

HOLECUTTING DRILLING & THREADING



OIL & GAS



STRUCTURAL STEEL



SHIPBUILDING



FABRICATION



ENERGY & RENEWABLES



ENGINEERING



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MAGNETIC DRILLING & ACCESSORIES RANGE

HARDLINE

Diameter
12mm - 150mm
Max. Depth
Up to 110mm depth

Page 29-30



MagCut Hardline TCT Cutter

The highest performance annular cutters in our range. Excellent for all steels up to a strength of 1400N and for all stainless steels. Faster cutting and exceptional life with the carbide teeth.

BLUELINE

Diameter
12mm - 60mm
Max. Depth
Up to 110mm

Page 31



MagCut Blueline Coated Cutter

The Blueline Coated Cutter boasts to be our first class annular cutter equipped with the unique and patented Durablue coating. Extreme surface hardness and sleekness yield extreme lifetimes even under non-optimum circumstances like overhead work and dry drilling.

GOLDLINE

Diameter
12mm - 60mm
Max. Depth
Up to 110mm

Page 32-33



MagCut Goldline Cutter

The Goldline Annular cutter boasts higher lifetimes thanks to the Special Surface treatment Gold-Tech + Fully Ground cutter together with the HSS-XE Steel, this cutter is ideal for drilling in steel up to 900N and even stainless steel.

SILVERLINE

Diameter
12mm - 60mm
Max. Depth
Up to 500mm

Page 33



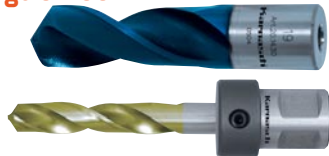
MagCut Silverline Cutter

The Silverline Cutter boasts its quality being made from HSS-XE Special Steel, Step Hardened and up to 7 different cutting geometries suitable for drilling all structural steel upto a 750N Strength. The Step Hardening is unique to Karnasch making extremely hard tooth tips and yet a flexible cutter.

DRILL-LINE

Diameter
6mm - 32mm
Max. Depth
Up to 50mm

Page 34-35



Drill Line Blue Coated and HSS-Co + TIN Coated Twist Drills

The Drill Line series of drills boast from Durablue coating to HSS-Co + TIN Coating drills enhancing tool life and increasing the speed and feeds for drilling. These drills are designed for specific special applications and for smaller tapping size hole drilling.

TAP-LINE

Diameter
M6 - M30

Page 36-37



MagCut Tap-Line

The HSS-Co Cobalt + TIN Coated machine taps for through holes. These taps can be driven by magnetic drill from an adaptor to fit each tap. The Cobalt steel and TIN coating substantially increases the service life of the tap even in difficult materials like stainless.

COUNTERSINK LINE Page 40

Diameter
25mm - 55mm



MagCut Countersink Line

The range of countersinks for direct fit into magnetic drills is covered in this range. From HSS-XE Steel for all standard steels, to the HSS-XE Blue Coated countersink for harder steels such as stainless to the Carbide Tipped Countersink for all steels up to and over 1000N always boasting optimum tool life.

ACCESSORY LINE Page 41-42



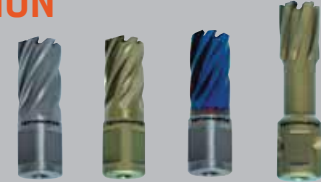
Accessories Line

Accessories Line boasts a large range from adaptors, extensions, arbours, chucks, different pilots pins etc. Any difficult drilling application can be covered here by the help of such a large accessories range.



DRILLING CUTTER INFORMATION

Product information core drill qualities



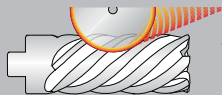
Made of high-alloy HSS-XE special steel. For extreme hardness at the top edge (up to 68 HRC). Ensuring high durability.



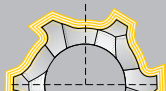
Made of ASP powdered steel to drill also most difficult materials such as railroad tracks, stainless steels, exotic alloys. Always applicable anywhere where longest durability are required.



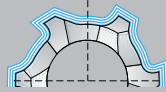
Only a few manufacturers are able to produce HSS core drills which are hardened in steps. For Karnasch this is a "standard" product. Only this way, we are achieving extremely hard top edges (68 HRC) and nonetheless a flexible core drill.



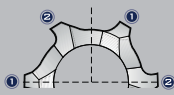
Completely sharpened HSS-XE / ASP core drills of the full material. This finishing grinding increases the chipping performance by reducing the friction at the same time. For a longer durability.



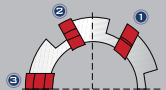
Gold-Tech surface treatment.
The special treatment for longer durability.



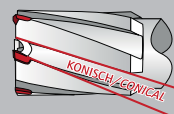
Our core drills HSS-XE/ASP core drills + full drills of highest quality are having the unique and patented Durablue coating. Extreme surface hardness and smoothness are resulting in extremely long durability. Also if the working conditions are not optimum, for instance, if you need the work "upside down" for dry drilling, etc.



For HSS-XE / ASP core drills we are not content with one cutting edge geometry. Five geometries had been specially optimally adapted to the different diameters and cutting depths. You always receive the perfect geometry.



Karnasch carbide-tipped core drills [Hard-Line] are manufactured with an elaborate pre-middle rethreading geometry. This results in: Low-vibration, smooth and easy chipping at longest durability.



Karnasch carbide-tipped core drills [Hard-Line] are manufactured with a conical spiral for: Proper chip flow and highest chipping power also for difficult materials. [heavy duty cutter]



Karnasch carbide-tipped core drills [Hard-Line] are exclusively tipped using Sandvik carbide teeth. We think: Only the best hard metal is just good enough for the Karnasch core drills.

	SILVER-LINE	GOLD-LINE	BLUE-LINE	HARD-LINE
HSS-XE	✓	✓	✓	
ASP				
WEICH SOFT / HART HARD	✓	✓	✓	
Sharpened		✓	✓	
Gold-Tech		✓		
Durablue			✓	
5 Geometries	✓	✓	✓	
Carbide-tipped (rethreaded)				✓
Carbide-tipped (conical spiral)				✓
Sandvik carbide teeth				✓



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CUTTER APPLICATION CHART

Which cutter for which material?

Accuracy of the drills (standard values):
input + 0.10 mm / output ± 0 mm

Optimum	●●●
Good	●●
Possible	●



Type	silver-line	gold-line	blue-line	hard-line
Steel < 500 N	●●●	●●●	●●●	●●●
Steel < 750 N	●●	●●●	●●●	●●●
Steel < 900 N	●	●●	●●●	●●●
Steel < 1100 N		●	●●	●●●
Steel < 1400 N			●	●●●
Stainless steel < 900 N			●●	●●●
Stainless steel > 900 N			●	●●●
Aluminium < 10% Si	●	●●	●●●	●●●
Aluminium > 10% Si		●	●●	●●●
Copper, brass, nickel, tin			●●●	●●●
Plastic materials GFK/CFK			●●●	●●●
Grey cast-iron		●●	●●	●●●
Graphite				●●●
Hardox, Hastelloy, Inconell, Nimonic, exotic materials			●	●●●
Rails			●	●●

Feed mm/rev.

	Feed for HSS-XE / ASP Core drills: Silver-Line, Gold-Line, Blue-Line	Feed standard values for HM core drills: Hard-Line
Steel < 500 N	0.15	0.10
Steel < 750 N	0.18	0.10
Steel < 900 N	0.16	0.10-0.12
Steel < 1200 N	0.16	0.10-0.15
Steel < 1400 N	0.17	0.16
Stainless steel	0.10	0.13
Aluminium	0.25	0.24
Grey cast-iron	0.16	0.08-0.13
Bronze	0.18	0.12
Copper	0.21	0.12

Grey cast cutting edge cooling: Dry / Compressed air
For all materials cutting oil is being recommended!

Application notes:

- Centre-punching for core drills. For core drills diameter from 12-15mm it is absolutely necessary to set a big punching point. Make sure that the tip of the ejector pin is exactly positioned in the centre of the centre drill. This procedure is also highly recommended for all other diameters.
- Speeds for core drills. For HSS core drills from 12-15mm a minimum speed of 450 min⁻¹ needs to be applied. For HM core drills a minimum speed of about 600 min⁻¹ would be optimum. If this is not possible, you need to work using half the recommended feed.
- Feed. Imperatively start drilling carefully and slowly a depth of 1mm. Then you can continue working with the recommended feed. Please follow this advice. It will considerably increase the durability of the drill.
- Drilling. Depending on the chip flow, you need to discharge the drill more often. This particularly applies for cutting depths from about 25mm on. If you feel e.g. an increase of resistance or vibration, please immediately proceed as follows:
 - Extract the drill from the drilling hole keeping it running.
 - Clean the drill and the drilling hole from chips (e.g. using a blow gun)
 - Fill the drilling hole with coolant or lubricating emulsion.
 - Insert the drill in running status slowly and carefully into the already existing hole. During this whole procedure you must not change the site of the machine or of the workpiece.
 - Depending on the chipping and the drilling depth repeat this procedure several times.
- Cooling. Only use super-speed steel cutting oils. From about 35mm Ø on, please use Morse taper fixtures with automatic internal cooling.



CUTTER SHANK SELECTION

WELDON

[19mm or 32mm] fits all standard magnetic drills



UNIVERSAL

fits all standard magnetic drills but also suits all NITTO quick release drills



FEIN

for all Fein magnetic drills



STOCKED RANGE





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MAGCUT HARDLINE TCT CUTTER

SPEEDS & FEEDS CAN BE FOUND ON PAGES 27 & 124

MAGCUT HARDLINE TCT CUTTER

Description: MAGCUT HARDLINE TCT CUTTERS offer the best value for money capable of drilling the hardest known steels, providing unbeatable performance.





Application: The MagCut Hardline is the only cutter suitable for drilling the below, thanks to the superior carbide teeth and special teeth geometry

- Drill in hardened steel up to 40 Rockwell (HRC)
- Drill in all sorts of stainless steel
- Drill in most difficult alloys (Hardox/Inconell/Titan)
- Drill in all non-ferrous materials such as aluminium, copper, brass

Magcut Hardline Tungsten Carbide Tipped Cutters are available in cutting depths 40/55/80/110 and diameters 12 - 150mm

	Depth	Dia Ø	Stock Code
	40mm	12mm - 120mm	14503-DIA
	55mm	12mm - 150mm	14504-DIA
	80mm	18mm - 120mm	14505-DIA
	110mm	18mm - 120mm	14506-DIA
Short Thin Pilot Pin - to suit 14503-12 to 14503-17	40mm	12mm - 17mm	14507
Standard Pilot Pin - to suit 14503-18 to 14503-65	40mm	18mm - 65mm	14508
Long Pilot Pin - to suit 14503-66 to 14503-120	40mm	66mm - 120mm	14510
Short Thin Pilot Pin - to suit 14504-12 to 14504-17	55mm	12mm - 17mm	14509
Standard Pilot Pin - to suit 14504-18 to 14504-65	55mm	18mm - 60mm	14510
Long Pilot Pin - to suit 14504-66 to 14504-120	55mm	61mm - 150mm	14513
Long Pilot Pin - to suit 14505-12 to 14505-60	80mm	18mm - 60mm	14514
Extra Long Pilot Pin - to suit 14505-61 to 14505-120	80mm	61mm - 120mm	14515
Long Pilot Pin - to suit 14506-18 to 14506-60	110mm	18mm - 55mm	14512
Extra Long Pilot Pin - to suit 14506-61 to 14506-120	110mm	56mm - 120mm	14516

MAGCUT HARDLINE TCT CUTTER (UNIVERSAL)


	Depth	Dia Ø	Stock Code
	40mm	12mm - 50mm	14499-DIA
	55mm	12mm - 50mm	14500-DIA
	80mm	18mm - 50mm	14501-DIA
	110mm	18mm - 50mm	14502-DIA
Short Thin Pilot Pin - to suit 14499-12 to 14499-17	40mm	12mm - 17mm	14507
Standard Pilot Pin - to suit 14499-18 to 14499-60	40mm	18mm - 50mm	14508
Short Thin Pilot Pin - to suit 14500-12 to 14500-17	55mm	12mm - 17mm	14509
Standard Pilot Pin - to suit 14500-18 to 14500-50	55mm	18mm - 50mm	14510
Long Pilot Pin - to suit 14501-18 to 14501-50	80mm	18mm - 50mm	14514
Long Pilot Pin - to suit 14502-18 to 14502-50	110mm	18mm - 50mm	14512





MAGCUT HARDLINE TCT CUTTER

SPEEDS & FEEDS CAN BE FOUND ON PAGES 27 & 124

MAGCUT HARDLINE TCT CUTTER - (UNIVERSAL) SHANK IMPERIAL SIZING

	Depth	Dia Ø	Stock Code
	40mm	1/2" to 2 1/16"	14517-DIA
	55mm	1/2" to 2"	14518-DIA
	80mm	1 1/16" to 2 1/16"	14519-DIA
Standard Pilot Pin - to suit 14517	40mm	1/2" to 2 1/16"	14507
Standard Pilot Pin - to suit 14518	55mm	1/2" to 2 1/16"	14509
Standard Pilot Pin - to suit 14519	80mm	1 1/16" to 2 1/16"	14514

MAGCUT HARDLINE TCT (FEINCUTTER) - Quick in

	Depth	Dia Ø	Stock Code
	40mm	12mm to 65mm	14520-DIA
	55mm	12mm to 60mm	14521-DIA
Standard Pilot Pin - to suit 14520	40mm	12mm to 65mm	14507
Standard Pilot Pin - to suit 14521	55mm	12mm to 60mm	14509

MAGCUT RAIL-LINE TCT CUTTER (WELDON)

	Depth	Dia Ø	Stock Code
	30mm	18mm to 38mm	14522-DIA
	55mm	18mm to 36mm	14523-DIA
Standard Pilot Pin - to suit 14522	30mm	18mm to 38mm	14525
Standard Pilot Pin - to suit 14523	55mm	18mm to 36mm	14509



THIS 4 MORSE TAPER MACHINE CAN BE FOUND ON PAGE 90



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MAGCUT BLUELINE TCT CUTTER

SPEEDS & FEEDS CAN BE FOUND ON PAGES 27 & 124





MAGCUT BLUELINE CUTTER (WELDON)

Description: BLUELINE HSS-XE is the most commonly used cutter offering the best price performance ratio for all steels 1100N and stainless. This first class cutter with a durable coating can withstand extreme surface hardness providing good cutter lifetime and performance.

Application: Chart Page 27

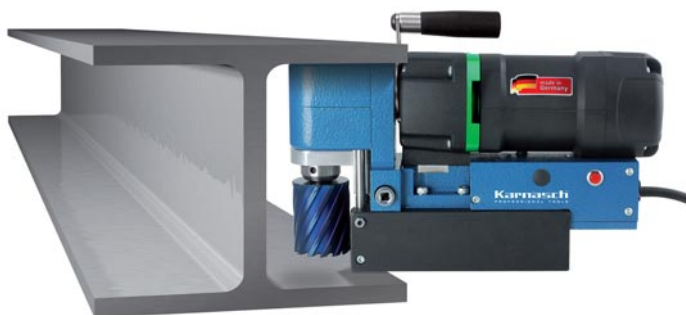
	Depth	Dia Ø	Stock Code
	30mm	12mm - 60mm	14526-DIA
	55mm	12mm - 60mm	14527-DIA
	80mm	18mm - 50mm	14528-DIA
	110mm	18mm - 50mm	14529-DIA

MAGCUT BLUELINE CUTTER (UNIVERSAL)

	Depth	Dia Ø	Stock Code
	30mm	12mm - 60mm	14530-DIA
	55mm	12mm - 60mm	14531-DIA
	80mm	18mm - 50mm	14532-DIA
	110mm	18mm - 50mm	14533-DIA

Standard Pilot Pin - to suit 14526 & 14530	14525
Standard Pilot Pin - to suit 14527 & 14531	14509
Standard Pilot Pin - to suit 14528 & 14532	14514
Standard Pilot Pin - to suit 14529 & 14533	14512

HOLOCUTTING, DRILLING & THREADING





SPEEDS & FEEDS CAN BE FOUND ON PAGES 27 & 124

MAGCUT GOLDLINE CUTTER

MAGCUT GOLDLINE CUTTER

Description: The MAGCUT GOLDLINE CUTTERS are the most commonly used non-coated HSS-XE core drill. With special gold-tech surface treatment and fully ground, the cutter is excellent for drilling in steel up to 900N and even suitable for Stainless Steel. Gold-tech surface treatment creating greater drilling performance and lifetime.

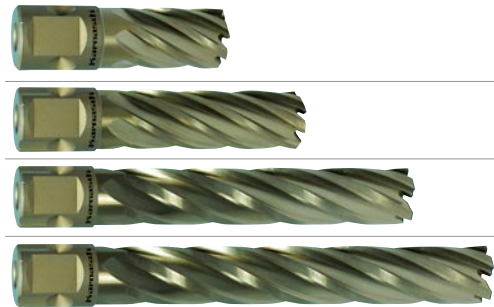
Application: Chart Page 27

MAGCUT GOLDLINE CUTTER (WELDON)



Depth	Dia Ø	Stock Code
30mm	12mm - 60mm	14534-DIA
55mm	12mm - 60mm	14535-DIA
80mm	18mm - 50mm	14536-DIA
110mm	18mm - 50mm	14537-DIA

MAGCUT GOLDLINE CUTTER (UNIVERSAL)



Depth	Dia Ø	Stock Code
30mm	12mm - 60mm	14538-DIA
55mm	12mm - 60mm	14539-DIA
80mm	18mm - 50mm	14540-DIA
110mm	18mm - 50mm	14541-DIA

MAGCUT GOLDLINE (FEINCUTTER)



Depth	Dia Ø	Stock Code
40mm	12mm - 60mm	14542-DIA

Standard Pilot Pin - to suit 14542

14507

MAGCUT GOLDLINE SANDWICH CUTTER (UNIVERSAL) For cutting through more than one plate



Depth	Dia Ø	Stock Code
30mm	14mm - 32mm	14543-DIA
55mm	14mm - 32mm	14544-DIA

Standard Pilot Pin - to suit 14534, 14538, 14542 & 14543

14525

Standard Pilot Pin - to suit 14535, 14539 & 14544

14509

Standard Pilot Pin - to suit 14536 & 14540

14514

Standard Pilot Pin - to suit 14537 & 14541

14512

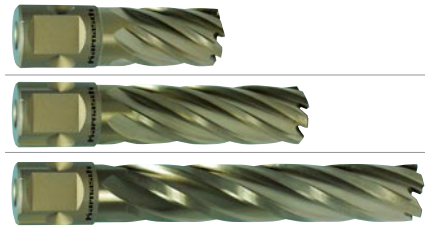


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MAGCUT GOLDLINE CUTTER

SPEEDS & FEEDS CAN BE FOUND ON PAGES 27 & 124

MAGCUT GOLDLINE CUTTER (UNIVERSAL) IMPERIAL



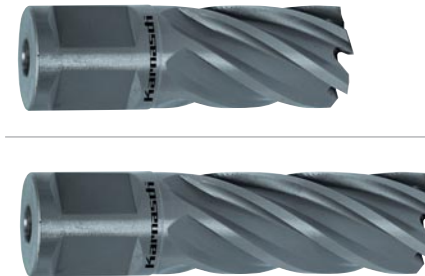
Short Pilot Pin - to suit 14546-7/16"
Short Pilot Pin - to suit 14546-7/16"
Standard Pilot Pin - to suit 14545
Standard Pilot Pin - to suit 14546
Long Pilot Pin - to suit 14547

Depth	Dia Ø	Stock Code
30mm	7/16" to 2 1/16"	14545-DIA
55mm	7/16" to 2 1/16"	14546-DIA
80mm	1 1/16" to 2 1/16"	14547-DIA

MAGCUT SILVERLINE CUTTER

MAGCUT SILVERLINE (WELDON) CUTTER METRIC

Description: MAGCUT SILVERLINE CUTTER is made of HSS-XE steel + step hardened providing excellent durability and sturdiness. Excellent cutter for all structural steels up to 700N, thus guaranteeing a high wear resistance and lifetime application.



Standard Short Pilot Pin - to suit 14550
Standard Long Pilot Pin - to suit 14551

Depth	Dia Ø	Stock Code
25mm	12mm - 60mm	14550-DIA
50mm	12mm - 48mm	14551-DIA

MAGCUT SILVERLINE (WELDON) CUTTER SETS METRIC - 25mm & 50mm Depth



Stock Code
14552
Size Range
6 Pieces
Ø14mm, Ø16mm
Ø18mm, Ø20mm
Ø22mm, Ø26mm
+2 Pilot Pins

25mm Depth



Stock Code
14553
Size Range
39 pieces
Ø12mm
to Ø50mm
+4 Pilot Pins



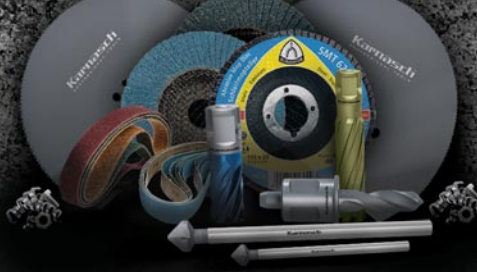
Stock Code
14554
Size Range
6 Pieces
Ø14mm, Ø16mm
Ø18mm, Ø20mm
Ø22mm, Ø26mm
+2 Pilot Pins

50mm Depth



Stock Code
14555
Size Range
39 pieces
Ø12mm
to Ø50mm
+4 Pilot Pins

HOLOCUTTING, DRILLING & THREADING



SPIRAL DURABLU - TWIST DRILL LINE

Our first class Durablue Twist Drill is equipped with the unique and patented durablue coating:

- Extreme surface hardness and sleekness yield extreme lifetimes, produced in heavy duty geometry for immediate self-centring, easy-cutting and the highest lifetimes.
- Made of ASP powder steel for drilling of difficult materials like railway tracks, stainless, exotic alloys.
- Applicable wherever a high resistance and lifetime is required.

Magcut Tungsten Carbide Tipped Rail Cutters are available in cutting depths 30mm/55mm and in diameters of 18-38mm.



30mm Depth

Stock Code	Ø mm	Stock Code	Ø mm	Stock Code	Ø mm
14556-17	• 17	14556-21	• 21	14556-27.5	• 27.5
14556-18	• 18	14556-22	• 22		
14556-19	• 19	14556-23	• 23		
14556-20	• 20	14556-24	• 24		



55mm Depth

Stock Code	Ø mm	Stock Code	Ø mm	Stock Code	Ø mm	Stock Code	Ø mm
14557-14	• 14	14557-18	• 18	14557-22	• 22	14557-26	• 26
14557-15	• 15	14557-19	• 19	14557-23	• 23	14557-27	• 27
14557-16	• 16	14557-20	• 20	14557-24	• 24	14557-28	• 28
14557-17	• 17	14557-21	• 21	14557-25	• 25	14557-30	• 30
						14557-32	• 32

SPIRAL MAGTWIST DRILL LINE

Made of high alloyed HSS-XE special steel, extreme hardness at the tip of the tooth (up to 68HRC). Thus guaranteeing a high wear resistance and life time. 17mm - 27.5mm has an internal cooling system.



Stock Code	Ø mm	Stock Code	Ø mm
14558-6	• 6	14558-14	• 14
14558-8	• 8	14558-15	• 15
14558-9.8	• 9.8	14558-16	• 16
14558-10	• 10		
14558-11	• 11		
14558-12	• 12		
14558-13	• 13		
14558-13.5	• 13.5		



Stock Code	Ø mm
14558-17	• 17
14558-18	• 18
14558-19	• 19
14558-20	• 20
14558-21	• 21
14558-22	• 22
14558-23	• 23
14558-24	• 24
14558-27.5	• 27.5



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MAGTWIST JOBBER DRILL LINE

Weldon Adaptor 19mm (3/4") + HSS-Co Twist Drills (Tin Coated).

























HSS-Co Cobalt + TiN coated twist drills

Cobalt steel + tin coating for a further substantial increase in service life also when machining dry (no/little cooling)

Excellent for drilling in:

- High-alloyed chromium steel such as stainless (V2A / V4A)
- Acid resistant steel
- Steel
- Cast iron
- Non ferrous material
- Plastics

Fast, inexpensive and accurate holes with Karnasch high-performance twist drills + twist drill adaptor Weldon.

Stock Code	Adaptor to suit	Twist Drill	Stock Code	For thread siz
14559.010			0.4mm 14560.010	-
14559.020			0.5mm 14560.020	M 6
14559.030			0.6mm 14560.030	-
14559.035			0.6.8mm 14560.035	M 8
14559.040			0.7mm 14560.040	-
14559.050			0.8mm 14560.050	-
14559.055			0.8.5mm 14560.055	M 10
14559.060			0.9mm 14560.060	-
14559.070			0.10mm 14560.070	-
14559.075			0.10.3mm 14560.075	M 12
14559.080			0.11mm 14560.080	-
14559.090			0.12mm 14560.090	M 16



MAGTAP LINE
























Tapping adaptor with Weldon shank 19/32mm + HSS C05 Tin-coated Taps

**HSS-Co Cobalt + TiN coated machine taps for through holes.
M DIN 371/376 Metric DIN ISO 13**

Cobalt steel + tin coating for a further substantial increase in service life also when machining dry (no/little cooling)

Excellent for tapping in:

- High-alloyed chromium steel such as stainless (V2A / V4A)
- Acid resistant steel
- Steel
- Cast iron
- Non ferrous material
- Plastics

Weldon	Adaptor	Taps	M	d1 Ømm Karnasch Core Hole	d2 mm	L1 mm	L2 mm	Pitch mm
		Stock Code	Stock Code					
19mm 3/4"		14561.010 	14562.010	M 6 DIN371	5.00	6	80	15 4.9 1.00 32
19mm 3/4"		14561.020 	14562.020	M 8 DIN371	6.80	8	90	18 6.2 1.25 36
19mm 3/4"		14561.030 	14562.030	M 10 DIN376	8.50	7	100	20
19mm 3/4"		14561.040 	14562.040	M 12 DIN376	10.30	9	110	23
19mm 3/4"		14561.050 	14562.050	M 14 DIN376	12.00	11	110	25
19mm 3/4"		14561.060 	14562.060	M 16 DIN376	14.00	12	110	25
19mm 3/4"		14561.070 	14562.070	M 18 DIN376	15.50	14	125	30
19mm 3/4"		14561.080 	14562.080	M 20 DIN376	17.50	16	140	30
32mm 1 1/4"		14561.090 	14562.090	M 22 DIN376	19.50	18	140	30
		14561.100 	14562.100	M 24 DIN376	21.00	18	160	36
32mm 1 1/4"		14561.110 	14562.110	M 27 DIN376	24.00	20	160	36
32mm 1 1/4"		14561.120 	14562.110	M 30 DIN376	26.50	22	180	48



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MAGTAP LINE

COMBI DRILL/TAP KIT

Unique tools to simplify drilling and tapping using the Powerbor® Electro Magnetic Drilling System

Specially designed taps used together with either Blue Mag Tap 1/4" HEX shank drills or Blue Mag Cut cutters for drilling the core diameters. The MAGTAP® COMBI DRILL/TAP KIT eliminates the need for tapping attachments.



MAG-TAP® COMBI DRILL/TAP KIT

	M6	M8	M10
KIT	13000	13001	13002
ADAPTOR	13003	13003	13003
DRILL	13006	13007	13008
TAP	13009	13010	13011

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.



MAG-TAP® COMBI DRILL/TAP KIT

	M12	M16	M20	M24
KIT	13012	13013	13014	13015
CORE CUTTER	13016	13017	13018	13019
TAP	13020	13021	13022	13023

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.

- * Reduces set up time
- * No more misalignment between core and tap
- * No need for tap driving equipment
- * Correct core hole size and thread every time
- * Suitable for plate with a thickness equal to the thread size
- * Includes a safety recess at the end of the thread to avoid tool damage whilst threading
- * Simple to use, producing top quality threads



MAG-TAP® 2-IN-1 DRILL/TAPS

Available packaged in the following sizes:

- M12** - 13024
- M16** - 13025
- M20** - 13026
- M24** - 13027



MAG-TAP® 2-IN-1 DRILL/TAP SET

Contains M12, M16, M20 and M24
Mag-tap® 2-in-1 Drill/Taps - 13028

HOLOCUTTING, DRILLING & THREADING

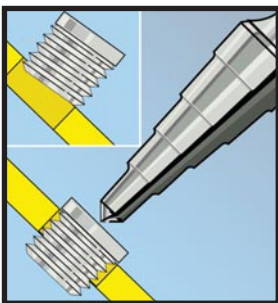


MAG-STEP™ DRILL LINE

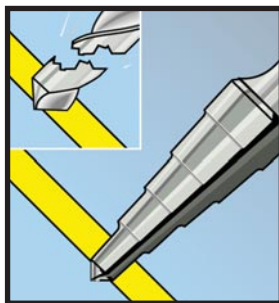


This innovative step drill has been designed for use with most popular ranges of Electromagnetic drilling machines. The unique design of the Mag-Step™ allows a number of popular hole sizes to be drilled with just one tool. The new Mag-Step™ Drill offers a number of advantages over conventional drilling and cutting methods and can be used for many different industrial applications.

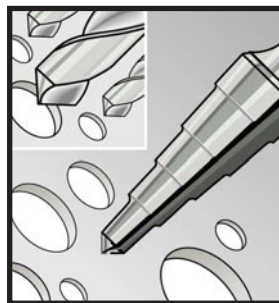
ADVANTAGES OVER CONVENTIONAL DRILLS



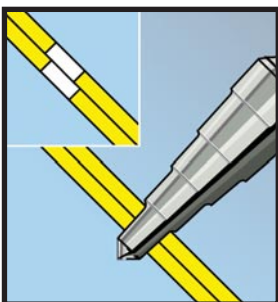
Easy to enlarge holes



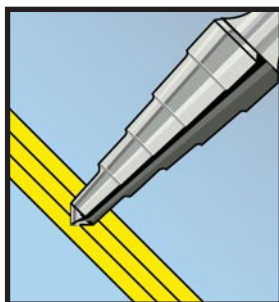
Increased rigidity



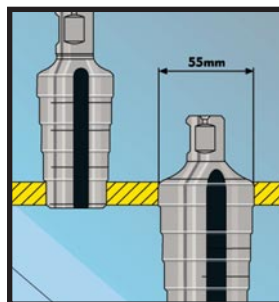
3 or 5 drill sizes on 1 tool



Rectify out of line holes



Drill through several stacked plates



Increased maximum diameter capability of Magnetic® Drilling Machine

Industrial Application Examples:

- * General engineering
- * Bridge and highway maintenance
- * Truck and trailer manufacturing
- * Construction
- * Shipbuilding and railroad
- * Offshore rigs and pipelines
- * Elevator repair
- * General metal fabrications



Mag-Step™ Drill Sizes

5 steps = material thickness 12mm

Stock Code

11255	8,10,12,14,16 [2 flutes]
11256	10,12,14,16,18 [2 flutes]
11257	20,22,24,26,28 [2 flutes]
11258	30,32,34,36,38 [2 flutes]
11259	40,42,44,46,48 [2 flutes]

3 steps = material thickness 25mm

Stock Code

11260	10,12,14 [2 flutes]
11261	16,18,20 [2 flutes]
11262	22,24,26 [3 flutes]
11263	28,30,32 [3 flutes]
11264	34,36,38 [3 flutes]
11265	40,42,44 [3 flutes]
11266	46,48,50 [5 flutes]



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MAGCUT REAMING PRODUCT RANGE



Set of 3 Most Common Sizes

Stock Code	14601
Set includes	
14600-14	M14
14600-18	M18
14600-22	M22

Set of 4 Most common sizes

Stock Code	14602
Set includes	
14600-14	M14
14600-18	M18
14600-22	M22
14600-26	M26

The All New MagCut Reamer has an engineered hex shank for use in battery, electric or pneumatic Impact Wrenches. This reamer is designed for aligning and enlarging existing holes which are overlapping, or smaller than the required diameter. Easy to use and easily accessible at height, fit the MagCut Reamer into the socket on your Impact wrench and quickly and simply enlarge the existing hole to the desired size. The New MagCut reamers are designed for aligning and enlarging existing holes in structural steel, bridge fabrications, ship building and other heavy industry. Available in the most common structural bolt hole sizes, M14, M18, M22, M26 and M32

MagCut Impact Sockets

Stock Code	Drive	Hex Size	Suit Reamer
14603-1	3/4"	24mm	14600-14 & 14600-18
14603-2	3/4"	36mm	14600-22
14603-3	3/4"	41mm	14600-126
14603-4	3/4"	46mm	14600-32



Hex Shank Range

Stock Code	Max Diameter	Enlargement Depth	Start Diameter	Hex Diameter	Overall Length
14600-14	14mm	50mm	7.1mm	24mm	140mm
14600-18	18mm	58mm	9.4mm	24mm	165mm
14600-22	22mm	65mm	13.2mm	36mm	178mm
14600-26	26mm	60mm	15.9mm	41mm	178mm
14600-32	32mm	63mm	22.5mm	46mm	178mm

Information Guide

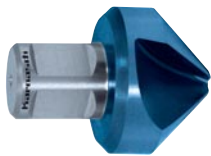
Cutting Tool	Size	Material	Recommended Torque Guide	Assumption
MagCut Reamer	14mm	10mm Structural Steel	320Nm	3mm Enlargement
MagCut Reamer	18mm	15mm Structural Steel	360Nm	3mm Enlargement
MagCut Reamer	22mm	15mm Structural Steel	400Nm	3mm Enlargement
MagCut Reamer	26mm	15mm Structural Steel	520Nm	3mm Enlargement
MagCut Reamer	32mm	15mm Structural Steel	1010Nm	3mm Enlargement
MagCut Reamer	36mm	15mm Structural Steel	1520Nm	3mm Enlargement
MagCut Reamer	39mm	15mm Structural Steel	1740Nm	3mm Enlargement



HOLECUTTING, DRILLING & THREADING



MAG COUNTERSINKS



HSS-XE Steel Blue Tec Coated 90° Countersink

Made of high-alloyed special steel XE for considerably longer surface life than HSS-Steel BLUE TEC coating for a further substantial increase in service life also when machining dry (no/little cooling)

Excellent for countersinking in:

- High-alloyed chromium steel such as stainless (V2A / V4A)
- Acid resistant steel
- Steel
- Cast iron
- Non ferrous material

Diameter Ø mm	Small Size Ø mm	Total Length	Stock Code
25	4	45	14564-25
30	4	47	14564-30
40	7	52	14564-40
55	9	60	14564-55

HSS-XE Steel 90° Countersink

Made of high-alloyed special steel XE for considerably longer surface life than HSS-Steel

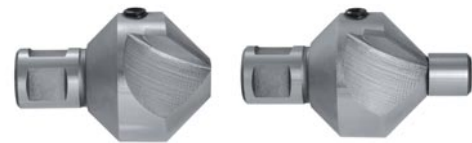
Excellent for countersinking in:

- Steel
- Cast iron
- Non ferrous material



Diameter Ø mm	Small Size Ø mm	Total Length	Stock Code
25	4	45	14563-25
30	4	47	14563-30
40	7	52	14563-40
55	9	60	14563-55

Tungsten Carbide tipped for maximum tool life, even in most difficult materials.






Excellent for countersinking in:

- Abrasive and hard steel with a strength of over 1000N/mm²
- Grey cast iron over 240HB
- High-alloyed chromium steel such as stainless (V2A/V4A)
- Acid resistant steel
- Titanium and titanium alloys
- All further steel sorts, cast iron, non ferrous material where maximum tool life is desired

Diameter Ø mm	Small Size Ø mm	Total Length	Stock Code
40	10	60	14565

Pilots to suit above countersink for centring
Ø mm










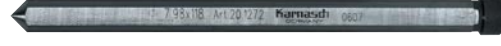


14		14566-14
18		14566-18
22		14566-22



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MAGCUT ACCESSORIES

Adaptors for different Magnetic Drills/Cutter Shanks

	Stock Code		Stock Code
Fein to 19mm Weldon Adaptor - 6.34mm Pilot To suit 12-17mm Cutter	14567		
Pilot Pin to suit 55mm depth of cutter	14588		
Fein to 19mm Weldon Adaptor - 7.98mm Pilot To suit 18-65mm Cutter	14568		
Pilot Pin to suit 55mm depth of cutter	14514		
19mm Universal to 19mm Weldon Adaptor - 6.34mm Pilot To suit 12-17mm Cutter	14569		
Pilot Pin to suit 55mm depth of cutter	14588		
19mm Universal to 19mm Weldon Adaptor - 7.98mm Pilot To suit 18-65mm Cutter	14570		
Pilot Pin to suit 55mm depth of cutter	14514		
19mm Weldon to 32mm Weldon Adaptor 66 -150mm Cutter	14571		
Pilot Pin to suit 55mm depth of cutter	14515		
		Extensions for Magnetic Drills - with .798mm Pilot	14572
		50mm Extension	018 - 65mm
			
		Pilot Pin to suit 55mm depth of cutter	14589
		12-17mm	14512
		18-60mm	
			
		75mm Extension	14573
		018 - 65mm	
			
		Pilot Pin to suit 55mm depth of cutter	14590
		12-17mm	14591
		18-60mm	
			
		100mm Extension	14574
		018 - 65mm	
			
		Pilot Pin to suit 55mm depth of cutter	14592
		12-17mm	14593
		18-60mm	
			

HOLOCUTTING, DRILLING & THREADING



MAGCUT ACCESSORIES

Adaptors for different Magnetic Drills/Cutter Shanks

Weldon to Chuck Adaptor



Stock Code
14575

Fein to Chuck Adaptor



14579

Morse Taper to Chuck Adaptors

2 Morse Taper



14576

3 Morse Taper



14577

Quick release (keyless) drill chuck for twist drills Ø 1 - 13mm



14578

1 - 13mm Keyed heavy duty chuck c/w key



14580

Quick Change Morse Taper Cutter Arbors -19mm Weldon/Universal

2 Morse Taper



Stock Code
14581

3 Morse Taper



14582

Standard Screw Morse Taper Cutter Arbors -19mm Weldon/Universal

2 Morse Taper



14583

3 Morse Taper



14584

4 Morse Taper



14585

Standard Screw Morse Taper Cutter Arbors -32mm Weldon

3 Morse Taper



14586

4 Morse Taper



14587



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POWERMAX LINE

Description: Super Powermax Carbide Tipped Holesaws with Quick-change shank system for almost unlimited use on handheld machines, magnetic drilling machines, radial drilling machines. Carbide tipped therefore capable of drilling through many different steels including stainless, fibreglass, copper, brass and aluminium.

Application

Steel	Steel	Steel	Steel	Steel	Stainless	Stainless	Alu	Alu	Copper Brass Tin	Plastics Plexiglass Fibreglass	Grey Cast Iron	Sandwich Materials
<500N	<750N	<900N	<1100N	<1400N	<900N	>900N	<10%Si	>10%Si				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Advantages:

1. High-alloyed chromium steel such as stainless (V2A / V4A)
2. Fits all POWER-MAX hole saw diameters from 14mm
3. Since the ejector pin does not drill through the material (as usual with hole saw with centre drills), a continuous drilling operation is possible

The inevitable 'crashing' of the hole saw on the work piece after the break through of the centre drill will be avoided (the main reason for tooth fracture at the hole saw).

POWERMAX 30 - SUPER HEAVY DUTY



Also ideal for drilling through pipes



Depth	Dia Ø	Stock Code
30mm	14mm - 150mm	18510-DIA Complete Body

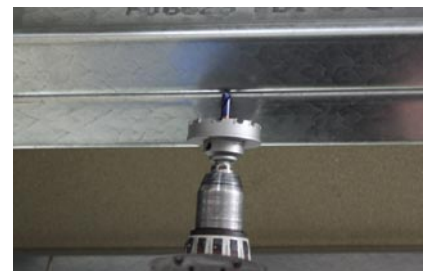
30mm	14mm - 150mm	18511-DIA Holesaw Only
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POWERMAX 55 - SUPER HEAVY DUTY



Depth	Dia Ø	Stock Code
55mm	14mm - 150mm	18520-DIA Complete Body

55mm	14mm - 150mm	18521-DIA Holesaw Only
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POWERMAX HOLESAW ACCESSORIES

Power Drill 4000 Diagram - Arbor that fits holesaw body for all sizes between 14 - 100mm. Comes with hex shank.



Handheld Machine Holesaw Adaptors

Stock Code

13mm Shank Adaptor to suit 14mm - 100mm dia holes for 18511 holesaws up to 30mm depth of cut.
13mm shank adaptor to suit 14 - 100mm dia holes for 18521 holesaws up to 55mm depth of cut.

18512

18512



Centre Pins

Stock Code

6 x 80mm Centre Drill to suit Stock Code 18511


18513

6 x 110mm Centre Drill to suit Stock Code 18521

18534

ADAPTORS TO SUIT POWERMAX 30 & 55 HOLESAWS

Accessories to fit Powermax Holesaws 30 & 55
Hex Shanks suitable for pistol drills, pillar drills etc.

	Stock Code		Stock Code
13mm Hex Shank Adaptor to suit 14 - 60mm Holesaw	18514	SDS Plus Adaptor for all hammer drills to suit 14 - 100mm Holesaw	18519
			
Centre Drill to suit above - 30mm Holesaw	18517	Centre Drill to suit above - 30mm Holesaw	18518
Centre Drill to suit above - 55mm Holesaw	18533	Centre Drill to suit above - 30mm Holesaw	18532
			
13mm Hex Shank Adaptor to suit 61 - 100mm Holesaw	18515	19mm Weldon Adaptor to suit 14 - 100mm Holesaw	18522
			
Centre Drill to suit above - 30mm Holesaw	18518	32mm Weldon Adaptor to suit 61 - 100mm Holesaw	18523
Centre Drill to suit above - 55mm Holesaw	18532		
		Pilot Pin to suit 18522 & 18523	14509
13mm Hex Shank Adaptor to suit 105 - 150mm Holesaw	18516	Pilot Pin to suit - 30mm Holesaw	14509
		Pilot Pin to suit - 55mm Holesaw	18531
Centre Drill to suit above - 30mm Holesaw	18518		
Centre Drill to suit above - 55mm Holesaw	18532		
			



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DIFFERENT ADAPTORS TO SUIT POWERMAX 30 & 55 HOLESAWS

32mm Weldon Adaptor to suit 105 - 150mm Holesaw
Stock Code 18524



Pilot Pin to suit 18524
Pilot Pin to suit - 30mm Holesaw 14513
Pilot Pin to suit - 55mm Holesaw 18530



19mm Universal Adaptor to suit 14-100mm
Stock Code 18525



Pilot Pin to suit 18525
Pilot Pin to suit - 30mm Holesaw 14509
Pilot Pin to suit - 55mm Holesaw 18531



MORSE TAPER ADAPTORS TO FIT INTO MAGNETIC DRILLS/PILLAR DRILLS

2 Morse Taper Adaptor to suit 16 - 100mm Holesaw
Stock Code 18528



Pilot Drill to suit 18528
Pilot Drill to suit - 30mm Holesaw 18518
Pilot Drill to suit - 55mm Holesaw 18532



3 Morse Taper Adaptor to suit 105 - 150mm Holesaw
Stock Code 18527



Pilot Drill to suit 18527
Pilot Drill to suit - 30mm Holesaw 18518
Pilot Drill to suit - 55mm Holesaw 18532



3 Morse Taper Adaptor to suit 16 - 100mm Holesaw
Stock Code 18526



Pilot Drill to suit 18526
Pilot Drill to suit - 30mm Holesaw 18518
Pilot Drill to suit - 55mm Holesaw 18532



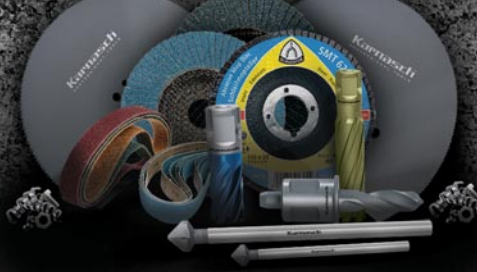
4 Morse Taper Adaptor to suit 105 - 150mm Holesaw
Stock Code 18529



Pilot Drill to suit 18529
Pilot Drill to suit - 30mm Holesaw 18518
Pilot Drill to suit - 55mm Holesaw 18532



HOLOCUTTING, DRILLING & THREADING












CO-HOLESAW LINE

Description: Bi-Metal Holesaws, with 8% cobalt are the ideal all round holesaws for engineers, electricians and plumbers. Drilling quickly and inexpensively in iron plates, non-ferrous metals, plastics and wood



Depth	Dia Ø	Stock Code
38mm (Deep)	Available in sizes from 14 - 305mm (Dia)	18500 - DIA

CO-HOLESAW ACCESSORIES

		Shank Ø	Holesaw Dia Ø	Stock Code
		Ω 6.35mm 1/4"	14mm - 30mm	18501
		Ω 9.5mm 3/8"	14mm - 30mm	18502
	Quick Change	Ω 9.5mm 3/8"	32mm - 210mm	18503
	Quick Change	Ω 11.0mm 7/16"	32mm - 210mm	18504
	Quick Change	Ω 11.0mm 7/16"	32mm - 305mm	18505
		SDS PLUS X	14mm - 30mm	18506
		SDS PLUS X	32mm - 210mm	18507
	Quick Change HSS Centre Drill Suitable for Arbours: 18501			18508
	HSS Centre Drill Suitable for Arbours: 18502 - 18507			18509



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STEP DRILL LINE

4 - 12mm HSS XE Steel

Stock Code

11230

Maximum cutting depth 4mm



4 - 12mm Blue-Dur Coated

Stock Code

11233

Maximum cutting depth 4mm



4 - 20mm HSS XE Steel

Stock Code

11231

Maximum cutting depth 4mm



4 - 20mm Blue-Dur Coated

Stock Code

11234

Maximum cutting depth 4mm



6 - 32mm HSS XE Steel*

Stock Code

11232

Maximum cutting depth 4mm



*Step 32 is for deburring of step 30

6 - 32mm Blue-Dur Coated*

Stock Code

11235

Maximum cutting depth 4mm



*Step 32 is for deburring of step 30

HSS-XE Steel & BLUE-DUR Coated

Made of high-alloyed special HSS XE steel for considerably longer service life than HSS steel.

HSS XE steel and BLUE-DUR coating for a further substantial increase in service life also when machining dry (no/little cooling).

Excellent for drilling in:

- High-alloyed chromium steel such as stainless (V2A / V4A)
- Acid resistant steel
- Steel
- Cast iron
- Non ferrous material
- Plastics

The CBN ground and spiral flutes guarantee smooth running and high cutting performance. The chip flow is optimized and removed easily with a twist drill.

Set of 3 of the above HSS XE Steel

Stock Code

11236

Maximum cutting depth 4mm



Set of 3 of the above Blue-Dur Coated

Stock Code

11237

Maximum cutting depth 4mm





STRAIGHT SHANK PREMIUM JOBBER DRILLS

HSS Tin Coated Ground

Diameter	Pack	Stock
mm	Qty.	Code
1.0	10	11300-1.0
1.5	10	11300-1.5
1.6	10	11300-1.8
2.0	10	11300-2.0
2.5	10	11300-2.5
2.9	10	11300-2.9
3.0	10	11300-3.0
3.2	10	11300-3.2
3.3	10	11300-3.3
3.5	10	11300-3.5
3.8	10	11300-3.8
4.0	10	11300-4.0
4.2	10	11300-4.2
4.5	10	11300-4.5
4.8	10	11300-4.8
5.0	10	11300-5.0
5.3	10	11300-5.3
5.5	10	11300-5.5
6.0	10	11300-6.0
6.3	10	11300-6.3
6.5	10	11300-6.5
6.8	10	11300-6.8
7.0	10	11300-7.0
7.3	10	11300-7.3
7.5	10	11300-7.5
7.8	10	11300-7.8
8.0	10	11300-8.0
8.5	10	11300-8.5
8.8	10	11300-8.8
9.0	10	11300-9.0
9.3	10	11300-9.3
9.5	10	11300-9.5
10.0	10	11300-10.0
10.2	5	11300-10.2
10.5	5	11300-10.5
10.8	5	11300-10.8
11.0	5	11300-11.0
11.5	5	11300-11.5
12.0	5	11300-12.0
12.5	5	11300-12.5
12.8	5	11300-12.8
13.0	5	11300-13.0
13.5	5	11300-13.5
14.0	5	11300-14.0



HSS Cobalt

Diameter	Pack	Stock
mm	Qty.	Code
1.0	10	11302-1.0
1.5	10	11302-1.5
1.6	10	11302-1.8
2.0	10	11302-2.0
2.5	10	11302-2.5
2.9	10	11302-2.9
3.0	10	11302-3.0
3.2	10	11302-3.2
3.3	10	11302-3.3
3.5	10	11302-3.5
3.8	10	11302-3.8
4.0	10	11302-4.0
4.2	10	11302-4.2
4.5	10	11302-4.5
4.8	10	11302-4.8
5.0	10	11302-5.0
5.3	10	11302-5.3
5.5	10	11302-5.5
6.0	10	11302-6.0
6.3	10	11302-6.3
6.5	10	11302-6.5
6.8	10	11302-6.8
7.0	10	11302-7.0
7.3	10	11302-7.3
7.5	10	11302-7.5
7.8	10	11302-7.8
8.0	10	11302-8.0
8.5	10	11302-8.5
8.8	10	11302-8.8
9.0	10	11302-9.0
9.3	10	11302-9.3
9.5	10	11302-9.5
10.0	10	11302-10.0
10.2	5	11302-10.2
10.5	5	11302-10.5
10.8	5	11302-10.8
11.0	5	11302-11.0
11.5	5	11302-11.5
12.0	5	11302-12.0
12.5	5	11302-12.5
12.8	5	11302-12.8
13.0	5	11302-13.0
13.5	5	11302-13.5
14.0	5	11302-14.0



HSS Tin Coated Ground

Diameter	Pack	Stock
Inches	Qty.	Code
1/16	10	11301-1/16
5/64	10	11301-5/64
3/32	10	11301-3/32
7/64	10	11301-7/64
1/8	10	11301-1/8
9/64	10	11301-9/64
5/32	10	11301-5/32
11/64	10	11301-11/64
3/16	10	11301-3/16
13/64	10	11301-13/64
7/32	10	11301-7/32
15/64	10	11301-15/64
1/4	10	11301-1/4
17/64	10	11301-17/64
9/32	10	11301-9/32
19/64	10	11301-19/64
5/16	10	11301-5/16
21/64	10	11301-21/64
11/32	10	11301-11/32
23/64	10	11301-23/64
3/8	10	11301-3/8
25/64	10	11301-25/64
13/32	10	11301-13/32
27/64	10	11301-27/64
7/16	10	11301-7/16
29/64	10	11301-29/64
15/32	10	11301-15/32
31/64	10	11301-31/64
1/2	10	11301-1/2



HSS Cobalt

Diameter	Pack	Stock
Inches	Qty.	Code
1/16	10	11303-1/16
5/64	10	11303-5/64
3/32	10	11303-3/32
7/64	10	11303-7/64
1/8	10	11303-1/8
9/64	10	11303-9/64
5/32	10	11303-5/32
11/64	10	11303-11/64
3/16	10	11303-3/16
13/64	10	11303-13/64
7/32	10	11303-7/32
15/64	10	11303-15/64
1/4	10	11303-1/4
17/64	10	11303-17/64
9/32	10	11303-9/32
19/64	10	11303-19/64
5/16	10	11303-5/16
21/64	10	11303-21/64
11/32	10	11303-11/32
23/64	10	11303-23/64
3/8	10	11303-3/8
25/64	10	11303-25/64
13/32	10	11303-13/32
27/64	10	11303-27/64
7/16	10	11303-7/16
29/64	10	11303-29/64
15/32	10	11303-15/32
31/64	10	11303-31/64
1/2	10	11303-1/2





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Metric & Imperial Cobalt Coated Ground Jobber Drill Sets

Size Range	No of Drills	Stock Code
1 to 13mm by 0.5mm Cobalt Jobber Drill Set	25	11585
1/16" to 1/2" by 1/32" Cobalt Jobber	15	11586

Metric & Imperial HSS Tin Coated Ground Jobber Drill Sets

Size Range	No of Drills	Stock Code
1 to 13mm by 0.5mm	25	10768
1/16" to 1/2" by 1/64"	29	10769

Metric HSS 1/2" Reduced Shank Blacksmith Drills

Diameter mm	Stock Code
14	11304-14
14.5	11304-14.5
15	11304-15
15.5	11304-15.5
16	11304-16
17	11304-17
17.5	11304-17.5
18	11304-18
19	11304-19
20	11304-20
21	11304-21
22	11304-22



HOLECUTTING, DRILLING & THREADING

Metric HSS Stub Drills

HSS

Diameter mm	Pack Qty.	Stock Code
1.0	10	11305-1.0
1.5	10	11305-1.5
2.0	10	11305-2.0
2.5	10	11305-2.5
2.9	10	11305-2.9
3.2	10	11305-3.2
3.3	10	11305-3.3
3.5	10	11305-3.5
4.0	10	11305-4.0
4.5	10	11305-4.5
4.9	10	11305-4.9
5.0	10	11305-5.0
5.5	10	11305-5.5
6.0	10	11305-6.0
6.5	10	11305-6.5
6.8	10	11305-6.8
7.0	10	11305-7.0
7.5	10	11305-7.5
7.8	10	11305-7.8
8.0	10	11305-8.0
8.5	10	11305-8.5
9.0	10	11305-9.0
9.5	10	11305-9.5
10.0	5	11305-10.0
10.2	5	11305-10.2



Imperial HSS Stub Drills

HSS

Diameter Inches	Pack Qty.	Stock Code
1/16	10	11306-1/16
5/64	10	11306-5/64
3/32	10	11306-3/32
7/64	10	11306-7/64
1/8	10	11306-1/8
9/64	10	11306-9/64
5/32	10	11306-5/32
11/64	10	11306-11/64
3/16	10	11306-3/16
13/64	10	11306-13/64
7/32	10	11306-7/32
15/64	10	11306-15/64
1/4	10	11306-1/4
17/64	10	11306-17/64
9/32	10	11306-9/32
19/64	10	11306-19/64
5/16	10	11306-5/16
21/64	5	11306-21/64
11/32	5	11306-11/32
23/64	5	11306-23/64
3/8	5	11306-3/8
25/64	5	11306-25/64
13/32	5	11306-13/32
7/16	5	11306-7/16
1/2	5	11306-1/2

Volkel Drill & Tap Line



Stock Code	Product
12979	Volkel M6 x 1 HSS/Co Drill/N/Tap - Straight Shank
12980	Volkel M8 x 1.25 HSS/Co Drill/N/Tap Straight Shank
12981	Volkel M10 x 1.5 HSS/Co Drill/N/Tap Straight Shank
12982	Volkel M12 x 1.75 HSS/Co Drill/N/Tap Straight Shank



Centre Drills DIN 333A

Drill Ø mm	Pilot Ø mm	Length mm	Unit qty	Stock Code
3.15	1.0	31.5	1	11308-3.15
3.15	1.25	31.5	1	11308-3.15
4.0	1.6	35.5	1	11308-4.0
5.0	2.0	40	1	11308-5.0
6.3	2.5	45	1	11308-6.3
8.0	3.15	50	1	11308-8.0
10.0	4.0	56	1	11308-10.0
12.5	5.0	63	1	11308-12.5
16.0	6.3	71	1	11308-16.0



TRUBOR BRITISH MADE MORSE TAPER SHANK DRILLS

Metric Ground Morse Taper Shank Drills

Diameter mm	Taper Size	Stock Code
10	1	11309-10
11	1	11309-11
12	1	11309-12
13	1	11309-13
14	1	11309-14
14.5	2	11309-14.5
15	2	11309-15
15.5	2	11309-15.5
16	2	11309-16
17	2	11309-17
17.5	2	11309-17.5
18	2	11309-18
19	2	11309-19
19.5	2	11309-19.5
20	2	11309-20
21	2	11309-21
22	2	11309-22
23	2	11309-23
24	3	11309-24
25	3	11309-25
26	3	11309-26
27	3	11309-27
28	3	11309-28
29	3	11309-29
30	3	11309-30
31	3	11309-31
32	4	11309-32
33	4	11309-33
34	4	11309-34
35	4	11309-35
36	4	11309-36
37	4	11309-37
38	4	11309-38
39	4	11309-39
40	4	11309-40
41	4	11309-41
42	4	11309-42
43	4	11309-43
44	4	11309-44
45	4	11309-45
46	4	11309-46
47	4	11309-47
48	4	11309-48
49	4	11309-49
50	4	11309-50
55	5	11309-55
60	5	11309-60
65	5	11309-65
70	5	11309-70
75	5	11309-75

Imperial Ground Morse Taper Shank Drills

Diameter Inches	Taper Size	Stock Code
3/8	1	11310-3/8
13/32	1	11310-13/32
7/16	1	11310-7/16
15/32	1	11310-15/32
1/2	1	11310-1/2
17/32	2	11310-17/32
9/16	2	11310-9/16
19/32	2	11310-19/32
5/8	2	11310-5/8
21/32	2	11310-21/32
11/16	2	11310-11/16
23/32	2	11310-23/32
3/4	2	11310-3/4
25/32	2	11310-25/32
13/16	3	11310-13/16
27/32	3	11310-27/32
7/8	3	11310-7/8
29/32	3	11310-29/32
15/16	3	11310-15/16
31/32	3	11310-31/32
1	3	11310-1
1-1/32	3	11310-1.1/32
1-1/16	4	11310-1.1/16
1-3/32	4	11310-1.3/32
1-1/8	4	11310-1.1/8
1-5/32	4	11310-1.5/32
1-3/16	4	11310-1.3/16
1-7/32	4	11310-1.7/32
1-1/4	4	11310-1.1/4
1-9/32	4	11310-1.9/32
1-5/16	4	11310-1.5/16
1-11/32	4	11310-1.11/32
1-3/8	4	11310-1.3/8
1-13/32	4	11310-1.13/32
1-7/16	4	11310-1.7/16
1-15/32	4	11310-1.15/32
1-1/2	4	11310-1.1/2
1-9/16	4	11310-1.9/16
1-5/8	4	11310-1.5/8
1-11/16	4	11310-1.11/16
1-3/4	4	11310-1.3/4
1-13/16	4	11310-1.13/16
1-7/8	4	11310-1.7/8
1-15/16	4	11310-1.15/16
2	4	11310-2



Many other sizes and lengths available on quick delivery times and excellent prices. Please phone for details.

Morse Taper Shank Oilfeed Chipbreaker Drills Cross Hole Feed - HSS



Diameter mm	Taper Size	Stock Code
12	3	11311-12
14	3	11311-14
16	3	11311-16
18	3	11311-18
20	3	11311-20
22	3	11311-22
24	3	11311-24
26	3	11311-26
28	4	11311-28
30	4	11311-30



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MTS COUNTERSINKS LINE - 90°



HSS-XE Steel 90° Countersink

Made of high-alloyed special steel XE for considerably longer surface life than HSS-Steel

Excellent for countersinking in:

- Stainless steel (V2A / V4A)
- Steel
- Cast iron
- Non ferrous material



HSS-XE Steel Blue Tec Coated 90° Countersink

Made of high-alloyed special steel XE for considerably longer surface life than HSS-Steel BLUE TEC coating for a further substantial increase in service life also when machining dry (no/little cooling)

Excellent for countersinking in:

- High-alloyed chromium steel such as stainless (V2A / V4A)
- Acid resistant steel
- Steel
- Cast iron
- Non ferrous material

Diameter Ø mm	Small Size Ø mm	Total Length	Shank	Countersinking For DIN 74	11312 XE Steel	11313 Blue Tec
20.5	3.5	100.0	MT 2	-	M 10	11312-20.5
25.0	3.8	106.0	MT 2	-	M 12	11312-25.0
31.0	4.2	112.0	MT 2	-	M 15	11312-31.0
37.0	4.8	118.0	MT 2	M 20	M 20	11312-37.0
40.0	10.0	140.0	MT 3	-	-	11312-40.0
50.0	14.0	150.0	MT 3	-	-	11312-50.0
63.0	16.0	180.0	MT 4	-	-	11312-63.0
80.0	22.0	190.0	MT 4	-	-	11312-80.0

MTS COUNTERSINKS LINE - 60°



HSS-XE Steel 60° Countersink

Made of high-alloyed special steel XE for considerably longer surface life than HSS-Steel

Excellent for countersinking in:

- Stainless steel (V2A / V4A)
- Steel
- Cast iron
- Non ferrous material



HSS-XE Steel Blue Tec Coated 60° Countersink

Made of high-alloyed special steel XE for considerably longer surface life than HSS-Steel BLUE TEC coating for a further substantial increase in service life also when machining dry (no/little cooling)

Excellent for countersinking in:

- High-alloyed chromium steel such as stainless (V2A / V4A)
- Acid resistant steel
- Steel
- Cast iron
- Non ferrous material

Diameter Ø mm	Small Size Ø mm	Total Length	Shank	11314 XE Steel	11315 Blue Tec
20.0	5.0	106.0	MT 2	11314-20.0	11315-20.0
25.0	6.3	112.0	MT 2	11314-25.0	11315-25.0
31.5	10.0	118.0	MT 2	11314-31.5	11315-31.5
40.0	12.5	150.0	MT 3	11314-40.0	11315-40.0
50.0	16.0	160.0	MT 3	11314-50.0	11315-50.0
63.0	20.0	190.0	MT 4	11314-63.0	11315-63.0
80.0	25.0	200.0	MT 4	11314-80.0	11315-80.0



STRAIGHT SHANK COUNTERSINK LINE

HSS-XE Steel & BLUE-TEC Coated Countersinks:

HSS-XE steel - made of high-alloyed special XE steel for considerably longer service life than standard HSS steel.

HSS-XE steel & BLUE-TEC coating - is created for a further substantial increase in service life also when machining dry (no/little cooling).

Straight Shank 90° Countersinks

Diameter Ø mm	Small Size Ø mm	Total Length	Shank		Countersinking For DIN 74	Stock Code	Stock Code
6.3	1.5	45.0	5.0	-	M 3	• 11316-6.3	11317-6.3
8.3	2.0	50.0	6.0	-	M 4	• 11316-8.3	11317-8.3
10.4	2.5	50.0	6.0	-	M 5	• 11316-10.4	11317-10.4
12.4	2.8	56.0	8.0	-	M 6	• 11316-12.4	11317-12.4
15.0	3.2	60.0	10.0	-	M 8	• 11316-15.0	11317-15.0
16.5	3.2	60.0	10.0	-	M 8	• 11316-16.5	11317-16.5
19.0	3.5	63.0	10.0	-	M 10	• 11316-19.0	11317-19.0
20.5	3.5	63.0	10.0	-	M 10	• 11316-20.5	11317-20.5
23.0	3.8	67.0	10.0	-	M 12	• 11316-23.0	11317-23.0
25.0	3.8	67.0	10.0	-	M 12	• 11316-25.0	11317-25.0
31.0	4.2	71.0	12.0	-	M 16	• 11316-31.0	11317-31.0



Straight Shank 60° Countersinks

Diameter Ø mm	Small Size Ø mm	Total Length	Shank		Countersinking For DIN 74	Stock Code	Stock Code
6.3	1.6	45.0	5.0	-	M 3	• 11318-6.3	11319-6.3
8.0	2.0	50.0	6.0	-	M 4	• 11318-8.0	11319-8.0
10.0	2.5	53.0	6.0	-	M 5	• 11318-10.0	11319-10.0
12.5	3.2	56.0	8.0	-	M 6	• 11318-12.5	11319-12.5
16.0	4.0	63.0	10.0	-	M 8	• 11318-16.0	11319-16.0
20.0	5.0	63.0	10.0	-	M 10	• 11318-20.0	11319-20.0
25.0	6.3	71.0	10.0	-	M 12	• 11318-25.0	11319-25.0
31.5	10.0	76.0	12.0	-	M 16	• 11318-31.5	11319-31.5



HSS-XE Steel Countersink Set / BLUE-TEC Coated Countersink Set

Description: 6.3, 8.3, 10.4, 12.4, 16.5, 20.5mm Countersink
Stock Code: 11105



Description: 6.3, 8.3, 10.4, 12.4, 16.5, 20.5 Countersink
Stock Code: 11107



Description: 6.3, 10.4, 16.5, 20.5, 25.0mm Countersink
Stock Code: 11106



Description: 6.3, 10.4, 16.5, 20.5, 25.0 Countersink
Stock Code: 11108





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MORSE TAPER SHANK ADAPTORS/CHUCKS & ACCESSORIES

Inside = Tool
Outside = Machine



Morse Taper Extension Sockets

Morse Taper Inside	Morse Taper Outside	d	I1	I2	Stock Code
1	1	20	145	76	11455
1	2	20	160	91	11456
2	1	30	160	76	11457
2	2	30	175	91	11458
2	3	30	196	112	11459
1	3	36	175	76	11460
3	2	36	194	91	11461
3	3	36	215	112	11462
3	4	36	243	140	11463

Morse Taper Extension Sockets

Morse Taper Inside	Morse Taper Outside	d	I1	I2	Stock Code
1	4	48	202	78	11464
2	4	48	215	91	11465
4	3	48	240	112	11466
4	4	48	268	140	11467
4	5	48	305	177	11468
5	3	63	268	112	11469
5	4	63	300	137	11470
5	5	63	335	172	11471



Drill Chuck Arbors Hardened & Ground

Size	Stock Code
1MT X J1	11042
1MT X J6	11043
2MT X J2	11044
2MT X J6	11045
2MT X J3	11046
3MT X J6	11047
3MT X J3	11048
4MT X J3	11049



Morse Taper Drill Sleeves Hardened & Ground

Size	Stock Code
1 - 2MT	11050
1 - 3MT	11051
1 - 4MT	11052
2 - 3MT	11053
2 - 4MT	11054
3 - 4MT	11055
3 - 5MT	11056
4 - 5MT	11057
4 - 6MT	11058
5 - 6MT	11059



Drill Drifts

Size	Morse Taper	Stock Code
0-900	0	11472
1-2MT	1 - 2	11473
3-4MT	3 - 4	11474

Drill Drifts

Size	Morse Taper	Stock Code
4-5MT	4 - 5	11475
5-6MT	5 - 6	11476



Keyed Drill Chucks

Capacity	Stock Code
1 - 13mm - J6	11480
1 - 16mm - J3	11481
5 - 20mm - S4	11482
1 - 13mm - 3/8 x 24	11498
1 - 13mm - 1/2 x 20	11499



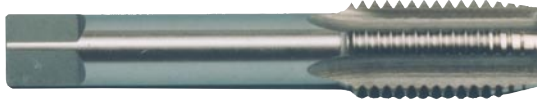
Heavy Duty Keyless Drill Chucks

Capacity	Stock Code
1 - 13mm - J6	11486
3 - 16mm - J6	11500
1.5 - 13mm - 3/8 x 24 Steel	11494
1.5 - 13mm - 1/2 x 20 Steel	11496

HOLECUTTING, DRILLING & THREADING



TAPS



This extensive range of ground thread taps and dies are manufactured from high quality high speed steel to internationally recognised ISO Standards.

Please note: Straight flute taps are available in taper, second or bottom. Please specify when ordering and suffix code with T,S or B.

ISO METRIC / COARSE

Nom. Dia. and Pitch mm		SHORT MACHINE TAPS			ISO Long Shank Machine Taps
Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code	Spiral Flute Stock Code	ISO Long Shank Machine Taps Stock Code
M1.6 x 0.35	13238	13275	13312		
M1.8 x 0.35	13239	13276	13313		
M2 x 0.4	13240	13277	13314	13335	
M2.2 x 0.45	13241	13278	13315		
M2.5 x 0.45	13242	13279	13316	13336	
M3 x 0.5	13243	13280	13317	13337	
M3.5 x 0.6	13244	13281	13318	13338	13354
M4 x 0.7	13245	13282	13319	13339	13355
M4.5 x 0.75	13246	13283	13320	13340	13356
M5 x 0.8	13247	13284	13321	13341	13357
M6 x 1	13248	13285	13322	13342	13358
M7 x 1	13249	13286	13323	13343	13359
M8 x 1.25	13250	13287	13324	13344	13360
M9 x 1.25	13251	13288	13325	13345	13361
M10 x 1.5	13252	13289	13326	13346	13362
M11 x 1.5	13253	13290	13327	13347	13363
M12 x 1.75	13254	13291	13328	13348	13364
M14 x 2	13255	13292	13329	13349	13365
M16 x 2	13256	13293	13330	13350	13366
M18 x 2.5	13257	13294	13331	13351	
M20 x 2.5	13258	13295	13332	13352	
M22 x 2.5	13259	13296	13333	13353	
M24 x 3	13260	13297	13334	13367	
M27 x 3	13261	13298			
M30 x 3.5	13262	13299			
M33 x 3.5	13263	13300			
M36 x 4	13264	13301			
M39 x 4	13265	13302			
M42 x 4.5	13266	13303			
M45 x 4.5	13267	13304			
M48 x 5	13268	13305			
M52 x 5	13269	13306			
M56 x 5.5	13270	13307			
M60 x 5.5	13271	13308			
M64 x 6	13272	13309			
M68 x 6	13273	13310			
M72 x 6	13274	13311			

UNC/NC

Nom. Dia. and TPI		SHORT MACHINE TAPS			ISO Long Shank Machine Taps
Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code	Spiral Flute Stock Code	ISO Long Shank Machine Taps Stock Code
No. 1 x 64	13030	13055	13080		
No. 2 x 56	13031	13056	13081		
No. 3 x 48	13032	13057	13082		
No. 4 x 40	13033	13058	13083	13099	
No. 5 x 40	13034	13059	13084	13100	
No. 6 x 32	13035	13060	13085	13101	
No. 8 x 32	13036	13061	13086	13102	
No. 10 x 24	13037	13062	13087	13103	
No. 12 x 24	13038	13063	13088	13104	
1/4 x 20	13039	13064	13089	13105	13115
5/16 x 18	13040	13065	13090	13106	13116
3/8 x 16	13041	13066	13091	13107	13117
7/16 x 14	13042	13067	13092	13108	13118
1/2 x 13	13043	13068	13093	13109	13119
9/16 x 12	13044	13069	13094	13110	13120
5/8 x 11	13045	13070	13095	13111	13121
3/4 x 10	13046	13071	13096	13112	13122
7/8 x 9	13047	13072	13097	13113	13123
1 x 8	13048	13073	13098	13114	13124
1.1/8 x 7	13049	13074			
1.1/4 x 7	13050	13075			
1.3/8 x 6	13051	13076			
1.1/2 x 6	13052	13077			
1.3/4 x 5	13053	13078			
2 x 4.1/2	13054	13079			

AMERICAN UNIFIED 8 THREAD SERIES (8UN)

Nom. Dia. & TPI	Straight Flute Stock Code
1.1/8 x 8	13230
1.1/4 x 8	13231
1.3/8 x 8	13232
1.1/2 x 8	13233
1.5/8 x 8	13234
1.3/4 x 8	13235
1.7/8 x 8	13236
2 x 8	13237

ISO METRIC / FINE

Nom. Dia. and Pitch mm	Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code
M3 x 0.35	13370	13410		
M3 x 0.6	13371	13411		
M3.5 x 0.35	13372	13412		
M4 x 0.5	13373	13413	13450	13464
M4.5 x 0.5	13374	13414		
M5 x 0.5	13375	13415	13451	13465
M5.5 x 0.9	13376	13416		
M6 x 0.75	13377	13417	13452	13466
M7 x 0.75	13378	13418		
M8 x 0.75	13379	13419		
M8 x 1	13380	13420	13453	13467
M9 x 1	13381	13421		
M10 x 0.75	13382	13422		
M10 x 1	13383	13423	13454	13468
M10 x 1.25	13384	13424	13455	13469
M12 x 1	13385	13425		
M12 x 1.25	13386	13426	13456	13470
M12 x 1.5	13387	13427	13457	13471
M14 x 1	13388	13428		
M14 x 1.25	13389	13429	13458	13472
M14 x 1.5	13390	13430	13459	13473
M16 x 1	13391	13431		
M16 x 1.5	13392	13432	13460	13474
M18 x 1	13393	13433		
M18 x 1.5	13394	13434	13461	13475
M18 x 2	13395	13435		
M20 x 1	13396	13436		
M20 x 1.5	13397	13437	13462	13476
M20 x 2	13398	13438		
M22 x 1.5	13399	13439	13463	13477
M24 x 1.5	13400	13440		
M24 x 2	13401	13441		
M25 x 1.5	13402	13442		
M27 x 1.5	13403	13443		
M27 x 2	13404	13444		
M30 x 1.5	13405	13445		
M30 x 2	13406	13446		
M32 x 1.5	13407	13447		
M33 x 2	13408	13448		
M40 x 1.5	13409	13449		

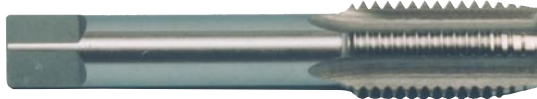
UNF/NF

Nom. Dia. and TPI		SHORT MACHINE TAPS			ISO Long Shank Machine Taps
Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code	Spiral Flute Stock Code	ISO Long Shank Machine Taps Stock Code
No. 0 x 80	13130	13154	13178		
No. 1 x 72	13131	13155	13179		
No. 2 x 64	13132	13156	13180		
No. 3 x 56	13133	13157	13181		
No. 4 x 48	13134	13158	13182	13198	13214
No. 5 x 44	13135	13159	13183	13199	13215
No. 6 x 40	13136	13160	13184	13200	13216
No. 8 x 36	13137	13161	13185	13201	13217
No. 10 x 32	13138	13162	13186	13202	13218
No. 12 x 28	13139	13163	13187	13203	13219
1/4 x 28	13140	13164	13188	13204	13220
5/16 x 24	13141	13165	13189	13205	13221
3/8 x 24	13142	13166	13190	13206	13222
7/16 x 20	13143	13167	13191	13207	13223
1/2 x 20	13144	13168	13192	13208	13224
9/16 x 18	13145	13169	13193	13209	13225
5/8 x 18	13146	13170	13194	13210	13226
3/4 x 16	13147	13171	13195	13211	13227
7/8 x 14	13148	13172	13196	13212	13228
1 x 12	13149	13173	13197	13213	13229
1.1/8 x 12	13150	13174			
1.1/4 x 12	13151	13175			
1.3/8 x 12	13152	13176			
1.1/2 x 12	13153	13177			



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TAPS



Please note: Straight flute taps are available in taper, second or bottom. Please specify when ordering and suffix code with T,S or B.

BSF

Nom. Dia. and Pitch BSF	SHORT MACHINE TAPS				ISO Long Shank Machine Taps Stock Code
	Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code	
3/16 x 32	13670	13694	13718	13730	
7/32 x 28			13719	13731	
1/4 x 26	13671	13695	13720	13732	13742
9/32 x 26	13672	13696			
5/16 x 22	13673	13697	13721	13733	13743
3/8 x 20	13674	13698	13722	13734	13744
7/16 x 18	13675	13699	13723	13735	13745
1/2 x 16	13676	13700	13724	13736	13746
9/16 x 16	13677	13701	13725	13737	
5/8 x 14	13678	13702	13726	13738	
11/16 x 14	13679	13703			
3/4 x 12	13680	13704	13727	13739	
13/16 x 12	13681	13705			
7/8 x 11	13682	13706	13728	13740	
15/16 x 11	13683	13707			
1 x 10	13684	13708	13729	13741	
1.1/8 x 9	13685	13709			
1.1/4 x 9	13686	13710			
1.3/8 x 8	13687	13711			
1.1/2 x 8	13688	13712			
1.5/8 x 8	13689	13713			
1.3/4 x 7	13690	13714			
2 x 7	13691	13715			
2.1/4 x 6	13692	13716			
2.1/2 x 6	13693	13717			

BSP

Nom. Dia. and TPI	SHORT MACHINE TAPS				ISO Long Shank Machine Taps Stock Code
	Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code	
1/8 x 28	13480	13499	13518	13523	13528
1/4 x 19	13481	13500	13519	13524	13529
3/8 x 19	13482	13501	13520	13525	13530
1/2 x 14	13483	13502	13521	13526	13531
5/8 x 14	13484	13503			
3/4 x 14	13485	13504	13522	13527	
7/8 x 14	13486	13505			
1 x 11	13487	13506			
1.1/8 x 11	13488	13507			
1.1/4 x 11	13489	13508			
1.1/2 x 11	13490	13509			
1.3/4 x 11	13491	13510			
2 x 11	13492	13511			
2.1/4 x 11	13493	13512			
2.1/2 x 11	13494	13513			
2.3/4 x 11	13495	13514			
3 x 11	13496	13515			
3.1/2 x 11	13497	13516			
4 x 11	13498	13517			

NPT/API AMERICAN NATIONAL PIPE TAPER

Nom. Dia. &TPI	Straight Flute Stock Code
1/16 x 27	13532
1/8 x 27	13533
1/4 x 18	13534
3/8 x 18	13535
1/2 x 14	13536
3/4 x 14	13537
1 x 11.1/2	13538
1.1/4 x 11.1/2	13539
1.1/2 x 11.1/2	13540
2 x 11.1/2	13541

BSPT BRITISH STANDARD PIPE TAPER 'RC' SERIES

Nom. Dia. &TPI	Straight Flute Stock Code
1/8 x 28	13542
1/4 x 19	13543
3/8 x 19	13544
1/2 x 14	13545
3/4 x 14	13546
1 x 11	13547
1.1/4 x 11	13548
1.1/2 x 11	13549
2 x 11	13550

BSW

Nom. Dia. and Pitch BSW	SHORT MACHINE TAPS				ISO Long Shank Machine Taps Stock Code
	Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code	
1/16 x 60	13571	13603			
3/32 x 48	13572	13604			
1/8 x 40	13573	13605	13635	13649	
5/32 x 32	13574	13606	13636	13650	
3/16 x 24	13575	13607	13637	13651	
7/32 x 24	13576	13608	13638	13652	
1/4 x 20	13577	13609	13639	13653	13663
9/32 x 20	13578	13610			
5/16 x 18	13579	13611	13640	13654	13664
3/8 x 16	13580	13612	13641	13655	13665
7/16 x 14	13581	13613	13642	13656	13666
1/2 x 12	13582	13614	13643	13657	13667
9/16 x 12	13583	13615	13644	13658	
5/8 x 11	13584	13616	13645	13659	
11/16 x 11	13585	13617			
3/4 x 10	13586	13618	13646	13660	
13/16 x 10	13587	13619			
7/8 x 9	13588	13620	13647	13661	
15/16 x 9	13589	13621			
1 x 8	13590	13622	13648	13662	
1.1/8 x 7	13591	13623			
1.1/4 x 7	13592	13624			
1.3/8 x 6	13593	13625			
1.1/2 x 6	13594	13626			
1.5/8 x 5	13595	13627			
1.3/4 x 5	13596	13628			
1.7/8 x 4.1/2	13597	13629			
2 x 4.1/2	13598	13630			
2.1/4 x 4	13599	13631			
2.1/2 x 4	13600	13632			
2.3/4 x 3.1/2	13601	13633			
3 x 3.1/2	13602	13634			

BA BRITISH ASSOCIATION

BA Size No.	Straight Flute Stock Code	Straight Flute Set Stock Code	Spiral Point Stock Code	Spiral Flute Stock Code	BS/BRASS	
					Nom. Dia. &TPI	Straight Flute Stock Code
0	13747	13758	13769	13780	1/4 x 26	13789
1	13748	13759	13770	13781	5/15 x 26	13790
2	13749	13760	13771	13782	3/8 x 26	13791
3	13750	13761	13772	13783	7/16 x 26	13792
4	13751	13762	13773	13784	1/2 x 26	13793
5	13752	13763	13774	13785	9/16 x 26	13794
6	13753	13764	13775	13786	5/8 x 26	13795
7	13754	13765	13776		3/4 x 26	13796
8	13755	13766	13777	13787	7/8 x 26	13797
9	13756	13767	13778		1 x 26	13798
10	13757	13768	13779	13788		

NPTF AMERICAN NATIONAL PIPE TAPER DRYSEAL

Nom. Dia. &TPI	Straight Flute Stock Code
1/16 x 27	13551
1/8 x 27	13552
1/4 x 18	13553
3/8 x 18	13554
1/2 x 14	13555
3/4 x 14	13556
1 x 11.1/2	13557
1.1/4 x 11.1/2	13558

METRIC CONDUIT

Nom. Dia. &TPI	Straight Flute Stock Code
M16 X 1.5	13559
M20 X 1.5	13560
M25 X 1.5	13561
M32 X 1.5	13562
M40 X 1.5	13563

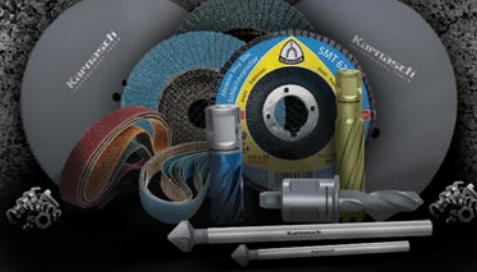
BS CONDUIT

Nom. Dia. &TPI	Straight Flute Stock Code
1/2 x 18	13564
5/8 x 18	13565
3/4 x 16	13566
1 x 16	13567
1.1/4 x 16	13568
1.1/2 x 14	13569
2 x 14	13570

A full comprehensive range of Yellow, Blue, White and Red Special Application Taps are available on very quick delivery times and excellent prices.

Also a full range of cased sets including tap wrenches and circular dies available.

TURN TO PAGE 123 FOR TAPPING/DRILL SELECTOR



DIES



STANDARD METRIC COARSE ISO

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER							Hex 4"	Dienut Stock Code
	13/16"	1"	1.5/16"	1.1/2"	2"	3"	4"		
M2 x 0.4	13800								
M2.2 x 0.45	13801								
M2.5 x 0.45	13802								
M3 x 0.5	13803								13842
M3.5 x 0.6	13804								13843
M4 x 0.7	13805								13844
M4.5 x 0.75	13806								13845
M5 x 0.8	13807								13846
M6 x 1	13808	13810	13815						13847
M7 x 1	13809	13811	13816						13848
M8 x 1.25		13812	13817						13849
M9 x 1.25		13813	13818						13850
M10 x 1.5		13814	13819	13823					13851
M11 x 1.5			13820	13824					13852
M12 x 1.75			13821	13825					13853
M14 x 2			13822	13826	13830				13854
M16 x 2				13827	13831				13855
M18 x 2.5				13828	13832				13856
M20 x 2.5				13829	13833				13857
M22 x 2.5					13834				13858
M24 x 3					13835				13859
M27 x 3						13836			13860
M30 x 3.5						13837			13861
M33 x 3.5						13838			13862
M36 x 4						13839			13863
M39 x 4						13840			13864
M42 x 4.5							13841		13865

METRIC FINE & OTHER THREADS

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER							Hex 4"	Dienut Stock Code
	13/16"	1"	1.5/16"	1.1/2"	2"	3"	4"		
M3 x 0.35	13866								
M3 x 0.6	13867								
M3.5 x 0.35	13868								
M4 x 0.5	13869								13899
M4.5 x 0.5	13870								
M5 x 0.5	13871								13900
M5.5 x 0.9	13872								
M6 x 0.75	13873								13901
M7 x 0.75	13874								13902
M8 x 1		13875							13903
M10 x 0.75		13876							
*M10 x 1		13877							13904
M10 x 1.25		13878							13905
M12 x 1			13879						13906
*M12 x 1.25			13880						13907
M12 x 1.5			13881						13908
*M14 x 1.25			13882						13909
M14 x 1.5			13883	13884					13910
M16 x 1				13885					
**M16 x 1.5				13886					13911
*M18 x 1.5				13887					13912
M20 x 1					13888				
**M20 x 1.5					13889				13913
M20 x 2					13890				
M22 x 1.5					13891				13914
M24 x 1.5					13892				13915
M24 x 2					13893				13916
**M25 x 1.5					13894	13895			13917
M27 x 2						13896			
M30 x 2						13897			13918
**M32 x 1.5						13898			13919

* SPARK PLUG ** METRIC CONDUIT



BSW

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER							Hex 4"	Dienut Stock Code
	13/16"	1"	1.5/16"	1.1/2"	2"	3"	4"		
1/8	13920								
5/32	13921								
3/16	13922								13954
7/32	13923								13955
1/4	13924	13925	13928						13956
5/16		13926	13929						13957
3/8		13927	13930	13934					13958
7/16			13931	13935					13959
1/2			13932	13936	13940				13960
9/16			13933	13937	13941				13961
5/8				13938	13942				13962
11/16					13943				13963
3/4					13939	13944			13964
7/8						13945			13965
1						13946			13966
1.1/8							13947		13967
1.1/4							13948		13968
1.3/8							13949		13969
1.1/2							13950		13970
1.3/4								13951	13971
2								13952	13972

BSF

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER							Hex 4"	Dienut Stock Code
	13/16"	1"	1.5/16"	1.1/2"	2"	3"	4"		
3/16	13973								
7/32	13974								
1/4	13975	13976	13979						14005
5/16		13977	13980						14006
3/8		13978	13981	13985					14007
7/16			13982	13986					14008
1/2			13983	13987	13991				14009
9/16			13984	13988	13992				14010
5/8				13989	13993				14011
11/16					13994				14012
3/4				13990	13995				14013
7/8					13996				14014
1					13997				14015
1.1/8							13998		14016
1.1/4							13999		14017
1.3/8							14000		14018
1.1/2							14001		14019
1.3/4								14002	14020
2								14003	14021

BSB

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER							Hex 4"	Dienut Stock Code
	13/16"	1"	1.5/16"	1.1/2"	2"	3"	4"		
1/8	14022	14023	14025						14047
1/4		14024	14026	14028					14048
3/8			14027	14029	14033				14049
1/2				14030	14034				14050
5/8				14031	14035				14051
3/4				14032	14036	14039			14052
7/8					14037	14040			14053
1					14038	14041			14054
1.1/4						14042	14043		14055
1.1/2							14044		14056
1.3/4							14045		14057
2							14046		14058

Dies supplied as solid not adjustable

BSPT & NPT

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER					Hex 4"	Dienut Stock Code
	1"	1.1/2"	2"	2.1/4"	4"		
1/8							
1/4			14061			Sizes	14321
3/8			14062			1.1/4"	14322
1/2				14063		1.1/2"	14323
3/4				14064		2"	14324
1					14065	P.O.A.	14325

* Price on application



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DIES



UNC/NC

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER							Hex	Dienut Stock Code
	13/16"	1"	1.5/16"	1.1/2"	2"	3"	4"		
No.2	14066								
No.3	14067								
No.4	14068								
No.5	14069								
No.6	14070								
No.8	14071								
No.10	14072								14102
No.12	14073								14103
1/4	14074	14075	14078						14104
5/16		14076	14079						14105
3/8		14077	14080	14084					14106
7/16			14081	14085					14107
1/2			14082	14086	14090				14108
9/16			14083	14087	14091				14109
5/8				14088	14092				14110
3/4				14089	14093				14111
7/8					14094				14112
1					14095				14113
1.1/8						14096			14114
1.1/4						14097			14115
1.3/8						14098			14116
1.1/2						14099			14117
1.3/4							14100		14118
2							14101		14119

UNF/NF

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER							Hex	Dienut Stock Code
	13/16"	1"	1.5/16"	1.1/2"	2"	3"	4"		
No.2	14120								
No.3	14121								
No.4	14122								
No.5	14123								
No.6	14124								
No.8	14125								
No.10	14126								14154
No.12	14127								14155
1/4	14128	14129	14132						14156
5/16		14130	14133						14157
3/8		14131	14134	14138					14158
7/16			14135	14139					14159
1/2			14136	14140	14144				14160
9/16			14137	14141	14145				14161
5/8				14142	14146				14162
3/4				14143	14147				14163
7/8					14148				14164
1					14149				14165
1.1/8						14150			14166
1.1/4						14151			14167
1.3/8						14152			14168
1.1/2						14153			14169

BS/BRASS

Nom. Dia & Pitch	DIES - OUTSIDE DIAMETER			
	1"	1.5/16"	1.1/2"	2"
*1/4				
5/16	14170	14172		
3/8	14171	14173		
7/16		14174		
1/2		14175		
5/8			14176	
3/4				14177
7/8				14178
1				14179

BA

Nom. Dia & Pitch	DIES - OUTSIDE DIA		
	13/16"	1"	Hex
0	14180	14191	14194
1	14181	14192	14195
2	14182	14193	14196
3	14183		14197
4	14184		14198
5	14185		
6	14186		14199
7	14187		
8	14188		
9	14189		
10	14190		



• CAST IRON BODY - STEEL HANDLES
* ALSO AVAILABLE IN ALL STEEL

ADJUSTABLE TAP WRENCHES

Description	Size mm	Stock Code
No.1	1.0 to 10.0	14300
No.2	4.0 to 12.0	14301
No.3	5.0 to 20.0	14302
No.4	11.0 to 27.0	14303
No.5	13.0 to 32.0	14304
No.6	18.0 to 42.0	14305
No.7	25.0 to 52.0	14306
No.8	25.0 to 64.0	14307



RATCHET TYPE TAP WRENCHES

Description	Size mm	Stock Code
No.1	3 - 10	14308
No.2	5 - 12	14309
No.3 LONG REACH - 250mm	3 - 10	14310
No.4 LONG REACH - 300mm	5 - 12	14311



• CAST IRON
* ALSO AVAILABLE IN ALL STEEL

DIE STOCKS

Nominal	Stock Code
0/0 13/16 in	14312
0/0 1 in	14313
0/0 1.5/16 in	14314
0/0 1.1/2 in	14315
0/0 2 in	14316
0/0 2.1/4 in	14317
0/0 3 in	14318
0/0 4 in	14319

A RANGE OF SETS OF HSS HEXAGON DIENUTS IN POLISHED WOOD CASES AVAILABLE - PLEASE ENQUIRE.