drilling speeds.

PART NUMBER	ITEM NUMBER	DESCRIPTION	METRIC RANGE	IMPERIAL RANGE APPROX	SHANK TO FIT CHUCK SIZE
02X0TiN	02200	CC0 TiN Coated	3 - 14mm	(1/8" - 9/16")	1/4" (6.5mm)
02X1TiN	02202	CC1 TiN Coated	6 - 20mm	(1/4" - 13/16")	3/8" (10mm)
02X2TiN	02204	CC2 TiN Coated	16 - 30.5mm	(5/8" - 1.3/16")	3/8" (10mm)

TREPANNING ACTION



Variable sizes of larger diameters can be drilled without the need for a pre-drilled hole, with a smooth multi-flute action ensuring that clean round holes are produced.

For drilling or enlarging holes in ferrous and non-ferrous material up to 2mm thick.

PART NUMBER	ITEM NUMBER	DESCRIPTION	METRIC RANGE	IMPERIAL RANGE APPROX	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS	NON-FERROUS
02X3451	02022	TCC3451	34 - 51mm	(1.3/8" - 2")	1/2" (13mm)	50 - 200	200 - 400
02X4360	02024	TCC4360	43 - 60mm	(1.3/4" - 2.3/8")	1/2" (13mm)	50 - 150	150 - 400

Spare Centre Drill - can be purchased separately

SINGLE HOLE SIZE



For drilling holes of one diameter. Our product page will list the current standard stock sizes - please enquire for other diameters.

PART NUMBER	ITEM NUMBER	DESCRIPTION	HOLE SIZE	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS	NON-FERROUS
02X375C	02031	CCSH375C	3/8"	1/4" (6.5mm)	500 - 1200	1200-3000
02X500C	02042	CCSH500C	1/2"	1/4" (6.5mm)	350 - 1000	1000-2000
02X750C	02044	CCSH750C	3/4"	3/8" (10mm)	200 - 600	600-1300
02X875C	02049	CCSH875C	*7/8"	3/8" (10mm)	200 - 600	600-1300
02X1000C	02003	CCSH1000C	1"	3/8" (10mm)	150 - 400	400-1000
02X1125C	02005	CCSH1125C	*1.1/8"	3/8" (10mm)	150 - 500	500-1000
02X1375C	02007	CCSH1375C	*1.3/8"	3/8" (10mm)	120 - 400	400-800

* 1/2" - 3/4" - 1" USA knock-out sizes

RUSTPROOFING



Used to produce the holes required for the rustproofing treatment of motor vehicles. Sizes coincide with plastic plugs inserted after injection of protective fluid.

PART NUMBER	ITEM NUMBER	DESCRIPTION	HOLE SIZE	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS
02XRP1	02026	RP1	3 - 14mm	1/4" (6.5mm)	500 - 1200
02XRP2	02028	RP2	6 - 20mm	1/4" (6.5mm)	500 - 1200

ELECTRICIANS CONECUT®



The perfect electricians cutting tool for rapid drilling and enlarging holes in thin material up to 2mm.

The diameter of the hole increases as the Conecut® advances into the material.

Clearly marked at 20mm and 25mm, introducing a new collar feature that defines the 25mm dia and stops the tool following through the hole.

PART NUMBER	ITEM NUMBER	DESCRIPTION	HOLE SIZE
02X20/25	02015	CCE 2025	20/25mm

SETS - PLASTIC WALLET



Plastic wallet containing Conecut® tools and 30cc pot of special cutting compound.

PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS	RANGE
02XCP12	02300	CP12	CC1, CC2	6 - 30.5mm
02XCP2025	02304	CP2025	CC1, CC25	6 - 25mm
02XCP2230*	02306	CP2230	CC1A, CC2	9.5 - 30.5mm

* Electronics

SETS - METAL CASSETTE



Metal cassette containing Conecut® tools and 30cc pot of special cutting compound.

PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS	RANGE
02XCM210	02308	CM210	CC0, CC1, CC2	3 - 30.5mm
02XCM210TIN	02310	CM210 TiN	CC0 TiN, CC1 TiN, CC2 TiN	3 - 30.5mm

CUTTING COMPOUND

Helps maintain the sharpness of the cutting edge. Lubricity reduces torque and prevents undesirable material build up on the tool. Suitable for other metal cutting operations - thread cutting, normal drilling.

ALWAYS USE WHEN DRILLING METALS.



PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINER SIZE	PACK QUANTITY
09A30	09002	30cc pot of lubricant	30cc	1
09A60	09004	60cc pot of lubricant	60cc	1
09A1/2K	09000	500cc (1/2 kilo) pot of lubricant	1/2 kilo	1
09A6020	09102	Carton x 20 pots of 60cc lubricant	60cc	Box of 20
09A6040	09103	Carton x 40 pots of 60cc lubricant	60cc	Box of 40

ADVANTAGES OVER CONVENTIONAL DRILLS:



Burr free holes



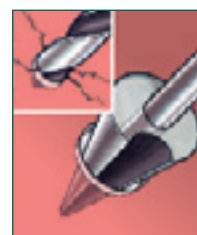
Perfectly round holes



One tool - a range of sizes



Non-slip points



Drills plastics easily



Stronger - more rigid

SCAN THE QR CODE...



For full product details

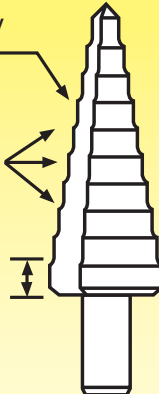
MULTICUT®

Designed for industrial applications, each step produces accurate, parallel holes with a small clearance on the nominal diameter.

The maximum material thickness is determined by the length of step (If the work piece can be reversed multiply thickness by 2).

For use in industrial power tools or pedestal drilling machines.

MULTICUT® FEATURES



- Holes deburred by same operation
- Up to 14 conventional drill sizes on one tool
- Drills material up to 10mm thick
- Non-slip point; needs no centre punch
- No flexing of drill whilst drilling
- Multi-flute design
- Drills from 4mm - 60mm dia.
- Enlarges existing holes
- Shank will not slip in chuck

MULTICUT® APPLICATIONS:

- ELECTRICAL
- HEATING
- VENTILATION
- PLUMBING
- SHOPFITTING INSTALLATIONS ETC.
- AUTO BODY REPAIR
- CONTROL PANELS
- SHEET METALWORK ETC.
- MAINTENANCE

METRIC



The most comprehensive range of Step Drills for all applications. Below is listed our current standard stock range - please enquire for other sizes.

When drilling metals always use cutting compound - available in 30cc, 60cc and 1/2 kilo sizes.

PART NUMBER	ITEM NUMBER	DESCRIPTION	DRILL SIZE IN MM	MAX MAT. THICKNESS	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS	NON-FERROUS
06X1M	06000	MC1M	4 5 6 7 8 9 10 11 12 17 18 19 20	5mm	6.5mm	400 - 800	900 - 2000
06X2M	06002	MC2M	10 11 12 13 14 15 16	4mm	10mm	200 - 600	500 - 1500
06X3M	06004	MC3M	20 21 22 23 24 25 26 27 28 29 30	4mm	13mm	150 - 400	400 - 1000
06X3MS	06262	MC3MS	20 21 22 23 24 25 26 27 28 29 30	4mm	10mm	150 - 400	400 - 1000
06X4M	06006	MC4M	4 6 8 20 12	10mm	6.5mm	400 - 800	900 - 2000
06X5M	06008	MC5M	6 8 10 12 14 16 18 20 22 24	5mm	10mm	150 - 400	400 - 1000
06X6M	06010	MC6M	6 8 10 12 14 16 18	5mm	10mm	200 - 600	500 - 1500
06X7M	06012	MC7M	4 6 8 10 12 14 16 18 20	4mm	10mm	200 - 600	500 - 1500
06X8M	06014	MC8M	*14 16 18 20 22 24	5mm	10mm	150 - 400	400 - 1000
06X9M	06016	MC9M	*20 22 24 26 28 30 32 34	5mm	10mm	150 - 300	300 - 800
06X10M	06018	MC10M	4 6 8 10 12 14 16 18 20 22 24 26 28 30	4mm	13mm	150 - 400	400 - 1000
06X10MS	06019	MC10MS	4 6 8 10 12 14 16 18 20 22 24 26 28 30	4mm	10mm	150 - 400	400 - 1000
06X11M	06020	MC11M	4 6 8 10 12 14 16 18 20 22	5mm	10mm	150 - 400	400 - 1000
06X53S	06208	MC53S	5 7.5 10 13 16 19 21 23 26 29 31 33 35	3.5mm	13mm	100 - 300	300 - 700
06X535S	06260	MC535S	6 7.5 10 13 16 19 21 23 26 29 31 33 35	3.5mm	10mm	100 - 300	30 - 700

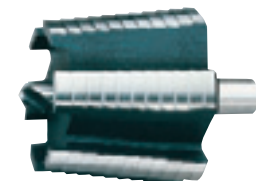
* Pilot hole required

IMPERIAL

PART NUMBER	ITEM NUMBER	DESCRIPTION	DRILL SIZE IN INCHES	MAX MAT. THICKNESS	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS	NON-FERROUS
06X1E	06050	MC1E	1/8 5/32 3/16 7/32 1/4 9/32 5/16 11/32 3/8 13/32 7/16 15/32 1/2	1/8"	1/4"	400 - 800	900 - 2000
06X2E	06052	MC2E	1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4	1/8"	1/8"	200 - 600	500 - 1500
06X3E	06054	MC3E	7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 15/16 1 1.1/16 1.5/16 1.1/8	1/8"	3/8"	150 - 400	400 - 1000
06X4E	06056	MC4E	3/4 13/16 7/8 15/16 1 1.1/16 1.1/8 1.3/16 1.1/4 1.5/16 1.3/8	1/8"	3/8"	100 - 300	300 - 500
06X5E	06058	MC5E	3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8	1/8"	1/2"	200 - 400	400 - 1200
06X6E	06060	MC6E	3/16 1/4 5/16 3/8 7/16 1/2	1/8"	3/8"	300 - 800	800 - 2000
06X7E	06062	MC7E	3/16 1/4 5/16 3/8 7/16 1/2	1/8"	1/4"	300 - 800	800 - 2000
06X8E	06064	MC8E	*9/16 5/8 11/16 3/4 13/16 7/8 15/16 1	1/8"	1/4"	150 - 400	400 - 1000
06X9E	06066	MC9E	*13/16 7/8 15/16 1 1.1/16 1.1/8 1.3/16 1.1/4 1.5/16 1.3/8	1/8"	1/2"	150 - 400	300 - 800

* Pilot hole required

TREPPANNING ACTION



Variable sizes of larger diameters can be drilled without the need for a pre-drilled hole, with a smooth multi-flute action ensuring that clean round holes are produced. For drilling holes up to 4mm thick in most materials and incorporating popular diameters for PG, Conduit, BS Pipe and automotive fittings.

PART NUMBER	ITEM NUMBER	DESCRIPTION	DRILL SIZE IN MM	MAX MAT. THICKNESS	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS	NON-FERROUS
06X3040	06150	TMC3040	30 31 32 33 34 35 36 37 38 39 40	4mm	13mm	100 - 300	300 - 500
06X4050	06152	TMC4050	40 41 42 43 44 45 46 47 48 49 50	4mm	13mm	50 - 200	200 - 400
06X5060	06154	TMC5060	50 51 52 53 54 55 56 57 58 59 60	4mm	13mm	50 - 150	150 - 400
01XCD	01312	Spare Centre Drill					

TiN - TITANIUM NITRIDE COATED



Prolongs tool life and reduces torque. Resists wear and abrasion while reducing pick-up along the cutting edge. Lower friction results in higher drilling speeds.

PART NUMBER	ITEM NUMBER	DESCRIPTION	DRILL SIZE IN MM	MAX MAT. THICKNESS	SHANK TO FIT CHUCK SIZE
06X1MTIN	06100	MC1M	4 5 6 7 8 9 10 11 12	5mm	6.5mm
06X2MTIN	06102	MC2M	10 11 12 13 14 15 16 17 18 29 20	4mm	10mm
06X3MTIN	06104	MC3M	20 21 22 23 24 25 26 27 28 29 30	4mm	13mm

FASTENER STEP DRILLS



For threaded insert and riveted systems.

PART NUMBER	ITEM NUMBER	DESCRIPTION	RANGE DRILL mm (THREAD SIZE)
07XNRT13	07002	NRT13 nut rivet drill	5.1 (M3), 6.1 (M4), 7.1 (M5), 9.1 (M6), 11.1 (M8), 13.1 (M10)
07XNRA10	07050	NRA10 nut rivet drill	4.8 (M3), 6.4 (M4), 7.2 (M5), 9.6 (M6), 10.65 (M8)
07XPR1	07100	PR1 pop rivet drill	3.3, 4.1, 4.9

SPECIAL APPLICATION



All key sizes are marked on the tool.

PART NUMBER	ITEM NUMBER	DESCRIPTION
06X1232	06400	MC1232 Multicut®
06X1240	06402	MC1240 Multicut®
06XT1232	06700	MCT1232 Multicut® Core Drill
06XT1240	06702	MCT1240 Multicut® Core Drill
06XCT1225	06500	MCCT1225 12-25mm Clearance & Tapping Drill
06XCT1232	06502	MCCT1232 12-32mm Clearance & Tapping Drill
06X1625	06200	MC1625 (16-25mm-Conduit Entry) Multicut®
06X1632	06202	MC1632 (16-32mm Conduit Entry) Multicut®
06XPG21	06204	MCPG21 (PG7-PG21) Multicut®
06XPG29	06604	MCPG29 (PG7-PG29) Multicut®
06X521	06206	MC521 (Special Application) Multicut®
06X3/4KO	06300	MC3/4KO (7/8"-1.1/8") Multicut®
06X1KO	06302	MC1KO (7/8"-1.3/8") Multicut®

SETS - METAL CASSETTE



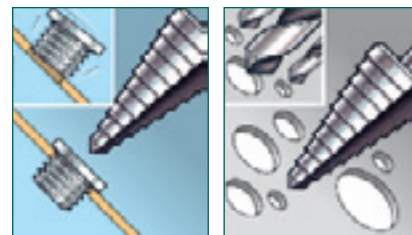
Metal cassette containing Multicut® tools and 30cc pot of special cutting compound.

PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS	RANGE
06XMCS1	06250	MCS1	MC1M, MC2M, MC3M	4 - 30mm
06XMCS1TiN	06252	MCS1TiN	MC1MTiN, MC2MTiN, MC3MTiN	4 - 30mm
06XMCS2	06254	MCS2	MC1E, MC2E, MC3E	1/8" - 1.1/8"

CUTTING COMPOUND

SEE CONECUT® (PAGE 25) FOR FULL PRODUCT DETAILS

ADVANTAGES OVER CONVENTIONAL DRILLS:



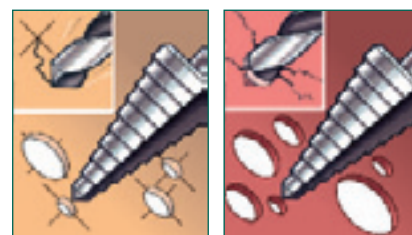
Easy to enlarge holes

One tool - a range of sizes



Stronger - more rigid

Burr free holes



Non-slip points

Drills plastics easily

SCAN THE QR CODE...



For full product details

HSS HEXIBIT® SHANK

The innovative HSS Hexibit® Shank concept offers the most comprehensive range of step drills, taper drills, countersinks, hole type deburring cutters, drill reamers, taps and core drills. No powertool is complete without the efficient and versatile advantages of the HSS Hexibit® Shank kit.

The system allows quick tool change in drill chucks, hexagon adaptors and handle sockets, saving time and increasing efficiency. The 1/4" hexagon shank on all products results in a non-slip positive drive.

HSS Hexibit® Shank products are manufactured from High Speed Steel and are suitable for use in mains and cordless power drills or screwdrivers.

- QUICK TOOL CHANGE IN DRILL CHUCK, HEXAGON ADAPTER OR HANDLE SOCKET
- 1/4" HEXAGON SHANK ON ALL HSS HEXIBIT® SHANK PRODUCTS PROVIDES NON-SLIP, POSITIVE DRIVE
- SUITABLE FOR USE IN MAINS AND CORDLESS POWER DRILLS, SCREWDRIVERS OR PEDESTAL DRILLS
- MANUFACTURED FROM HIGH SPEED STEEL

QUICK CHANGE... HSS HEXIBIT® SHANK POWER TOOL BITS:



HSS STEP DRILLS

For drilling holes in ferrous and non-ferrous materials up to 5mm thick.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
15S412	15100	XS412	4, 6, 8, 10, 12mm
15S513	15102	XS513	5, 7, 9, 11, 13mm
15S820	15104	XS820	8, 10, 12, 14, 16, 18, 20mm
15S921	15106	XS921	9, 11, 13, 15, 17, 19, 21mm
15S308	15108	XS308	3/16, 1/4, 5/16, 3/8, 7/16, 1/2"

HSS SHEET AND TUBE DRILLS

For drilling holes in ferrous and non-ferrous materials up to 2mm thick.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
15T314	15150	XT314	3-14mm
15T620	15042	XT620	6-12mm

HSS SINGLE HOLE SIZE DRILLS

Single hole size sheet and tube drills.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
15T08	15037	XT08	8mm
15T10	15038	XT10	10mm
15T12	15039	XT12	12mm
15T14	15040	XT14	14mm
15T16	15041	XT16	16mm

HSS CORE DRILLS (FOR TAPS)



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
15C358	15400	XCD358	Core drill for M3, M5 & M8 tap
15C3558	15402	XCD3558	Core drill for M3.5, M5 & M8 tap
15C4610	15404	XCD4610	Core drill for M4, M6 & M10 tap

See additional HSS Hexibit® Shank products in the Hand Tool Section.

HSS HEXIBIT® SHANK

DRILLS



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
15TD1	15043	XDRILL1.0	1mm
15TD1.5	15044	XDRILL1.5	1.5mm
15TD2	15047	XDRILL2.0	2mm
15TD2.5	15048	XDRILL2.5	2.5mm
15TD3.0	15049	XDRILL3.0	3mm
15TD3.3	15051	XDRILL3.3	3.3mm
15TD3.5	15053	XDRILL3.5	3.5mm
15TD4	15054	XDRILL4.0	4mm
15TD4.2	15055	XDRILL4.2	4.2mm
15TD4.5	15056	XDRILL4.5	4.5mm
15TD5	15057	XDRILL5.0	5mm
15TD5.5	15058	XDRILL5.5	5.5mm
15TD6	15059	XDRILL6.0	6mm
15TD6.5	15060	XDRILL6.5	6.5mm
15TD6.8	15061	XDRILL6.8	6.8mm
15TD7	15062	XDRILL7.0	7mm
15TD7.5	15063	XDRILL7.5	7.5mm
15TD8	15064	XDRILL8.0	8mm
15TD8.5	15065	XDRILL8.5	8.5mm
15TD9	15066	XDRILL9.0	9mm
15TD9.5	15067	XDRILL9.5	9.5mm
15TD10	15045	XDRILL10	10mm
15TD10.2	15046	XDRILL10.2	10.2mm

SOFT GRIP QUICK RELEASE HANDLE



PART NUMBER	ITEM NUMBER	DESCRIPTION	SPECIAL APPLICATION
15H2	15023	XH2	For use with all HSS Hexibit® Shanks

MAGNETIC ADAPTOR

Socket adaptors for Multicut® HSS Hexagon Shanks



PART NUMBER	ITEM NUMBER	DESCRIPTION	SPECIAL APPLICATION
15XA1	15500	XA1	Suitable for 1/4" HSS Hexibit® Shanks

KITS



PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS
15K1	15450	XK1	XCM 06/08/10/12/16/20
15K2	15452	XK2	XCM 12/16/20, XD513, XCW 10/15
15K3	15454	XK3	XS513/820, XT314, XD513, XCM16, XCW15
15K4	15456	XK4	XS513/820, XT314, XD513, XCM12/16
15K5	15458	XK5	XS412/513/820, XT314, XCM16, XCW15
15K6	15460	XK6	XS412/513/820, XT314, XCM16, XCM12
15K7	15462	XK7	XTAPM3, M4, M5, M6, M8, M10
15K8	15464	XK8	XTAPM3.5, M4, M5, M6, M8, M10
15K9	15466	XK9	XTAPM3, M4, M5, M6, M8, M10, XCD3558/4610
15K10	15468	XK10	XTAPM3.5, M4, M5, M6, M8, M10, XCD3558/4610

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For full product details



BRADRAD®

Bradrad® precision tools drill and deburr from 1/4" to 4", or 5.5 to 100mm diameter, in material thicknesses up to 10mm.

Designed for industrial applications, each step produces accurate, parallel holes with a small clearance on the nominal diameter. It positively deburrs the entry side as the hole is drilled, and if the work can be reversed, both sides.

One 'S' Type Bradrad® can drill eleven different diameters, while the 'A' Type can drill nine.

The Bradrad® can be adapted for use on CNC machines.

INDUSTRIAL APPLICATIONS:

- STEEL FABRICATORS AND ENGINEERS - TO REPLACE PUNCHES AND DIES, AND MILLING AND TREPPANNING ON SHORT-RUN OR PROTOTYPE WORK, PARTICULARLY WHERE MATERIAL IS OVER 1/16" THICK
- JIG AND TOOL MAKERS
- AIRCRAFT MANUFACTURERS
- CAR BODY REPAIRS
- ELECTRICIANS
- PLUMBERS AND GAS FITTERS

S TYPE

'S' Type Bradrad® Drills are used to machine a wide variety of materials and for many different applications. No pilot hole is required, and good quality deburred holes are produced with minimum of fuss using a bench drill or light pedestal drilling machine.



PART NUMBER	ITEM NUMBER	DESCRIPTION	DRILL SIZES FOR MATERIAL UP TO 3mm	DRILLING SPEEDS RPM	
				FERROUS	NON-FERROUS
01XE110	01150	BS E1 with 3/8" Shank	1/4" to 1.1/2"	75 - 220	220 - 650
01XE113	01250	BS E1 with 1/2" Shank	1/4" to 1.1/2"	75 - 220	220 - 650
01XE1MT1	01448	BS E1 with MT1 Shank	1/4" to 1.1/2"	75 - 220	220 - 650
01XE1MT2	01449	BS E1 with MT2 Shank	1/4" to 1.1/2"	75 - 220	220 - 650
01XE210	01152	BS E2 with 3/8" Shank	9/32" to 1.17/32"	75 - 220	220 - 650
01XE213	01252	BS E2 with 1/2" Shank	9/32" to 1.17/32"	75 - 220	220 - 650
01XE2MT1	01450	BS E2 with MT1 Shank	9/32" to 1.17/32"	75 - 220	220 - 650
01XE2MT2	01451	BS E2 with MT2 Shank	9/32" to 1.17/32"	75 - 220	220 - 650
01XE310	01154	BS E3 with 3/8" Shank	5/16" to 1.9/16"	75 - 220	220 - 650
01XE313	01254	BS E3 with 1/2" Shank	5/16" to 1.9/16"	75 - 220	220 - 650
01XE3MT1	01452	BS E3 with MT1 Shank	5/16" to 1.9/16"	75 - 220	220 - 650
01XE3MT2	01453	BS E3 with MT2 Shank	5/16" to 1.9/16"	75 - 220	220 - 650
01XE410	01156	BS E4 with 3/8" Shank	7/32" to 1.15/32"	75 - 220	220 - 650
01XE413	01256	BS E4 with 1/2" Shank	7/32" to 1.15/32"	75 - 220	220 - 650
01XE4MT1	01454	BS E4 with MT1 Shank	7/32" to 1.15/32"	75 - 220	220 - 650
01XE4MT2	01455	BS E4 with MT2 Shank	7/32" to 1.15/32"	75 - 220	220 - 650
01XM110	01100	BS M1 with 10mm Shank	5.5mm to 35.5mm	80 - 250	250 - 700
01XM113	01200	BS M1 with 13mm Shank	5.5mm to 35.5mm	80 - 250	250 - 700
01XM1MT1	01456	BS M1 with MT1 Shank	5.5mm to 35.5mm	80 - 250	250 - 700
01XM1MT2	01457	BS M1 with MT2 Shank	5.5mm to 35.5mm	80 - 250	250 - 700
01XM210	01102	BS M2 with 10mm Shank	6mm to 36mm	80 - 250	250 - 700
01XM213	01202	BS M2 with 13mm Shank	6mm to 36mm	80 - 250	250 - 700
01XM2MT1	01458	BS M2 with MT1 Shank	6mm to 36mm	80 - 250	250 - 700
01XM2MT2	01459	BS M2 with MT2 Shank	6mm to 36mm	80 - 250	250 - 700
01XM310	01104	BS M3 with 10mm Shank	6.5mm to 36.5mm	80 - 250	250 - 700
01XM313	01204	BS M3 with 13mm Shank	6.5mm to 36.5mm	80 - 250	250 - 700
01XM3MT1	01460	BS M3 with MT1 Shank	6.5mm to 36.5mm	80 - 250	250 - 700
01XM3MT2	01461	BS M3 with MT2 Shank	6.5mm to 36.5mm	80 - 250	250 - 700
01XM410	01106	BS M4 with 10mm Shank	7mm to 37mm	80 - 250	250 - 700
01XM413	01206	BS M4 with 13mm Shank	7mm to 37mm	80 - 250	250 - 700
01XM4MT1	01462	BS M4 with MT1 Shank	7mm to 37mm	80 - 250	250 - 700
01XM4MT2	01463	BS M4 with MT2 Shank	7mm to 37mm	80 - 250	250 - 700
01XM510	01108	BS M5 with 10mm Shank	7.5mm to 37.5mm	75 - 220	220 - 650
01XM513	01208	BS M5 with 13mm Shank	7.5mm to 37.5mm	75 - 220	220 - 650
01XM5MT1	01464	BS M5 with MT1 Shank	7.5mm to 37.5mm	75 - 220	220 - 650
01XM5MT2	01465	BS M5 with MT2 Shank	7.5mm to 37.5mm	75 - 220	220 - 650
01XM610	01110	BS M6 with 10mm Shank	8mm to 38mm	75 - 220	220 - 650
01XM613	01210	BS M6 with 13mm Shank	8mm to 38mm	75 - 220	220 - 650
01XM6MT1	01466	BS M6 with MT1 Shank	8mm to 38mm	75 - 220	220 - 650
01XM6MT2	01467	BS M6 with MT2 Shank	8mm to 38mm	75 - 220	220 - 650

A TYPE (HSS COBALT)

'A' Type (HSS Cobalt) Bradrad® Drills incorporate a detachable centre drill and the first diameter is produced by a smooth trepanning action. Thereafter, the 'A' Type Drills from step to step until the required diameter is achieved. The initial trepanning action produces a disc which must be removed before commencing the next hole.



PART NUMBER	ITEM NUMBER	DESCRIPTION	DRILL SIZES FOR MATERIAL UP TO 3mm	DRILLING SPEEDS RPM	
				FERROUS	NON-FERROUS
01AE113	01410	BA E1 with 1/2" Shank	1.1/2" to 2.1/2"	50 - 150	150 - 375
01AE1MT2	01411	BA E1 with MT2 Shank	1.1/2" to 2.1/2"	50 - 150	150 - 375
01AE1MT3	01412	BA E1 with MT3 Shank	1.1/2" to 2.1/2"	50 - 150	150 - 375
01AM213	01422	BA M2 with 13mm Shank	36mm to 60mm	50 - 150	150 - 375
01AM2MT2	01423	BA M2 with MT2 Shank	36mm to 60mm	50 - 150	150 - 375
01AM2MT3	01424	BA M2 with MT3 Shank	36mm to 60mm	50 - 150	150 - 375
01AM413	01428	BA M4 with 13mm Shank	37mm to 61mm	50 - 150	150 - 375
01AM4MT2	01429	BA M4 with MT2 Shank	37mm to 61mm	50 - 150	150 - 375
01AM4MT3	01430	BA M4 with MT3 Shank	37mm to 61mm	50 - 150	150 - 375
01AM613	01434	BA M6 with 13mm Shank	38mm to 62mm	50 - 150	150 - 375
01AM6MT2	01435	BA M6 with MT2 Shank	38mm to 62mm	50 - 150	150 - 375
01AM6MT3	01436	BA M6 with MT3 Shank	38mm to 62mm	50 - 150	150 - 375

B TYPE (HSS COBALT)

'B' Type (HSS Cobalt) Bradrad® Drills incorporate a detachable centre drill, and the first diameter is produced by an 'end milling' action which ensures the rapid penetration of steel plate or structural steel supports.



PART NUMBER	ITEM NUMBER	DESCRIPTION	DRILL SIZES FOR MATERIAL UP TO 10mm	DRILLING SPEEDS RPM	
				FERROUS	NON-FERROUS
01BE1MT3	01437	BB E1 with MT3 Shank	1.1/2" to 2.1/2"	50 - 150	150 - 375
01BM2MT3	01441	BB M2 with MT3 Shank	36mm to 60mm	50 - 150	150 - 375
01BM3MT3	01442	BB M3 with MTS Shank	36.5mm to 60.5mm	50 - 150	150 - 375
01BM4MT3	01443	BB M4 with MT3 Shank	37mm to 61mm	50 - 150	150 - 375
01BM6MT3	01445	BB M6 with MT3 Shank	38mm to 62mm	50 - 150	150 - 375

F TYPE (HSS COBALT)

'F' Type (HSS Cobalt) Bradrad® Drills require a pilot hole which can be produced by an 'A' or 'B' Type Bradrad®, some other drilling method or even by flame cutting.



PART NUMBER	ITEM NUMBER	DESCRIPTION	PILOT	DRILL SIZES IN mm	MATERIAL THICKNESS	DRILLING SPEEDS RPM	
						FERROUS	NON-FERROUS
01FAM	01032	BF AM with MT4 Shank	60	65mm to 100mm	5mm (3/16")	30 - 90	90 - 225
01FBM	01035	BF BM with MT4 Shank	80	85mm to 100mm	10mm (3/8")	30 - 90	90 - 225

SCAN THE QR CODE...



For a full comprehensive list of Drill Sizes for all Bradrad® drills

SPECIAL APPLICATION - SAWBORER (HSS COBALT)

Sawborer Bradrad® Drills have been developed for opening out bores of tungsten carbide tipped circular saw blades with a hardness up to 42Rc. The tool itself is made from cobalt steel and hardened to ensure maximum life between grinds.



PART NUMBER	ITEM NUMBER	DESCRIPTION	PILOT	BORE SIZES	MAX MATERIAL THICKNESS	DRILLING SPEEDS RPM	
						FERROUS	NON-FERROUS
01S2	01037	BS B2 with MT3 Shank	16mm	20mm to 60mm	5mm	50 - 150	150 - 375
01S3	01038	BS B3 with MT3 Shank	5/8"	3/4" to 1.1/2"	5mm	75 - 220	220 - 650
01S4	01039	BS B4 with MT3 Shank	16mm	20mm to 60mm	5mm	75 - 220	220 - 650

SPECIAL APPLICATION - ELECTRICAL

A range of sizes specially designed for work with conduits.



PART NUMBER	ITEM NUMBER	DESCR.	PILOT	APPLICATION	TO FIT CHUCK	MAX MATERIAL THICKNESS	DRILLING SPEEDS RPM	
							FERROUS	NON-FERROUS
01X1232	01360	BC1232	8mm	12mm to 32mm holes for conduit entry	10mm	3.5mm	90 - 300	300 - 750
01X1240	01362	BC1240	8mm	12mm to 32mm holes for conduit entry	13mm	3.5mm	70 - 220	220 - 550
01XT1240	01370	BCT1240 10.5mm		M12 to M40 (1.5mm) Drills core holes for ISO Conduit Threads	13mm	3.5mm	70 - 220	220 - 550

SPECIAL APPLICATION - PIPE TOOLS

BP1 - for drilling the clearance holes for BSP fittings in material up to 5mm thick.

BP2 - for drilling the core holes for BSP threads in material up to 5mm thick.



PART NUMBER	ITEM NUMBER	DESCRIPTION	PILOT	DRILL SIZES	MAX MATERIAL THICKNESS	DRILLING SPEEDS RPM	
						FERROUS	NON-FERROUS
01XBP1	01308	BP 1 with 1/2" Shank	8.8mm	11.2mm to 27.9mm	5mm	100 - 310	310 - 800
01XBP2	01310	BP 2 with 1/2" Shank	8.8mm	11.8mm to 24.5	5mm	120 - 360	360 - 900

SPECIAL APPLICATION - PG TYPE

PG Bradrad® Drills are made from high speed steel for use in pedestal drills or industrial hand drills. Each hole is automatically deburred by the cutting edge of the next step. Detachable centre drill for easy regrind.

PG 21 & PG 29 for drilling the clearance holes for PG fittings in material up to 3mm thick.

PGT for drilling core holes for PG threads in material up to 5mm thick.



PART NUMBER	ITEM NUMBER	DESCRIPTION	PILOT	DRILL SIZES	MAX MATERIAL THICKNESS	DRILLING SPEEDS RPM	
						FERROUS	NON-FERROUS
01XPG21	01300	PG21 with 1/2" Shank	8mm	12.5mm to 30.5mm	3mm	100 - 300	300 - 750
01XPG2910	01468	PG29 with 3/8" Shank	8mm	12.5mm to 37mm	3mm	75 - 220	220 - 550
01XPG2913	01306	PG29 with 1/2" Shank	8mm	12.5mm to 37mm	3mm	75 - 220	220 - 550
01XPGT	01314	PG 'T' with 1/2" Shank	8.8mm	11.4mm to 26.75mm	5mm	110 - 310	310 - 800

SCAN THE
QR CODE...



For a full comprehensive list of Bore and Drill Sizes for all Bradrad® drills

THREADING TOOLS
COUNTERBORES
COUNTERSINKS
HSS HEXIBIT® SHANK

PLUSCUTPREP



THREADING TOOLS : TAP SPECIFICATIONS - CHOICE OF TAP

Many factors have to be considered when choosing a tap for a particular application. The method of tapping, type of material, condition and type of equipment and batch quality are the main criteria which affect the choice of tap style.

STRAIGHT FLUTE TAPS

FOR MACHINE OR HAND USE

This type is the basic tap designed as a general purpose tool for hand and machine operation.

As this basic tap will give acceptable performance in most materials and for medium sized production runs, it is usually the most economical tap to use. However, it performs best in materials where the cutting action results in chips which break up readily and do not present problems of chip disposal.

The regular hand tap has four flutes in sizes larger than 9/32" - 7mm diameter. These taps may not be suitable because of inadequate chip space when deep or blind holes have to be tapped in soft stringy materials. This applies particularly to the coarse pitch threads such as BSW and UNC.

SPIRAL POINT

FOR MACHINE USE ONLY

Spiral point taps have straight flutes supplemented by angular cutting faces at the point. The angular cutting faces cut with a shearing action which propels the chips ahead of the tap leaving the flutes clear for the free flow of coolant to the point.

Spiral point taps are designed for use in through holes, but can be used in blind holes providing there is ample clearance beyond the threaded section to accommodate the chips. The advantages of a spiral point tap are: the shearing action of the

angular cutting faces produce a fine finish on the threads, shallower flutes permit a stronger cross section throughout the tap and cutting torque is less than that of a hand tap. Hall Spiral Point Taps have a blue steam-tempered finish to reduce surface friction.

SPIRAL FLUTE TAPS

FOR MACHINE USE ONLY

These taps, designed primarily for machine tapping of blind holes, are used to the best advantage in materials which produce long stringy chips. The shearing action provided by the spiral flutes produces a better finish on difficult to machine metals and causes the chips to be drawn back, eliminating clogging at the cutting chamfer.

LONG SHANK

These taps are based on shanks 50% longer than the ISO Short Machine and Hand Taps and are for deep hole or other 'long reach' tapping applications. Available in Taper, Second and Bottoming Leads.

SERIAL TAPS

Serial taps comprise one or more undersized roughing taps which remove most of the material before final sizing with a finishing tap.

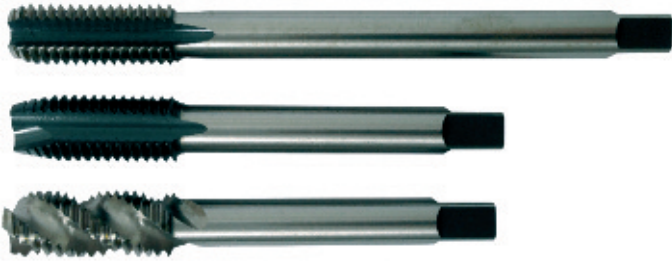
Some reasons for using serial taps are:

- a) The toughness of the material being tapped
- b) The amount of material to be removed could cause swarf choking with a single tap
- c) A very small tolerance on pitch diameter
- d) An extremely good finish required

The table below indicates taps which after considering the above factors may be suitable for use on a selection of common materials:

MATERIAL	CHOICE OF HALL TAP	
	THROUGH HOLES	BLIND HOLES
Low Carbon Steel	Straight Flute or Spiral Point	Straight Flute or Spiral Flute
High Carbon Steel	Straight Flute or Spiral Point	Straight Flute or Spiral Flute
Tool Steel	Straight Flute or Spiral Point	Straight Flute or Spiral Flute
Cast Steel	Straight Flute or Spiral Point	Straight Flute or Spiral Flute
Cast Iron	Straight Flute or Spiral Point	Straight Flute
Stainless Steel	Straight Flute or Spiral Point	Straight Flute or Spiral Flute
Die Cast Aluminium	Straight Flute or Spiral Point	Straight Flute or Spiral Flute
Silicon Aluminium	Straight Flute	Straight Flute
Die Cast Zinc	Straight Flute or Spiral Point	Straight Flute
Brass	Straight Flute	Straight Flute
Thermo-Setting Plastic (eg: Bakelite)	Straight Flute	Straight Flute
Thermo-Plastics (eg: Nylon)	Straight Flute or Spiral Point	Straight Flute or Spiral Flute

THREADING TOOLS : GROUND THREAD TAPS



MACHINE TAPS

The extensive range of machine ground thread taps is manufactured from quality high speed steel to internationally recognised ISO standards, ensuring both high performance and long tool life.

METRIC COARSE TAPS

Sizes available:

Metric :	M1.6 x 0.35 to M72 x 6.00
Metric Long :	M3 x 0.50 to M24 x 3.00
Spiral Flute :	M2 x 0.40 to M24 x 3.00
Spiral Point :	M1.6 x 0.35 to M24 x 3.00
Left Hand :	M2 x 0.40 to M24 x 3.00
Pairs :	M1.6 x 0.35 to M72 x 6.00
Sets :	M1.6 x 0.35 to M72 x 6.00

METRIC FINE TAPS

Sizes available:

Metric Fine :	M3 x 0.35 to M75 x 1.50
Spiral Flute :	M4 x 0.50 to M24 x 2.00
Spiral Point :	M4 x 0.50 to M24 x 2.00
Left Hand :	M4 x 0.50 to M24 x 2.00
Pairs :	M3 x 0.35 to M75 x 1.50
Sets :	M3 x 0.35 to M75 x 1.50

UNC TAPS

Sizes available:

UNC :	No.1 x 64 to 2.3/4" x 3.1/2
Spiral Flute :	No.4 x 40 to 1" x 8
Spiral Point :	No.1 x 64 to 1" x 8
Left Hand :	1/4" x 20 to 1" x 8
Long :	1/4" x 20 to 1" x 8
Pairs :	No.1 x 64 to 2.3/4" x 3.1/2
Sets :	No.1 x 64 to 2.3/4" x 3.1/2

UNF TAPS

Sizes available:

UNF :	No.0 x 80 to 1.1/2" x 12
Spiral Flute :	No.4 x 48 to 1" x 12
Spiral Point :	No.0 x 80 to 1" x 12
Left Hand :	1/4" x 28 to 1" x 12
Long :	1/4" x 28 to 1" x 12
Pairs :	No.0 x 80 to 1.1/2" x 12
Sets :	No.0 x 80 to 1.1/2" x 12

BA TAPS

Sizes available:

BA :	No.0 to No.10
Spiral Flute :	No.0 to No.10
Spiral Point :	No.0 to No.10
Left Hand :	No.0 to No.4
Pairs :	No.0 to No.10
Sets :	No.0 to No.10

BSP TAPS

Sizes available:

BSP :	1/8" x 28 to 4" x 11
Spiral Flute :	1/2" x 14 to 3/8" x 19
Spiral Point :	1/2" x 14 to 3/8" x 19
Left Hand :	1/8" x 28 to 1" x 11
Long :	1/8" x 28 to 1/2" x 14
Pairs :	1/8" x 28 to 4" x 11
Sets :	1/8" x 28 to 4" x 11

BSW TAPS

Sizes available:

BSW :	1/16" x 60 to 3" x 3.1/2
Spiral Flute :	1/8" x 40 to 1" x 8
Spiral Point :	1/8" x 40 to 1" x 8
Left Hand :	1/8" x 40 to 1" x 8
Long :	1/4" x 20 to 1/2" x 12
Pairs :	1/16" x 60 to 3" x 3.1/2
Sets :	1/16" x 60 to 3" x 3.1/2

PIPE THREAD TAPS

The extensive range of pipe threading ground thread taps is manufactured from quality high speed steel to internationally recognised ISO standards, ensuring both high performance and long tool life.

BA TAPS

Sizes available:

BA :	No.0 to No.10
Spiral Flute :	No.0 to No.10
Spiral Point :	No.0 to No.10
Left Hand :	No.0 to No.4
Pairs :	No.0 to No.10
Sets :	No.0 to No.10

BSPT TAPS

Sizes available:

Pairs :	1/8" x 28 to 3" x 11
Sets :	1/8" x 28 to 3" x 11

NPT and NPTF TAPS

Sizes available:

NPT :	1/16" x 27 to 3" x 8
NPT Pairs :	1/16" x 27 to 3" x 8
NPT Sets :	1/16" x 27 to 3" x 8
NPTF :	1/16" x 27 to 1.1/4" x 11.1/2
NPTF Pairs :	3/8" x 18 to 1.1/4" x 11.1/2
NPTF Sets :	3/8" x 18 to 1.1/4" x 11.1/2

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THREADING TOOLS : GROUND THREAD TAPS, KITS AND SETS

CONDUIT THREAD TAPS

The extensive range of conduit threading ground thread taps is manufactured from quality high speed steel to internationally recognised ISO standards, ensuring both high performance and long tool life.

METRIC CONDUIT TAPS

Sizes available:

Metric Conduit :	M16 x 1.50 to M40 x 1.50
Pairs :	M16 x 1.50 to M40 x 1.50
Sets :	M16 x 1.50 to M40 x 1.50

BS CONDUIT TAPS

Sizes available:

BS Conduit :	1/2" x 18 to 2" x 14
Pairs :	1/2" x 18 to 2" x 14
Sets :	1/2" x 18 to 2" x 14

PG TAPS

Sizes available:

PG :	PG7 to PG16
Pairs :	PG7 to PG16
Sets :	PG7 to PG16

KITS AND SETS

The extensive range of kits, sets and accessories for ground thread taps is manufactured from quality high speed steel to internationally recognised ISO standards, ensuring both high performance and long tool life.



MINI TAP KITS

Boxed sets of ground thread taps manufactured from quality high speed steel for long tool life and high performance.

Available in Leads - Taper, Second, Plug, Spiral Point, Spiral Flute.

Each kit contains one HSSGT straight flute and appropriate lead,

PAIRS

PART NUMBER	ITEM NUMBER	PART DESCRIPTION
08K1PR	28122	TK1PR (1 Pair - M3, M4, M5, M6, M8, M10 Coarse)
08K2PR	28129	TK2PR (1 Pair - M3, M4, M5, M6, M8, M10 Fine)
08K3PR	28136	TK3PR (1 Pair - 1/8", 3/16", 1/4", 5/16", 3/8" BSW)
08K4PR	28143	TK4PR (1 Pair - No.8, No.10, 1/4", 5/16", 3/8" UNC)
08K5PR	28150	TK5PR (1 Pair - No.8, No.10, 1/4", 5/16", 3/8" UNF)

TAPER LEAD

PART NUMBER	ITEM NUMBER	PART DESCRIPTION
08K10T	28116	TK10T (M3 - M12 Coarse - All Tapers)
08K11T	28117	TK11T (M3 - M12 Fine - All Tapers)
08K12T	28118	TK12T (1/8" - 1/2" BSW - All Tapers)
08K13T	28119	TK13T (3/16" - 1/2" BSF - All Tapers)
08K14T	28120	TK14T (No.8 - 1/2" UNC - All Tapers)
08K15T	28121	TK15T (No.8 - 1/2" UNF - All Tapers)

SECOND LEAD

PART NUMBER	ITEM NUMBER	PART DESCRIPTION
08K20S	28123	TK20S (M3 - M12 Coarse - All Seconds)
08K21S	28124	TK21S (M3 - M12 Fine - All Seconds)
08K22S	28125	TK22S (1/8" - 1/2" BSW - All Seconds)
08K23S	28126	TK23S (3/16" - 1/2" BSF - All Seconds)
08K24S	28127	TK24S (No.8 - 1/2" UNC - All Seconds)
08K25S	28128	TK25S (No.8 - 1/2" UNF - All Seconds)

PLUG LEAD

PART NUMBER	ITEM NUMBER	PART DESCRIPTION
08K30P	28130	TK30P (M3 - M12 Coarse - All Plugs)
08K31P	28131	TK31P (M3 - M12 Fine - All Plugs)
08K32P	28132	TK32P (1/8" - 1/2" BSW - All Plugs)
08K33P	28133	TK33P (3/16" - 1/2" BSF - All Plugs)
08K34P	28134	TK34P (No.8 - 1/2" UNC - All Plugs)
08K35P	28135	TK35P (No.8 - 1/2" UNF - All Plugs)

THREADING TOOLS : SPLIT CIRCULAR DIES

SPIRAL POINT

PART NUMBER	ITEM NUMBER	PART DESCRIPTION
08K40SP	28137	TK40SP (M3 - M12 Coarse - Spiral Point)
08K41SP	28139	TK41SP (1/8" - 1/2" BSW - Spiral Point)
08K42SP	28140	TK42SP (3/16" - 1/2" BSF - Spiral Point)
08K43SP	28141	TK43SP (No.8 - 1/2" UNC - Spiral Point)
08K44SP	28142	TK44SP (No.8 - 1/2" UNF - Spiral Point)

SPIRAL FLUTE

PART NUMBER	ITEM NUMBER	PART DESCRIPTION
08K50SF	28144	TK50SF (M3 - M12 Coarse - Spiral Flute)
08K51SF	28146	TK51SF (1/8" - 1/2" BSW - Spiral Flute)
08K52SF	28147	TK52SF (3/16" - 1/2" BSF - Spiral Flute)
08K53SF	28148	TK53SF (No.8 - 1/2" UNC - Spiral Flute)
08K54SF	28149	TK54SF (No.8 - 1/2" UNF - Spiral Flute)



TAP INDEX SETS

HSSGT TAPS IN METAL CASSETTE INDEX

Contains: Taper, Second and Bottoming HSSGT Taps in quality metal cassette.

PART NUMBER	ITEM NUMBER	PART DESCRIPTION
08GTI1	28111	TI1 (M3 - M12 Coarse)
08GTI2	28112	TI2 (NO.10 - 1/2" UNF)
08GTI3	28113	TI3 (NO.10 - 1/2" UNC)
08GTI4	28114	TI4 (3/16" - 1/2" BSF)
08GTI5	28115	TI5 (1/8" - 1/2" BSW)



SPLIT CIRCULAR DIES

Manufactured from quality High Speed Steel to BS 1127:1950. Used for cutting external threads - either by machine, or by hand when used in a die stock.

SPLIT CIRCULAR DIES

Sizes available:

Metric Coarse:	M2 x 0.4 to M42 x 4.50
Metric Fine:	M3 x 0.35 to M32 x 1.5
BSW:	1/8" x 40 to 2" x 4.1/2"
BA:	No.0 to No.10
BSF:	3/16" x 32 to 2" x 7
BS Brass:	1/4" x 26 to 1" x 26
UNC:	No.2 x 56 to 2" x 4.1/2"
UNF:	No.2 x 64 to 1.1/2" x 12
BSPT:	1/8" x 28 to 2" x 11
NPT:	1/16" x 27 to 2" x 11.1/2"
BSP:	1/8" x 28 to 2" x 11
Distock:	to suit 13/16" to 4"

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CASED SETS OF HSSGT TAPS

CASED SETS OF HSSGT TAPS WITH HSS SPLIT CIRCULAR DIES, INCLUDING WRENCHES AND STOCKS

Each set in polished wood case contains: HSS Die, HSSGT Taper and Bottoming Tap per size. Tap Wrench and Distock to suit. Screwdriver for Distock adjustment.

For specification see page 46.



ALL STEEL ADJUSTABLE TAP WRENCHES

Available in sizes to cover the whole range of Taps and Dies.

For specification see page 46.



SINGLE ENDED WRENCHES

See page 46.

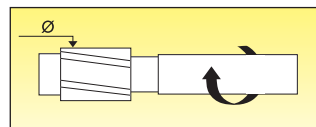
COUNTERBORES

RECOMMENDED CUTTING SPEEDS FOR COUNTERBORES AND COUNTERSINKS:

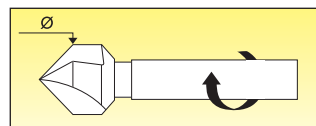
The cutting speeds shown in the table below should be used only as a guide. The specific speeds used will be dependent upon a variety of factors such as component condition, type of lubricant used, the rigidity of the set up etc, etc. The ideal speed therefore is best determined by testing.

Some tough/difficult to machine materials may require speeds lower than those stated but generally it is advised to start testing at the lower end of the range shown and increase until the ideal speed is determined.

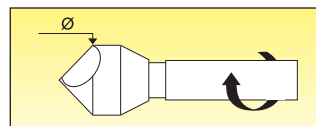
The life and efficiency of all cutting tools used on steels and non ferrous metals will be improved if an appropriate cutting lubricant/coolant is used.



COUNTERBORES



COUNTERSINKS



HOLE TYPE DEBURRING CUTTERS

Ø Metric	Ø Imperial	Ferrous	Non-Ferrous
5mm	3/16"	900-1900	1900-5200
6mm	1/4"	700-1600	1600-4400
8mm	5/16"	500-1200	1200-3200
10mm	3/8"	400-1000	1000-2600
11mm	7/16"	400-900	900-2400
12mm	1/2"	300-800	800-2000
14mm	9/16"	300-700	700-1800
16mm	5/8"	300-600	600-1600
18mm	11/16"	200-500	500-1500
20mm	13/16"	200-500	500-1500
22mm	7/8"	200-400	400-1200
24mm	15/16"	150-400	400-1000
26mm	1"	150-400	400-1000
28mm	1.1/8"	150-350	350-1000
30mm	1.3/16"	150-350	350-1000
32mm	1.1/4"	150-300	300-800
34mm	1.3/8"	100-300	300-800
36mm	1.7/16"	100-300	300-700
40mm	1.5/8"	100-300	300-500

SCAN THE QR CODE...

For full Counterbore product details



SETS - METAL CASSETTE

Metal Cassette Sets in Plain and Screwed Shank.

PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS
25DCBS1	25250	CBS1 Plain Shank	M3P, M4P, M5P, M6P, M8P, M10P
25DCBS2	25252	CBS2 Screwed Shank	M4S, M5S, M6S, M8S, M10S

PLAIN SHANK (P)

Solid type with integral pilot, manufactured to BS 328 PART 5/ISO DIN 373 for use in chucks or collets.



PART NUMBER	ITEM NUMBER	DESCR.	NOMINAL CUTTING DIA. mm	NOMINAL PILOT DIA. mm	SHANK DIA. mm	OVERALL LENGTH mm
25A3	25000	M3 P Cap Size	6	3.4	5	71
25A3.5	25002	M3.5 P Cap Size	6.5	3.9	5	71
25A4	25004	M4 P Cap Size	8	4.5	5	71
25A5	25006	M5 P Cap Size	10	5.5	8	80
25A6	25008	M6 P Cap Size	11	6.6	8	80
25A8	25010	M8 P Cap Size	15	9	12.5	100
25A10	25012	M10 P Cap Size	18	11	12.5	100
25A12	25014	M12 P Cap Size	20	14	12.5	100

SCREWED SHANK (S)

Solid type with integral pilot. For use in Clarkson type holder.



PART NUMBER	ITEM NUMBER	DESCR.	NOMINAL CUTTING DIA. mm	NOMINAL PILOT DIA. mm	SHANK DIA. mm	OVERALL LENGTH mm
25B4	25050	M4 S Cap Size	8	4.5	6	65
25B5	25052	M5 S Cap Size	10	5.5	6	70
25B6	25054	M6 S Cap Size	11	6.6	6	76
25B8	25056	M8 S Cap Size	15	9	10	87
25B10	25058	M10 S Cap Size	18	11	10	89
25B12	25060	M12 S Cap Size	20	14	10	108

MORSE TAPER SHANK (T)

For use in Morse Taper sockets.
Detachable pilot type. BS 328 PART 5/ISO DIN375/1868.



PART NUMBER	ITEM NUMBER	DESCRIPTION	NOMINAL CUTTING DIA. mm	LENGTH mm	MT SHANK NO
25C8T	25100	M8 T Cap Size	15	132	2
25C10T	25102	M10 T Cap Size	18	140	2
25C12T	25001	M12 T Cap Size	20	140	2
25C14T	25007	M14 T Cap Size	24	150	2
25C16T	25003	M16 T Cap Size	26	180	3
25C18T	25009	M18 T Cap Size	30	180	3
25C20T	25005	M20 T Cap Size	33	190	3
25C22T	25011	M22 T Cap Size	36	190	3
25C24T	25013	M24 T Cap Size	40	190	3

Morse Shank Counterbores are supplied complete with Pilot unless specified.

PILOT - FOR MORSE TAPER SHANK (T)

PART NUMBER	ITEM NUMBER	DESCRIPTION	NOMINAL CUTTING DIA. mm	SHANK DIAMETER mm
25C8P	25200	To Suit M8 T	9	4
25C10P	25202	To Suit M10 T	11	5
25C12P	25204	To Suit M12 T	14	5
25C14P	25206	To Suit M14 T	16	6
25C16P	25208	To Suit M16 T	18	8
25C18P	25210	To Suit M18 T	20	8
25C20P	25212	To Suit M20 T	22	10
25C22P	25214	To Suit M22 T	24	10
25C24P	25216	To Suit M24 T	26	10

COUNTERSINKS

5 FLUTE

The 90° angle together with the 0° rake angle makes this tool suitable for countersinking ferrous metals, hard plastics and wood.



PART NUMBER	ITEM NUMBER	DESCR.	HEAD DIAMETER	OVERALL LENGTH	SHANK DIA.	SHANK LENGTH
26A8	26000	CS5 8	8mm (5/16")	35	5	20.5
26A12	26002	CS5 12	12mm (1/2")	39	6.35	20.5
26A16	26004	CS5 16	16mm (5/8")	52	8	32
26A20	26006	CS5 20	20mm (3/4")	58	10	35

3 FLUTE

The positive rake angle means that a quick cutting action together with a chatter-free operation is possible when countersinking both ferrous and non-ferrous metals, hard and soft plastics.

To DIN 335C. 90° angle. For use on metal.



PART NUMBER	ITEM NUMBER	DESCRIPTION	HEAD DIAMETER	NOMINAL LENGTH	SHANK DIAMETER
26B6	26050	CS3 6	6.3	45	5
26B8	26052	CS3 8	6.3	50	6
26B10	26054	CS3 10	10.4	50	6
26B12	26056	CS3 12	12.4	56	8
26B16	26058	CS3 16	16.5	60	10
26B20	26060	CS3 20	20.5	63	10
26B25	26062	CS3 25	25	67	10
26B28	26048	CS3 28	28	71	12
26B31	26066	CS3 31	31	71	12

HOLE TYPE DEBURRING CUTTERS

The arrangement of the through hole in relation to the precision-ground head results in a clean-cutting chatter-free tool for deburring and chamfering a wide range of materials at acceptable production speeds. Chip clearance is excellent and therefore makes these tools particularly suitable for soft alloys such as aluminium and brass, as well as all ferrous metals.

Hole type deburring cutters are relatively simple to sharpen by grinding the cutting face inside the hole. 90° angle. For use on metal.



PART NUMBER	ITEM NUMBER	DESCR.	RANGE	OVERALL LENGTH	SHANK DIA.	SHANK LENGTH
26C25	26100	DC 25	2 - 5	45	6	32
26C510	26102	DC 510	5 - 10	48	8	30.5
26C1015	26104	DC 1015	10 - 15	65	10	37.5
26C1520	26106	DC 1520	15 - 20	84	12	48
26C2025	26108	DC 2025	20 - 25	102	15	56.5
26C2530	26110	DC 2530	25 - 30	115	15	55
26C3035	26112	DC 3035	30 - 35	127	15	60.5



PLEASE NOTE:

Other European sizes of Countersinks are available upon request.

3 FLUTE - MORSE TAPER SHANK

To DIN 335D. 90° angle. For use on metal.



PART NUMBER	ITEM NUMBER	DESCRIPTION	HEAD DIAMETER	NOMINAL LENGTH	SHANK
26D16	26007	MT CS3 16	16.5	85	No.1 MTS
26D20	26009	MT CS3 20	20.5	100	No.2 MTS
26D25	26011	MT CS3 25	25	106	No.2 MTS
26D31	26013	MT CS3 31	31	112	No.2 MTS
26D40	26015	MT CS3 40	40	140	No.3 MTS



KIT - PLASTIC BOX

5 Flute.

PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS
26K1	26150	CS5 K1 5 Flute Set	CS5 8, CS5 12, CS5 16, CS5 20



SETS - METAL CASSETTE

3 Flute - 90° angle DIN 335C.

PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS
26BS1	26200	CS3 S1	CS3 6, CS3 8, CS3 10, CS3 12, CS3 16, CS3 20



SETS - METAL CASSETTE

Hole Type Deburring Cutter.

PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS
26CS1	26202	DC S1	DC 25, DC 510, DC 1015, DC 1520

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HSS HEXIBIT® SHANK

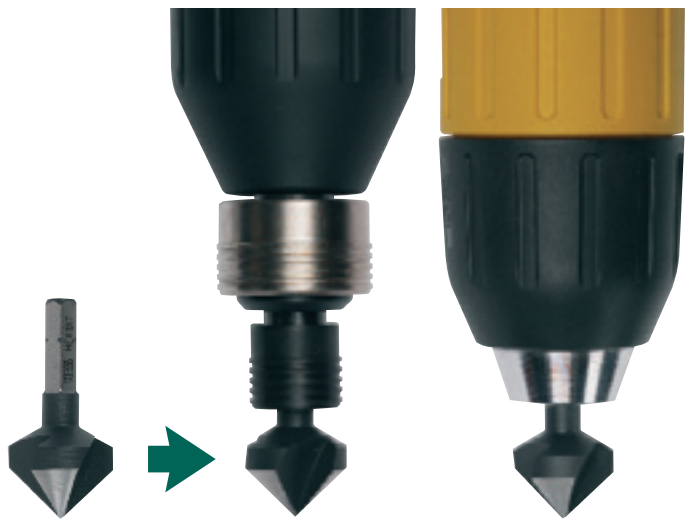
The innovative HSS Hexibit® Shank concept offers the most comprehensive range of step drills, taper drills, countersinks, hole type deburring cutters, drill reamers, taps and core drills. No powertool is complete without the efficient and versatile advantages of the HSS Hexibit® Shank kit.

The system allows quick tool change in drill chucks, hexagon adaptors and handle sockets, saving time and increasing efficiency. The 1/4" hexagon shank on all products results in a non-slip positive drive.

HSS Hexibit® Shank products are manufactured from High Speed Steel and are suitable for use in mains and cordless power drills or screwdrivers.

- QUICK TOOL CHANGE IN DRILL CHUCK, HEXAGON ADAPTER OR HANDLE SOCKET
- 1/4" HEXAGON SHANK ON ALL HSS HEXIBIT® SHANK PRODUCTS PROVIDES NON-SLIP, POSITIVE DRIVE
- SUITABLE FOR USE IN MAINS AND CORDLESS POWER DRILLS, SCREWDRIVERS OR PEDESTAL DRILLS
- MANUFACTURED FROM HIGH SPEED STEEL

QUICK CHANGE...
HSS HEXIBIT® SHANK POWER TOOL BITS:



HSS METAL COUNTERSINKS - 3 FLUTE 90°

For countersinking holes in metal.



PART NUMBER	ITEM NUMBER	DESCRIPTION	HEAD DIAMETER	SET SCREW SIZE
15M6	15000	XCM06	6.3mm	M3
15M8	15002	XCM08	8.3mm	M4
15M10	15004	XCM10	10.4mm	M5
15M12	15006	XCM12	12.4mm	M6
15M16	15008	XCM16	16.5mm	M8
15M20	15010	XCM20	20.5mm	M10
15M25	15029	XCM 25	25mm	M12

HSS WOOD COUNTERSINKS - 5 FLUTE 90°

For countersinking holes in wood and soft metal to accept wood screw heads.



PART NUMBER	ITEM NUMBER	DESCRIPTION	HEAD DIAMETER	FOR WOOD SCREWS
15W10	15050	XCW10	10mm	Up to and inc. No.10
15W15	15052	XCW15	15mm	Up to and inc. No.16
15W20	15068	XCW20	20mm	Up to and inc. No.20

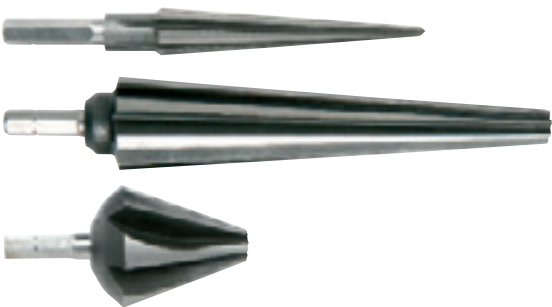
HSS RETHREADER



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
15RT3.5	15034	XLRR	3.5mm

REAMERS

Manufactured from quality tool steel.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
15R312	15033	XR312	3mm - 12mm
15R1025	15030	XR1025	10mm - 25mm
15R1034	15031	XR1034	10mm - 34mm

HSS HEXIBIT® SHANK

HSS DEBURRING CUTTERS

Ideal for deburring and chamfering holes in a wide range of materials, particularly aluminium and other soft alloys. Smooth cutting, chatter-free action.



PART NUMBER	ITEM NUMBER	DESCRIPTION	DIAMETER OF CUT MIN & MAX
15D208	15022	XD208	2mm - 8mm
15D513	15200	XD513	5mm - 13mm
15D720	15202	XD720	7mm - 20mm

HSS DRILL REAMERS

For drilling, reaming and enlarging holes in ferrous and non-ferrous materials up to 2mm thick.



PART NUMBER	ITEM NUMBER	DESCRIPTION	RANGE OF DIAMETER
15R1	15250	XDR1	3mm - 7mm
15R2	15032	XDR2	5mm - 12mm

HSS TAPS

For tapping holes in ferrous and non-ferrous materials. Excellent for fast, easy tapping with cordless power tools.



PART NUMBER	ITEM NUMBER	DESCRIPTION	THREAD SIZE
15A3M	15350	XTAPM3	M3 x 0.5
15A3.5M	15352	XTAPM3.5	M3.5 x 0.6
15A4M	15354	XTAPM4	M4 x 0.7
15A5M	15356	XTAPM5	M5 x 0.8
15A6M	15358	XTAPM6	M6 x 1.0
15A8M	15360	XTAPM8	M8 x 1.25
15A10M	15362	XTAPM10	M10 x 1.5

Contact us for UN size availability

SOFT GRIP QUICK RELEASE HANDLE



PART NUMBER	ITEM NUMBER	DESCRIPTION	SPECIAL APPLICATION
15H2	15023	XH2	For use with all HSS Hexibit® Shanks

MAGNETIC ADAPTOR

Socket adaptors for Multicut® HSS Hexagon Shanks



PART NUMBER	ITEM NUMBER	DESCRIPTION	SPECIAL APPLICATION
15XA1	15500	XA1	Suitable for 1/4" HSS Hexibit® Shanks

KITS



PART NUMBER	ITEM NUMBER	DESCRIPTION	CONTAINS TOOL NUMBERS
15K1	15450	XK1	XCM 06/08/10/12/16/20
15K2	15452	XK2	XCM 12/16/20, XD513, XCM 10/15
15K3	15454	XK3	XS513/820, XT314, XD513, XCM16, XCM15
15K4	15456	XK4	XS513/820, XT314, XD513, XCM12/16
15K5	15458	XK5	XS412/513/820, XT314, XCM16, XCM15
15K6	15460	XK6	XS412/513/820, XT314, XCM16, XCM12
15K7	15462	XK7	XTAPM3, M4, M5, M6, M8, M10
15K8	15464	XK8	XTAPM3.5, M4, M5, M6, M8, M10
15K9	15466	XK9	XTAPM3, M4, M5, M6, M8, M10, XCD3558/4610
15K10	15468	XK10	XTAPM3.5, M4, M5, M6, M8, M10, XCD3558/4610

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HANDIBURR®

GROUND THREAD TAPS

HEXAGON DIENUTS & SETS

TAPS CASED SETS AND TAP WRENCHES

RATCHET LEVERS & SPANNERS

MISCELLANEOUS ENGINEERS TOOLS

HAND TOOLS



A SUPERB RANGE OF PRECISION MADE HAND TOOLS FOR MULTIPLE APPLICATIONS:



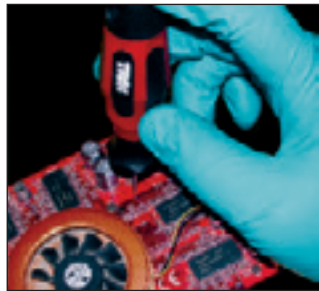
CHAMFERBITS



PIPE REAMERS



TAPER REAMERS



MICRO DRILL REAMERS



RETHREADERS



LONG REACH RETHREADERS

CHAMFERBITS

Handburr® Chamferbits are made from High Speed Steel. The 3-Flute design provides a positive cutting action for chamfering or deburring holes in metals, plastics or wood. The end of tubes can also be deburred.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE	FLUTES	ANGLE
04F1	04361	HB1	12.5mm	3	90°
04F2	04362	HB2	25mm	3	90°

PIPE REAMERS

Handburr® Pipe Reamers are made from quality tool steel. They can be used to deburr all types of tube and pipe or any holes within the size range. Particularly suitable for electrical conduit tube, 15mm and 22mm copper pipe. Removes tabs on 'knockout' boxes. Safer, quicker and more effective than filing or other methods.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE	FLUTES	ANGLE
04G3	04363	HB3	10mm - 34mm	6	40° incl (approx)

TAPER REAMERS

Handburr® Taper Reamers are made from quality Tool Steel. They are designed for finishing or repairing holes in panels, sheet metal or any other thin materials. Ideal for opening out holes while maintaining concentricity and circularity.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE	FLUTES	ANGLE
04H4	04364	HB4	3mm - 12mm	6	8° incl (approx)
04H5	04365	HB5	10mm - 25mm	8	8° incl (approx)

MICRO DRILL REAMERS

Handburr® Micro Drill Reamers are precision ground from High Speed Steel. The 2-flute design enables both piercing and opening out of small holes in printed circuit board, shim etc. Ideally suited for the hobby enthusiast.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE	FLUTES
04E40	04360	HB40	1mm - 5mm	2

RETHREADERS

Handburr® Rethreaders are based on a High Speed Steel Tap permanently fitted with a handle. They are designed principally for cleaning out the fixing holes in socket-switch or conduit-boxes, as these often have malformed threads or are blocked by plaster or cement.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
04E10	04351	HB10	M3 x 0.5
04E11	04352	HB11	M3.5 x 0.6
04E12	04354	HB12	M4 x 0.7
04E13	04355	HB13	M5 x 0.8
04E14	04356	HB14	M6 x 1.0

Contact us for BA size availability

LONG REACH RETHREADERS

One of the handiest tools in any tool box the Handburr® Long Reach Rethreader makes light work of plaster, cement or paint filled threads in socket boxes and switch boxes. You can rely on getting a clean and quick fixing from this great little tool.



PART NUMBER	ITEM NUMBER	DESCRIPTION	SIZE
04E11LR	04353	HB11LR	M3.5 x 0.6

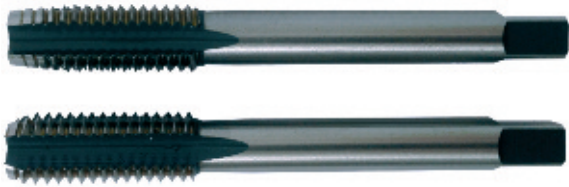
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HAND TOOLS

GROUND THREAD TAPS



HAND TAPS

The extensive range of hand taps is manufactured from quality high speed steel to internationally recognised ISO standards, ensuring both high performance and long tool life.

BA TAPS

Sizes available:

BA :	No.0 to No.10
Left Hand :	No.0 to No.4
Pairs :	No.0 to No.10
Sets :	No.0 to No.10

BS CONDUIT TAPS

Sizes available:

BS Conduit :	1/2" x 18 to 2" x 14
Pairs :	1/2" x 18 to 2" x 14
Sets :	1/2" x 18 to 2" x 14

BSP TAPS

Sizes available:

BSP :	1/8" x 28 to 4" x 11
Left Hand :	1/8" x 28 to 1" x 11
Long :	1/8" x 28 to 1/2" x 14
Pairs :	1/8" x 28 to 4" x 11
Sets :	1/8" x 28 to 4" x 11

BSW TAPS

Sizes available:

BSW :	1/16" x 60 to 3" x 3.1/2
Left Hand :	1/8" x 40 to 1" x 8
Long :	1/4" x 20 to 1/2" x 12
Pairs :	1/16" x 60 to 3" x 3.1/2
Sets :	1/16" x 60 to 3" x 3.1/2

BS BRASS TAPS

Sizes available:

BS Brass :	5/16" x 26 to 1" x 26
Pairs :	5/16" x 26 to 1" x 26
Sets :	5/16" x 26 to 1" x 26

BSF TAPS

Sizes available:

BSF :	3/16" x 32 to 3" x 5
Left Hand :	3/16" x 32 to 1" x 10
Long :	1/4" x 26 to 1/2" x 16
Pairs :	3/16" x 32 to 3" x 5
Sets :	3/16" x 32 to 3" x 5

UNF TAPS

Sizes available:

UNF :	No.0 x 80 to 1.1/2" x 12
Left Hand :	1/4" x 28 to 1" x 12
Long :	1/4" x 28 to 1" x 12
Pairs :	No.0 x 80 to 1.1/2" x 12
Sets :	No.0 x 80 to 1.1/2" x 12

UNC TAPS

Sizes available:

UNC :	No.1 x 64 to 2.3/4" x 3.1/2
Left Hand :	1/4" x 20 to 1" x 8
Long :	1/4" x 20 to 1" x 8
Pairs :	No.1 x 64 to 2.3/4" x 3.1/2
Sets :	No.1 x 64 to 2.3/4" x 3.1/2

HAND TAPS ISO METRIC - COARSE

The extensive range of hand taps (ISO metric coarse) is manufactured from quality high speed steel to internationally recognised ISO standards, ensuring both high performance and long tool life.

METRIC COARSE TAPS

Sizes available:

Metric :	M1.6 x 0.35 to M72 x 6.00
Metric Long :	M3 x 0.50 to M24 x 3.00
Left Hand :	M2 x 0.40 to M24 x 3.00
Pairs :	M1.6 x 0.35 to M72 x 6.00
Sets :	M1.6 x 0.35 to M72 x 6.00

HAND TAPS ISO METRIC - FINE

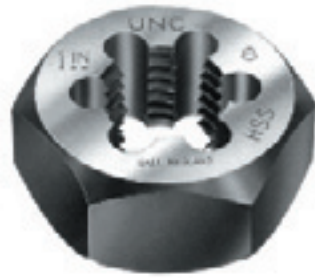
The extensive range of hand taps (ISO metric fine) is manufactured from quality high speed steel to internationally recognised ISO standards, ensuring both high performance and long tool life.

METRIC FINE TAPS

Sizes available:

Metric :	M3 x 0.35 to M75 x 1.50
Left Hand :	M4 x 0.50 to M24 x 2.00
Pairs :	M3 x 0.35 to M75 x 1.50
Sets :	M3 x 0.35 to M75 x 1.50

HEXAGON DIENUTS & SETS



HEXAGON DIENUTS

Manufactured from quality High Speed Steel to BS 1127:1950. Used for correcting bruised and damaged external threads by hand.

Sizes available:

Metric Coarse :	M3 x 0.5 to M52 x 5
Metric Fine :	M3 x 0.35 to M40 x 1.5
BSW :	1/8" x 40" to 2" x 4.1/2
BSF :	3/16" x 32 to 2" x 7
BSP :	1/8" x 28 to 2" x 11
BSPT/NPT :	1/8" x 27 to 1.1/2" x 11.1/2"
UNC/NC :	1/4" x 20 to No.12 x 24
UNF :	1/4" x 28 to No.12 x 28
BA :	No.0 to No.6



HEXAGON DIENUT SETS

Sets of HSS hexagon dienuts in polished wood cases

METRIC ISO COARSE

PART NO.	ITEM NO.	PART DESCRIPTION
10ADN1	10200	DN/1 (M6 - M12 Coarse)
10ADN2	10205	DN/2 (M6 - M24 Coarse)

METRIC ISO COARSE AND FINE COMBINATION

PART NO.	ITEM NO.	PART DESCRIPTION
10ADN1C	10204	DN/1C (M6 - M12 Coarse/Fine)

UNC/NC AND UNF/NF

PART NO.	ITEM NO.	PART DESCRIPTION
10ADN11	10201	DN/11 (1/4" - 1/2" UNC/NC)
10ADN12	10202	DN/12 (1/4" - 1" UNC/NC)
10ADN13	10203	DN/13 (No.10 - 1" UNC/NC)
10ADN21	10206	DN/21 (1/4" - 1/2" UNF/NF)
10ADN22	10207	DN/22 (1/4" - 1" UNF/NF)
10ADN23	10208	DN/23 (No.10 - 1" UNF/NF)
10ADN2C	10209	DN/2C (1/4" - 1/2" UNC/NC and UNF/NF Combi)

BSW AND BSF

PART NO.	ITEM NO.	PART DESCRIPTION
10ADN31	10212	DN/31 (1/4" - 1/2" BSW)
10ADN32	10213	DN/22 (1/2" - 1" BSW)
10ADN33	10214	DN/23 (3/16" - 1/2" BSW)
10ADN34	10215	DN/34 (1/8" - 1/2" BSW)
10ADN41	10217	DN/41 (1/4" - 1/2" BSF)
10ADN42	10218	DN/42 (1/2" - 1" BSF)
10ADN43	10220	DN/43 (3/16" - 1/2" BSF)
10ADN3C	10216	DN/3C (1/4" - 1/2" BSW and BSF Combi)

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For the full extensive range of sizes and part numbers, along with specifications and dimensions

Email info@gjhall.co.uk to request a copy of the Threading Tools Selector



HAND TOOLS

TAPS CASED SETS AND TAP WRENCHES



CASED SETS OF HSSGT TAPS

CASED SETS OF HSSGT TAPS WITH HSS SPLIT CIRCULAR DIES, INCLUDING WRENCHES AND STOCKS

Each set in polished wood case contains: HSS Die, HSSGT Taper and Bottoming Tap per size. Tap Wrench and Diestock to suit. Screwdriver for Diestock adjustment.

METRIC ISO COARSE

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC1	29100	SC/1 (M2 - M6 Coarse)
29XSC2	29107	SC/2 (M3 - M12 Coarse)
29XSC3	29114	SC/3 (M6 - M12 Coarse)
29XSC4	29124	SC/4 (M6 - M20 Coarse)
29XSC5	29130	SC/5 (M14 - M24 Coarse)

METRIC ISO FINE

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC6	29135	SC/6 (M3 - M12 Fine)
29XSC7	29139	SC/7 (M6 - M18 Fine)

UNC - NC

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC11	29101	SC/11 (No.5 - 1/2" UNC)
29XSC12	29102	SC/12 (1/4" - 1/2" UNC)
29XSC13	29103	SC/13 (1/4" - 3/4" UNC)
29XSC14	29104	SC/14 (1/4" - 3/4" UNC)
29XSC17	29105	SC/17 (1/4" - 1" UNC)

UNF - NF

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC21	29108	SC/21 (No.5 - 1/2" UNF)
29XSC22	29109	SC/22 (1/4" - 1/2" UNF)
29XSC23	29110	SC/23 (1/4" - 3/4" UNF)
29XSC24	29111	SC/24 (1/4" - 3/4" UNF)
29XSC27	29112	SC/27 (1/4" - 1" UNF)

BSW

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC30	29115	SC/30 (3/16" - 1/2" BSW)
29XSC31	29117	SC/31 (1/8" - 1/2" BSW)
29XSC32	29118	SC/32 (1/4" - 1/2" BSW)
29XSC33	29120	SC/33 (1/4" - 3/4" BSW)
29XSC34	29121	SC/34 (1/4" - 3/4" BSW)
29XSC37	29122	SC/37 (1/4" - 1" BSW)

BSF

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC40	29125	SC/40 (3/16" - 1/2" BSF)
29XSC42	29126	SC/42 (1/4" - 1/2" BSF)
29XSC43	29127	SC/43 (1/4" - 3/4" BSF)
29XSC44	29128	SC/44 (1/4" - 3/4" BSF)
29XSC47	29129	SC/47 (1/4" - 1" BSF)

BA

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC51	29131	SC/51 (No.0 - No.6 BA)
29XSC52	29132	SC/52 (No.0 - No.8 BA)
29XSC53	29134	SC/53 (No.0 - No.10 BA)

BSP

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC61	29136	SC/61 (1/8" - 1" BSP)
29XSC62	29138	SC/62 (1.1/4" - 2" BSP)

BSPT

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC71	29140	SC/71 (1/8" - 1" BSPT)
29XSC72	29141	SC/72 (1.1/4" - 2" BSPT)

NPT

PART NO.	ITEM NO.	PART DESCRIPTION
29XSC81	29143	SC/81 (1/8" - 1" NPT)
29XSC82	29144	SC/82 (1.1/4" - 2" NPT)



ALL STEEL ADJUSTABLE TAP WRENCHES

Available in sizes to cover the whole range of Taps and Dies.

PART NO.	ITEM NO.	PART DESCRIPTION
05X0	05000	ATW0 (1/16"-1/4", 1.4mm-6mm) A.T.W.
05X1	05002	ATW1 (1/16"-1/2", 1.4mm-12mm) A.T.W.
05X2	05004	ATW2 (3/16"-9/16", 5mm-14mm) A.T.W.
05X3	05006	ATW3 (1/4"-3/4", 6mm-20mm) A.T.W.
05X4	05008	ATW4 (9/16"-1.5/8", 14mm-42mm) A.T.W.
05X5	05010	ATW5 (1.1/2"-3.1/2", 36mm-90mm) A.T.W.



DIESTOCKS FOR SPLIT CIRCULAR DIES

PART NO.	ITEM NO.	PART DESCRIPTION
27X13/16	27000	13/16" Diestock
27X1	27002	1" Diestock
27X1.5/16	27004	1.5/16" Diestock
27X1.1/2	27006	1.1/2" Diestock
27X2	27008	2" Diestock
27X2.1/4	27010	2.1/4" Diestock
27X3	27012	3" Diestock
27X4	27014	4" Diestock



SINGLE ENDED WRENCHES

Please enquire about availability.

SCAN THE QR CODE...

For the full extensive range of sizes and part numbers, along with specifications and dimensions

Email info@gjhall.co.uk to request a copy of the Threading Tools Selector



RATCHET LEVERS & SPANNERS



NO. 339 GENERAL PURPOSE RATCHET SPANNER

Non-reversible

General Purpose Spanners are of robust all-steel construction, with an easy ratchet action. Handles are plastic-encased for comfort.

FRAME SIZE NO. 0

Handle Length: 6" Overall Length: 6.1/2" Across Head: 1.1/8" Head Thickness: 1/2"

PART NO.	ITEM NO.	PART DESCRIPTION
13C1/4SQ	13063	1/4" A/F Square 339 (No.0 Frame) Lever
13C5/16SQ	13090	5/16" A/F Square 339 (No.0 Frame) Lever
13C3/8SQ	13085	3/8" A/F Square 339 (No.0 Frame) Lever
13C1/2SQ	13062	1/2" A/F Square 339 (No.0 Frame) Lever
13C6MSQ	13092	6mm A/F Square 339 (No.0 Frame) Lever
13C7MSQ	13093	7mm A/F Square 339 (No.0 Frame) Lever
13C8MSQ	13095	8mm A/F Square 339 (No.0 Frame) Lever
13C9MSQ	13096	9mm A/F Square 339 (No.0 Frame) Lever
13C10MSQ	13065	10mm A/F Square 339 (No.0 Frame) Lever
13C11MSQ	13067	11mm A/F Square 339 (No.0 Frame) Lever
13C12MSQ	13068	12mm A/F Square 339 (No.0 Frame) Lever
13C8MHEX	13094	8mm A/F Hex 339 (No.0 Frame) Lever
13C10MHEX	13064	10mm A/F Hex 339 (No.0 Frame) Lever
13C13MHEX	13069	13mm A/F Hex 339 (No.0 Frame) Lever

FRAME SIZE NO. 1

Handle Length: 9.1/8" Overall Length: 10" Across Head: 1.5/8" Head Thickness: 5/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13C0.920HEX	13057	0.920" A/F Hex 339 (No.1 Frame) Lever
13C11/16SQ	13066	11/16" A/F Square 339 (No.1 Frame) Lever
13C14MSQ	13070	14mm A/F Square 339 (No.1 Frame) Lever
13C15/16HEX	13071	15/16" A/F Hex 339 (No.1 Frame) Lever
13C16MSQ	13072	16mm A/F Square 339 (No.1 Frame) Lever
13C17MHEX	13073	17mm A/F Hex 339 (No.1 Frame) Lever
13C18MSQ	13074	18mm A/F Square 339 (No.1 Frame) Lever
13C19MHEX	13075	19mm A/F Hex 339 (No.1 Frame) Lever
13C20MSQ	13077	20mm A/F Square 339 (No.1 Frame) Lever
13C22MHEX	13078	22mm A/F Hex 339 (No.1 Frame) Lever
13C24MHEX	13080	24mm A/F Hex 339 (No.1 Frame) Lever
13C3/4HEX	13083	3/4" A/F Hex 339 (No.1 Frame) Lever
13C3/4SQ	13084	3/4" A/F Square 339 (No.1 Frame) Lever
13C5/8SQ	13091	5/8" A/F Square 339 (No.1 Frame) Lever

FRAME SIZE NO. 2

Handle Length: 14" Overall Length: 15" Across Head: 2.3/16" Head Thickness: 3/4"

PART NO.	ITEM NO.	PART DESCRIPTION
13C1SQ	13076	1" A/F Square 339 (No.2 Frame) Lever
13C22MSQ	13079	22mm A/F Square 339 (No.2 Frame) Lever
13C24MSQ	13081	24mm A/F Square 339 (No.2 Frame) Lever
13C27MHEX	13082	27mm A/F Hex 339 (No.2 Frame) Lever
13C30MHEX	13086	30mm A/F Hex 339 (No.2 Frame) Lever
13C32MHEX	13087	32mm A/F Hex 339 (No.2 Frame) Lever

FRAME SIZE NO. 3

Handle Length: 17.3/4" Overall Length: 19.1/8" Across Head: 2.3/16" Head Thickness: 15/16"

PART NO.	ITEM NO.	PART DESCRIPTION
13C1.480HEX	13060	1.480" A/F Hex 339 (No.3 Frame) Lever
13C1.670HEX	13061	1.670" A/F Hex 339 (No.3 Frame) Lever
13C33MSQ	13088	33mm A/F Square 339 (No.3 Frame) Lever
13C36MHEX	13089	36mm A/F Hex 339 (No.3 Frame) Lever

FRAME SIZE NO. 4

Handle Length: 24" Overall Length: 26" Across Head: 3.7/8" Head Thickness: 1.1/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13C1.3/4SQ	13059	1.3/4" Square 339 (No.4 Frame) Lever

SCAN THE QR CODE...

For the full extensive range of sizes and part numbers.



HAND TOOLS

RATCHET LEVERS & SPANNERS



NO. 337 GENERAL PURPOSE RATCHET SPANNER

Reversible

General Purpose Spanners are of robust all-steel construction, with an easy ratchet action. Handles are plastic-encased for comfort.

FRAME SIZE NO. 0

Handle Length: 6" Overall Length: 6.1/2" Across Head: 1.1/8" Head Thickness: 1/2"

PART NO.	ITEM NO.	PART DESCRIPTION
13B1/2SQ	13021	1/2" A/F Square 337 (No.0 Frame) Lever
13B1/4SQ	13022	1/4" A/F Square 337 (No.0 Frame) Lever
13B10MHEX	13023	10mm A/F Hex 337 (No.0 Frame) Lever
13B10MSQ	13024	10mm A/F Square 337 (No.0 Frame) Lever
13B12MSQ	13025	12mm A/F Square 337 (No.0 Frame) Lever
13B13MHEX	13026	13mm A/F Hex 337 (No.0 Frame) Lever
13B3/8SQ	13042	3/8" A/F Square 337 (No.0 Frame) Lever
13B5/16SQ	13046	5/16" A/F Square 337 (No.0 Frame) Lever
13B6MSQ	13049	6mm A/F Square 337 (No.0 Frame) Lever
13B7/16SQ	13050	7/16" A/F Square 337 (No.0 Frame) Lever
13B7MSQ	13052	7mm A/F Square 337 (No.0 Frame) Lever
13B8MHEX	13053	8mm A/F Hex 337 (No.0 Frame) Lever
13B8MSQ	13054	8mm A/F Square 337 (No.0 Frame) Lever
13B9MHEX	13055	9mm A/F Hex 337 (No.0 Frame) Lever
13B9MSQ	13056	9mm A/F Square 337 (No.0 Frame) Lever

FRAME SIZE NO. 1

Handle Length: 9.1/8" Overall Length: 10" Across Head: 1.5/8" Head Thickness: 5/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13B3/4SQ	13041	3/4" A/F Square 337 (No.1 Frame) Lever
13B5/8SQ	13048	5/8" A/F Square 337 (No.1 Frame) Lever
13B14MSQ	13027	14mm A/F Square 337 (No.1 Frame) Lever
13B16MSQ	13029	16mm A/F Square 337 (No.1 Frame) Lever
13B19MSQ	13032	19mm A/F Square 337 (No.1 Frame) Lever
13B20MSQ	13034	20mm A/F Square 337 (No.1 Frame) Lever
13B17MHEX	13030	17mm A/F Hex 337 (No.1 Frame) Lever
13B19MHEX	13031	19mm A/F Hex 337 (No.1 Frame) Lever
13B22MHEX	13035	22mm A/F Hex 337 (No.1 Frame) Lever
13B24MHEX	13037	24mm A/F Hex 337 (No.1 Frame) Lever
13B3/4HEX	13040	3/4" A/F Hex 337 (No.1 Frame) Lever
13B.820HEX	13020	0.820" A/F Hex 337 (No.1 Frame) Lever
13B15/16HEX	13028	15/16" A/F Hex 337 (No.1 Frame) Lever

FRAME SIZE NO. 2

Handle Length: 14" Overall Length: 15" Across Head: 2.3/16" Head Thickness: 3/4"

PART NO.	ITEM NO.	PART DESCRIPTION
13B1SQ	13033	1" A/F Square 337 (No.2 Frame) Lever
13B22MSQ	13036	22mm A/F Square 337 (No.2 Frame) Lever
13B24MSQ	13038	24mm A/F Square 337 (No.2 Frame) Lever
13B27MHEX	13039	27mm A/F Hex 337 (No.2 Frame) Lever
13B30MHEX	13043	30mm A/F Hex 337 (No.2 Frame) Lever
13B32MHEX	13044	32mm A/F Hex 337 (No.2 Frame) Lever
13B7/8SQ	13051	7/8" A/F Square 337 (No.2 Frame) Lever

PLEASE NOTE:
Other special sizes are available upon request.

FRAME SIZE NO. 3

Handle Length: 17.3/4" Overall Length: 19.1/8" Across Head: 2.3/16" Head Thickness: 15/16"

PART NO.	ITEM NO.	PART DESCRIPTION
13B1.1/8SQ(SP)	13114	(SP) 1.1/8" A/F Square 337 (No.3 Frame) Lever
13B1.1/4SQ(SP)	13113	(SP) 1.1/4" A/F Square 337 (No.3 Frame) Lever
13B1.300HEX(SP)	13117	(SP) 1.300" A/F Hex 337 (No.3 Frame) Lever
13B1.5/16HEX(SP)	13119	(SP) 1.5/16" A/F Hex 337 (No.3 Frame) Lever
13B1.3/8SQ(SP)	13116	(SP) 1.3/8" A/F Square 337 (No.3 Frame) Lever
13B1.480HEX(SP)	13118	(SP) 1.480" A/F Hex 337 (No.3 Frame) Lever
13B1.1/2HEX(SP)	13110	(SP) 1.1/2" A/F Hex 337 (No.3 Frame) Lever
13B1.670HEX(SP)	13121	(SP) 1.670" A/F Hex 337 (No.3 Frame) Lever
13B27MSQ(SP)	13128	(SP) 27mm A/F Square 337 (No.3 Frame) Lever
13B30MSQ(SP)	13131	(SP) 30mm A/F Square 337 (No.3 Frame) Lever
13B33MSQ(SP)	13133	(SP) 33mm A/F Square 337 (No.3 Frame) Lever
13B36MHEX(SP)	13134	(SP) 36mm A/F Hex 337 (No.3 Frame) Lever
13B41MHEX(SP)	13140	(SP) 41mm A/F Hex 337 (No.3 Frame) Lever

FRAME SIZE NO. 4

Handle Length: 24" Overall Length: 26" Across Head: 3.7/8" Head Thickness: 1.1/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13B3/4SQ(SP)	13130	(SP) 3/4" A/F Square 337 (No.4 Frame) Lever
13B1.7/16SQ(SP)	13122	(SP) 1.7/16" A/F Square 337 (No.4 Frame) Lever
13B1.1/2SQ(SP)	13112	(SP) 1.1/2" A/F Square 337 (No.4 Frame) Lever
13B1.1/2HEX(SP)	13111	(SP) 1.1/2" A/F Hex 337 (No.4 Frame) Lever
13B1.5/8SQ(SP)	13120	(SP) 1.5/8" A/F Square 337 (No.4 Frame) Lever
13B1.3/4SQ(SPA)	13115	(SP) 1.3/4" A/F Square 337 (No.4 Frame) Lever
13B1.7/8HEX(SP)	13123	(SP) 1.7/8" A/F Hex 337 (No.4 Frame) Lever
13B2HEX(SP)	13129	(SP) 2" A/F Hex 337 (No.4 Frame) Lever
13B2.1/16HEX(SP)	13124	(SP) 2.1/16" A/F Hex 337 (No.4 Frame) Lever
13B2.1/8HEX(SP)	13126	(SP) 2.1/8" A/F Hex 337 (No.4 Frame) Lever
13B2.1/4HEX(SP)	13125	(SP) 2.1/4" A/F Hex 337 (No.4 Frame) Lever
13B27MHEX(SP)	13127	(SP) 27mm A/F Hex 337 (No.4 Frame) Lever
13B32MSQ(SP)	13132	(SP) 32mm A/F Square 337 (No.4 Frame) Lever
13B36MSQ(SP)	13135	(SP) 36mm A/F Square 337 (No.4 Frame) Lever
13B38MSQ(SP)	13136	(SP) 38mm A/F Square 337 (No.4 Frame) Lever
13B39MSQ(SP)	13138	(SP) 39mm A/F Square 337 (No.4 Frame) Lever
13B39MHEX(SP)	13137	(SP) 39mm A/F Hex 337 (No.4 Frame) Lever
13B40MSQ(SP)	13139	(SP) 40mm A/F Square 337 (No.4 Frame) Lever
13B41MSQ(SP)	13141	(SP) 41mm A/F Square 337 (No.4 Frame) Lever
13B42MSQ(SP)	13142	(SP) 42mm A/F Square 337 (No.4 Frame) Lever
13B43MHEX(SP)	13143	(SP) 43mm A/F Hex 337 (No.4 Frame) Lever
13B45MSQ(SP)	13144	(SP) 45mm A/F Square 337 (No.4 Frame) Lever
13B46MHEX(SP)	13145	(SP) 46mm A/F Hex 337 (No.4 Frame) Lever
13B47MHEX(SP)	13146	(SP) 47mm A/F Hex 337 (No.4 Frame) Lever
13B50MHEX(SP)	13147	(SP) 50mm A/F Hex 337 (No.4 Frame) Lever
13B54MHEX(SP)	13148	(SP) 54mm A/F Hex 337 (No.4 Frame) Lever
13B55MHEX(SP)	13149	(SP) 55mm A/F Hex 337 (No.4 Frame) Lever

SCAN THE QR CODE...

For the full extensive range of sizes and part numbers.



RATCHET LEVERS & SPANNERS



NO. 333 ENCLOSED ACTION RATCHET LEVER

Non-reversible

No. 333 Ratchet Levers have a totally enclosed mechanism which is therefore protected against particularly dirty conditions such as construction sites or trenches, or corrosive atmosphere such as chemical plants or oil rigs.

FRAME SIZE NO. 30

Handle Length: 7" Across Head: 1.11/16" Head Thickness: 5/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13X3/8SQ	13106	3/8" A/F Square 333 (No.30 Frame) Lever

FRAME SIZE NO. 31

Handle Length: 9" Across Head: 2.1/2" Head Thickness: 7/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13X1/2SQ	13101	1/2" A/F Square 333 (No.31 Frame) Lever
13X7/16SQ	13108	7/16" A/F Square 333 (No.31 Frame) Lever

FRAME SIZE NO. 32

Handle Length: 11" Across Head: 2.3/4" Head Thickness: 7/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13X5/8SQ	13107	5/8" A/F Square 333 (No.32 Frame) Lever

FRAME SIZE NO. 33

Handle Length: 14" Across Head: 2.7/8" Head Thickness: 1"

PART NO.	ITEM NO.	PART DESCRIPTION
13X20MSQ	13104	20mm A/F Square 333 (No.33 Frame) Lever
13X3/4SQ	13105	3/4" A/F Square 333 (No.33 Frame) Lever

FRAME SIZE NO. 34

Handle Length: 16" Across Head: 3.1/4" Head Thickness: 1.1/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13X15/16SQ	13102	15/16" A/F Square 333 (No.34 Frame) Lever
13X7/8SQ	13109	7/8" A/F Square 333 (No.34 Frame) Lever

FRAME SIZE NO. 35

Handle Length: 20" Across Head: 3.1/2" Head Thickness: 1.3/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13X1SQ	13103	A/F Square 333 (No.35 Frame) Lever

FRAME SIZE NO. 36

Handle Length: 17" Across Head: 4.1/4" Head Thickness: 1.3/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13X1.1/2SQ	13097	1.1/2" A/F Square 333 (No.36 Frame) Lever
13X1.1/4SQ	13098	1.1/4" A/F Square 333 (No.36 Frame) Lever
13X1.1/8SQ	13099	1.1/8" A/F Square 333 (No.36 Frame) Lever

PLEASE NOTE:

LOAD FACTORS: Hall levers are designed to withstand a normal load plus a considerable margin for safety.

We define a normal load as the maximum gradual pull which could be exerted on the end of the handle by an average man.



NO. 335 HEAVY DUTY RATCHET LEVER

Reversible

Also available as Ref: 334 Non-Reversible.

No. 335 Ratchet Levers are designed for the toughest loads. The racks and pawls are specially heat treated to withstand a higher load than the tubular handle - a safety feature designed to offer the operator some protection if the Lever is abused.

'A' SERIES

Handle Length: 16" Across Head: 2" Head Thickness: 1.1/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13A1.010HEX	13000	1.010" A/F Hex 335 (A Frame) Lever
13A20MSQ	13012	20mm A/F Square 335 (A Frame) Lever
13A3/4SQ	13014	3/4" A/F Square 335 (A Frame) Lever
13A5/8SQ	13018	5/8" A/F Square 335 (A Frame) Lever
13A7/8SQ	13019	7/8" A/F Square 335 (A Frame) Lever

'B' SERIES

Handle Length: 22" Across Head: 2.7/8" Head Thickness: 1.1/2"

PART NO.	ITEM NO.	PART DESCRIPTION
13A1SQ	13011	1" A/F Square 335 (B Frame) Lever
13A1.1/8SQ	13003	1.1/8" A/F Square 335 (B Frame) Lever
13A30MSQ	13015	30mm A/F Square 335 (B Frame) Lever
13A1.200HEX	13004	1.200" A/F Hex 335 (B Frame) Lever
13A1.5/16HEX	13008	1.5/16" A/F Hex 335 (B Frame) Lever
13A1.480HEX	13007	1.480" A/F Hex 335 (B Frame) Lever
13A32MHEX	13016	32mm A/F Hex 335 (B Frame) Lever

'C' SERIES

Handle Length: 26" Across Head: 3.3/8" Head Thickness: 1.1/2"

PART NO.	ITEM NO.	PART DESCRIPTION
13A1.1/4SQ	13002	1.1/4" A/F Square 335 (C Frame) Lever
13A1.3/8SQ	13006	1.3/8" A/F Square 335 (C Frame) Lever

'D' SERIES

Handle Length: 30" Across Head: 4" Head Thickness: 1.7/8"

PART NO.	ITEM NO.	PART DESCRIPTION
13A1.1/2SQ	13001	1.1/2" A/F Square 335 (D Frame) Lever
13A1.5/8SQ	13009	1.5/8" A/F Square 335 (D Frame) Lever
13A42MSQ	13017	42mm A/F Square 335 (D Frame) Lever

'E' SERIES

Handle Length: 40" Across Head: 5.1/16" Head Thickness: 2"

PART NO.	ITEM NO.	PART DESCRIPTION
13A1.3/4SQ	13005	1.3/4" A/F Square 335 (E Frame) Lever
13A1.7/8SQ	13010	1.7/8" A/F Square 335 (E Frame) Lever
13A2SQ	13013	2" A/F Square 335 (E Frame) Lever

PLEASE NOTE:

Other special sizes are available upon request.

HAND TOOLS

MISCELLANEOUS ENGINEERS TOOLS

RATCHET BRACES

All-steel construction for heavy duty use with totally enclosed mechanism that ensures complete protection from corrosion or clogging when used in exposed or dirty conditions and can easily be operated in conjunction with a drilling pillar.



PART NUMBER	ITEM NUMBER	PART DESCRIPTION
14C12	14004	12" No.2 Taper Square Shank (345)
14B15	14003	15" No.2 Taper Square Shank (346)
14A15	14001	15" No.2 Taper Square Shank (347)
14A18	14002	18" No.2 Taper Square Shank (347)
14X1MT	14005	12" No.1 Morse Taper Shank (347MS)
14X2MT	14006	15" No.2 Morse Taper Shank (347MS)
14X3MT	14007	18" No.3 Morse Taper Shank (347MS)
14X4MT	14008	24" No.4 Morse Taper Shank (347MS)

REPAIRMANS REAMERS



PART NUMBER	ITEM NUMBER	PART DESCRIPTION
17A5T	17000	5T (3mm - 12mm) 'T' Handle Repairmans Reamer
17A6T	17001	6T (10mm - 25mm) 'T' Handle Repairmans Reamer

PIPE BURRING REAMERS



PART NUMBER	ITEM NUMBER	PART DESCRIPTION
17X2	17002	BR2 (1/8" - 1") Bit Stock P/B Reamer
17X3	17003	BR3 (1/4" - 1.1/4") Bit Stock P/B Reamer
17X3A	17004	BR3A (1/4" - 1.1/4") 'T' Handle P/B Reamer
17X4	17005	BR4 (1/4" - 1.1/4") 1/2" Round P/B Reamer
17X5	17006	BR5 (1/4" - 1.1/2") Bit Stock P/B Reamer
17X6	17007	BR6 (1/2" - 2") Bit Stock P/B Reamer
17X7	17008	BR7 (1/2" - 2") 'T' Handle P/B Reamer

LARGE SCREW EXTRACTORS



PART NUMBER	ITEM NUMBER	PART DESCRIPTION
27C8	27017	LSE 8 (3/4") Screw Extractor
27C9	27018	LSE 9 (1") Screw Extractor
27C10	27013	LSE 10 (1.1/4") Screw Extractor
27C11	27015	LSE 11 (1.1/2") Screw Extractor
27C12	27016	LSE 12 (2") Screw Extractor

UNIVERSAL RATCHET STOCKS

Quick fitting of circular dies for maximum flexibility to cut difficult materials. Double-sided steel die holder. Easy-to-use ratchet mechanism. Dies will cut all conventional threads including BSP and Conduit.



PART NUMBER	ITEM NUMBER	PART DESCRIPTION
16RS1	16022	No.1 Universal Ratchet Stock (13/16" & 1")
16RS2	16023	No.2 Universal Ratchet Stock (1" & 1.5/16")
16RS3	16024	No.3 Universal Ratchet Stock (1.1/2" & 2")
16G1	16005	1" OD Universal Ratchet Stock Guide
16G1.1/2	16006	1.1/2" OD Universal Ratchet Stock Guide
16G1.5/16	16007	1.5/16" OD Universal Ratchet Stock Guide
16G13/16	16008	13/16" OD Universal Ratchet Stock Guide
16G1E1/4	16009	1/4" Universal Ratchet Guide (1" OD)
16G1E3/8	16010	3/8" Universal Ratchet Guide (1" OD)
16G1E5/16	16011	5/16" Universal Ratchet Guide (1" OD)
16G1M10	16012	M10 Universal Ratchet Guide (1" OD)
16G1M5	16013	M5 Universal Ratchet Guide (1" OD)
16G1M6	16014	M6 Universal Ratchet Guide (1" OD)
16G1M7	16015	M7 Universal Ratchet Guide (1" OD)
16G1M8	16016	M8 Universal Ratchet Guide (1" OD)
16G1M9	16017	M9 Universal Ratchet Guide (1" OD)
16G2	16018	2" OD Universal Ratchet Stock Guide
16C1	16000	1" OD Universal Ratchet Stock Centre
16C1.1/2	16001	1.1/2" OD Universal Ratchet Stock Centre
16C1.5/16	16002	1.5/16" OD Universal Ratchet Stock Centre
16C13/16	16003	13/16" OD Universal Ratchet Stock Centre
16C2	16004	2" OD Universal Ratchet Stock Centre

PLEASE NOTE:

The Guide or Centre is fitted to the opposite side of the stock from the Die, therefore the outside diameter of the Guide or Centre will not be the same as the outside diameter of the Die being used.

FORGAL RATCHET SPANNERS



The Forgal Ratchet Spanner is favoured worldwide as ideal for work on oil rigs and ocean platforms.

The hard-wearing comfort grip handle has a safety strap to reduce the risk of falling tools and loss of valuable equipment when working at height. Thumb lever for easy reversible operation. The size of the Hexagon is 0.820" across flats (A/F). Sometimes referred to as a 7/16" whit spanner size or 1/2" size for BS1083.

Ask for other Hexagon sizes.

PART NO.	ITEM NO.	PART DESCRIPTION
13B.820HEXFORGAL(SP)	SPECIAL	(SP) .820" Hex 337 (No.2 Frame) 'Forgal' Lever

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For full product details



A RANGE OF TOOLS FOR THE
PROFESSIONAL ELECTRICIAN AND TRADESMAN

ELECTRICIANS TOOLS



ELECTRICIANS TOOLS

ELECTRICIANS CONECUT®



The perfect electricians cutting tool for rapid drilling and enlarging holes in thin material up to 2mm.

The diameter of the hole increases as the Conecut® advances into the material.

Clearly marked at 20mm and 25mm, introducing a new collar feature that defines the 25mm dia and stops the tool following through the hole.

PART NUMBER	ITEM NUMBER	DESCRIPTION	HOLE SIZE
02X20/25	02015	CCE 2025	20/25mm

CONECUT® METRIC/IMPERIAL



The most comprehensive range of Drills for all applications.

Below is listed our current standard stock range - please enquire for other sizes. When drilling metals always use cutting compound - available in 30cc, 60cc and 1/2 kilo sizes.

PART NUMBER	ITEM NUMBER	DESCRIPTION	METRIC RANGE	IMPERIAL RANGE APPROX	SHANK TO FIT CHUCK SIZE	DRILLING SPEEDS RPM FERROUS	DRILLING SPEEDS RPM NON-FERROUS
02X1	02002	CC1	6 - 20mm	(1/4" - 13/16")	3/8" (10mm)	200 - 600	500 - 1500
02X1A*	02004	CC1A	9.5 - 22.5mm	(3/8" - 7/8")	3/8" (10mm)	200 - 600	500 - 1500
02X2*	02006	CC2	16 - 30.5mm	(5/8" - 1.3/16")	3/8" (10mm)	150 - 400	400 - 1000
02X3	02008	CC3	25 - 40mm	(1" - 1.5/8")	3/8" (10mm)	100 - 300	300 - 500
02X25***	02012	CC25	16 - 25mm	(5/8" - 1")	3/8" (10mm)	150 - 400	400 - 1000

* Finishing diameters of sizes 1A and 2 are designed to produce the international standard hole sizes for fitting of pushbuttons and indicator lights *** Covers 20mm + 25mm conduit lights

MULTICUT® SPECIAL APPLICATION



All key sizes are marked on the tool.

PART NUMBER	ITEM NUMBER	DESCRIPTION
06X1232	06400	MC1232 Multicut®
06X1240	06402	MC1240 Multicut®
06XT1232	06700	MCT1232 Multicut® Core Drill
06XT1240	06702	MCT1240 Multicut® Core Drill
06XCT1225	06500	MCCT1225 12-25mm Clearance & Tapping Drill
06XCT1232	06502	MCCT1232 12-32mm Clearance & Tapping Drill
06X1625	06200	MC1625 (16-25mm-Conduit Entry) Multicut®
06X1632	06202	MC1632 (16-32mm Conduit Entry) Multicut®
06XPG21	06204	MCPG21 (PG7-PG21) Multicut®
06XPG29	06604	MCPG29 (PG7-PG29) Multicut®
06X521	06206	MC521 (Special Application) Multicut®
06X3/4KO	06300	MC3/4KO (7/8"-1.1/8") Multicut®
06X1KO	06302	MC1KO (7/8"-1.3/8") Multicut®

BRADRAD® SPECIAL APPLICATION - ELECTRICAL

A range of sizes specially designed for work with conduits.



PART NUMBER	ITEM NUMBER	DESCR.	PILOT	APPLICATION	TO FIT CHUCK	MAX MATERIAL THICKNESS	DRILLING SPEEDS RPM FERROUS	DRILLING SPEEDS RPM NON-FERROUS
01X1232	01360	BC1232	8mm	12mm to 32mm holes for conduit entry	10mm	3.5mm	90 - 300	300 - 750
01X1240	01362	BC1240	8mm	12mm to 32mm holes for conduit entry	13mm	3.5mm	70 - 220	220 - 550
01XT1240	01370	BCT1240	10.5mm	M12 to M40 (1.5mm) Drills core holes for ISO Conduit Threads	13mm	3.5mm	70 - 220	220 - 550

For more information about **Conecut®** and the full range of drills see **PlusCut** pages 24-25.

For more information about **Multicut®** and the full range of drills see **PlusCut** pages 26-27.

For more information about **Bradrad®** and the full range of drills see **PlusCut** pages 30-32.

CONDUIT DIES AND GUIDES



Conduit Dies

PART NUMBER	ITEM NUMBER	DESCR.	CONDUIT THREAD SIZE	DIE OUTSIDE DIAMETER	SERIES
03X1.1/4CFD	03017	1.1/4"	1.1/4x16	89mm (3.1/2")	D
03X1.1/2CFD	03013	1.1/2"	1.1/2x14	89mm (3.1/2")	F
03X2CFD	03044	2"	2x14	89mm (3.1/2")	F
03X16D	03024	M16	M16 x 1.5	42mm (1.21/32")	B
03X20D	03036	M20	M20 x 1.5	42mm (1.21/32")	B
03X25D	03040	M25	M25 x 1.5	42mm (1.21/32")	B
03X32D	03048	M32	M32 x 1.5	63.5mm (2.1/2")	D
03X40D	03052	M40	M40 x 1.5	63.5mm (2.1/2")	D



Conduit Guides

PART NUMBER	ITEM NUMBER	DESCR.	CONDUIT THREAD SIZE	GUIDE BORE DIAMETER	SERIES
03X1.1/4CFG	03018	1.1/4"	1.1/4x16	1.1/64"	D
03X1.1/2CFG	03014	1.1/2"	1.1/2x14	1.33/64"	F
03X2CFG	03045	2"	2x14	2.1/64"	F
03X16G	03025	M16	M16 x 1.5	16.5mm	B
03X20G	03037	M20	M20 x 1.5	20.5mm	B
03X25G	03041	M25	M25 x 1.5	25.5mm	B
03X32G	03049	M32	M32 x 1.5	32.5mm	D
03X40G	03053	M40	M40 x 1.5	40.5mm	D

DOUBLE HANDED DIESTOCKS



PART NUMBER	ITEM NUMBER	DESCR.	OVERALL LENGTH	DEPTH	WIDTH	SERIES
03XDHB	03055	DHB	410mm	36mm	58mm	B
03XDHD	03056	DHD	700mm	44mm	81mm	D
03XDHF	03057	DHF	940mm	60mm	105mm	F

RATCHET DIESTOCKS



PART NUMBER	ITEM NUMBER	DESCR.	OVERALL LENGTH	DEPTH	WIDTH	SERIES
03XRB	03058	RB	376mm	37mm	66.6mm	B
03XRD	03059	RD	649mm	63.5mm	86mm	D

CONDUIT DIE AND GUIDE SETS



Range with Double Handed Diestock

PART NUMBER	ITEM NUMBER	DESCR.	RANGE IN mm	SERIES	DIES	GUIDES	DIESTOCK
03XDHBMET2	03060	DHB/MET/2	16-20-25	B	16-20-25	16-20-25	DHB
03XDHBMET4	03061	DHB/MET/4	20-25	B	20-25	20-25	DHB
03XDHDMET1	03062	DHB/MET/1	32	D	32	32	DHD
03XDHDMET3	03063	DHB/MET/3	32-40	D	32-40	32-40	DHD

Range with Ratchet Diestock

PART NUMBER	ITEM NUMBER	DESCR.	RANGE IN mm	SERIES	DIES	GUIDES	DIESTOCK
03XRBMET2	03064	RB/MET/2	16-20-25	B	16-20-25	16-20-25	RB
03XRBMET4	03065	RB/MET/4	20-25	B	20-25	20-25	RB
03XRDMET1	03066	RD/MET/1	32	D	32	32	RD
03XRDMET3	03067	RD/MET/3	32-40	D	32-40	32-40	RD

HOLESAWS



PART NUMBER	ITEM NUMBER	NOMINAL CUT DIAMETER
11HM16	11003	16mm
11HM20	11004	20mm
11HM25	11005	25mm
11HM32	11006	32mm
11HM40	11007	40mm

HOLESAW ACCESSORIES



PART NUMBER	ITEM NUMBER	DESCRIPTION
11A1630	11001	Arbor and Pilot Drill to suit Holesaw M16 to M30
11D1/4	11002	Spare Pilot Drill to suit Arbor - Single
11D1/4X5	11000	Spare Pilot Drill to suit Arbor - Pack of 5

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ELECTRICIANS TOOLS

ELECTRICIANS EARTH PREPARATION TOOL

The Earth Preparation Tool enables the electrician to prepare the surface around 20, 25 or 32mm holes, ensuring a good clean earth contact is made for the earth lug.

The bright surface produced is even and neat and extends to provide a full contact on the mating part.



PART NUMBER	ITEM NUMBER	PART DESCRIPTION
03SA20/25ET	03010	20/32 EPT 20/25/32mm Cond. Earth Preparation Tool

CONDUIT ELECTRICAL TAPS



Single Thread Size Conduit Taps
Hexagon Shank - Carbon Steel

PART NUMBER	ITEM NUMBER	DESCRIPTION	OVERALL LENGTH	SHANK SIZE
03X12T	03022	M12 x 1.5	45mm	10mm A/F Hex
03X16T	03026	M16 x 1.5	45mm	10mm A/F Hex
03X20T	03038	M20 x 1.5	45mm	13mm A/F Hex
03X25T	03042	M25 x 1.5	45mm	13mm A/F Hex
03X32T	03050	M32 x 1.5	45mm	13mm A/F Hex



Multi Thread Size Conduit Taps
Hexagon Shank - Carbon Steel

PART NUMBER	ITEM NUMBER	DESCR.	CONDUIT THREAD SIZES	OVERALL LENGTH	SHANK SIZE
03X2025T	03032	M20/25	M20 x 1.5/M25 x 1.5	43mm	13mm A/F Hex
03X2032T	03034	M20/25/32	M20 x 1.5/M25 x 1.5/M32 x 1.5	55.5mm	13mm A/F Hex

HANDBIBURR®

A superb range of precision made hand tools for multiple applications. These are ideal time and efficiency saving tools for the professional Electrician.



CHAMFERBITS



PIPE REAMERS



TAPER REAMERS



MICRO DRILL REAMERS



RETHREADERS



LONG REACH RETHREADERS

! For more information about **Handiburr®** and the full range of hand tools see **Hand Tools** page 43.

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HEALTH & SAFETY

Cutting tools may shatter when broken. Please take adequate precautions to ensure personal protection.



G&J HALL

TOOLS



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SHEFFIELD
ENGLAND

PRODUCT CATALOGUE

ISSUE 5

DIRECT SALES LINE: +44 (0) 114 254 3206

G&J HALL, Burgess Road, Sheffield S9 3WD, England

Tel: +44 (0) 114 244 0562 | Fax: +44 (0) 114 244 9256 | Email: info@gjhall.co.uk

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www.gjhall.co.uk