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Cutting Tools



Product Grading



Production

High performance industrial tooling designed for continuous use applications on machine tools where repeatability and long tool life are of critical importance.



Professional

Industrial tooling that has enhanced features and benefits demanded by craftsmen and professional users.



Industrial

Designed for regular use in industrial applications. Manufactured to stringent quality levels and international standards.



Workshop

Standard quality tooling for use by tradesmen and generally industrial use.



Maintenance

Products designed for general maintenance of machines, workshops, garages and some household applications.



Home Improver

DIY quality tooling. Designed for home use and light industrial applications.



Product Groups
010 - 144

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Manufactured from top quality sintered steels. For use on a wide range of applications from roughing to finishing.
Manufactured to BS 1296 : Part 3 : 1978.

Light Turning & Facing

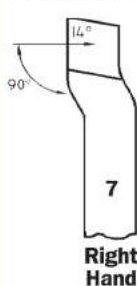


Shape No.1RH Rake & Clearance Angles	
Top Rake	14°
Front Clearance	6°
Approach Angle	-2°
Trail Angle	15°
Side Clearance	6°
Corner Radius	-



Shank (mm)	Overall Length	Order Code KEN-010
12 x 12	100	-0120K
16 x 16	110	-0160K

Knife or Side Cutting

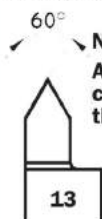


Shape No.7RH Rake & Clearance Angles	
Top Rake	14°
Front Clearance	6°
Approach Angle	-2°
Trail Angle	4 - 10°
Side Clearance	6°
Corner Radius	-



Shank (mm)	Overall Length	Order Code KEN-010
12 x 12	100	-1120K
16 x 16	110	-1160K

External Screw Cutting Right Hand



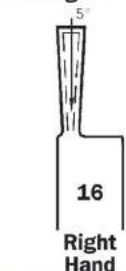
No.13 RH
(No.14 LH available on request)

Shape No.13RH Rake & Clearance Angles	
Top Rake	0°
Front Clearance	12°
Approach Angle	30°
Trail Angle	60°
Side Clearance	60°
Corner Radius	-



Shank (mm)	Overall Length	Order Code KEN-010
12 x 12	100	-2120K
16 x 16	110	-2160K

Parting Off

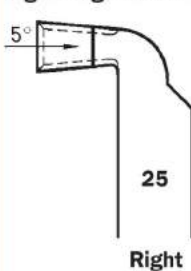


Shape No.16RH Rake & Clearance Angles	
Top Rake	5°
Front Clearance	6°
Approach Angle	90°
Trail Angle	0°
Side Clearance	1-2°
Corner Radius	-



Shank (mm)	Overall Length	Order Code KEN-010
12 x 12	100	-3120K
16 x 16	110	-3160K
20 x 20	125	-3200K

Right Angle Recessing



Shape No.25RH Rake & Clearance Angles	
Top Rake	5°
Front Clearance	6°
Approach Angle	0°
Trail Angle	2°
Side Clearance	3°
Corner Radius	-



Shank (mm)	Overall Length	Order Code KEN-010
16 x 16	110	-6160K

Facing

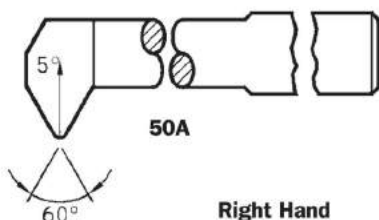


Shape No.19RH Rake & Clearance Angles	
Top Rake	14°
Front Clearance	6°
Approach Angle	-30°
Trail Angle	15°
Side Clearance	6°
Corner Radius	3 - 8°



Shank (mm)	Overall Length	Order Code KEN-010
12 x 12	100	-5120K
16 x 16	110	-5160K

Internal Screw Cutting Tools



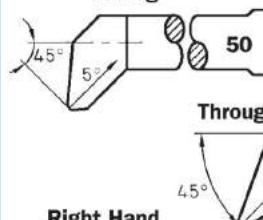
Shape No. 50A Rake & Clearance Angles	
Top Rake	5°
Front Clearance	6°
Approach Angle	0°
Trail Angle	1°
Side Clearance	1°
Corner Radius	-

Shank (mm)	Overall Length	Order Code KEN-010
20 x 12	160	-8620K

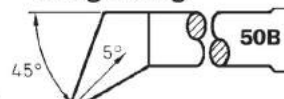


Boring Tools & Through Boring Tools

Boring



Through Boring



Rake & Clearance Angles		Shape No.	
		50	50B
Top Rake	5°	5°	5°
Front Clearance	6°	6°	6°
Approach Angle	-1°	-45°	-45°
Trail Angle	4°	30°	30°
Side Clearance	6°	6°	6°
Corner Radius	-3°	-6°	-6°
Cutting Angle	30°	90°	90°

Shank (mm)	Overall Length	Order Code KEN-010
12 x 12	160	-8120K
16 x 16	200	-8160K





Die Heads

Coventry Die Heads produce clean and smooth threads for economy on short to medium production runs. The ease and simplicity in setting allows for minimum downtime when changing threads.

Coventry Dieheads are suitable for a wide variety of machines:

Capstan and Turret Lathes.
CNC or Automatic Screwing.
Multi Spindle Automatics.
Drilling Machines.

WS Style Coventry Die Heads

Robust and reliable. Can be used on a variety of manual or automatic* machines. Can be supplied with any other straight or tapered shank. Takes standard Coventry type chasers.

Repair parts readily available.
*Supplied with spring band closer.
Set for single cut only.



Model	Capacity	Body Diameter	Shank Diameter	Order Code
WS6	1/4" (6mm)	1 1/2"	5/8"	-0006A
WS12	1/2" (12mm)	2 1/2"	1"	-0012A
WS20	3/4" (20mm)	3 7/16"	1 1/2"	-0020A

HSS Coventry Type Chaser Dies

Cutting takes place only on the throat and the first full tooth; the remaining threads are above centre height and act as a nut, ensuring accurate pitch. Ideal for batch work or continuous production of threaded steel bar. Coventry dies are not interchangeable. An original set of new dies must always be used together. When taken from the diehead the set of dies should be retained in its box until required again.

Throat Angles

20° for general work and soft steels - supplied as standard.
33° 'B' type for cutting brass, available on request.

Grinding Dies

Only two angles are ground on Coventry dies, the throat angle and the rake angle and in the particular case of Holozone dies only the throat angle is ground. All dies in a set must be ground on the throat at the same time and since they cannot be accurately ground by hand, a die grinding fixture must be used.

Marking & Materials

Each die is marked with: diameter, pitch, type of die and gauge number. Non-standard or special dies are marked with an SD number which should be quoted when re-ordering. When a set of dies has been re-ground several times by grinding the throat angle, the height of the cutting edge rises above centre. This condition must be rectified by grinding the rake angle until the die height is correct according to the number shown on the die.



HSS

CUTTING TOOLS

ISO Metric: Throat Angle S20

Size x Pitch	Diehead Size	Weight each	Order Code
4 x 0.70	6mm	22g	-1015Q
	12mm	59g	-1019V
5 x 0.80	12mm	58g	-1024N
	12mm	59g	-1030F
6 x 1.00	20mm	160g	-1031G
	12mm	55g	-1041S
8 x 1.25	20mm	150g	-1043V
	12mm	52g	-1048A
10 x 1.50	20mm	150g	-1050C

Size x Pitch	Diehead Size	Weight each	Order Code
12 x 1.75	12mm	50g	-1054G
	20mm	147g	-1056J
14 x 2.00	20mm	145g	-1061P
	20mm	130g	-1075E
20 x 2.50	25mm	210g	-1077G
	32mm	355g	-1079J
24 x 3.00	25mm	205g	-1085Q
	32mm	320g	-1086R
30 x 3.50	32mm	400g	-1091X



Thread Restoring Files

Restore internal and external threads by filing, where the use of taps and dies are impractical. The restorer file overlaps several good threads and files the damaged ones. Restore right and left hand, internal and external threads. Long lasting, fast cutting teeth. Thread restoring files are available in ISO, Whit/BSF, UNF/UNC and BSP thread types.



Thread Type	Range	Weight each	Order Code
ISO	.80 to 3mm	133g	-9020C
Whit/BSF	10 tpi to 24 tpi	132g	-9001A
UNF/UNC	11 tpi to 24 tpi	130g	-9010B
BSP	11 tpi to 28 tpi	127g	-9030D

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GROUP
019/020

SHEET & TUBE DRILLS/COUNTERSINKS



HSS Multi-Diameter Step Drills



Produce good quality holes in a wide variety of materials, using either a bench drill or light pedestal drilling machine. Each tool cuts parallel holes in a range of specific sizes. For material up to 1/8" (3mm) thick.



Size	Range (mm)	Number of Steps	Weight each	Order Code
0/5	4 - 12	5	30g	SHR-019
0/9	4 - 12	9	30g	-0500K
1	4 - 20	9	70g	-0509K
2	4 - 30	11	200g	-0510K
3	6 - 38	12	299g	-0520K
5	4 - 39	14	320g	-0530K
9	6 - 37	12	310g	-0560K
				-0600K

HSS Sheet Metal Step Drill Set

HSS

Manufactured from high speed steel, resulting in long tool life and extra durability. Each step produces specific sized, parallel holes, with the maximum material thickness being determined by the length of step. The drills are capable of producing or enlarging holes in sheet metals without the need for centre punch or pilot holes, and are designed for use with power tools or pedestal drilling machines for an extensive range of industrial applications.

Sizes include:

4 - 12mm (9 step, 6mm shank),
4 - 20mm (9 step, 8mm shank)
and 4 - 30mm (14 step, 10mm shank).

3
PIECES

Number of Pieces	Range (mm)	Weight	Order Code
3	4 - 30	275g	SHR-019
			-0260K

HSS Taper Sheet & Tube Drills

HSS

For producing clean holes in sheet metal and other thin walled materials. Efficient cutting geometry, no pre-drilled pilot hole and the diameter of the finished hole is infinitely variable within the range of each drill, according to depth of feed.



Range (mm)	Shank Dia. (mm)	Overall Length (mm)	Weight each	Order Code
3 - 14	6	57	30g	SHR-019
8 - 20	8	66	60g	-1100K
16 - 30	9	74	140g	-1110K
26 - 40	9	85	300g	-1120K
				-1130K



HSS-E Co 5% Countersinks Single Hole



Manufactured from M35 HSS and used for the deburring and chamfering of most metals and plastics. Straight shank. Manufactured to BS328 : Part 5 : 1983. Inclusive angle 90°.



Cutting Range (mm)	Shank Dia. (mm)	Overall Length (mm)	Weight each	Order Code
2 - 5	6	32.0	15g	KEN-020
5 - 10	8	30.5	25g	-2090K
10 - 15	10	37.5	25g	-2100K
15 - 20	12	48.0	110g	-2150K
20 - 25	15	56.5	225g	-2200K
				-2250K



HSS-E Co 5% Countersinks Single Hole



Manufactured from HSS-E cobalt for deburring and chamfering. Straight shank. Manufactured to BS328 : Part 5 : 1983. Inclusive angle 90°.



Cutting Range (mm)	Shank Dia. (mm)	Overall Length (mm)	Weight each	Order Code
2 - 5	6	32.0	15g	SHR-020
5 - 10	8	30.5	25g	-2090K
10 - 15	10	37.5	25g	-2100K
15 - 20	12	48.0	110g	-2150K
20 - 25	15	56.5	225g	-2200K
25 - 30	15	55.0	315g	-2250K
				-2300K

HSS Single Flute Countersinks

HSS

A quality range of single flute countersinking bits available in nine individual sizes and as a five piece set for use in the deburring and chamfering of most metals and plastics. Manufactured from high speed steel for durability and performance. Inclusive angle 90°.



Size	Shank Diameter	Overall Length	Order Code
1/4"	1/4"	1 1/2"	SHR-020
5/16"	1/4"	2"	-9150K
3/8"	1/4"	2"	-9160K
1/2"	1/4"	2"	-9170K
5/8"	1/2"	2 1/4"	-9180K
3/4"	1/2"	2 3/4"	-9190K
7/8"	1/2"	2 3/4"	-9200K
1"	1/2"	2 3/4"	-9210K
			-9220K
5 Piece Set: 1/4", 3/8", 1/2", 3/4" & 1"			-9250K

HSS-Co 5% Countersink Set

HSS-Co 5%

Straight shank, ground flute 90° angle. Sizes: 2 - 5mm, 5 - 10mm, 10 - 15mm, 15 - 20mm, 20 - 25mm and 25 - 30mm.

6
PIECES

Weight each	Order Code
1.2kg	SHR-020
	-9020B



HSS-Co 5% 3 Flute Piloted Countersinks



For the production of high precision concentrically centred countersinks in most metals where pilot holes have been pre-drilled.

HSS-Co 5%

Shank diameter: $\frac{3}{16}$ ".



Product Number	Diameter	Inc. Angle	Body Dia.	Overall Length	Order Code SHR-020
5802	$\frac{3}{32}$ "	100°	$\frac{3}{16}$ "	2 $\frac{1}{2}$ "	-5050D
5803	$\frac{3}{32}$ "	120°	$\frac{3}{16}$ "	2 $\frac{1}{2}$ "	-5054H
5810	$\frac{1}{8}$ "	100°	$\frac{1}{4}$ "	2 $\frac{1}{2}$ "	-5051E
5812	$\frac{1}{8}$ "	120°	$\frac{3}{4}$ "	2 $\frac{1}{2}$ "	-5055J
5821	$\frac{5}{32}$ "	100°	$\frac{5}{16}$ "	2 $\frac{1}{2}$ "	-5052F
5831	$\frac{3}{16}$ "	100°	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "	-5053G
5832	$\frac{3}{16}$ "	120°	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "	-5056K

Inclined Angles for Countersunk Socket Head Screws			
Thread Series	Standard	Thread Size	Countersink Angle
Metric	BS EN ISO 10642	up to M20	90°
		over M20	60°
UNC/F	ANSI B 18.3	No. 0 to 1"	82°
BSW/F BA	BS 2470	$\frac{1}{8}$ " TO 1"	90°
		8BA TO OBA	90°

Diameter	Inc. Angle	Body Dia.	Overall Length	Order Code SHR-020
$\frac{3}{32}$ "	100°	.190	2 $\frac{1}{2}$ "	-5057L
$\frac{1}{8}$ "	100°	.252	2 $\frac{1}{2}$ "	-5058M
$\frac{5}{32}$ "	100°	.340	2 $\frac{1}{2}$ "	-5059N
$\frac{3}{16}$ "	100°	.405	2 $\frac{1}{2}$ "	-5060P
$\frac{1}{4}$ "	100°	.530	2 $\frac{1}{2}$ "	-5061Q

HSS-Co 5% 3 Flute - Straight Shank

HSS-Co 5%

90° Heavy Duty

Manufactured from HSS-E cobalt steel for deburring and chamfering of most metals and plastics.

Manufactured to **BS328 : Part 5 : 1983.**



Cutting Diameter	Shank Diameter	Order Code SHR-020
8.0mm	8mm	-0790K
10.0mm	8mm	-0890K
12.5mm	8mm	-0990K
16.0mm	10mm	-1090K
20.0mm	10mm	-1110K
25.0mm	10mm	-1130K

HSS-Co 5% 3 Flute - Taper Shank

HSS-Co 5%

90° inclusive angle.



Cutting Diameter	Shank Diameter	Order Code SHR-020
16.0mm	1MT	-1550K
20.0mm	2MT	-1570K
25.0mm	2MT	-1590K
31.5mm	2MT	-1690K
40.0mm	3MT	-1790K
50.0mm	3MT	-1890K
63.0mm	4MT	-1920K

HSS-Co 5% Multi Flute - Straight Shank

HSS-Co 5%

Rose Pattern

Inclusive angle 90°.

Overall length: 52mm.



Cutting Diameter	Shank Diameter	Order Code SHR-020
9.5mm	4.8mm	-2040K
12.7mm	4.8mm	-2060K
15.8mm	6.3mm	-2080K

KENNEDY HSS-Co 5% Multi Flute - Straight Shank



Rose Pattern

Inclusive angle 90°.

Overall length: 52mm.



Cutting Diameter	Shank Diameter	Order Code KEN-020
9.5mm	4.8mm	-2040K
12.7mm	4.8mm	-2060K
15.8mm	6.3mm	-2080K

HSS-Co 5%

HSS-Co 5% Multi Flute - Straight Shank

HSS-Co 5%

Heavy Duty

Inclusive angle 90°.

Overall length: 40mm.



Cutting Diameter	Shank Diameter	Order Code SHR-020
12.7mm	6.3mm	-2000K

HSS-Co 5% Multi Flute - Straight Shank

HSS-Co 5%

Heavy Duty

Inclusive angle 90°.

Overall length: 40mm.



Cutting Diameter	Shank Diameter	Order Code KEN-020
12.7mm	6.3mm	-2000K

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HSS-Co 5% High Performance Countersinks

A chatter-free cutter giving an excellent burr-free finish. Capable of deburring and countersinking in one stroke with no 'back-off' of tool. Also free countersinking of aluminium with no secondary bulge. For special applications and exotic materials, a choice of hard coatings is available.


HSS-Co 5%


Cutting Diameter	Shank (mm)	Length (mm)	Weight each	Order Code SHR-020		
				60° Countersink	90° Countersink	100° Countersink
6.3mm	5	45		-5950K	-	-5450K
8.3mm	6	46	12g	-6000K	-5000K	-5500K
10.4mm	6	47	13g	-6050K	-5050K	-5550K
12.4mm	8	58	24g	-6100K	-5100K	-5600K
16.5mm	8	60	29g	-6150K	-5150K	-5650K
20.5mm	10	65	48g	-6200K	-5200K	-5700K
25.0mm	10	69	70g	-6300K	-5250K	-5750K

HSS-Co 5% Countersinks

3 Flute - Straight Shank

Manufactured from M35 HSS and used for the deburring and chamfering of most metals and plastics.

Manufactured to **BS 328 : Part 5 : 1983**.

Inclusive angle 82°.



Cutting Diameter	Shank Diameter	Order Code SHR-020
8.5mm	8mm	-7090K
10.0mm	8mm	-7100K
12.5mm	8mm	-7120K
16.0mm	10mm	-7160K
20.0mm	10mm	-7200K
25.0mm	10mm	-7250K

HSS-Co 5% 90° Countersinks

For all ferrous and non-ferrous metals as well as for hard plastics. General purpose chamfering/deburring and countersinking tool. Bright finish, 3 flute, ground all over.

Made to **DIN 335**.



Cutting Dia.	Shank (mm)	Length (mm)	Order Code SHR-020
6.0mm	5	45	-3060E
6.3mm	5	45	-3063J
8.3mm	6	50	-3083J
13.4mm	8	56	-3134Q
15.0mm	10	60	-3150G
19.0mm	10	63	-3190T
23.0mm	10	67	-3223G
30.0mm	12	71	-3230R

5 Piece Set Contents:

6.30, 8.30, 13.40, 15.00 and 19.00mm.

5
PIECES

 Order Code
SHR-020
-9260K
HSS-Co 5%


HSS-Co 5% Countersinks

3 Flute - Straight Shank

Manufactured from M35 HSS and used for the deburring and chamfering of most metals and plastics.

Manufactured to **BS 328 : Part 5 : 1983**.

Inclusive angle 90°.



Cutting Diameter	Shank Diameter	Order Code KEN-020
8.0mm	8mm	-0790K
10.0mm	8mm	-0890K
12.5mm	8mm	-0990K
16.0mm	10mm	-1090K
20.0mm	10mm	-1110K
25.0mm	10mm	-1130K

HSS-Co 5% Countersink Set 90°

6 Piece Set

Manufactured from M35 HSS and used for the deburring and chamfering of most metals and plastics.

Straight shank, ground flute 90 angle.

Manufactured to **BS328 : Part 5 : 1983**.

Sizes: 8, 10, 12.5, 16, 20 and 25mm.


6
PIECES

Weight

620g

 Order Code
KEN-020
-1160K



HSS-Co 5% Countersink Set - 90°

High Performance Multi Flute
Manufactured from HSS-E cobalt for deburring and chamfering. Straight shank, ground flute 90° angle.

Manufactured to **BS328 : Part 5 : 1983**.
Inclusive angle 90°.

Sizes: 8, 10, 12.5, 16, 20 and 25mm.

HSS-Co 5%



**6
PIECES**

Inclusive
Angle
90°

Order Code
SHR-020
-9010A

HSS-Co 5% Countersink Set - 100°

High Performance Multi Flute
Manufactured from HSS-E cobalt for deburring and chamfering. Straight shank, ground flute 100° angle.

Manufactured to **BS328 : Part 5 : 1983**.
Inclusive angle 100°.

Sizes: 6, 8, 10, 12.5 and 16mm.

HSS-Co 5%



**5
PIECES**

Inclusive
Angle
100°

Order Code
SHR-020
-9130A

COUNTERSINKS

**GROUP
020**



HSS-Co 5% TiN Coated Countersink Set - 90°

High Performance Multi Flute
Manufactured from HSS-E cobalt for deburring and chamfering. Straight shank, ground flute 90° angle.

Manufactured to **BS328 : Part 5 : 1983**.
Inclusive angle 90°.

Sizes: 6, 8, 10, 12.5, 16 and 20mm.

HSS-Co 5%

TiN



**6
PIECES**

Inclusive
Angle
90°

Order Code
SHR-020
-8990Y

HSS-Co 5% Countersink Set - 60°

High Performance Multi Flute
Manufactured from HSS-E cobalt for deburring and chamfering. Straight shank, ground flute 60° angle.

Manufactured to **BS328 : Part 5 : 1983**.
Inclusive angle 60°.

Sizes: 6, 8, 10, 12.5 and 16mm.

HSS-Co 5%



**5
PIECES**

Inclusive
Angle
60°

Order Code
SHR-020
-8150A

CUTTING TOOLS



Solid Carbide High Performance Premium Countersinks

CARBIDE

For the general purpose countersinking of tool steel, cast irons, high silicon aluminium, bronze and non-metallic materials such as resin fibre-glass and laminates. Available in three flute with eccentric relief and six flute with conventional relief.
Manufactured to **USCTI Standards**.

3 Flute 90°



* Brazed steel shank

Cutting Diameter	Shank Diameter	Overall Length	Weight each	Order Code
1/4" (6.3mm)	1/4" (6.3mm)	2" (50mm)	30g	-0790K
3/8" (9.5mm)	1/4" (6.3mm)*	2 13/16" (73mm)	40g	-0890K
1/2" (12.7mm)	1/4" (6.3mm)*	2 7/8" (75mm)	50g	-0990K
5/8" (16.0mm)	3/8" (9.5mm)*	3" (76mm)	90g	-1090K
3/4" (19.0mm)	1/2" (12.7mm)*	3" (76mm)	130g	-1110K

6 Flute 90°



* Brazed steel shank

Cutting Diameter	Shank Diameter	Overall Length	Weight each	Order Code
1/4" (6.3mm)	1/4" (6.3mm)	2" (50mm)	30g	-1790K
3/8" (9.5mm)	1/4" (6.3mm)*	2 13/16" (73mm)	40g	-1890K
1/2" (12.7mm)	1/4" (6.3mm)*	2 7/8" (75mm)	50g	-1990K
5/8" (16.0mm)	3/8" (9.5mm)*	3" (76mm)	90g	-2090K
3/4" (19.0mm)	1/2" (12.7mm)*	3" (76mm)	130g	-2110K

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP
021/025 COUNTERSINKS/SPOTTING DRILLS

HSS Solid Counterbores

Spiral flute, 3 flute. Medium duty. Used for milling of pre-drilled holes to allow bolt or cap head screws to lie flush with the component surface.

Manufactured to **BS328: 5:1983**.

Plain Shank

HSS
Metric

Bolt Size (mm)	Pilot Dia.	Cutter Dia.	Overall Length	Weight each	Order Code
3	3.4	6	65	10g	-3520K
4	4.3	8	65	10g	-3560K
5	5.3	10	70	10g	-3580K
6	6.4	11	76	20g	-3600K
8	8.4	15	87.3	60g	-3620K
10	10.5	18	89	70g	-3640K
12	13.0	20	108	110g	-3660K
16	17.0	26	125	225g	-3700K


Plain Shank Set

Manufactured to **BS328 : 5 : 1983**.

Contents: M3, M4, M5, M6, M8, M10 and M12.


HSS
**7
PIECES**


Weight each
462g

Order Code
SHR-021

SWISS+TECH HSS TiN Tipped Spotting Drills

Special drill for accurate and fast spotting on NC machines, jig drills and other capital-intensive boring machines.

For countersinking and chamfering of tapping holes in one operation. Only suitable for shallow depth drilling.

HSS TiN-tip
Metric

Diameter (mm)	Flute Length	Overall Length	Weight per 5	Order Code
4	12	46	20g	-5180A
5	14	62	40g	-5181A
6	16	66	65g	-5182A
8	21	79	135g	-5183A
10	24	89	265g	-5184A
12	30	102	434g	-5185A
16	35	115	175g	-5187A


90° Point Set

Contents: 4.00, 6.00, 8.00, 10.00 and 12.00

HSS TiN-tip
**5
PIECES**


Weight each
300g

Order Code
SWT-125


HSS-E Spotting Drills
HSS-E

Special drill for accurate and fast spotting on NC machines, jig drills and other capital-intensive boring machines. For countersinking and chamfering of tapping holes in one operation. Only suitable for shallow depth drilling.

90° Point - Series C520
Metric

Diameter (mm)	Flute Length	Overall Length	Weight per 5	Order Code
3	12	46	15g	-2528Y
4	12	46	20g	-2528Z
5	14	62	40g	-2529B
6	16	66	65g	-2529A
8	21	79	135g	-2530B
10	24	89	265g	-2531C
12	30	102	434g	-2532D
14	33	107	625g	-2532N
16	35	115	825g	-2533E
20	40	131	1490g	-2534F


90° Point 5 Piece Set

Contents: 4.00, 6.00, 8.00, 10.00 and 12.00mm.

HSS-E
**5
PIECES**

Order Code
SHR-025
-9200K


120° Point - Series C530
HSS-E

Metric

Diameter (mm)	Flute Length	Overall Length	Weight per 5	Order Code
6	20	66	100g	-2535G
8	16	79	155g	-2536H
10	21	89	265g	-2537J
12	30	102	434g	-2538K
16	35	115	175g	-2539L
20	40	131	298g	-2540M


Carbide Spotting Drills
CARBIDE

Designed for close tolerance hole location.

Suitable for continuous production on aluminium, plastics, free cutting steels, cast iron, titanium and some aerospace materials. The stability of carbide makes the tool more rigid and less likely to deflect, maintaining a higher level of accuracy. Operators should note that continuous heavy shock loading may cause the tool to fail due to its brittleness.

90° Point - Metric
Metric

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Weight per 5	Order Code
4	10	40	40g	-8540K
6	16	50	100g	-8560K
8	23	60	155g	-8580K
10	24	70	265g	-8600K
12	25	70	434g	-8620K
16	30	80	175g	-8660K
20	35	100	298g	-8700K





HSS



HSS SCD Stub Centring Drills

Stub centering drills designed for sheet metal drilling and spot centering operations with a strong supporting web and a reduced chisel edge to help penetration.

135° Split Point - Series S510



Metric

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Order Code SHR-025
2	14	43	-1396A
3	18	49	-1396C
4	18	55	-1396E
5	18	62	-1396G
6	18	70	-1396J

Inch

Diameter (Inch)	Flute Length	Overall Length	Order Code SHR-025
3/32"	9/16"	1 11/16"	-1400C
1/8"	1 1/16"	1 5/16"	-1400F
5/32"	1 1/16"	2 5/32"	-1400J
3/16"	1 1/16"	2 7/16"	-1400M
1/4"	3/4"	2 3/4"	-1400Q

HSS Straight Shank Quick Spiral, Extra Length Vent Drills

QUICK SPIRAL

Sherwood HSS quick spiral extra length Vent drills are designed for drilling the initial vent hole in aluminium tyre moulds, and are also used in the tyre industry for clean-out work post production where the high helix and extra reach are ideal for the efficient evacuation of waste rubber. Manufactured to works standard. 118° point angle.

HSS



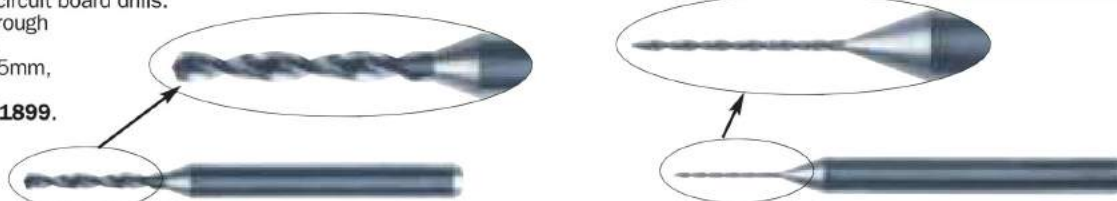
Metric

Diameter (mm)	Flute Length (mm)	Overall Length (mm)	Order Code SHR-025
0.60	40	60	-2180D
0.70	40	76	-2180H
0.75	50	100	-2181P

Carbide Printed Circuit Board Drills

Solid carbide printed circuit board drills. Suitable for drilling through printed circuit boards. Shank diameter 3.175mm, 38mm overall length. Manufactured to **DIN 1899**.

CARBIDE



Metric

Diameter (mm)	Flute Length (mm)	Order Code SHR-158
0.40	5.5	-3004D
0.45	5.5	-3005E
0.50	5.5	-3006F
0.55	7.0	-3007G
0.60	7.0	-3008H
0.65	7.0	-3009J
0.70	9.5	-3010K
0.75	9.5	-3011L
0.80	9.5	-3012M
0.85	9.5	-3013N
0.90	9.5	-3014P
0.95	9.5	-3015Q

Metric Continued

Diameter (mm)	Flute Length (mm)	Order Code SHR-158
1.00	10.5	-3016R
1.05	10.5	-3017S
1.10	10.5	-3018T
1.20	10.5	-3020W
1.25	10.5	-3021X
1.30	10.5	-3022Y
1.35	10.5	-3023Z
1.40	10.5	-3025A
1.45	10.5	-3026B
1.50	10.0	-3027C

Drilling Stack Height Limits for Drilling PCB Materials

Includes allowance for entry, materials thickness, penetration into backing material, and flute/swarf clearance.

Feed & Speed Guidelines for Drilling PCB Materials

Values listed are for your guidance.

Drill parameters should be evaluated for different applications.

Drill Dia. (mm)	Suggested Drilling Stack Height Limits for Carbide PCB Drills		
	1 High	2 High	3 High
0.40	3.3	4.9	-
0.45	3.4	5.0	-
0.50	3.6	5.2	-
0.55	3.7	5.3	-
0.60	3.8	5.4	-
0.65	3.9	5.5	-
0.70	4.1	5.7	7.3
0.75	4.2	5.8	7.4
0.80	4.3	5.9	7.5
0.85	4.4	6.0	7.6
0.90	4.6	6.2	7.8
0.95	4.7	6.3	7.9
1.00	4.8	6.4	8.0
1.05	4.9	6.5	8.1
1.10	5.1	6.7	8.3
1.15	5.2	6.8	8.4
1.20	5.3	6.9	8.5
1.25	5.4	7.0	8.6
1.30	5.6	7.2	8.8
1.35	5.7	7.3	8.9
1.40	5.8	7.4	9.0
1.45	5.9	7.5	9.1
1.50	6.1	7.7	9.3



Drill Dia. (mm)	Cutting Speed 120m/min			Cutting Speed 150m/min			Cutting Speed 180m/min		
	Spindle RPM	Feed mm/rev	m/min	Spindle RPM	Feed mm/rev	m/min	Spindle RPM	Feed mm/rev	m/min
0.40	95,000	0.024	2.3	119,000	0.024	2.9	143,000	0.024	3.4
0.45	85,000	0.027	2.3	106,000	0.027	2.9	127,000	0.027	3.4
0.50	76,000	0.030	2.3	95,000	0.030	2.9	115,000	0.030	3.4
0.55	70,000	0.033	2.3	87,500	0.033	2.9	405,000	0.033	3.4
0.60	64,000	0.036	2.3	80,000	0.036	2.9	95,000	0.036	3.4
0.65	59,500	0.039	2.3	74,000	0.039	2.9	88,500	0.039	3.4
0.70	55,000	0.042	2.3	68,000	0.042	2.9	82,000	0.042	3.4
0.75	51,500	0.045	2.3	64,000	0.045	2.9	77,000	0.045	3.4
0.80	48,000	0.048	2.3	60,000	0.048	2.9	72,000	0.048	3.4
0.85	45,000	0.051	2.3	56,500	0.051	2.9	68,000	0.051	3.4
0.90	42,000	0.054	2.3	53,000	0.054	2.9	64,000	0.054	3.4
0.95	40,000	0.057	2.3	50,500	0.057	2.9	60,500	0.057	3.4
1.00	38,000	0.060	2.3	48,000	0.060	2.9	57,000	0.060	3.4
1.05	36,500	0.063	2.3	45,500	0.063	2.9	54,500	0.063	3.4
1.10	35,000	0.066	2.3	43,000	0.066	2.9	52,000	0.066	3.4
1.15	33,500	0.069	2.3	41,500	0.069	2.9	50,000	0.069	3.4
1.20	32,000	0.072	2.3	40,000	0.072	2.9	48,000	0.072	3.4
1.25	30,500	0.075	2.3	38,500	0.075	2.9	46,000	0.075	3.4
1.30	29,000	0.078	2.3	37,000	0.078	2.9	44,000	0.078	3.4
1.35	28,000	0.081	2.3	35,500	0.081	2.9	42,500	0.081	3.4
1.40	27,000	0.084	2.3	34,000	0.084	2.9	41,000	0.084	3.4
1.45	26,000	0.087	2.3	33,000	0.087	2.9	39,500	0.087	3.4
1.50	25,000	0.090	2.3	32,000	0.090	2.9	38,000	0.090	3.4

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SWISS+TECH HSS TiN Tipped Centre Drills

Designed with spiral flutes and various lengths and forms to give high quality centre holes that suit most applications. TiN coating on working parts. 60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

HSS TiN-tip
METRIC

**Metric**

Diameter		Pilot Length		Overall Length	Order Code
Body	Pilot	Min.	Max.		
3.15	1.0	1.3	1.9	31.5	-5142A
4.00	1.60	2.0	2.8	35.5	-5143A
5.00	2.00	2.5	3.3	40.0	-5144A
6.30	2.50	3.1	4.1	45.0	-5145A
8.00	3.15	3.9	4.9	50.0	-5146A
10.00	4.00	5.0	6.2	56.0	-5147A
12.50	5.00	6.3	7.5	63.0	-5148A

HSS 5 Metric Set

60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

Sizes: 5 x 2mm, 6.3 x 2.5mm, 8 x 3.15mm 10 x 4mm and 12.5 x 5mm.

HSS TiN-tip



5
PIECES

Weight each
120g

Order Code
SWT-125
-5155A

HSS TiN Tipped Centre Drills

Designed with spiral flutes and various lengths and forms to give high quality centre holes that suit most applications. TiN coating on working parts. 60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

HSS TiN-tip
INCH

**Inch**

Size	Diameter		Pilot Length		Overall Length	Order Code
	Body	Pilot	Min.	Max.		
BS1	1/8"	3/64"	1/16"	5/64"	1 1/2"	-5133A
BS2	3/16"	1/16"	5/64"	3/32"	1 3/4"	-5134A
BS3	1/4"	3/32"	1/8"	5/32"	2"	-5135A
BS4	5/16"	1/8"	5/32"	3/16"	2 1/4"	-5136A
BS5	7/16"	3/16"	1/4"	9/32"	2 1/2"	-5137A

HSS TiN Tipped BS Set

Designed with spiral flutes and various lengths and forms to give high quality centre holes. TiN coating on working parts. 60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

Sizes: BS1, BS2, BS3, BS4 and BS5.

HSS TiN-tip



5
PIECES

Weight each
114g

Order Code
SWT-125
-5140A

SHERWOOD HSS Centre Drills

Designed with spiral flutes and various lengths and forms to give high quality centre holes that suit most applications. 60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

HSS

METRIC

**C100 Series - Metric**

Diameter	Pilot Length		Overall Length	Weight each	Order Code
	Body	Pilot			
3.15	0.80	1.1	1.5	31.5	2g -1843X
3.15	1.00	1.3	1.9	31.5	2g -1844A
3.15	1.25	1.6	2.2	31.5	3g -1845B
4.00	1.60	2.0	2.8	35.5	3g -1846C
5.00	2.00	2.5	3.3	40.0	5g -1847D
6.30	2.50	3.1	4.1	45.0	9g -1848E
8.00	3.15	3.9	4.9	50.0	7g -1849F
10.00	4.00	5.0	6.2	56.0	28g -1850G
12.50	5.00	6.3	7.5	63.0	45g -1851H
16.00	6.30	8.0	9.2	71.0	71g -1852J
20.00	8.00	10.0	11.5	83.0	102g -1852M
25.00	10.00	12.8	14.2	103.0	197g -1852N

HSS Metric Set

60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

Sizes: 5 x 2mm, 6.3 x 2.5mm, 8 x 3.15mm 10 x 4mm and 12.5 x 5mm.

HSS



5
PIECES

Weight each
120g

Order Code
SHR-025
-9150K

HSS Centre Drills

Designed with spiral flutes and various lengths and forms to give high quality centre holes that suit most applications. 60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

HSS

INCH

**C100 Series - Inch**

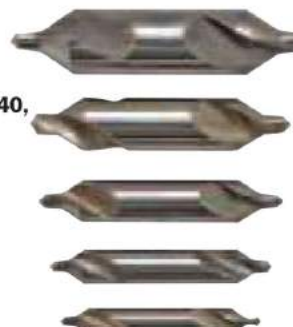
Size	Diameter		Pilot Length		Overall Length	Order Code
	Body	Pilot	Min.	Max.		
BS00	1/8"	0.025"	0.025"	0.030"	1 1/8"	-1827L
BS0	1/8"	1/32"	3/64"	1/16"	1 1/4"	-1828M
BS1	1/8"	3/64"	1/16"	5/64"	1 1/2"	-1829A
BS2	3/16"	1/16"	5/64"	3/32"	1 3/4"	-1830B
BS3	1/4"	3/32"	1/8"	5/32"	2"	-1831C
BS4	5/16"	1/8"	5/32"	3/16"	2 1/4"	-1832D
BS5	7/16"	3/16"	1/4"	9/32"	2 1/2"	-1833E
BS6	5/8"	1/4"	5/16"	3/8"	3"	-1835G
BS7	3/4"	5/16"	13/32"	15/32"	3 1/2"	-1836H

HSS BS Set

60° inclusive angle. Manufactured to **BS 328 : Part 2 : 1986, DIN 333A, ISO 866, ISO 2540, ISO 2541.**

Sizes: BS1, BS2, BS3, BS4 and BS5.

HSS



5
PIECES

Weight each
114g

Order Code
SHR-025
-9160K

Ground flute, for drilling centre holes on components prior to machining. Extra length drills particularly useful for drilling centre holes in recesses. Manufactured to **BS 328 : Part 1 : 1986, DIN333A : ISO 86, ISO2540, ISO2541.**



Metric

Diameter (mm)		Overall Length	Weight each	Order Code
Body	Point			
4.00	1.00	120	19g	-1866H
5.00	1.60	120	25g	-1866K
6.00	2.00	120	31g	-1866N
8.00	2.50	120	49g	-1866R
10.00	3.15	120	69g	-1866W
12.50	5.00	120	86g	-1866X

Inch

Size	Diameter		Overall Length	Order Code
	Body	Pilot		
BS1	1/8"	3/64"	4"	-1881A
BS2	3/16"	1/16"	4"	-1882B
BS3	1/4"	3/32"	4"	-1883C
BS4	5/16"	1/8"	4"	-1884D
BS5	7/16"	3/16"	4"	-1885E

HSS Bell Type Centre Drills

Manufactured to **BS 328 : Part 2 : 1986, DIN 333, ISO 2540.**



Metric

Diameter		Overall Length	Order Code
Body	Pilot		
4.00	1.00	35.5	-1861K
5.00	1.25	40.0	-1861L
6.30	1.60	45.0	-1861N
8.00	2.00	50.0	-1861P
10.00	2.50	56.0	-1861Q
11.20	3.15	60.0	-1861R
14.00	4.00	67.0	-1861S
18.00	5.00	75.0	-1861T

Inch

Size	Diameter		Overall Length	Order Code
	Body	Pilot		
BS1B	1/8"	3/64"	1 1/2"	-1853A
BS2B	3/16"	1/16"	1 3/4"	-1854B
BS3B	1/4"	3/32"	2"	-1855C
BS4B	5/16"	1/8"	2 1/4"	-1856D
BS5B	7/16"	5/32"	2 1/2"	-1858F

Carbide Centre Drills

Used to produce 60° centres in components for subsequent manufacturing operations to be carried out. Tool life is extended and difficult materials may be drilled.
60° included angle, 118° drill point.
Manufactured to **BS 328.**


CARBIDE

Tolerances

Cutting Diameter +0.0005"
Shank Diameter +0.0010"



Inch

Size	Diameter		Overall Length	Weight each	Order Code
	Body	Drill			
BS1	1/8"	3/64"	1 1/2"	10g	-8010K
BS2	3/16"	5/64"	1 7/8"	10g	-8020K
BS3	1/4"	7/64"	2"	20g	-8030K
BS4	5/16"	1/8"	2 1/8"	30g	-8040K
BS5	7/16"	3/16"	2 3/4"	70g	-8050K
BS6	1/2"	7/32"	3"	90g	-8060K

Metric

Diameter	Pilot	Pilot Length		Overall Length	Weight each	Order Code
		Min.	Max.			
4.00	1.60	2.0	2.8	35.5	3g	-8110K
5.00	2.00	2.5	3.3	40.0	5g	-8120K
6.30	2.50	3.1	4.1	45.0	9g	-8130K
8.00	3.15	3.9	4.9	50.0	7g	-8140K
10.00	4.00	5.0	6.2	56.0	28g	-8150K
12.50	5.00	6.3	7.5	63.0	45g	-8160K
16.00	6.30	8.0	9.2	71.0	123g	-8180K

KENNEDY Carbide Centre Drills



Used to produce 60° centres in components for subsequent manufacturing operations to be carried out. Tool life is extended and difficult materials may be drilled. 60° included angle, 118° drill point.
Manufactured to **BS 328.**

CARBIDE

Tolerances

Cutting Diameter +0.0005"
Shank Diameter +0.0010"



Inch

Size	Diameter		Overall Length	Weight each	Order Code
	Body	Drill			
BS1	1/8"	3/64"	1 1/2"	10g	-9010K
BS2	3/16"	5/64"	1 7/8"	10g	-9020K
BS3	1/4"	7/64"	2"	20g	-9030K
BS4	5/16"	1/8"	2 1/8"	30g	-9040K
BS5	7/16"	3/16"	2 3/4"	70g	-9050K
BS6	1/2"	7/32"	3"	90g	-9060K

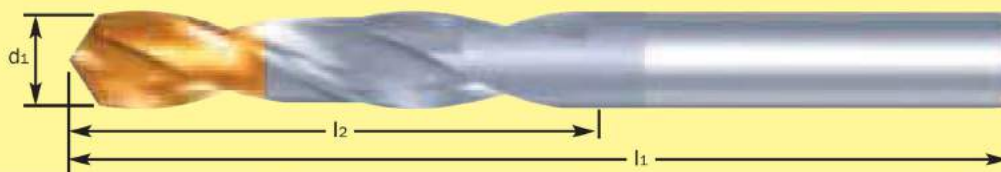
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GROUP 025 STUB DRILLS



Dimensions - Stub Drills to BS 328 / DIN 1897

The majority of stub drills feature in this catalogue comply with the above standards in terms of overall and working dimensions. The tables of sizes below apply to all of these products. In order to save space in the catalogue we are not repeating these dimensions after this page. Any drills which are made to different standards/dimensions will have them listed accordingly in the tables for those products.



d1	Inch	Inch	l2	l1	d1	Inch	Inch	l2	l1	d1	Inch	Inch	l2	l1	d1	Inch	Inch	l2	l1
mm	h8	Dec.	mm	mm	mm	h8	Dec.	mm	mm	mm	h8	Dec.	mm	mm	mm	h8	Dec.	mm	mm
0.50		0.0196	3.0	20.0	3.80		0.1496	22.0	55.0	7.40		0.2913	34.0	74.0	11.30		0.4448	47.0	95.0
0.60		0.0236	3.5	21.0	3.90		0.1535	22.0	55.0	7.50		0.2952	34.0	74.0	11.50		0.4527	47.0	95.0
0.70		0.0275	4.5	23.0	3.97	5/32	0.1562	22.0	55.0	7.60		0.2992	37.0	79.0	11.60		0.4566	47.0	95.0
0.79	1/32	0.0312	5.0	24.0	4.00		0.1574	22.0	55.0	7.70		0.3031	37.0	79.0	11.70		0.4606	47.0	95.0
0.80		0.0314	5.0	24.0	4.10		0.1614	22.0	55.0	7.80		0.3070	37.0	79.0	11.80		0.4645	47.0	95.0
0.90		0.0354	5.5	25.0	4.20		0.1653	22.0	55.0	7.90		0.3110	37.0	79.0	11.90		0.4685	51.0	102.0
1.00		0.0393	6.0	26.0	4.30		0.1692	24.0	58.0	7.94	5/16	0.3125	37.0	79.0	12.00		0.4724	51.0	102.0
1.10		0.0433	7.0	28.0	4.37	11/64	0.1720	24.0	58.0	8.00		0.3149	37.0	79.0	12.10		0.4763	51.0	102.0
1.19	3/64	0.0468	8.0	30.0	4.40		0.1732	24.0	58.0	8.10		0.3188	37.0	79.0	12.20		0.4803	51.0	102.0
1.20		0.0472	8.0	30.0	4.50		0.1771	24.0	58.0	8.20		0.3228	37.0	79.0	12.50		0.4921	51.0	102.0
1.30		0.0511	8.0	30.0	4.60		0.1811	24.0	58.0	8.30		0.3267	37.0	79.0	12.70	1/2	0.5000	51.0	102.0
1.40		0.0551	9.0	32.0	4.70		0.1850	24.0	58.0	8.40		0.3307	37.0	79.0	13.00		0.5118	51.0	102.0
1.50		0.0590	9.0	32.0	4.76	3/16	0.1874	26.0	62.0	8.50		0.3346	37.0	79.0	13.50		0.5314	54.0	107.0
1.59	1/16	0.0625	10.0	34.0	4.80		0.1889	26.0	62.0	8.60		0.3385	40.0	84.0	14.00		0.5511	54.0	107.0
1.60		0.0629	10.0	34.0	4.90		0.1929	26.0	62.0	8.70		0.3425	40.0	84.0	14.29	9/16	0.5625	56.0	111.0
1.70		0.0669	10.0	34.0	5.00		0.1968	26.0	62.0	8.73	11/32	0.3437	40.0	84.0	14.50		0.5708	56.0	111.0
1.80		0.0708	11.0	36.0	5.10		0.2007	26.0	62.0	8.80		0.3464	40.0	84.0	15.00		0.5905	56.0	111.0
1.90		0.0748	11.0	36.0	5.16	13/64	0.2031	26.0	62.0	8.90		0.3503	40.0	84.0	15.50		0.6102	58.0	115.0
1.98	5/64	0.0779	12.0	38.0	5.20		0.2047	26.0	62.0	9.00		0.3543	40.0	84.0	15.88	5/8	0.6251	58.0	115.0
2.00		0.0787	12.0	38.0	5.30		0.2086	26.0	62.0	9.10		0.3582	40.0	84.0	16.00		0.6299	58.0	115.0
2.10		0.0826	12.0	38.0	5.40		0.2125	28.0	66.0	9.20		0.3622	40.0	84.0	16.50		0.6496	60.0	119.0
2.20		0.0866	13.0	40.0	5.50		0.2165	28.0	66.0	9.30		0.3661	40.0	84.0	17.00		0.6692	60.0	119.0
2.25		0.0885	13.0	40.0	5.56	7/32	0.2188	28.0	66.0	9.40		0.3700	40.0	84.0	17.46	11/16	0.6874	62.0	123.0
2.30		0.0905	13.0	40.0	5.60		0.2204	28.0	66.0	9.50		0.3740	40.0	84.0	17.50		0.6889	62.0	123.0
2.38	3/32	0.0937	14.0	43.0	5.70		0.2244	28.0	66.0	9.53	3/8	0.3751	43.0	89.0	18.00		0.7086	62.0	123.0
2.40		0.0944	14.0	43.0	5.80		0.2283	28.0	66.0	9.60		0.3779	43.0	89.0	18.50		0.7283	64.0	127.0
2.50		0.0984	14.0	43.0	5.90		0.2322	28.0	66.0	9.70		0.3818	43.0	89.0	19.00		0.7480	64.0	127.0
2.60		0.1023	14.0	43.0	5.95	15/64	0.2342	28.0	66.0	9.80		0.3858	43.0	89.0	19.05	3/4	0.7500	66.0	131.0
2.65		0.1043	14.0	43.0	6.00		0.2362	28.0	66.0	9.90		0.3897	43.0	89.0	19.50		0.7677	66.0	131.0
2.70		0.1062	16.0	46.0	6.10		0.2401	31.0	70.0	10.00		0.3937	43.0	89.0	20.00		0.7874	66.0	131.0
2.78	7/64	0.1094	16.0	46.0	6.20		0.2440	31.0	70.0	10.10		0.3976	43.0	89.0	20.50		0.8070	68.0	136.0
2.80		0.1102	16.0	46.0	6.30		0.2480	31.0	70.0	10.20		0.4015	43.0	89.0	20.64	13/16	0.8125	68.0	136.0
2.90		0.1141	16.0	46.0	6.35	1/4	0.2500	31.0	70.0	10.30		0.4055	43.0	89.0	21.00		0.8267	68.0	136.0
3.00		0.1181	16.0	46.0	6.40		0.2519	31.0	70.0	10.32	13/32	0.4062	43.0	89.0	22.00		0.8661	70.0	141.0
3.10		0.1220	18.0	49.0	6.50		0.2559	31.0	70.0	10.40		0.4094	43.0	89.0	22.23	7/8	0.8751	70.0	141.0
3.18	1/8	0.1251	18.0	49.0	6.60		0.2598	31.0	70.0	10.50		0.4133	43.0	89.0	23.00		0.9055	72.0	146.0
3.20		0.1259	18.0	49.0	6.70		0.2637	31.0	70.0	10.60		0.4173	43.0	89.0	23.81	15/16	0.9374	75.0	151.0
3.25		0.1279	18.0	49.0	6.80		0.2677	34.0	74.0	10.70		0.4212	47.0	95.0	24.00		0.9448	75.0	151.0
3.30		0.1299	18.0	49.0	6.90		0.2716	34.0	74.0	10.80		0.4251	47.0	95.0	25.00		0.9842	75.0	151.0
3.40		0.1338	20.0	52.0	7.00		0.2755	34.0	74.0	10.90		0.4291	47.0	95.0	25.40	1"	1.0000	78.0	156.0
3.50		0.1377	20.0	52.0	7.10		0.2795	34.0	74.0	11.00		0.4330	47.0	95.0	26.99	1 1/16	1.0625	81.0	162.0
3.57	9/64	0.1405	20.0	52.0	7.14	9/32	0.2811	34.0	74.0	11.10		0.4370	47.0	95.0	28.58	1 1/8	1.1251	84.0	168.0
3.60		0.1417	20.0	52.0	7.20		0.2834	34.0	74.0	11.11	7/16	0.4374	47.0	95.0	30.16	1 3/16	1.1874	87.0	174.0
3.70		0.1456	20.0	52.0	7.30		0.2874	34.0	74.0	11.20		0.4409	47.0	95.0	31.75	1 1/4	1.2500	90.0	180.0

FREE



**Metric/Inch
Conversion
Wall Chart
(A2 Size)**

**AVAILABLE
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Contact your local
branch or representative.



FREE



**Tapping Drill
Wall Chart
(A2 Size)**

**AVAILABLE
ON REQUEST**

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Contact your local
branch or representative.



General purpose drills for use on automatics and turret lathes. Suitable for drilling steels, cast iron, alloy steel and malleable cast iron. Point angle: 118°, helix angle: normal, web thickness: standard, relief angle: 10° - 20°, tolerance of diameter: h8, tolerance of shank: f11.

Manufactured to **BS 328: Part 1: 1986/DIN 1897**.



For Dimensions

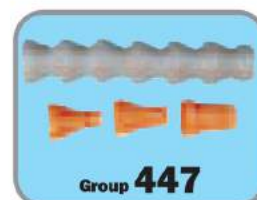
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PRICED PER 10	
Series S100 - Metric	
Dia. (mm)	Order Code SHR-025
1.00	-1227H
1.50	-1233P
2.00	-1240X
2.20	-1243A
2.50	-1248F
2.60	-1250H
2.70	-1252K
2.80	-1253L
3.00	-1257Q
3.10	-1258R
3.20	-1259S
3.30	-1260T
3.40	-1261V
3.50	-1262W
3.60	-1263X
4.00	-1267B
4.10	-1268C
4.20	-1269D
4.30	-1270E
4.40	-1271F
4.50	-1272G
4.80	-1275K
4.90	-1276L

PRICED PER 10	
Series S100 - Metric	
Dia. (mm)	Order Code SHR-025
5.00	-1277M
5.10	-1278N
5.20	-1279P
5.30	-1280Q
5.50	-1282S
5.90	-1286X
6.00	-1287Y
6.10	-1288N
6.20	-1289A
6.30	-1290B
6.40	-1291C
6.50	-1292D
6.60	-1293E
6.70	-1294F
6.80	-1295G
6.90	-1296H
7.00	-1297J
7.10	-1298K
7.20	-1299L
7.30	-1300M
7.40	-1301N
7.50	-1302P
7.80	-1305S

PRICED PER 10	
Series S100 - Metric	
Dia. (mm)	Order Code SHR-025
8.00	-1307V
8.10	-1308W
8.20	-1309X
8.40	-1311N
8.50	-1312A
8.60	-1313B
8.80	-1315D
9.00	-1317F
9.10	-1318G
9.20	-1319H
9.40	-1321K
9.50	-1322L
9.60	-1323M
9.70	-1324N
10.00	-1327R
10.20	-1329T
10.30	-1330V
10.50	-1332X
11.00	-1337C
11.50	-1342H
12.00	-1347N
12.50	-1352T
13.00	-1357N

PRICED PER 1	
Series S100 - Metric	
Dia. (mm)	Order Code SHR-025
13.50	-1359B
14.00	-1361D
14.50	-1362E
14.80	-1362R
15.00	-1363F
15.50	-1364G
16.00	-1365H
16.50	-1366J
17.00	-1367K
17.50	-1368L
18.00	-1369M
20.00	-1373R



Group 447



For Dimensions

See Page 30

PRICED PER 10	
Series S100 - Inch	
Dia. (inch)	Order Code SHR-025
1/16"	-1194C
3/32"	-1194E
1/8"	-1194G
9/64"	-1194H
5/32"	-1194J
11/64"	-1194K

PRICED PER 10	
Series S100 - Inch	
Dia. (inch)	Order Code SHR-025
3/16"	-1194L
13/64"	-1194M
7/32"	-1194N
1/4"	-1194Q
17/64"	-1194R
5/16"	-1194V

PRICED PER 10	
Series S100 - Inch	
Dia. (inch)	Order Code SHR-025
11/32"	-1194X
3/8"	-1194Z
7/16"	-1195D
1/2"	-1195H

PRICED PER 1	
Series S100 - Inch	
Dia. (inch)	Order Code SHR-025
9/16"	-1195M
5/8"	-1195R
3/4"	-1196A

HSS General Purpose Stub Drills - Bright Finish

General purpose drills for use on automatics and turret lathes. Suitable for drilling steels, cast iron, alloy steel and malleable cast iron. Point angle: 118°, helix angle: normal, web thickness: standard, relief angle: 10° - 20°, tolerance of diameter: h8, tolerance of shank: f11.

Manufactured to **BS 328: Part 1: 1986/DIN 1897**.



For Dimensions

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PRICED PER 10	
Metric	
Dia. (mm)	Order Code SHR-025
2.00	-1170D
2.50	-1170L
3.00	-1170R
3.20	-1170T

PRICED PER 10	
Metric	
Dia. (mm)	Order Code SHR-025
3.30	-1170W
3.50	-1170Z
4.00	-1171E
4.20	-1171H

PRICED PER 10	
Metric	
Dia. (mm)	Order Code SHR-025
5.00	-1171V
6.00	-1172K
8.00	-1173Z
10.00	-1175K

PRICED PER 10	
Metric	
Dia. (mm)	Order Code SHR-025
12.00	-1177M

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

General purpose drill for use on automatics and turret lathes. Suitable for drilling steels, cast iron, alloy steel and malleable cast iron. TiN coating provides longer tool life or increased cutting speeds. Point angle: 135°, helix angle: normal, web thickness: normal, tolerance of diameter: h8, tolerance of shank: f11.

Manufactured to BS 328, DIN 1897 RN.



DIN 1412C 135°

Series 2001 Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
2.50	-2025A	4.20	-2042A	6.80	-2068A	12.00	-2120A
3.00	-2030A	5.00	-2050A	8.00	-2080A	13.00	-2130A
3.20	-2032A	5.20	-2052A	8.50	-2085A		
4.00	-2040A	6.50	-2065A	9.00	-2090A		

HSS-Co Heavy Duty Cobalt Stub Drills

Heavy duty drill made of cobalt material with excellent heat resistance. For drilling steels up to 1,400N/mm², stainless steel, heat resistant steels and bronze. Ideally suited for volume production on automatics. Point angle: 135°, helix angle: normal, web thickness: strengthened, tolerance of diameter: h8, tolerance of shank: f11.

Manufactured to BS 328, DIN 1897RN. Point to DIN 1412C.



DIN 1412C 135°

Series 2010 Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.00	-2210A	2.50	-2225A	4.20	-2242A	7.00	-2270A
1.20	-2212A	2.60	-2226A	4.50	-2245A	8.00	-2280A
1.30	-2213A	2.70	-2227A	4.70	-2247A	8.50	-2285A
1.50	-2215A	2.80	-2228A	5.00	-2250A	9.00	-2290A
1.60	-2216A	3.00	-2230A	5.20	-2252A	9.50	-2295A
1.70	-2217A	3.10	-2231A	5.50	-2255A	10.00	-2300A
1.80	-2218A	3.20	-2232A	6.00	-2260A	10.20	-2302A
1.90	-2219A	3.30	-2233A	6.20	-2262A	10.50	-2305A
2.10	-2221A	3.50	-2235A	6.40	-2264A	11.00	-2310A
2.30	-2223A	3.70	-2237A	6.50	-2265A	12.00	-2320A
2.40	-2224A	4.00	-2240A	6.80	-2268A	13.00	-2330A

HSS-Co TiN Coated Heavy Duty Stub Drills

Heavy duty drill made of cobalt material with excellent heat resistance. For drilling steels up to 1,400N/mm², stainless steel, heat resistant steels and bronze. Ideally suited for volume production on automatics. TiN coating provides longer tool life or increased cutting speeds.

Point angle: 135°, helix angle: normal, web thickness: strengthened, tolerance of diameter: h8, tolerance of shank: f11.

Manufactured to BS 328, DIN 1897RN. Point to DIN 1412C.



DIN 1412C 135°

Series 2020 Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.50	-2415A	3.20	-2432A	5.10	-2451A	8.50	-2485A
1.60	-2416A	3.30	-2433A	5.50	-2455A	10.00	-2500A
2.00	-2420A	3.50	-2435A	6.00	-2460A	10.20	-2502A
2.20	-2422A	4.00	-2440A	6.20	-2462A	11.00	-2510A
2.40	-2424A	4.10	-2441A	6.50	-2465A	12.00	-2520A
2.50	-2425A	4.20	-2442A	6.80	-2468A	13.00	-2530A
2.60	-2426A	4.50	-2445A	7.00	-2470A		
3.00	-2430A	5.00	-2450A	8.00	-2480A		

**KENNEDY**
QUALITY INDUSTRIAL TOOLS**Solid Carbide
Stub Drills**

For drilling into steel, cast steel, cast iron, chilled cast iron, malleable cast iron, non-ferrous materials and abrasive plastic.
Point angle: 118°, helix angle: 30°, tolerance of diameter: h7, tolerance of shank: h6.
Manufactured to **DIN 6539**.

STUB DRILLS**GROUP
025****CARBIDE****Metric**

Dia. (mm)	Flute Length	Overall Length	Order Code KEN-158
1.00	6.0	26.0	-3100K
1.20	8.0	30.0	-3120K
1.30	8.0	30.0	-3130K
1.50	9.0	32.0	-3150K
1.60	10.0	34.0	-3160K
1.70	10.0	34.0	-3170K
1.80	11.0	36.0	-3180K
2.00	12.0	38.0	-3200K
2.20	13.0	40.0	-3220K
2.40	14.0	43.0	-3240K
2.50	14.0	43.0	-3250K
2.60	14.0	43.0	-3260K
2.70	16.0	46.0	-3270K

Dia. (mm)	Flute Length	Overall Length	Order Code KEN-158
2.80	16.0	46.0	-3280K
2.90	16.0	46.0	-3290K
3.00	16.0	46.0	-3300K
3.10	18.0	49.0	-3310K
3.20	18.0	49.0	-3320K
3.30	18.0	49.0	-3330K
3.50	20.0	52.0	-3350K
3.60	20.0	52.0	-3360K
3.70	20.0	52.0	-3370K
3.80	22.0	55.0	-3380K
3.90	22.0	55.0	-3390K
4.00	22.0	55.0	-3400K
4.10	22.0	55.0	-3410K

Dia. (mm)	Flute Length	Overall Length	Order Code KEN-158
4.20	22.0	55.0	-3420K
4.40	24.0	58.0	-3440K
4.50	24.0	58.0	-3450K
5.00	26.0	62.0	-3500K
5.10	26.0	62.0	-3510K
5.20	26.0	62.0	-3520K
5.50	28.0	66.0	-3550K
6.00	28.0	66.0	-3600K
7.00	34.0	74.0	-3700K
8.00	37.0	79.0	-3800K
8.50	37.0	79.0	-3850K
9.00	40.0	84.0	-3900K
10.00	43.0	89.0	-4100K

SHERWOOD
QUALITY CUTTING TOOLS**Solid Carbide
Stub Drills**

For drilling into steel, cast steel, cast iron, chilled cast iron, malleable cast iron, non-ferrous materials and abrasive plastic.
Point angle: 118°, helix angle: 30°, tolerance of diameter: h7, tolerance of shank: h6.
Manufactured to **Works Standard**.

**CARBIDE****Metric**

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-158
1.0	11.0	30.0	-3100K
1.1	11.0	30.0	-3110K
1.2	13.0	30.0	-3120K
1.3	13.0	30.0	-3130K
1.4	13.0	30.0	-3140K
1.5	13.0	30.0	-3150K
1.6	17.5	40.0	-3160K
1.7	17.5	40.0	-3170K
1.8	17.5	40.0	-3180K
1.9	17.5	40.0	-3190K
2.0	17.5	40.0	-3200K
2.1	17.5	40.0	-3210K
2.2	17.5	40.0	-3220K
2.3	17.5	40.0	-3230K
2.4	17.5	40.0	-3240K
2.5	17.5	40.0	-3250K
2.6	20.0	45.0	-3260K
2.7	20.0	45.0	-3270K
2.8	20.0	45.0	-3280K
2.9	20.0	45.0	-3290K
3.0	20.0	45.0	-3300K
3.1	22.0	50.0	-3310K
3.2	22.0	50.0	-3320K
3.3	22.0	50.0	-3330K
3.4	22.0	50.0	-3340K
3.5	22.0	50.0	-3350K

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-158
3.6	22.0	50.0	-3360K
3.7	22.0	50.0	-3370K
3.8	22.0	50.0	-3380K
3.9	22.0	50.0	-3390K
4.0	22.0	50.0	-3400K
4.1	25.0	50.0	-3410K
4.2	25.0	50.0	-3420K
4.3	25.0	50.0	-3430K
4.4	25.0	50.0	-3440K
4.5	25.0	50.0	-3450K
4.6	25.0	50.0	-3460K
4.7	25.0	50.0	-3470K
4.8	25.0	50.0	-3480K
4.9	25.0	50.0	-3490K
5.0	25.0	50.0	-3500K
5.1	25.0	50.0	-3510K
5.2	25.0	50.0	-3520K
5.3	25.0	50.0	-3530K
5.4	25.0	50.0	-3540K
5.5	25.0	50.0	-3550K
5.6	25.0	50.0	-3560K
5.7	25.0	50.0	-3570K
5.8	25.0	50.0	-3580K
5.9	25.0	50.0	-3590K
6.0	25.0	50.0	-3600K
6.1	30.0	65.0	-3610K

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-158
6.2	30.0	65.0	-3620K
6.3	30.0	65.0	-3630K
6.5	30.0	65.0	-3650K
6.8	30.0	65.0	-3680K
7.0	30.0	65.0	-3700K
7.5	34.0	70.0	-3750K
8.0	34.0	70.0	-3800K
8.1	34.0	70.0	-3810K
8.2	34.0	70.0	-3820K
8.5	34.0	70.0	-3850K
8.7	34.0	75.0	-3870K
9.0	34.0	75.0	-3900K
9.2	34.0	75.0	-3920K
9.5	34.0	75.0	-3950K
10.0	34.0	75.0	-4100K
10.2	50.0	100.0	-4102K
10.5	50.0	100.0	-4105K
11.0	50.0	100.0	-4110K
12.0	50.0	100.0	-4120K
13.0	60.0	107.0	-4130K
14.0	60.0	107.0	-4140K
15.0	65.0	115.0	-4150K
16.0	65.0	115.0	-4160K
17.0	73.0	123.0	-4170K
18.0	73.0	123.0	-4180K
20.0	79.0	131.0	-4200K

Solid Carbide Screw Drills

Primarily designed for removing broken taps or bolts without damaging the component surface. By drilling the core of a tap it is possible to remove the remaining pieces with a scriber. Screw drills are also suitable for drilling other hard materials including: hardened steels, glass, stellite etc. Select screw drill as per tap diameter. Steady manual feed component and spindle stability are vital. Drills should be running between 1500 and 3500 revs/min. A steady and continuous manual feed should be applied. No cutting fluid required.

**CARBIDE**

*or inch equivalent

Type	Size	Weight each	Order Code KEN-154
SD2	2mm for M3*	10g	-1020K
SD3	3mm for M4 - M5*	10g	-1030K
SD4	4mm for M6 - M7*	20g	-1040K
SD5	5mm for M8 - M10*	30g	-1050K
SD6	6mm for M10 - M12*	30g	-1060K

Solid Carbide Screw Drill Set

Contents:
SD2, SD3, SD4, SD5
and SD6.

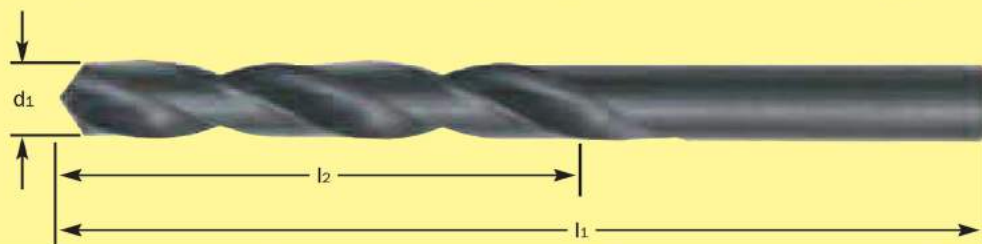
**5
PIECES**Weight
per set
80gOrder Code
KEN-154
-1100K**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

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Dimensions - Jobber Drills to BS 328/DIN 338

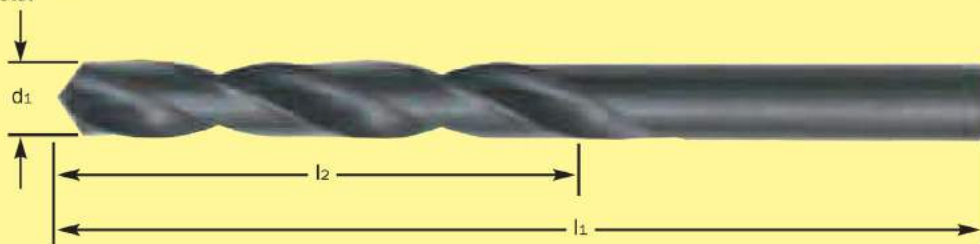
The majority of jobber drills featured in this catalogue comply with the above standards in terms of overall and working dimensions. The tables of sizes below apply to all of these products. In order to save space in the catalogue we are not repeating these dimensions after this page. Any drills which are made to different standards/dimensions will have them listed accordingly in the tables for those products.



d ₁ mm	No/ h ₈	Inch Dec.	l ₂ mm	l ₁ mm	d ₁ mm	No/ h ₈	Inch Dec.	l ₂ mm	l ₁ mm	d ₁ mm	No/ h ₈	Inch Dec.	l ₂ mm	l ₁ mm	d ₁ mm	No/ h ₈	Inch Dec.	l ₂ mm	l ₁ mm
0.20		0.0078	2.5	19.0	0.94	63	0.0370	11.0	32.0	2.15		0.0846	27.0	53.0	3.66	27	0.1440	39.0	70.0
0.25		0.0098	3.0	19.0	0.95		0.0374	11.0	32.0	2.18	44	0.0858	27.0	53.0	3.70		0.1456	39.0	70.0
0.30		0.0118	3.0	19.0	0.97	62	0.0381	12.0	34.0	2.20		0.0866	27.0	53.0	3.73	26	0.1468	39.0	70.0
0.32		0.0125	4.0	19.0	0.98		0.0385	12.0	34.0	2.25		0.0885	27.0	53.0	3.75		0.1476	39.0	70.0
0.34	80	0.0133	4.0	19.0	0.99	61	0.0389	12.0	34.0	2.26	43	0.0889	27.0	53.0	3.80		0.1496	43.0	75.0
0.35		0.0137	4.0	19.0	1.00		0.0393	12.0	34.0	2.30		0.0905	27.0	53.0	3.80	25	0.1496	43.0	75.0
0.37	79	0.0145	4.0	19.0	1.02	60	0.0401	12.0	34.0	2.35		0.0925	27.0	53.0	3.86	24	0.1519	43.0	75.0
0.38		0.0149	4.0	19.0	1.04	59	0.0409	12.0	34.0	2.38	3/32	0.0937	30.0	57.0	3.90		0.1535	43.0	75.0
0.40	1/64	0.0157	5.0	20.0	1.05		0.0413	12.0	34.0	2.38	42	0.0937	30.0	57.0	3.91	23	0.1539	43.0	75.0
0.40		0.0157	5.0	20.0	1.07	58	0.0421	14.0	36.0	2.40		0.0944	30.0	57.0	3.97	5/32	0.1562	43.0	75.0
0.41	78	0.0161	5.0	20.0	1.09	57	0.0429	14.0	36.0	2.44	41	0.0960	30.0	57.0	3.99	22	0.157	43.0	75.0
0.42		0.0165	5.0	20.0	1.10		0.0433	14.0	36.0	2.45		0.0964	30.0	57.0	4.00		0.1574	43.0	75.0
0.45		0.0177	5.0	20.0	1.15		0.0452	14.0	36.0	2.49	40	0.098	30.0	57.0	4.04	21	0.1590	43.0	75.0
0.46	77	0.0181	5.0	20.0	1.18	56	0.0464	14.0	36.0	2.50		0.0984	30.0	57.0	4.09	20	0.1610	43.0	75.0
0.48		0.0188	5.0	20.0	1.19	3/64	0.0468	16.0	38.0	2.53	39	0.0996	30.0	57.0	4.10		0.1614	43.0	75.0
0.50		0.0196	6.0	22.0	1.20		0.0472	16.0	38.0	2.55		0.1003	30.0	57.0	4.20		0.1653	43.0	75.0
0.51	76	0.0200	6.0	22.0	1.25		0.0492	16.0	38.0	2.58	38	0.1015	30.0	57.0	4.22	19	0.1661	43.0	75.0
0.52		0.0204	6.0	22.0	1.30		0.0511	16.0	38.0	2.60		0.1023	30.0	57.0	4.25		0.1673	43.0	75.0
0.53	75	0.0208	6.0	22.0	1.32	55	0.0519	16.0	38.0	2.64	37	0.1039	30.0	57.0	4.30		0.1692	47.0	80.0
0.55		0.0216	7.0	24.0	1.35		0.0531	18.0	40.0	2.65		0.1043	30.0	57.0	4.31	18	0.1696	47.0	80.0
0.57	74	0.0224	7.0	24.0	1.40		0.0551	18.0	40.0	2.70		0.1062	33.0	61.0	4.37	11/64	0.172	47.0	80.0
0.58		0.0228	7.0	24.0	1.40	54	0.0551	18.0	40.0	2.71	36	0.1066	33.0	61.0	4.39	17	0.1728	47.0	80.0
0.60		0.0236	7.0	24.0	1.45		0.0570	18.0	40.0	2.75		0.1082	33.0	61.0	4.40		0.1732	47.0	80.0
0.61	73	0.0240	8.0	26.0	1.50		0.0590	18.0	40.0	2.78	7/64	0.1094	33.0	61.0	4.50		0.1771	47.0	80.0
0.62		0.0244	8.0	26.0	1.51	53	0.0594	20.0	43.0	2.79	35	0.1098	33.0	61.0	4.50	16	0.1771	47.0	80.0
0.64	72	0.0251	8.0	26.0	1.55		0.0610	20.0	43.0	2.80		0.1102	33.0	61.0	4.57	15	0.1799	47.0	80.0
0.65		0.0255	8.0	26.0	1.59	1/16	0.0625	20.0	43.0	2.82	34	0.1110	33.0	61.0	4.60		0.1811	47.0	80.0
0.66	71	0.0259	8.0	26.0	1.60		0.0629	20.0	43.0	2.85		0.1122	33.0	61.0	4.62	14	0.1818	47.0	80.0
0.68		0.0267	9.0	28.0	1.61	52	0.0633	20.0	43.0	2.87	33	0.1129	33.0	61.0	4.70		0.1850	47.0	80.0
0.70		0.0275	9.0	28.0	1.65		0.0649	20.0	43.0	2.90		0.1141	33.0	61.0	4.70	13	0.1850	47.0	80.0
0.71	70	0.0279	9.0	28.0	1.70		0.0669	20.0	43.0	2.95		0.1161	33.0	61.0	4.75		0.1870	47.0	80.0
0.72		0.0283	9.0	28.0	1.70	51	0.0669	22.0	46.0	2.95	32	0.1161	33.0	61.0	4.76	3/16	0.1874	52.0	86.0
0.74	69	0.0291	9.0	28.0	1.75		0.0688	22.0	46.0	3.00		0.1181	33.0	61.0	4.80		0.1889	52.0	86.0
0.75		0.0295	9.0	28.0	1.78	50	0.0700	22.0	46.0	3.05	31	0.1200	36.0	65.0	4.80	12	0.1889	52.0	86.0
0.78		0.0307	10.0	30.0	1.80		0.0708	22.0	46.0	3.10		0.1220	36.0	65.0	4.85	11	0.1909	52.0	86.0
0.79	1/32	0.0311	10.0	30.0	1.85		0.0728	22.0	46.0	3.15		0.1240	36.0	65.0	4.90		0.1929	52.0	86.0
0.79	68	0.0311	10.0	30.0	1.85	49	0.0728	22.0	46.0	3.18	1/8	0.1251	36.0	65.0	4.92	10	0.1937	52.0	86.0
0.80		0.0314	10.0	30.0	1.90		0.0748	22.0	46.0	3.20		0.1259	36.0	65.0	4.98	9	0.1960	52.0	86.0
0.81	67	0.0318	10.0	30.0	1.93	48	0.0759	24.0	49.0	3.25		0.1279	36.0	65.0	5.00		0.1968	52.0	86.0
0.82		0.0322	10.0	30.0	1.95		0.0767	24.0	49.0	3.26	30	0.1283	36.0	65.0	5.06	8	0.1992	52.0	86.0
0.84	66	0.0330	10.0	30.0	1.98	5/64	0.0779	24.0	49.0	3.30		0.1299	36.0	65.0	5.10		0.2007	52.0	86.0
0.85		0.0334	10.0	30.0	1.99	47	0.0783	24.0	49.0	3.40		0.1338	39.0	70.0	5.11	7	0.2011	52.0	86.0
0.88		0.0346	11.0	32.0	2.00		0.0787	24.0	49.0	3.45	29	0.1358	39.0	70.0	5.16	13/64	0.2031	52.0	86.0
0.89	65	0.0350	11.0	32.0	2.05		0.0807	24.0	49.0	3.50		0.1377	39.0	70.0	5.18	6	0.2039	52.0	86.0
0.90		0.0354	11.0	32.0	2.06	46	0.0811	24.0	49.0	3.57	9/64	0.1405	39.0	70.0	5.20		0.2047	52.0	86.0
0.91	64	0.0358	11.0	32.0	2.08	45	0.0818	24.0	49.0	3.57	28	0.1405	39.0	70.0	5.22	5	0.2055	52.0	86.0
0.92		0.0362	11.0	32.0	2.10		0.0826	24.0	49.0	3.60		0.1417	39.0	70.0	5.25		0.2066	52.0	86.0

Dimensions - Jobber Drills to BS 328 / DIN 338

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d1 mm	No/ h8	Inch Letter	Dec.	l2 mm	l1 mm	d1 mm	No/ h8	Inch Letter	Dec.	l2 mm	l1 mm	d1 mm	No/ h8	Inch Letter	Dec.	l2 mm	l1 mm	d1 mm	No/ h8	Inch Letter	Dec.	l2 mm	l1 mm
5.30			0.2086	52.0	86.0	7.49	M		0.2948	69.0	109.0	9.92	²⁵ / ₆₄		0.3905	87.0	133.0	13.00			0.5118	101.0	151.0
5.31	4		0.2090	57.0	93.0	7.50			0.2952	69.0	109.0	10.00			0.3937	87.0	133.0	13.10	³³ / ₆₄		0.5157	101.0	151.0
5.40			0.2125	57.0	93.0	7.54	¹⁹ / ₆₄		0.2968	75.0	117.0	10.08	X		0.3968	87.0	133.0	13.10			0.5157	101.0	151.0
5.41	3		0.2129	57.0	93.0	7.60			0.2992	75.0	117.0	10.10			0.3976	87.0	133.0	13.20			0.5196	101.0	151.0
5.50			0.2165	57.0	93.0	7.67	N		0.3019	75.0	117.0	10.20			0.4015	87.0	133.0	13.25			0.5216	108.0	160.0
5.56	⁷ / ₃₂		0.2188	57.0	93.0	7.70			0.3031	75.0	117.0	10.25			0.4035	87.0	133.0	13.30			0.5236	108.0	160.0
5.60			0.2204	57.0	93.0	7.75			0.3051	75.0	117.0	10.26	Y		0.4039	87.0	133.0	13.40			0.5275	108.0	160.0
5.61	2		0.2208	57.0	93.0	7.80			0.3070	75.0	117.0	10.30			0.4055	87.0	133.0	13.49	¹⁷ / ₃₂		0.5311	108.0	160.0
5.70			0.2244	57.0	93.0	7.90			0.3110	75.0	117.0	10.32	¹³ / ₃₂		0.4062	87.0	133.0	13.50			0.5314	108.0	160.0
5.75			0.2263	57.0	93.0	7.94	⁵ / ₁₆		0.3125	75.0	117.0	10.40			0.4094	87.0	133.0	13.60			0.5354	108.0	160.0
5.79	1		0.2279	57.0	93.0	8.00			0.3149	75.0	117.0	10.49	Z		0.4129	87.0	133.0	13.70			0.5393	108.0	160.0
5.80			0.2283	57.0	93.0	8.03	O		0.3161	75.0	117.0	10.50			0.4133	87.0	133.0	13.75			0.5413	108.0	160.0
5.90			0.2322	57.0	93.0	8.10			0.3188	75.0	117.0	10.60			0.4173	87.0	133.0	13.80			0.5433	108.0	160.0
5.94	A		0.2338	57.0	93.0	8.20			0.3228	75.0	117.0	10.70			0.4212	94.0	142.0	13.89	³⁵ / ₆₄		0.5468	108.0	160.0
5.95	¹⁵ / ₆₄		0.2342	57.0	93.0	8.20	P		0.3228	75.0	117.0	10.72	²⁷ / ₆₄		0.4220	94.0	142.0	13.90			0.5472	108.0	160.0
6.00			0.2362	57.0	93.0	8.25			0.3248	75.0	117.0	10.75			0.4232	94.0	142.0	14.00			0.5511	108.0	160.0
6.00	B		0.2374	63.0	101.0	8.30			0.3267	75.0	117.0	10.80			0.4251	94.0	142.0	14.25			0.5610	114.0	169.0
6.10			0.2401	63.0	101.0	8.33	²¹ / ₆₄		0.3279	75.0	117.0	10.90			0.4291	94.0	142.0	14.29	⁹ / ₁₆		0.5625	114.0	169.0
6.15	C		0.2421	63.0	101.0	8.40			0.3307	75.0	117.0	11.00			0.4330	94.0	142.0	14.50			0.5708	114.0	169.0
6.20			0.2440	63.0	101.0	8.43	Q		0.3318	75.0	117.0	11.10			0.4370	94.0	142.0	14.68	³⁷ / ₆₄		0.5779	114.0	169.0
6.25			0.2460	63.0	101.0	8.50			0.3346	75.0	117.0	11.11	⁷ / ₁₆		0.4374	94.0	142.0	14.75			0.5807	114.0	169.0
6.25	D		0.2460	63.0	101.0	8.60			0.3385	81.0	125.0	11.20			0.4409	94.0	142.0	15.00			0.5905	114.0	169.0
6.30			0.2480	63.0	101.0	8.61	R		0.3389	81.0	125.0	11.25			0.4429	94.0	142.0	15.08	¹⁹ / ₃₂		0.5937	120.0	178.0
6.35	¹ / ₄		0.2500	63.0	101.0	8.70			0.3425	81.0	125.0	11.30			0.4448	94.0	142.0	15.25			0.6003	120.0	178.0
6.35	E		0.2500	63.0	101.0	8.73	¹¹ / ₃₂		0.3437	81.0	125.0	11.40			0.4488	94.0	142.0	15.48	³⁹ / ₆₄		0.6094	120.0	178.0
6.40			0.2519	63.0	101.0	8.75			0.3444	81.0	125.0	11.50			0.4527	94.0	142.0	15.50			0.6102	120.0	178.0
6.50			0.2559	63.0	101.0	8.80			0.3464	81.0	125.0	11.51	²⁹ / ₆₄		0.4531	94.0	142.0	15.75			0.6200	120.0	178.0
6.53	F		0.2570	63.0	101.0	8.84	S		0.3480	81.0	125.0	11.60			0.4566	94.0	142.0	15.88	⁵ / ₈		0.6251	120.0	178.0
6.60			0.2598	63.0	101.0	8.90			0.3503	81.0	125.0	11.70			0.4606	94.0	142.0	16.00			0.6299	120.0	178.0
6.63	G		0.2610	63.0	101.0	9.00			0.3543	81.0	125.0	11.75			0.4625	94.0	142.0	16.27	⁴¹ / ₆₄		0.6405	125.0	184.0
6.70			0.2637	63.0	101.0	9.09	T		0.3578	81.0	125.0	11.80			0.4645	94.0	142.0	16.50			0.6496	125.0	184.0
6.75	¹⁷ / ₆₄		0.2657	69.0	109.0	9.10			0.3582	81.0	125.0	11.90			0.4685	101.0	151.0	16.67	²¹ / ₃₂		0.6562	125.0	184.0
6.75			0.2657	69.0	109.0	9.13	²³ / ₆₄		0.3594	81.0	125.0	11.91	¹⁵ / ₃₂		0.4688	101.0	151.0	17.00			0.6692	125.0	184.0
6.76	H		0.2661	69.0	109.0	9.20			0.3622	81.0	125.0	12.00			0.4724	101.0	151.0	17.07	⁴³ / ₆₄		0.6720	130.0	191.0
6.80			0.2677	69.0	109.0	9.25			0.3641	81.0	125.0	12.10			0.4763	101.0	151.0	17.46	¹¹ / ₁₆		0.6874	130.0	191.0
6.90			0.2716	69.0	109.0	9.30			0.3661	81.0	125.0	12.20			0.4803	101.0	151.0	17.50			0.6889	130.0	191.0
6.91	I		0.2720	69.0	109.0	9.35	U		0.3681	81.0	125.0	12.25			0.4822	101.0	151.0	18.00			0.7086	130.0	191.0
7.00			0.2755	69.0	109.0	9.40			0.3700	81.0	125.0	12.30			0.4842	101.0	151.0	18.5			0.7283	135.0	198.0
7.04	J		0.2771	69.0	109.0	9.50			0.3740	81.0	125.0	12.30	³¹ / ₆₄		0.4842	101.0	151.0	19.00			0.7480	135.0	198.0
7.10			0.2795	69.0	109.0	9.53	³ / ₈		0.3751	87.0	133.0	12.40			0.4881	101.0	151.0	19.50			0.7677	140.0	205.0
7.14	⁹ / ₃₂		0.2811	69.0	109.0	9.58	V		0.3771	87.0	133.0	12.50			0.4921	101.0	151.0	20.00			0.7874	140.0	205.0
7.14	K		0.2811	69.0	109.0	9.60			0.3779	87.0	133.0	12.60			0.4960	101.0	151.0						
7.20			0.2834	69.0	109.0	9.70			0.3818	87.0	133.0	12.70			0.5000	101.0	151.0						
7.25			0.2854	69.0	109.0	9.75			0.3838	87.0	133.0	12.70	¹ / ₂		0.5000	101.0	151.0						
7.30			0.2874	69.0	109.0	9.80			0.3858	87.0	133.0	12.75			0.5019	101.0	151.0						
7.37	L		0.2901	69.0	109.0	9.80	W		0.3858	87.0	133.0	12.80			0.5039	101.0	151.0						
7.40			0.2913	69.0	109.0	9.90			0.3897	87.0	133.0	12.90			0.5078	101.0	151.0						

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



HSS

Senator jobber drills are roll forged from HSS, ensuring uninterrupted grain structure. This provides exceptional strength and durability. Tips are ground for effective cutting. Suitable for drilling wood, plastic, carbon and plain steels where the cutting efficiency of ground flute is not required.

Manufactured to BS 328 : Part 1 : 1986 & DIN 338 Type N.



For Dimensions

See Pages 34 - 35

Metric

PRICED
PER 10PRICED
PER 10PRICED
PER 10

Dia. (mm)	Order Code SEN-025
1.00	-0040N
1.50	-0050N
2.00	-0060K
2.50	-0070W
2.80	-0076C
3.00	-0080G
3.20	-0083K
3.30	-0085M
3.50	-0087P
3.80	-0091T
4.00	-0093W
4.20	-0095Y

Dia. (mm)	Order Code SEN-025
4.50	-0099C
4.80	-0103G
5.00	-0105J
5.20	-0107L
5.50	-0111Q
6.00	-0117X
6.20	-0119N
6.50	-0123D
6.80	-0127H
7.00	-0129K
7.50	-0135R
8.00	-0141Y

Dia. (mm)	Order Code SEN-025
8.50	-0147E
9.00	-0153L
9.50	-0159S
10.00	-0165N
10.20	-0167B
10.50	-0171F
11.00	-0177M
11.50	-0183T
12.00	-0189A
12.50	-0195G
13.00	-0201N
14.00	-0213B

HSS Roll Forged Jobber Drill Sets

Roll forged from HSS, ensuring uninterrupted grain structure. This provides exceptional strength and durability. Tips are ground for effective cutting. Suitable for drilling wood, plastic, carbon and plain steels where the cutting efficiency of ground flute is not required.

Manufactured to BS 328 : Part 1 : 1986 & DIN 338 Type N.

x 0.5mm
1.0 ~ 10.019
PIECES19 Piece Set
Contents (mm):

1.0	3.0	5.0	7.0	9.0
1.5	3.5	5.5	7.5	9.5
2.0	4.0	6.0	8.0	10.0
2.5	4.5	6.5	8.5	

Weight each
0.65kg

Order Code
SEN-025
-9250K

x 0.5mm
1.0 ~ 13.025
PIECES25 Piece Set
Contents (mm):

1.0	3.5	6.0	8.5	11.0
1.5	4.0	6.5	9.0	11.5
2.0	4.5	7.0	9.5	12.0
2.5	5.0	7.5	10.0	12.5
3.0	5.5	8.0	10.5	13.0

Weight each
1.60kg

Order Code
SEN-025
-9150K

x 0.1mm
6.0 ~ 10.041
PIECES41 Piece Set
Contents (mm):

6.0	6.9	7.8	8.7	9.6
6.1	7.0	7.9	8.8	9.7
6.2	7.1	8.0	8.9	9.8
6.3	7.2	8.1	9.0	9.9
6.4	7.3	8.2	9.1	10.0
6.5	7.4	8.3	9.2	
6.6	7.5	8.4	9.3	
6.7	7.6	8.5	9.4	
6.8	7.7	8.6	9.5	

Weight each
2.10kg

Order Code
SEN-025
-9110K

HSS Roll Forged Jobber Drill Sets

Roll forged from HSS, ensuring uninterrupted grain structure. This provides exceptional strength and durability. Tips are ground for effective cutting. Suitable for drilling wood, plastic, carbon and plain steels where the cutting efficiency of ground flute is not required.

Manufactured to BS 328 : Part 1 : 1986 & DIN 338 Type N.

x 0.5mm
1.0 ~ 10.0170
PIECES170 Piece Set
Contents (mm):

1.0 x 10	4.5 x 10	8.0 x 10
1.5 x 10	5.0 x 10	8.5 x 5
2.0 x 10	5.5 x 10	9.0 x 5
2.5 x 10	6.0 x 10	9.5 x 5
3.0 x 10	6.5 x 10	10.0 x 5
3.5 x 10	7.0 x 10	
4.0 x 10	7.5 x 10	

Weight each
3.8kg

Order Code
SEN-025
-9300K

x 0.1mm
1.0 ~ 6.051
PIECES51 Piece Set
Contents (mm):

1.0	1.9	2.8	3.7	4.6	5.5
1.1	2.0	2.9	3.8	4.7	5.6
1.2	2.1	3.0	3.9	4.8	5.7
1.3	2.2	3.1	4.0	4.9	5.8
1.4	2.3	3.2	4.1	5.0	5.9
1.5	2.4	3.3	4.2	5.1	6.0
1.6	2.5	3.4	4.3	5.2	
1.7	2.6	3.5	4.4	5.3	
1.8	2.7	3.6	4.5	5.4	

Weight each
0.60kg

Order Code
SEN-025
-9060K

**SENATOR**
QUALITY TOOLING**HSS Tap & Drill Sets**

Industrial quality. Ground flute, blue finish.
Supplied in indexing metal case.
Manufactured to **BS328 : Part 1 :**
1986, DIN 338N & ANSI B94 -11M.

28 Piece Set Contents (mm):

Taps: (taper, second and bottom):
M3, M4, M5, M6, M8, M10 and M12.

Drills: 2.5, 3.3, 4.2, 5.0,
6.8, 8.5 and 10.2mm.

x 0.7mm
2.5 ~ 10.2

28
PIECES

DIN
338
BS
328

For Dimensions**See Pages 34 - 35**

Order Code
SEN-025
-9960K

HSS**METRIC****STANDARD LENGTH DRILLS****GROUP**
025**Multi-Purpose 'Dial-A-Drill' Set**

Designed to satisfy countless tasks around the home and workshop - a drill bit for every job!. Supplied in a robust 'dial a drill' case for easy selection and compact storage.

Contents:

6 x wood drills with 'lip and spur' self centering/self starting points. Suitable for all types of timber.
Sizes 3, 4, 5, 6, 8 and 10mm.

6 x masonry drills with TCT drill point. Suitable for tiles, ceramics and all light building materials.
Sizes 3, 4, 5, 6, 8 and 10mm.

6 x HSS drills (Jobber) with roll forged flutes. Suitable for use in portable powertools in all types of materials.
Sizes 3, 4, 5, 6, 8 and 10mm.

18
PIECES



Weight
each
452g

Order Code
SEN-025
-9500K

**HSS****SHERWOOD**
QUALITY CUTTING TOOLS**HSS Reduced Shank Drills (Blacksmiths)**

1/2" parallel shank. General purpose drills for light duty work, for drilling steels, cast iron, nickel brass and graphite.
Reduced parallel shank 1/2". Point angle: 118°, helix angle: normal, web thickness: standard, tolerance of diameter: h8, tolerance of shank: 0.01/0.08.
Manufactured to works standard.

Black Oxidised Finish**Metric**

Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025
13.00	78.0	150.0	-1805A
13.50	78.0	150.0	-1805B
14.00	78.0	150.0	-1806C
14.50	78.0	150.0	-1806D
15.00	78.0	150.0	-1807E
15.50	78.0	150.0	-1807F
16.00	78.0	150.0	-1808G
16.50	78.0	150.0	-1808H
17.00	78.0	150.0	-1809J
17.50	78.0	150.0	-1809K
18.00	78.0	150.0	-1810L
18.50	78.0	150.0	-1810M
19.00	78.0	150.0	-1811N
19.50	85.0	150.0	-1811P
20.00	85.0	150.0	-1812Q
21.00	85.0	150.0	-1813R
22.00	85.0	150.0	-1814S
23.00	85.0	150.0	-1815T
24.00	85.0	150.0	-1816V
25.00	85.0	150.0	-1817W
26.00	85.0	150.0	-1818X
27.00	85.0	150.0	-1819Y
28.00	85.0	150.0	-1820Z
29.00	85.0	150.0	-1821A
30.00	85.0	150.0	-1822B
32.00	85.0	150.0	-1824D

**Inch**

Diameter (Inch)	Flute Length	Overall Length	Order Code SHR-025
9/16"	3 1/16"	6"	-1764E
19/32"	3 1/16"	6"	-1766G
5/8"	3 1/16"	6"	-1768J
41/64"	3 1/16"	6"	-1769K
21/32"	3 1/16"	6"	-1770L
11/16"	3 1/16"	6"	-1772N
3/4"	3 1/16"	6"	-1776S
13/16"	3 3/8"	6"	-1780X
7/8"	3 3/8"	6"	-1784B
15/16"	3 3/8"	6"	-1788F
1"	3 3/8"	6"	-1792K
1 1/16"	3 3/8"	6"	-1794M
1 1/8"	3 3/8"	6"	-1796P
1 1/4"	3 3/8"	6"	-1800T

HSS Reduced Shank Drill Set (Blacksmiths)**Contents:**

14, 16, 18, 20 and 22mm.

5
PIECES



Order Code
SHR-025
-8960K

Bright Finish - TiN Tipped**HSS TiN-tip**

Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025
14.00	78.0	150.0	-1736C
15.00	78.0	150.0	-1737E
16.00	78.0	150.0	-1738G

Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025
17.00	78.0	150.0	-1739J
18.00	78.0	150.0	-1740L
19.00	78.0	150.0	-1741P

Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025
20.00	85.0	150.0	-1742Q
22.00	85.0	150.0	-1744S
25.00	85.0	150.0	-1747W

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HSS Jobber Drills Metric - Bright Finish

General purpose drills for steels, cast steel, grey cast iron, malleable cast iron, nickel brass, aluminium alloy and graphite. Point angle: 118°, helix angle: normal, web thickness: standard, relief angle: 10° - 20°, tolerance of diameter: h8, tolerance of shank: f11. Manufactured to **BS 328/DIN338RN**.

Bright Finish

Drills with a bright finish are supplied in the as-ground condition and such tools are used generally in the machining of non-ferrous materials.



HSS

METRIC

INCH



For Dimensions



See Pages 34 - 35

PRICED
PER 10PRICED
PER 10PRICED
PER 10PRICED
PER 10

Series J100 - Metric

Dia. (mm)	Order Code SHR-025
1.00	-0231B
1.10	-0231D
1.20	-0231F
1.30	-0231H
1.40	-0231K
1.50	-0231M
1.60	-0231P
1.70	-0231R
1.80	-0231T
1.90	-0231W
1.95	-0231Y
2.00	-0232A
2.10	-0232C
2.20	-0232E
2.30	-0232G
2.40	-0232J
2.50	-0232L
2.60	-0232N
2.70	-0232Q
2.80	-0232S
2.90	-0232V
3.00	-0232X
3.10	-0232Z
3.20	-0233B
3.30	-0233D
3.40	-0233F
3.50	-0233H
3.60	-0233K
3.70	-0233M
3.80	-0233P
3.90	-0233R
4.00	-0233T
4.10	-0233W
4.20	-0233Y
4.30	-0234A
4.40	-0234C
4.50	-0234E
4.60	-0234G
4.70	-0234J
4.80	-0234L
4.90	-0234N
5.00	-0234Q
5.10	-0234S
5.20	-0234V
5.30	-0234X
5.40	-0234Z
5.50	-0235B
5.60	-0235D
5.70	-0235F

Dia. (mm)	Order Code SHR-025
5.80	-0235H
5.90	-0235K
6.00	-0235M
6.10	-0235P
6.20	-0235R
6.30	-0235T
6.40	-0235W
6.50	-0235Y
6.60	-0236A
6.70	-0236C
6.80	-0236E
6.90	-0236G
7.00	-0236J
7.10	-0236L
7.20	-0236N
7.30	-0236Q
7.40	-0236S
7.50	-0236V
7.60	-0236X
7.70	-0236Z
7.80	-0237B
7.90	-0237D
8.00	-0237F
8.10	-0237H
8.20	-0237K
8.30	-0237M
8.40	-0237P
8.50	-0237R
8.60	-0237T
8.70	-0237W
8.80	-0237Y
8.90	-0237Z
9.00	-0238A
9.10	-0238B
9.20	-0238C
9.30	-0238G
9.40	-0238H
9.50	-0238L
9.60	-0238N
9.70	-0238P
9.80	-0238Q
9.90	-0238R
10.00	-0238X
10.10	-0238Y
10.20	-0239B
10.40	-0239F
10.50	-0239H
10.60	-0239K
10.70	-0239L

Dia. (mm)	Order Code SHR-025
10.80	-0239M
10.90	-0239N
11.00	-0239T
11.10	-0239V
11.30	-0239X
11.20	-0239W
11.40	-0239Y
11.50	-0239Z
11.60	-0240A
11.70	-0240B
11.80	-0240C
11.90	-0240D
12.00	-0240E
12.10	-0240F
12.20	-0240G
12.30	-0240H
12.40	-0240J
12.50	-0240K
12.60	-0240L
12.70	-0240M
12.90	-0240P
13.00	-0240R
13.20	-0240T
13.70	-0240Z
13.80	-0241A
14.00	-0241C
14.25	-0241D
14.50	-0241E
14.75	-0241F
15.00	-0241G
15.25	-0241H
15.50	-0241J
15.75	-0241K
16.00	-0241L
16.50	-0241P
17.00	-0241R
17.50	-0241T
18.00	-0241V
18.50	-0241X
19.00	-0241Z
19.50	-0242B
20.00	-0242D

PRICED
PER 1PRICED
PER 1

Series J100 - Inch

Dia. (inch)	Order Code SHR-025
1/32"	-0243B
1/16"	-0243D
5/64"	-0243E
3/32"	-0243F
7/64"	-0243G
1/8"	-0243H
9/64"	-0243J
5/32"	-0243K
11/64"	-0243L
3/16"	-0243M
13/64"	-0243N
7/32"	-0243P
15/64"	-0243Q
1/4"	-0243R
17/64"	-0243S
9/32"	-0243T
19/64"	-0243V
5/16"	-0243W
21/64"	-0243X
11/32"	-0243Y
23/64"	-0243Z
3/8"	-0244A
25/64"	-0244B
13/32"	-0244C
7/16"	-0244E
15/32"	-0244G
31/64"	-0244H
29/64"	-0244F
1/2"	-0244J
17/32"	-0244L
9/16"	-0244N
19/32"	-0244Q
5/8"	-0244S
11/16"	-0244X
3/4"	-0245B

HSS Jobber Drill Set - Bright Finish

Industrial quality. Ground flute.
Supplied in indexing metal cases.
Manufactured to **BS328 : Part 1 : 1986,**
DIN 338N & ANSI B94 - 11M.

25
PIECESx 0.5mm
1.0 ~ 13.0

(mm)	2.5	4.5	6.5	8.5	10.5	12.5
1.0	3.0	5.0	7.0	9.0	11.0	13.0
1.5	3.5	5.5	7.5	9.5	11.5	
2.0	4.0	6.0	8.0	10.0	12.0	

Order Code
SHR-025
-8520K

HSS

METRIC

Bright
Finish

GROUP
025

DRILL SETS



HSS Jobber Drill Sets

Industrial quality. Ground flute, blue finish. Supplied in indexing metal cases.

Manufactured to **BS328 : Part 1**
DIN 338N & ANSI B94 - 11M.

**25
PIECES**

**DIN
338**

For Dimensions

**BS
328**

See Pages 34 - 35

**BEST
SELLER**

**x 0.5mm
1.0 ~ 13.0**

(mm)	2.5	4.5	6.5	8.5	10.5	12.5
1.0	3.0	5.0	7.0	9.0	11.0	13.0
1.5	3.5	5.5	7.5	9.5	11.5	
2.0	4.0	6.0	8.0	10.0	12.0	

Order Code
SHR-025

-8500K

HSS Ground Flute Select-A-Drill Set

HSS Ground Flute jobber drills in a 'Dial-a-Drill' style case. With a clear top to view drills.

Manufactured to **BS328 DIN 338N & ANSI B94 - 11M.**

**19
PIECES**

**BEST
SELLER**

**x 0.5mm
1.0 ~ 10.0**

(mm)	2.0	3.5	5.0	6.5	8.0	9.5
1.0	2.5	4.0	5.5	7.0	8.5	10.0
1.5	3.0	4.5	6.0	7.5	9.0	

Order Code
SHR-025

-9000K

HSS Ground Flute Tap & Drill Set

Industrial quality. Ground flute, blue finish. Supplied in indexing metal cases.

Manufactured to **BS328 : Part 1 : 1986, DIN 338N & ANSI B94 -11M.**

**28
PIECES**

METRIC

Taps M3 ~ M12
+Tapping Drills
2.5 ~ 10.2

Tap & Drill

28 Piece Tap & Drill Set Taps (Taper, Second and Bottom)

M3 M4	M5 M6	M8 M10	M12
----------	----------	-----------	-----

Tapping Drills

(mm) 2.5	3.3 4.2	5.0 6.8	8.5 10.2
-------------	------------	------------	-------------

Order Code
SHR-025

-9960K

24 Piece Tap & Drill Sets

HSS

Industrial Quality

Ground flute, blue finish.
Supplied in indexing metal cases.

Manufactured to
**BS328 : Part 1 : 1986,
DIN 338N & ANSI B94 -11M.**

24 Piece Tap & Drill Sets Taps (Taper, Second and Bottom)

**24
PIECES**

**x 0.1mm
1.0 ~ 6.0**

(mm)	1.6	2.3	3.0	3.7	4.4	5.1	5.8
1.0	1.7	2.4	3.1	3.8	4.5	5.2	5.9
1.1	1.8	2.5	3.2	3.9	4.6	5.3	6.0
1.2	1.9	2.6	3.3	4.0	4.7	5.4	
1.3	2.0	2.7	3.4	4.1	4.8	5.5	
1.4	2.1	2.8	3.5	4.2	4.9	5.6	
1.5	2.2	2.9	3.6	4.3	5.0	5.7	

Order Code
SHR-025

-8380K

**x 0.5mm
1.0 ~ 10.0**

(mm)	2.0	3.5	5.0	6.5	8.0	9.5
1.0	2.5	4.0	5.5	7.0	8.5	10.0
1.5	3.0	4.5	6.0	7.5	9.0	

Order Code
SHR-025

-8460K

**x 0.5mm
1.0 ~ 10.5
+Tapping sizes
1.9 to 10.2**

(mm)	2.5	3.5	5.1	7.5	10.0
1.0	2.6	3.8	5.5	7.9	10.2
1.5	2.9	4.0	6.0	8.0	10.5
1.9	3.0	4.2	6.5	8.5	
2.0	3.2	4.5	6.8	9.0	
2.1	3.3	5.0	7.0	9.5	

Order Code
SHR-025

-8470K

**x 0.1mm
6.0 ~ 10.0**

(mm)	6.5	7.1	7.7	8.3	8.9	9.5
6.0	6.6	7.2	7.8	8.4	9.0	9.6
6.1	6.7	7.3	7.9	8.5	9.1	9.7
6.2	6.8	7.4	8.0	8.6	9.2	9.8
6.3	6.9	7.5	8.1	8.7	9.3	9.9
6.4	7.0	7.6	8.2	8.8	9.4	10.0

Order Code
SHR-025

-8420K

UNF

Taps No10 ~ 1/2"
+Tapping Drills
4.1 ~ 11.5

Tap & Drill

No10	1/4"	5/16"	3/8"	7/16"	1/2"
------	------	-------	------	-------	------

Tapping Drills

4.1	5.5	6.9	8.5	9.9	11.5
-----	-----	-----	-----	-----	------

BSW

Taps 3/16" ~ 1/2"
+Tapping Drills
3.7 ~ 10.5

Tap & Drill

3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
-------	------	-------	------	-------	------

Tapping Drills

3.7	5.1	6.5	7.9	9.3	10.5
-----	-----	-----	-----	-----	------

UNC

Taps No8 ~ 1/2"
+Tapping Drills
3.5 ~ 10.28

Tap & Drill

No8	No10	1/4"	5/16"	3/8"	1/2"
-----	------	------	-------	------	------

Tapping Drills

3.5	3.9	5.1	6.6	8.0	10.8
-----	-----	-----	-----	-----	------

Type

Order Code
SHR-025

UNC (No.8 - 1/2")
UNF (No.10 - 1/2")
BSW (3/16" - 1/2")

**-9970K
-9980K
-9990K**


HSS

**STD -
Compound**

For sawing, tapping and drilling. Extends tool life and metal removal rates. Reduces heat and improves surface finish. Silicone and CFC-free. A must for all metalworkers and service engineers.

STD Liquid (Poly Bottle)

Packed in a poly bottle with spout to allow controlled flood application. Extreme pressure (E.P.) lubricant. High anti-weld features. Reduces heat and improves surface finish.

STD Non-Drip Compound

For steels, stainless and ceramics. Can be used on yellow metals without the risk of staining. High anti-weld features. Reduces heat and improves surface finish. Non-drip compound can be applied by brush or by dipping the tap or drill.



Size	Order Code
500ml	-4020K
5ltr	-4060K
500g	-4040K


Group 960

**60
PIECES**
GAUGE

No.1 to 60

Inclusive

Number of Pieces	Order Code
60	-8880K

HSS Ground Flute Jobber Drill Sets

Industrial quality. Ground flute, blue finish. Supplied in indexing metal cases. Manufactured to **BS328 : Part 1 : 1986, DIN 338N & ANSI B94 - 11M.**


For Dimensions
See Pages 34 - 35
**29
PIECES**

X 1/64"
1/16" ~ 1/2"

1/16"	5/32"	1/4"	11/32"	7/16"
5/64"	11/64"	17/64"	23/64"	29/64"
3/32"	3/16"	9/32"	3/8"	15/32"
7/64"	13/64"	19/64"	25/64"	31/64"
1/8"	7/32"	5/16"	13/32"	1/2"
9/64"	15/64"	21/64"	27/64"	

Number of Pieces	Order Code
29	-8800K

**15
PIECES**

X 1/32"
1/16" ~ 1/2"

1/16"	5/32"	1/4"	11/32"	7/16"
3/32"	3/16"	9/32"	3/8"	15/32"
1/8"	7/32"	5/16"	13/32"	1/2"

Number of Pieces	Order Code
15	-8840K

**114
PIECES**

x 0.5mm
1.0 ~ 13.0

X 1/64"
1/16" ~ 1/2"

GAUGE

No.1 to 60

Inclusive

(mm)	2.5	4.5	6.5	8.5	10.5	12.5
1.0	3.0	5.0	7.0	9.0	11.0	13.0
1.5	3.5	5.5	7.5	9.5	11.5	
2.0	4.0	6.0	8.0	10.0	12.0	
Number of Pieces						
114						
Order Code						
-8920K						

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Bright body with TiN coating on working part. For drilling in steel, cast steel alloyed and non-alloyed, grey cast iron, graphite and malleable cast iron. Point angle: 118°, helix angle: normal, web thickness: standard, relief angle: normal, tolerance of diameter: h8, tolerance of shank: f11. Manufactured to BS 328, DIN 338.



HSS TiN-tip

DIN 338

For Dimensions

BS 328

See Pages 34 - 35



DIN 1412A 118°

Series 1004 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.00	-5010A	5.30	-5053A
1.10	-5011A	5.40	-5054A
1.20	-5012A	5.50	-5055A
1.30	-5013A	5.60	-5056A
1.40	-5014A	5.70	-5057A
1.50	-5015A	5.80	-5058A
1.60	-5016A	5.90	-5059A
1.70	-5017A	6.00	-5060A
1.80	-5018A	6.10	-5061A
1.90	-5019A	6.20	-5062A
2.00	-5020A	6.30	-5063A
2.10	-5021A	6.40	-5064A
2.20	-5022A	6.50	-5065A
2.30	-5023A	6.60	-5066A
2.40	-5024A	6.70	-5067A
2.50	-5025A	6.80	-5068A
2.60	-5026A	6.90	-5069A
2.70	-5027A	7.00	-5070A
2.80	-5028A	7.10	-5071A
2.90	-5029A	7.20	-5072A
3.00	-5030A	7.50	-5075A
3.10	-5031A	7.80	-5078A
3.20	-5032A	8.00	-5080A
3.30	-5033A	8.10	-5081A
3.40	-5034A	8.20	-5082A
3.50	-5035A	8.30	-5083A
3.60	-5036A	8.40	-5084A
3.70	-5037A	8.50	-5085A
3.80	-5038A	8.60	-5086A
3.90	-5039A	8.70	-5087A
4.00	-5040A	8.80	-5088A
4.10	-5041A	9.00	-5090A
4.20	-5042A	9.10	-5091A
4.30	-5043A	9.20	-5092A
4.40	-5044A	9.50	-5095A
4.50	-5045A	9.60	-5096A
4.60	-5046A	9.80	-5098A
4.70	-5047A	10.00	-5100A
4.80	-5048A	10.20	-5102A
4.90	-5049A	10.30	-5103A
5.00	-5050A	10.40	-5104A
5.10	-5051A	10.50	-5105A
5.20	-5052A	10.80	-5108A

Inch Sizes

Dia. (inch)	Order Code SWT-125
1/16"	-5002A
3/32"	-5002L
1/8"	-5003A
9/64"	-5003L
5/32"	-5004A
3/16"	-5004L
7/32"	-5005A
1/4"	-5005L
3/8"	-5007A
1/2"	-5008A

HSS TiN Tipped Jobber Drill Sets

19 & 25 Piece Metric Sets

x 0.5mm
1.0 ~ 10.019
PIECESNumber
of Pieces
19
25x 0.5mm
1.0 ~ 13.025
PIECESOrder Code
SWT-125
-9010A
-9020A

HSS TiN Coated Jobber Drills

General purpose drill, to drill steels with a tensile strength up to 1,000N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite. TiN coating provides longer tool life. Point angle: 118°, helix angle: normal, web thickness: normal, relief angle: normal, tolerance of diameter: h8, tolerance of shank: f11. Manufactured to DIN 338 RN, DIN 338.

HSS TiN

DIN 338

For Dimensions

BS 328

See Pages 34 - 35



DIN 1412A 118°

Series 1001 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.00	-0010A	3.50	-0035A	6.80	-0068A	10.50	-0105A
1.50	-0015A	4.00	-0040A	7.00	-0070A	11.00	-0110A
1.60	-0016A	4.20	-0042A	7.50	-0075A	11.50	-0115A
2.00	-0020A	4.50	-0045A	8.00	-0080A	12.00	-0120A
2.50	-0025A	4.80	-0048A	8.50	-0085A	12.50	-0125A
3.00	-0030A	5.00	-0050A	9.00	-0090A	13.00	-0130A
3.10	-0031A	5.50	-0055A	9.50	-0095A		
3.20	-0032A	6.00	-0060A	10.00	-0100A		
3.30	-0033A	6.50	-0065A	10.20	-0102A		

SWISS+TECH HSS-Co Straight Shank Heavy Duty Drills

The addition of up to 8% cobalt allows higher speeds to be used without reducing the life of the tool, increasing productivity. 28° helix and 135° point.
Manufactured to **DIN 338 RN**.



For Dimensions

See Pages 34 - 35



HSS-Co



DIN 1412C 135°

Series 1020 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.00	-0410A	3.10	-0431A	5.50	-0455A	9.50	-0495A
1.20	-0412A	3.20	-0432A	5.80	-0458A	9.60	-0496A
1.40	-0414A	3.30	-0433A	5.90	-0459A	9.70	-0497A
1.50	-0415A	3.40	-0434A	6.00	-0460A	10.00	-0500A
1.60	-0416A	3.50	-0435A	6.20	-0462A	10.20	-0502A
1.70	-0417A	3.70	-0437A	6.40	-0464A	10.40	-0504A
1.80	-0418A	3.80	-0438A	6.50	-0465A	10.50	-0505A
1.90	-0419A	4.00	-0440A	6.70	-0467A	11.00	-0510A
2.00	-0420A	4.10	-0441A	6.80	-0468A	10.80	-0508A
2.10	-0421A	4.20	-0442A	7.00	-0470A	11.50	-0515A
2.20	-0422A	4.30	-0443A	7.10	-0471A	11.80	-0518A
2.40	-0424A	4.50	-0445A	7.20	-0472A	12.00	-0520A
2.50	-0425A	4.80	-0448A	7.50	-0475A	12.50	-0525A
2.60	-0426A	4.90	-0449A	8.00	-0480A	13.00	-0530A
2.70	-0427A	5.00	-0450A	8.20	-0482A	13.50	-0535A
2.80	-0428A	5.10	-0451A	8.30	-0483A	14.00	-0540A
2.90	-0429A	5.20	-0452A	8.50	-0485A		
3.00	-0430A	5.30	-0453A	9.00	-0490A		

HSS-Co Straight Shank Heavy Duty TiN Tipped Drills

Heavy-duty drill used to drill steels with a tensile strength up to 1,400 N/mm². Stainless steels, heat and acid resistant steels and phosphor bronze. TiN coating provides longer tool life.
Point angle: 135°. Helix angle: normal. Web thickness: strengthened. Relief angle: normal.
Tolerance of diameter: h8. Supply unit. All diameters - 1 pce.
Manufactured to **DIN 338 RN**.

HSS-Co TiN-tip



For Dimensions

See Pages 34 - 35



DIN 1412A 135°

Series 1024 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.00	-1710A	3.50	-1735A	6.50	-1765A	10.50	-1805A
1.50	-1715A	4.00	-1740A	6.80	-1768A	11.00	-1810A
1.60	-1716A	4.20	-1742A	7.00	-1770A	12.00	-1820A
2.00	-1720A	4.50	-1745A	7.50	-1775A	12.50	-1825A
2.50	-1725A	4.90	-1749A	8.00	-1780A	13.00	-1830A
3.00	-1730A	5.00	-1750A	8.50	-1785A		
3.20	-1732A	5.50	-1755A	9.00	-1790A		
3.30	-1733A	6.00	-1760A	10.00	-1800A		

HSS-Co Straight Shank Heavy Duty TiN Coated Drills

Heavy-duty drill used to drill steels with a tensile strength up to 1,400 N/mm². Stainless steels, heat and acid resistant steels and phosphor bronze. TiN coating provides longer tool life. Point angle: 135°. Helix angle: normal. Web thickness: strengthened. Relief angle: normal. Tolerance of diameter: h8. Supply unit. All diameters - 1 pce.
Manufactured to **DIN 338 RN**.

HSS-Co TiN



For Dimensions

See Pages 34 - 35



DIN 1412C 135°

Series 1033 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.00	-0610A	2.70	-0627A	5.00	-0650A	8.20	-0682A
1.10	-0611A	2.80	-0628A	5.10	-0651A	8.50	-0685A
1.20	-0612A	3.00	-0630A	5.20	-0652A	8.70	-0687A
1.40	-0614A	3.20	-0632A	5.50	-0655A	9.00	-0690A
1.50	-0615A	3.30	-0633A	5.80	-0658A	9.50	-0695A
1.60	-0616A	3.40	-0634A	6.00	-0660A	9.70	-0697A
1.70	-0617A	3.50	-0635A	6.10	-0661A	10.00	-0700A
1.80	-0618A	3.90	-0639A	6.20	-0662A	10.20	-0702A
2.00	-0620A	4.00	-0640A	6.30	-0663A	11.00	-0710A
2.10	-0621A	4.10	-0641A	6.50	-0665A	12.00	-0720A
2.20	-0622A	4.20	-0642A	6.80	-0668A	12.50	-0725A
2.30	-0623A	4.30	-0643A	6.90	-0669A	13.00	-0730A
2.40	-0624A	4.50	-0645A	7.00	-0670A		
2.50	-0625A	4.80	-0648A	7.50	-0675A		
2.60	-0626A	4.90	-0649A	8.00	-0680A		

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High helix drills, to drill long-chipping materials like aluminium, aluminium alloys, copper and plastics.
Point angle: 130°. Helix angle: high. Web thickness: normal. Relief angle: normal. Tolerance of diameter: h8. Tolerance of shank: f11.
Manufactured to DIN 338 RN.



HSS-Co

DIN
338

For Dimensions

BS
328

See Pages 34 - 35



DIN 1412C 130°

Series 1012 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
1.50	-0215A	3.50	-0235A	6.00	-0260A	9.00	-0290A
2.30	-0223A	4.00	-0240A	6.50	-0265A	9.50	-0295A
2.50	-0225A	4.20	-0242A	7.00	-0270A	10.00	-0300A
3.00	-0230A	4.50	-0245A	7.50	-0275A	12.00	-0320A
3.30	-0233A	5.00	-0250A	8.50	-0285A	13.00	-0330A

HSS-Co Straight Shank TiN Tipped High Helix Drills

Heavy duty drill for stainless steel, heat and acid-resistant steels, short chipping and high strength steels.
High heat resistance allows drilling in titanium and titanium alloys. TiN coating provides longer tool life.
Point angle: 130°. Helix angle: high. Web thickness: strengthened. Relief angle: normal.
Tolerance of diameter: h8. Tolerance of shank: f11. Supply unit. All diameters - 1 pce.
Manufactured to DIN 338RN.

HSS-Co TiN-tip

DIN
338

For Dimensions

BS
328

See Pages 34 - 35



DIN 1412C 130°

Series 1014 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
2.00	-1420A	4.20	-1442A	7.00	-1570A	11.00	-1610A
2.50	-1425A	4.50	-1450A	8.00	-1580A	12.00	-1612A
3.00	-1430A	5.00	-1500A	8.50	-1585A	13.00	-1613A
3.30	-1433A	5.20	-1520A	9.00	-1590A		
3.50	-1435A	5.50	-1550A	10.00	-1600A		
4.00	-1440A	6.00	-1560A	10.50	-1605A		

HSS-Co Straight Shank TiN Coated High Helix Drills

Heavy duty drill for stainless steel, heat and acid-resistant steels, short chipping and high strength steels.
High heat resistance allows drilling in titanium and titanium alloys. TiN coating provides longer tool life.
Point angle: 130°. Helix angle: high. Web thickness: strengthened. Relief angle: normal.
Tolerance of diameter: h8. Tolerance of shank: f11. Supply unit. All diameters - 1 pce.
Manufactured to DIN 338RN.

HSS-Co TiN

DIN
338

For Dimensions

BS
328

See Pages 34 - 35



DIN 1412C 130°

Series 1060 - Metric

Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125	Dia. (mm)	Order Code SWT-125
2.00	-1220A	4.20	-1242A	6.50	-1265A	10.50	-1305A
2.50	-1225A	4.50	-1245A	7.00	-1270A	11.00	-1310A
3.00	-1230A	5.00	-1250A	8.00	-1280A	12.00	-1320A
3.30	-1233A	5.20	-1252A	8.50	-1285A	13.00	-1330A
3.50	-1235A	5.50	-1255A	9.00	-1290A		
4.00	-1240A	6.00	-1260A	10.00	-1300A		



HSS-Co

KENNEDY HSS-Co Straight Shank Drills

Heavy duty drill made of cobalt material with excellent heat resistance. To drill steels with tensile strength up to 1,400 N/mm², very hard bronze, stainless steels as well as heat and acid resistant steels. Point angle: 135°. Helix angle: normal. Web thickness: strengthened. Relief angle: normal. Tolerance of diameter: h8. Tolerance of shank: f11. Supply unit. All diameters - 1 pce. Manufacturing to **BS 328, DIN 338B**.

DIN 338 For Dimensions
BS 328 See Pages 34 - 35



Metric

Dia. (mm)	Order Code KEN-026
1.00	-0200K
1.10	-0220K
1.20	-0240K
1.30	-0260K
1.40	-0280K
1.50	-0300K
1.60	-0320K
1.70	-0340K
1.80	-0360K
1.90	-0380K
2.00	-0400K
2.10	-0420K
2.20	-0440K
2.30	-0460K
2.40	-0480K
2.50	-0500K
2.60	-0520K
2.70	-0540K
2.80	-0560K
2.90	-0580K
3.00	-0600K
3.10	-0620K
3.20	-0640K
3.30	-0660K
3.40	-0680K
3.50	-0700K
3.60	-0720K
3.70	-0740K
3.80	-0760K
3.90	-0780K
4.00	-0800K
4.10	-0820K
4.20	-0840K
4.30	-0860K
4.40	-0880K
4.50	-0900K
4.60	-0920K
4.70	-0940K
4.80	-0960K

Dia. (mm)	Order Code KEN-026
4.90	-0980K
5.00	-1000K
5.10	-1020K
5.20	-1040K
5.30	-1060K
5.50	-1100K
5.60	-1120K
5.70	-1140K
5.80	-1160K
5.90	-1180K
6.00	-1200K
6.10	-1220K
6.20	-1240K
6.30	-1260K
6.40	-1280K
6.50	-1300K
6.60	-1320K
6.70	-1340K
6.80	-1360K
7.00	-1400K
7.20	-1440K
7.30	-1460K
7.40	-1480K
7.50	-1500K
7.70	-1540K
7.90	-1580K
8.00	-1600K
8.50	-1700K
9.00	-1800K
9.50	-1900K
10.00	-2000K
10.20	-2040K
10.50	-2100K
11.00	-2200K
11.50	-2300K
12.00	-2400K
12.50	-2500K
13.00	-2600K

HSS-Co Straight Shank Drill Sets

Inch & Metric Sets

Straight Shank.

Manufactured to **BS 328, DIN 338B**.

**19
PIECES**

x 0.5mm

1.0 ~ 10.0

x 1/32"

1/16" ~ 1/2"

**15
PIECES**

Type	Number of Pieces	Order Code KEN-026
Metric	19	-8460K
Inch	15	-8490K

Inch

Dia. (inch)	Order Code KEN-026
1/16"	-3040K
5/64"	-3050K
3/32"	-3060K
7/64"	-3070K
1/8"	-3080K
9/64"	-3090K
5/32"	-3100K
11/64"	-3110K
3/16"	-3120K
7/32"	-3140K

Dia. (inch)	Order Code KEN-026
1/4"	-3160K
17/64"	-3170K
9/32"	-3180K
5/16"	-3200K
11/32"	-3220K
3/8"	-3240K
13/32"	-3260K

SHERWOOD HSS Drill Blanks

Jobber length blank hardened and ground all over. Accurately ground without back taper. Diameter tolerance: h8. Manufactured to **DIN 338**.



Series J400 - Metric

Dia. (mm)	Order Code SHR-024
1.00	-2398F
1.10	-2400H
1.20	-2402K
1.30	-2404M
1.40	-2406P
1.50	-2408R
1.60	-2410T
1.70	-2412W
1.80	-2414Y
1.90	-2416A
2.00	-2418C
2.10	-2420E
2.20	-2422G
2.30	-2424J
2.40	-2426L
2.50	-2428N
2.60	-2430Q
2.70	-2432S
2.80	-2434V
2.90	-2436X
3.00	-2438N
3.10	-2439A
3.20	-2440B
3.30	-2442D
3.40	-2443E

Dia. (mm)	Order Code SHR-024
3.50	-2444F
3.60	-2445G
3.70	-2446H
3.80	-2448K
3.90	-2449L
4.00	-2450M
4.10	-2451N
4.20	-2452P
4.30	-2454R
4.40	-2455S
4.50	-2456T
4.60	-2457V
4.70	-2458W
4.80	-2460Y
4.90	-2461N
5.00	-2462A
5.10	-2463B
5.20	-2464C
5.30	-2466E
5.40	-2467F
5.50	-2468G
5.60	-2469H
5.70	-2470J
5.80	-2472L
5.90	-2473M

Dia. (mm)	Order Code SHR-024
6.00	-2474N
6.10	-2475P
6.20	-2476Q
6.30	-2478S
6.40	-2479T
6.50	-2480V
6.60	-2481W
6.70	-2482X
6.80	-2484N
6.90	-2485A
7.00	-2486B
7.10	-2487C
7.20	-2488D
7.30	-2490F
7.40	-2491G
7.50	-2492H
7.60	-2493J
7.70	-2494K
7.80	-2496M
7.90	-2497N
8.00	-2498P
8.10	-2499Q
8.20	-2500R
8.30	-2502T
8.40	-2503V

DIN 338 For Dimensions
BS 328 See Pages 34 - 35

Dia. (mm)	Order Code SHR-024
8.50	-2504W
8.60	-2505X
8.70	-2506Y
8.80	-2508A
8.90	-2509B
9.00	-2510C
9.10	-2511D
9.20	-2512E
9.30	-2514G
9.40	-2515H
9.50	-2516J
9.60	-2517K
9.70	-2518L
9.80	-2520N
9.90	-2521P
10.00	-2522Q
10.50	-2523R
11.00	-2524S
11.50	-2525T
12.00	-2526V
12.50	-2527W
13.00	-2528X

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**Solid Carbide
Jobber Drills**

General purpose drills for drilling a wide variety of metallic and non-metallic materials.

Point angle: 118°. Tolerance of diameter: h7. Tolerance of shank: h6. Supply unit. All diameters - 1 pce.
Manufacturing Standard: **BS 328, DIN 338**.

**CARBIDE****DIN
338****For Dimensions****BS
328****See Pages 34 - 35****Series J102 - Metric**

Dia. (mm)	Order Code SHR-158	Dia. (mm)	Order Code SHR-158	Dia. (mm)	Order Code SHR-158	Dia. (mm)	Order Code SHR-158
1.00	-5100K	3.90	-5390K	6.80	-5680K	9.70	-5970K
1.10	-5110K	4.00	-5400K	6.90	-5690K	9.80	-5980K
1.20	-5120K	4.10	-5410K	7.00	-5700K	9.90	-5990K
1.30	-5130K	4.20	-5420K	7.10	-5710K	10.00	-6000K
1.40	-5140K	4.30	-5430K	7.20	-5720K	10.20	-6020K
1.50	-5150K	4.40	-5440K	7.30	-5730K	10.30	-6030K
1.60	-5160K	4.50	-5450K	7.40	-5740K	10.40	-6040K
1.70	-5170K	4.60	-5460K	7.50	-5750K	10.50	-6050K
1.80	-5180K	4.70	-5470K	7.60	-5760K	10.80	-6080K
1.90	-5190K	4.80	-5480K	7.70	-5770K	11.00	-6100K
2.00	-5200K	4.90	-5490K	7.80	-5780K	11.20	-6120K
2.10	-5210K	5.00	-5500K	7.90	-5790K	11.50	-6150K
2.20	-5220K	5.10	-5510K	8.00	-5800K	11.80	-6180K
2.30	-5230K	5.20	-5520K	8.10	-5810K	11.90	-6190K
2.40	-5240K	5.30	-5530K	8.20	-5820K	12.00	-6200K
2.50	-5250K	5.40	-5540K	8.30	-5830K	12.50	-6250K
2.60	-5260K	5.50	-5550K	8.40	-5840K	12.70	-6270K
2.70	-5270K	5.60	-5560K	8.50	-5850K	13.00	-6300K
2.80	-5280K	5.70	-5570K	8.60	-5860K	13.50	-6350K
2.90	-5290K	5.80	-5580K	8.70	-5870K	14.00	-6400K
3.00	-5300K	5.90	-5590K	8.80	-5880K	15.00	-6500K
3.10	-5310K	6.00	-5600K	8.90	-5890K	16.00	-6600K
3.20	-5320K	6.10	-5610K	9.00	-5900K	17.00	-6700K
3.30	-5330K	6.20	-5620K	9.10	-5910K	18.00	-6800K
3.40	-5340K	6.30	-5630K	9.20	-5920K	19.00	-6900K
3.50	-5350K	6.40	-5640K	9.30	-5930K	20.00	-7000K
3.60	-5360K	6.50	-5650K	9.40	-5940K		
3.70	-5370K	6.60	-5660K	9.50	-5950K		
3.80	-5380K	6.70	-5670K	9.60	-5960K		

SWISS+TECH**Solid Carbide
Q-Coat Drill**

For drilling into general steel, cast steel, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy and light metal, and abrasive plastic, self-centring. 3 X D.

Point angle: 140°, tolerance of diameter: m7, tolerance of shank: h6.

Manufactured to **DIN 6537**.

CARBIDE**Q-Coat****DIN
6537****DIN 6537 - Short
3 X D Nominal**

Diameter (mm)	Shank Diameter	Overall Length	Flute Length	Shank Length	Order Code SWT-158
3.00	6.0	62.0	20.0	36.0	-3530S
3.20	6.0	62.0	20.0	36.0	-3532S
3.30	6.0	62.0	20.0	36.0	-3533S
3.50	6.0	62.0	20.0	36.0	-3535S
4.00	6.0	66.0	24.0	36.0	-3540S
4.20	6.0	66.0	24.0	36.0	-3542S
4.50	6.0	66.0	24.0	36.0	-3545S
5.00	6.0	66.0	28.0	36.0	-3550S
5.50	6.0	66.0	28.0	36.0	-3555S
6.00	6.0	66.0	28.0	36.0	-3560S
6.50	8.0	79.0	34.0	36.0	-3565S
6.80	8.0	79.0	34.0	36.0	-3568S
7.00	8.0	79.0	34.0	36.0	-3570S
7.50	8.0	79.0	41.0	36.0	-3575S
8.00	8.0	79.0	41.0	36.0	-3580S
8.50	10.0	89.0	47.0	40.0	-3585S
9.00	10.0	89.0	47.0	40.0	-3590S
10.00	10.0	89.0	47.0	40.0	-3600S
10.50	12.0	102.0	55.0	45.0	-3605S
11.00	12.0	102.0	55.0	45.0	-3610S
12.00	12.0	102.0	55.0	45.0	-3620S
13.00	14.0	107.0	60.0	45.0	-3630S
13.50	14.0	107.0	60.0	45.0	-3635S
14.00	14.0	107.0	60.0	45.0	-3640S
16.00	16.0	115.0	65.0	48.0	-3660S

KENNEDY**Solid Carbide
Jobber Drills**

For drilling steels, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy and light metal and abrasive plastic.

Point angle 118°. Tolerance of diameter: h7.

Tolerance of shank: h6.

Supply unit. All diameters - 1 pce.

Manufacturing to **DIN 338, DIN338**.

CARBIDE**DIN
338****For Dimensions****BS
328****See Pages 34 - 35****Metric**

Dia. (mm)	Order Code KEN-158	Dia. (mm)	Order Code KEN-158
1.00	-0100K	6.50	-0650K
1.50	-0150K	6.80	-0680K
1.60	-0160K	7.00	-0700K
2.00	-0200K	7.50	-0750K
2.50	-0250K	8.00	-0800K
3.00	-0300K	8.50	-0850K
3.30	-0330K	9.00	-0900K
3.50	-0350K	9.50	-0950K
4.00	-0400K	10.00	-1000K
4.20	-0420K	10.20	-1020K
4.50	-0450K	10.50	-1050K
5.00	-0500K	11.00	-1100K
5.50	-0550K	11.50	-1150K
6.00	-0600K	12.00	-1200K

HSS Straight Shank Long Series Drills - Steam Tempered

General purpose drills to drill steels with tensile strength up to 1,000N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite. Point angle: 11.8°, helix angle: normal, web thickness: normal, relief angle: 10° - 20°, tolerance of diameter: h8, tolerance of f11.
Manufactured to **BS 328; Part 1: 1986, DIN 340 RN, ISO 494.**

LONG SERIES DRILLS

GROUP
025



HSS



Series L100 - Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025
1.00	33.0	56.0	-1420A	5.20	87.0	132.0	-1479P	10.40	121.0	184.0	-1542H
1.10	37.0	60.0	-1421B	5.30	87.0	132.0	-1481R	10.50	121.0	184.0	-1543J
1.20	41.0	65.0	-1422C	5.40	91.0	139.0	-1482S	10.60	121.0	184.0	-1544K
1.30	41.0	65.0	-1423D	5.50	91.0	139.0	-1483T	10.70	128.0	195.0	-1545L
1.40	45.0	70.0	-1424E	5.60	91.0	139.0	-1484V	10.80	128.0	195.0	-1547N
1.50	45.0	70.0	-1425F	5.70	91.0	139.0	-1485W	10.90	128.0	195.0	-1548P
1.60	50.0	76.0	-1426G	5.80	91.0	139.0	-1487Y	11.00	128.0	195.0	-1549Q
1.70	50.0	76.0	-1427H	5.90	91.0	139.0	-1488N	11.30	128.0	195.0	-1553V
1.80	53.0	80.0	-1429K	6.00	91.0	139.0	-1489A	11.40	128.0	195.0	-1554W
1.90	53.0	80.0	-1431M	6.10	97.0	148.0	-1490B	11.50	128.0	195.0	-1555X
2.00	56.0	85.0	-1433P	6.20	97.0	148.0	-1491C	11.70	128.0	195.0	-1557N
2.10	56.0	85.0	-1435R	6.30	97.0	148.0	-1493E	11.80	128.0	195.0	-1559B
2.20	59.0	90.0	-1437T	6.40	97.0	148.0	-1494F	12.00	134.0	205.0	-1561D
2.30	59.0	90.0	-1439W	6.50	97.0	148.0	-1495G	12.20	134.0	205.0	-1563F
2.40	62.0	95.0	-1441Y	6.60	97.0	148.0	-1496H	12.50	134.0	205.0	-1567K
2.50	62.0	95.0	-1443A	6.70	97.0	148.0	-1497J	12.70	134.0	205.0	-1569M
2.60	62.0	95.0	-1445C	6.80	102.0	156.0	-1499L	13.00	134.0	205.0	-1573R
2.70	66.0	100.0	-1447E	6.90	102.0	156.0	-1500M	13.50	140.0	214.0	-1578X
2.80	66.0	100.0	-1449G	7.00	102.0	156.0	-1501N	14.00	140.0	214.0	-1583C
2.90	66.0	100.0	-1451J	7.10	102.0	156.0	-1502P	14.50	144.0	220.0	-1585E
3.00	66.0	100.0	-1453L	7.20	102.0	156.0	-1503Q	15.00	144.0	220.0	-1587G
3.10	69.0	106.0	-1454M	7.30	120.0	156.0	-1505S	15.50	149.0	227.0	-1589J
3.20	69.0	106.0	-1455N	7.50	102.0	156.0	-1507V	16.00	149.0	227.0	-1591L
3.25	69.0	106.0	-1456P	7.70	109.0	165.0	-1509X	16.50	154.0	235.0	-1593N
3.30	69.0	106.0	-1457Q	7.80	109.0	165.0	-1511N	17.00	154.0	235.0	-1595Q
3.40	73.0	112.0	-1458R	7.90	109.0	165.0	-1512A	17.50	158.0	241.0	-1597S
3.50	73.0	112.0	-1459S	8.00	109.0	165.0	-1513B	18.00	158.0	241.0	-1599V
3.60	73.0	112.0	-1460T	8.10	109.0	165.0	-1514C	20.00	166.0	254.0	-1607D
3.70	73.0	112.0	-1461V	8.20	109.0	165.0	-1515D				
3.80	78.0	119.0	-1463X	8.30	109.0	165.0	-1517F				
3.90	78.0	119.0	-1464Y	8.50	109.0	165.0	-1519H				
4.00	78.0	119.0	-1465N	8.60	115.0	175.0	-1520J				
4.10	78.0	119.0	-1466A	8.70	115.0	175.0	-1521K				
4.20	78.0	119.0	-1467B	8.80	115.0	175.0	-1523M				
4.30	82.0	126.0	-1469D	8.90	115.0	175.0	-1524N				
4.40	82.0	126.0	-1470E	9.00	115.0	175.0	-1525P				
4.50	82.0	126.0	-1471F	9.20	115.0	175.0	-1527R				
4.60	82.0	126.0	-1472G	9.30	115.0	175.0	-1529T				
4.70	82.0	126.0	-1473H	9.50	115.0	175.0	-1531W				
4.80	87.0	132.0	-1475K	9.80	121.0	184.0	-1535A				
4.90	87.0	132.0	-1476L	10.00	121.0	184.0	-1537C				
5.00	87.0	132.0	-1477M	10.10	121.0	184.0	-1538D				
5.10	87.0	132.0	-1478N	10.20	121.0	184.0	-1539E				

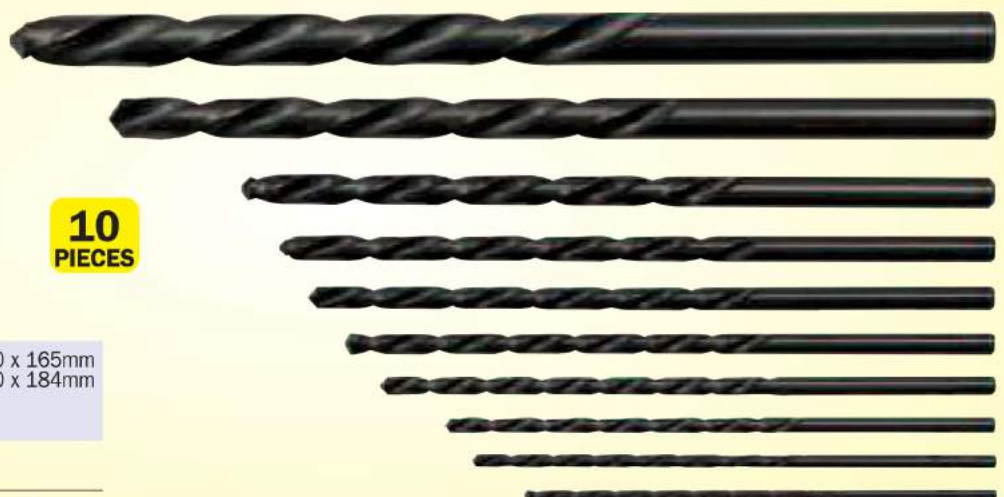


CUTTING TOOLS

HSS Long Series Drill Set

Used for deep hole drilling in most materials. (Not suitable for the drilling of holes in crankshafts.)
Manufactured to **BS 328 : Part 1 : 1986.**

METRIC HSS



**10
PIECES**

mm

2.0 ~ 10.0

2.0 x 85mm	4.0 x 119mm	8.0 x 165mm
2.5 x 95mm	4.5 x 126mm	10.0 x 184mm
3.0 x 100mm	5.0 x 132mm	
3.5 x 112mm	6.0 x 139mm	

Number of Pieces	Order Code SHR-025
10	-8540K

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**HSS Straight Shank
Long Series Drills - Bright Finish**


General purpose drills to drill steels with tensile strength up to 1,000N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite. Point angle: 118°, helix angle: normal, web thickness: normal, relief angle: 10° - 20°, tolerance of diameter: h8, tolerance of f11. Manufactured to **BS 328; Part 1: 1986, DIN 340 RN, ISO 494**. Drills with a bright finish are supplied in the as-ground condition and such tools are used generally in the machining of non-ferrous materials.


Series L100B - Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025
1.00	33.0	56.0	-1630A	4.30	82.0	126.0	-1632G	9.00	115.0	175.0	-1635Z
1.20	41.0	65.0	-1630E	4.40	82.0	126.0	-1632J	9.50	115.0	175.0	-1636E
1.50	45.0	70.0	-1630J	4.50	82.0	126.0	-1632L	9.80	121.0	184.0	-1636L
2.00	56.0	85.0	-1630Q	5.00	87.0	132.0	-1632W	10.00	121.0	184.0	-1636N
2.10	56.0	85.0	-1630R	5.10	87.0	132.0	-1632X	10.20	121.0	184.0	-1636Q
2.20	59.0	90.0	-1630S	5.20	87.0	132.0	-1632Y	10.50	121.0	184.0	-1636T
2.30	59.0	90.0	-1630T	5.50	91.0	139.0	-1633F	11.00	128.0	195.0	-1637A
2.40	62.0	95.0	-1630W	5.80	91.0	139.0	-1633J	11.50	128.0	195.0	-1637F
2.50	62.0	95.0	-1630Y	6.00	91.0	139.0	-1633P	12.00	134.0	205.0	-1637P
2.80	66.0	100.0	-1631B	6.30	97.0	148.0	-1633S	12.50	134.0	205.0	-1637V
3.00	66.0	100.0	-1631H	6.50	97.0	148.0	-1633X	13.00	134.0	205.0	-1638Q
3.20	69.0	106.0	-1631N	6.80	120.0	156.0	-1634D	13.50	140.0	214.0	-1638W
3.30	69.0	106.0	-1631Q	7.00	120.0	156.0	-1634H	14.00	140.0	214.0	-1639R
3.40	73.0	112.0	-1631T	7.20	102.0	156.0	-1634K	15.00	144.0	220.0	-1640S
3.50	73.0	112.0	-1631V	7.50	102.0	156.0	-1634N	16.00	149.0	227.0	-1641T
3.80	78.0	119.0	-1631Y	8.00	109.0	165.0	-1635A	17.00	154.0	235.0	-1642V
4.00	78.0	119.0	-1632C	8.20	109.0	165.0	-1635C	20.00	166.0	254.0	-1644X
4.20	78.0	119.0	-1632F	8.50	109.0	165.0	-1635L				

**SWISS+TECH HSS-Co Straight Shank
Long Series Drills**

Heavy-duty drill used for deep holes in steels with a tensile strength up to 1,400 N/mm². Stainless steels, heat and acid-resistant steels and hard bronze. Point angle: 135°. Helix angle: normal. Web thickness: strengthened. Relief angle: normal. Tolerance of diameter: h8. Tolerance of shank: f11. Manufacturing Standard: **DIN 340/BS328**.

HEAVY DUTY

HSS-Co

DIN 1412C 135°
Series 4000 - Metric

Diameter (mm)	Flute Length	Overall Length	Order Code SWT-125	Diameter (mm)	Flute Length	Overall Length	Order Code SWT-125	Diameter (mm)	Flute Length	Overall Length	Order Code SWT-125
3.00	66.0	100.0	-4030A	4.80	87.0	132.0	-4048A	6.00	91.0	139.0	-4060A
3.20	69.0	106.0	-4032A	5.00	87.0	132.0	-4050A	6.50	97.0	148.0	-4065A
3.50	73.0	112.0	-4035A	5.20	87.0	132.0	-4052A	8.00	109.0	165.0	-4080A
4.00	78.0	119.0	-4040A	5.50	91.0	139.0	-4055A	8.50	109.0	165.0	-4085A

**SENATOR QUALITY TOOLING HSS Roll Forged
Jobber Drill Sets**

Roll forged from HSS, ensuring uninterrupted grain structure. This provides exceptional strength and durability. Tips are ground for effective cutting. Suitable for drilling wood, plastic, carbon and plain steels where the cutting efficiency of ground flute is not required. Manufactured to **BS 328; Part 1: 1986 & DIN 338 Type N**.

**x 0.5mm
1.0 ~ 10.0**
**19
PIECES**
**19 Piece Set
Contents (mm):**

1.0	3.0	5.0	7.0	9.0
1.5	3.5	5.5	7.5	9.5
2.0	4.0	6.0	8.0	10.0
2.5	4.5	6.5	8.5	

Weight each

0.65kg

Order Code

SEN-025
-9250K
**x 0.5mm
1.0 ~ 13.0**
**25
PIECES**
**25 Piece Set
Contents (mm):**

1.0	3.5	6.0	8.5	11.0
1.5	4.0	6.5	9.0	11.5
2.0	4.5	7.0	9.5	12.0
2.5	5.0	7.5	10.0	12.5
3.0	5.5	8.0	10.5	13.0

Weight each

1.60kg

Order Code

SEN-025
-9150K

General-purpose drills for steels, cast steel, grey cast iron, malleable cast iron, nickel brass, aluminium alloy and graphite.
Point angle: 118°, helix angle: normal, web thickness: standard,
relief angle: 10° - 20°, tolerance of diameter: h8, tolerance of shank: f11.
Manufactured to BS 328 : Part 1 : 1986.



Series E100 - Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024
1.50	80.0	125.0	-2091B
1.50	100.0	160.0	-2092C
2.00	80.0	125.0	-2094E
2.00	100.0	160.0	-2095F
2.20	150.0	200.0	-2095H
2.20	100.0	160.0	-2096G
2.50	80.0	125.0	-2097H
2.50	100.0	160.0	-2098J
2.50	150.0	200.0	-2098L
3.00	100.0	160.0	-2099K
3.00	150.0	200.0	-2100L
3.00	200.0	250.0	-2101M
3.30	100.0	160.0	-2102N
3.30	150.0	200.0	-2102Q
3.50	100.0	160.0	-2103P
3.50	150.0	200.0	-2104Q
3.50	200.0	250.0	-2105R
4.00	100.0	160.0	-2107T
4.00	150.0	200.0	-2108V
4.00	200.0	250.0	-2109W
4.00	250.0	315.0	-2110X
4.50	100.0	160.0	-2111Y
4.50	150.0	200.0	-2112N
4.50	200.0	250.0	-2113A
4.50	250.0	315.0	-2114B

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024
4.50	300.0	425.0	-2114L
5.00	100.0	160.0	-2115C
5.00	150.0	200.0	-2116D
5.00	200.0	250.0	-2117E
5.00	250.0	315.0	-2118F
5.00	300.0	400.0	-2119G
5.50	150.0	200.0	-2120H
5.50	200.0	250.0	-2121J
5.50	250.0	300.0	-2121P
6.00	150.0	200.0	-2123L
6.00	200.0	250.0	-2124M
6.00	250.0	315.0	-2125N
6.00	300.0	400.0	-2126P
6.50	150.0	200.0	-2127Q
6.50	200.0	250.0	-2128R
6.50	250.0	315.0	-2129S
7.00	150.0	200.0	-2130T
7.00	200.0	250.0	-2131V
7.00	250.0	315.0	-2132W
7.50	200.0	200.0	-2133X
7.50	200.0	250.0	-2134Y
7.50	250.0	315.0	-2135N
8.00	200.0	250.0	-2136A
8.00	250.0	315.0	-2137B
8.00	300.0	400.0	-2138C

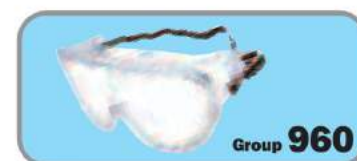
Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024
8.50	200.0	250.0	-2139D
8.50	250.0	315.0	-2140E
9.00	200.0	250.0	-2141F
9.00	250.0	315.0	-2142G
9.00	300.0	400.0	-2143H
9.50	200.0	250.0	-2144J
9.50	250.0	315.0	-2145K
10.00	200.0	250.0	-2146L
10.00	250.0	315.0	-2147M
10.00	300.0	400.0	-2148N
10.50	200.0	250.0	-2149P
10.50	250.0	315.0	-2150Q
10.50	300.0	400.0	-2151R
11.00	200.0	250.0	-2152S
11.00	250.0	315.0	-2153T
11.00	300.0	400.0	-2154V
12.00	200.0	250.0	-2155W
12.00	250.0	315.0	-2156X
12.00	300.0	400.0	-2157Y
13.00	250.0	315.0	-2158N
13.00	300.0	400.0	-2159A
14.00	250.0	315.0	-2160B
14.00	300.0	400.0	-2161C

Series E100 - Inch

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-024
1/16"	80.0	125.0	-1990A
1/16"	100.0	160.0	-1991B
3/32"	80.0	125.0	-1994E
3/32"	100.0	160.0	-1995F
1/8"	100.0	160.0	-1998J
1/8"	150.0	200.0	-1999K
1/8"	200.0	250.0	-2000L
1/8"	250.0	315.0	-2001M
5/32"	100.0	160.0	-2004Q
5/32"	150.0	200.0	-2005R
5/32"	200.0	250.0	-2006S
3/16"	100.0	160.0	-2011Y
3/16"	150.0	200.0	-2012N
3/16"	200.0	250.0	-2013A
3/16"	250.0	315.0	-2014B
13/64"	150.0	200.0	-2016D
13/64"	200.0	250.0	-2017E
7/32"	150.0	200.0	-2019G

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-024
7/32"	200.0	250.0	-2020H
7/32"	250.0	315.0	-2021J
1/4"	150.0	200.0	-2024M
1/4"	200.0	250.0	-2025N
1/4"	250.0	315.0	-2026P
1/4"	300.0	400.0	-2027Q
9/32"	150.0	200.0	-2032W
9/32"	200.0	250.0	-2033X
5/16"	150.0	200.0	-2035N
5/16"	200.0	250.0	-2036A
5/16"	250.0	315.0	-2037B
11/32"	200.0	250.0	-2042D
11/32"	200.0	250.0	-2042G
11/32"	300.0	400.0	-2044J
23/64"	250.0	315.0	-2046L
3/8"	150.0	200.0	-2046Y
3/8"	200.0	250.0	-2047M
3/8"	250.0	315.0	-2048N

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-024
3/8"	300.0	400.0	-2049P
13/32"	200.0	250.0	-2051R
13/32"	250.0	315.0	-2052S
7/16"	200.0	250.0	-2054V
7/16"	300.0	400.0	-2056X
7/16"	250.0	315.0	-2055W
1/2"	200.0	250.0	-2059A
1/2"	250.0	315.0	-2060B
1/2"	300.0	400.0	-2061C



Group 960

HSS Extra Length Drill Set

Used for deep hole drilling in most materials. (Not suitable for the drilling of holes in crankshafts.)
Manufactured to BS 328 : Part 1 : 1986.

6
PIECES

mm

3.0 ~ 10.0

3.0 x 160mm	6.0 x 200mm
4.0 x 160mm	8.0 x 250mm
5.0 x 200mm	10.0 x 250mm

Number of Pieces	Order Code
6	SHR-025 -8600K



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To drill steels with a tensile strength up to 1,000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Point angle: 118°, helix angle: normal, relief angle: normal, tolerance of diameter: h8.
Manufacturing to DIN 345.



Series T100 - Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025
1 Morse Taper			
3.00	33	114	-2634E
3.30	36	117	-2638J
3.50	39	120	-2640L
4.00	43	123	-2646S
4.10	43	123	-2647T
4.20	43	123	-2648V
4.50	47	128	-2652N
5.00	52	133	-2658F
5.10	52	133	-2659G
5.20	52	133	-2660H
5.50	57	138	-2664M
6.00	57	138	-2670T
6.20	57	138	-2672W
6.50	63	144	-2676A
6.60	63	144	-2677B
6.80	69	150	-2680E
7.00	69	150	-2682G
7.50	69	150	-2688N
8.00	75	156	-2694W
8.20	75	156	-2696Y
8.50	75	156	-2700C
8.60	81	162	-2701D
8.70	81	162	-2702E
8.75	81	162	-2703F
8.80	81	162	-2704G
9.00	81	162	-2706J
9.50	81	162	-2712Q
9.70	87	168	-2714S
9.80	87	168	-2716V
10.00	87	168	-2718X
10.20	87	168	-2720N
10.25	87	168	-2721A
10.30	87	168	-2722B
10.40	87	168	-2723C
10.50	87	168	-2724D
10.70	94	175	-2726F
10.80	94	175	-2728H
11.00	94	175	-2730K
11.20	94	175	-2732M
11.40	94	175	-2735Q
11.50	94	175	-2736R
11.70	94	175	-2738T
11.80	94	175	-2740W
12.00	101	182	-2742Y
12.10	101	182	-2743N
12.20	101	182	-2744A
12.30	101	182	-2746C
12.40	101	182	-2747D
12.50	101	182	-2748E
12.70	101	182	-2750G
12.80	101	182	-2752J
13.00	101	182	-2754L
13.20	101	182	-2756N
13.50	108	189	-2760S
14.00	108	189	-2766N
2 Morse Taper			
14.10	114	212	-2766P
14.20	114	212	-2766S
14.25	114	212	-2767A
14.50	114	212	-2768B
14.75	114	212	-2769C
15.00	114	212	-2770D
15.20	120	218	-2770L
15.25	120	218	-2771E
15.50	120	218	-2772F
15.75	120	218	-2773G
16.00	120	218	-2774H
16.10	125	223	-2774N
16.20	125	223	-2774T
16.25	125	223	-2775J
16.50	125	223	-2776K
17.00	125	223	-2778M

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025
17.25	130	228	-2779N
17.50	130	228	-2780P
17.75	130	228	-2781Q
18.00	130	228	-2782R
18.25	135	233	-2783S
18.50	135	233	-2784T
19.00	135	233	-2786W
19.25	140	238	-2787X
19.50	140	238	-2788Y
20.00	140	238	-2790A
20.25	145	243	-2791B
20.50	145	243	-2793D
20.75	145	243	-2794E
21.00	145	243	-2795F
21.25	150	248	-2796G
21.50	150	248	-2797H
21.75	150	248	-2798J
22.00	150	248	-2799K
22.25	150	248	-2800L
22.50	150	248	-2801M
23.00	150	248	-2803P
3 Morse Taper			
23.50	150	248	-2805R
24.00	160	281	-2807T
24.50	160	281	-2809W
25.00	160	281	-2811Y
25.50	165	286	-2813A
26.00	165	286	-2815C
26.50	165	286	-2817E
27.00	170	291	-2819G
27.50	170	291	-2821J
28.00	170	291	-2823L
28.50	175	296	-2825N
29.00	175	296	-2827Q
29.50	175	296	-2829S
30.00	175	296	-2831V
30.50	180	301	-2833X
31.00	180	301	-2835N
31.50	180	301	-2837B
4 Morse Taper			
32.00	185	334	-2839D
32.50	185	334	-2840E
33.00	185	334	-2842G
33.50	185	334	-2843H
34.00	190	339	-2844J
34.50	190	339	-2845K
35.00	190	339	-2846L
35.50	190	339	-2847M
36.00	195	344	-2848N
37.00	195	344	-2850Q
37.50	195	344	-2851R
38.00	200	349	-2852S
38.50	200	349	-2853T
39.00	200	349	-2854V
39.50	200	349	-2855W
40.00	200	349	-2856X
41.00	205	354	-2858N
42.00	205	354	-2860B
43.00	210	359	-2862D
44.00	210	359	-2864F
45.00	210	359	-2866H
46.00	215	364	-2868K
47.00	215	364	-2870M
48.00	220	369	-2872P
49.00	220	369	-2874R
50.00	220	369	-2876T
5 Morse Taper			
55.00	230	417	-2882A
60.00	235	422	-2887F
65.00	245	432	-2892L
70.00	250	437	-2897R

Series T100 - Inch

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025
1 Morse Taper			
1/8"	1 7/16"	4 5/8"	-2550E
3/16"	2 1/16"	5 1/4"	-2550J
7/32"	2 1/4"	5 7/16"	-2550L
1/4"	2 1/2"	5 11/16"	-2550N
5/16"	2 15/16"	6 1/8"	-2550S
11/32"	3 3/16"	6 3/8"	-2550V
3/8"	3 7/16"	6 5/8"	-2550X
13/32"	3 7/16"	6 5/8"	-2550Z
7/16"	3 11/16"	6 7/8"	-2551B
31/64"	3 31/32"	7 5/32"	-2551E
1/2"	3 31/32"	7 5/32"	-2551F
17/32"	4 1/4"	7 7/16"	-2551H
2 Morse Taper			
9/16"	4 1/2"	8 3/8"	-2551K
19/32"	4 3/4"	8 5/8"	-2551M
5/8"	4 3/4"	8 5/8"	-2551P
11/16"	5 1/8"	9"	-2551T
3/4"	5 1/2"	9 3/8"	-2551Y
25/32"	5 1/2"	9 3/8"	-2552A
51/64"	5 3/4"	9 5/8"	-2552B
13/16"	5 3/4"	9 5/8"	-2552C
7/8"	5 7/8"	9 3/4"	-2552G
3 Morse Taper			
59/64"	6 1/8"	10 7/8"	-2552K
31/32"	6 1/4"	11"	-2552N
1"	6 1/2"	11 1/4"	-2552Q
1 1/16"	6 5/8"	11 3/8"	-2552V
1 1/8"	6 7/8"	11 5/8"	-2552Z
1 1/4"	7 1/4"	12"	-2553H
4 Morse Taper			
1 5/16"	7 1/4"	13 1/8"	-2553M
1 1/2"	7 7/8"	13 3/4"	-2554A





HSS Extra Length Taper Shank Drills - Sherwood Standard

General purpose drills for steels, cast steel, grey cast iron, malleable cast iron, nickel brass, aluminium, alloy and graphite. Point angle 118°, helix angle: normal, web thickness: standard, relief angle 8° - 20°, tolerance of diameter: h8. Made to Sherwood Standard. Manufactured to **BS328**.

GROUP
025



new



Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024
1 Morse Taper				2 Morse Taper			
6.00	200.0	300.0	-3951R	16.00	350.0	450.0	-4002R
6.00	285.0	350.0	-3952C	18.00	350.0	450.0	-4009B
6.50	240.0	300.0	-3955F	20.00	275.0	375.0	-4016B
8.00	280.0	350.0	-3964A	3 Morse Taper			
10.50	215.0	300.0	-3981T	23.00	350.0	450.0	-4027R
10.50	290.0	375.0	-3981V	24.00	210.0	300.0	-4028R
				24.00	505.0	630.0	-4031N

HSS Extra Length Taper Shank Drills

HSS

General purpose drills for steels, cast steel, grey cast iron, malleable cast iron, nickel brass, aluminium, alloy and graphite. Point angle 118°, helix angle: normal, web thickness: standard, relief angle 8° - 20°, tolerance of diameter: h8. Made to **BS328** : **1 1986**. Sizes 32mm to 50mm are made to **DIN1870/Series 1**.



Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024
1 Morse Taper				2 Morse Taper				3 Morse Taper			
6.00	110.0	200.0	-3950A	11.00	310.0	400.0	-3984M	20.00	215.0	315.0	-4015W
6.00	160.0	250.0	-3951B	12.00	160.0	250.0	-3986P	20.00	300.0	400.0	-4016X
6.50	160.0	250.0	-3954E	12.00	225.0	315.0	-3987Q	20.00	400.0	500.0	-4017Y
7.00	110.0	200.0	-3956G	12.00	310.0	400.0	-3988R	21.00	215.0	315.0	-4019A
7.00	160.0	250.0	-3957H	12.00	410.0	500.0	-3989S	21.00	300.0	400.0	-4020B
7.50	160.0	250.0	-3960L	13.00	160.0	250.0	-3990T	21.00	400.0	500.0	-4021C
8.00	110.0	200.0	-3961M	13.00	225.0	315.0	-3991V	22.00	215.0	315.0	-4022D
8.00	160.0	250.0	-3962N	13.00	310.0	400.0	-3992W	22.00	300.0	400.0	-4023E
8.00	225.0	315.0	-3963P	14.00	160.0	250.0	-3994Y	22.00	400.0	500.0	-4024F
8.00	310.0	400.0	-3964Q	14.00	225.0	315.0	-3995N	3 Morse Taper			
8.50	110.0	200.0	-3966S	14.00	310.0	400.0	-3996A	23.00	400.0	500.0	-4028K
8.50	160.0	250.0	-3967T	2 Morse Taper				24.00	275.0	400.0	-4029L
8.50	225.0	315.0	-3968V	15.00	160.0	250.0	-3997B	24.00	375.0	500.0	-4030M
8.50	310.0	400.0	-3969W	15.00	225.0	315.0	-3998C	25.00	275.0	400.0	-4032P
9.00	110.0	200.0	-3970X	15.00	310.0	400.0	-3999D	25.00	375.0	500.0	-4033Q
9.00	160.0	250.0	-3971Y	15.00	410.0	500.0	-4000E	26.00	275.0	400.0	-4035S
9.00	225.0	315.0	-3972N	16.00	215.0	315.0	-4001F	26.00	375.0	500.0	-4036T
9.00	310.0	400.0	-3972T	16.00	300.0	400.0	-4002G	28.00	375.0	500.0	-4041N
9.50	160.0	250.0	-3975C	16.00	400.0	500.0	-4003H	28.00	505.0	630.0	-4042A
9.50	225.0	315.0	-3976D	17.00	215.0	315.0	-4004J	30.00	275.0	400.0	-4043B
10.00	160.0	250.0	-3978F	17.00	300.0	400.0	-4005K	30.00	375.0	500.0	-4044C
10.00	225.0	315.0	-3979G	18.00	215.0	315.0	-4007M	32.00	450.0	575.0	-4045F
10.00	310.0	400.0	-3980H	18.00	300.0	400.0	-4008N	35.00	450.0	575.0	-4047B
10.00	410.0	500.0	-3981J	18.00	400.0	500.0	-4009P	40.00	450.0	575.0	-4048C
11.00	160.0	250.0	-3982K	18.00	530.0	630.0	-4010Q	45.00	600.0	725.0	-4051B
11.00	225.0	315.0	-3983L	19.00	215.0	315.0	-4011R	50.00	600.0	725.0	-4055F
				19.00	300.0	400.0	-4012S				

CUTTING TOOLS



HSS-Co 5% Taper Shank Drills

High heat resistant drill for drilling alloyed and unalloyed steels and castings with a tensile strength over 800N/mm². Especially suitable for hot and cold rolled steels as well as case hardening and heat treatable steels. Manufactured to Type N **DIN 345**.

HSS-Co. 5%



Series 345

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-026	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-026	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-026
1 Morse Taper				2 Morse Taper				3 Morse Taper			
10.00	87.0	168.0	-1824W	16.00	120.0	218.0	-1825J	24.00	160.0	281.0	-1826B
10.50	87.0	168.0	-1824X	16.50	125.0	223.0	-1825K	25.00	160.0	281.0	-1826D
11.00	94.0	175.0	-1824Y	17.00	125.0	223.0	-1825L	26.00	165.0	286.0	-1826F
12.00	101.0	182.0	-1825A	17.50	130.0	228.0	-1825M	28.00	170.0	291.0	-1826K
12.50	101.0	182.0	-1825B	18.00	130.0	228.0	-1825N	30.00	175.0	296.0	-1826P
13.00	101.0	182.0	-1825C	18.50	135.0	233.0	-1825P	4 Morse Taper			
13.50	108.0	189.0	-1825D	19.00	135.0	233.0	-1825Q	32.00	185.0	334.0	-1826T
14.00	108.0	189.0	-1825E	20.00	140.0	238.0	-1825S				
14.50	114.0	212.0	-1825F	21.00	145.0	243.0	-1825V				
15.00	114.0	212.0	-1825G	22.00	150.0	248.0	-1825X				
15.50	120.0	218.0	-1825H								

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

KENNEDY
 QUALITY INDUSTRIAL TOOLING

Industrial Quality Engineer's Hand Files

Available in a comprehensive range of shapes and sizes.

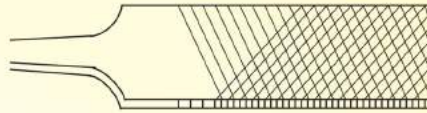
Manufactured to BS 498 : 1990 and American Federal Standard GGG-f-325b.


Bastard Cut

Second Cut

Smooth Cut


Double Cut - Two sets of diagonal rows of teeth, with the second set of teeth cut in opposite direction and on top of the first. The first set of teeth is known as 'overcut' and the second as 'upcut', upcut being the finer. Double cut files are used with heavier pressure than single cut and remove material faster from the workpiece.



Hand - Parallel edges, one edge uncut. For flat filing, corner filing and deburring. Multi-purpose and for other work where a 'safe' or uncut edge is needed. Double cut.



Flat - Edges taper towards front. Applications as for hand files. Preferred where taper allows access into tight corners and angles. For general work on iron, steel, etc.



Round - Diameter tapers towards point. Suitable for internal and external concave surfaces.



Half-Round - Edges and surfaces taper towards point. Dual application; suitable for concave surfaces and flat filing. For rapid removal of metal.



Square - Parallel edges, surfaces taper towards point. For groove, rectangular hole and internal corner filing. Preferable to a Flat File because of its heavier section.



Three Square - Equilateral section (60° angles). Tapered towards point. For filing acute angles, internal corners and flat filing, clearing out square corners.



Knife - Two equal surfaces, tapered to knife point. For filing and deburring narrow grooves, slits and gear-teeth. Used principally by tool and die makers on work having acute angles.



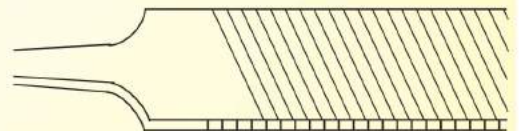
Warding - Parallel surfaces, edges tapered to a point. For narrow grooves, keyways, slots etc. Warding Files are used by locksmiths in repairing or filing ward notches in keys. Also suited for use in narrow spaces. All sides double cut.



Pillar - Parallel edges, surfaces tapered towards end. Narrow version of hand file. For use where access is restricted. These files are designed for millwrights and mechanics for use in enlarging key-ways, slots, etc., close to the shoulder.



Single Cut - Single set of parallel diagonal rows of teeth. Often used with light pressure to produce a smooth surface finish or put a keen edge on knives, shears and saws.



Double Ended Saw - Edges taper towards point. For filing and sharpening saws. Points are left uncut. Instead of having a tang, both ends are tapered. They are used for sharpening saws having a 60° angle. The teeth are cut from each end towards the centre.



Taper Saw - Edges taper towards point. For filing and sharpening hand saws. Points are left uncut. Taper Saw Files are used for filing every type of handsaw which have 60° angle teeth. These files are single cut with edges that are set and cut for filing the gullet between the saw teeth.



Mill Saw - Available with one or two round edges. Parallel edges, both edges cut for filing and sharpening saws.





Fitted with ergonomically designed handles for a comfortable improved grip. Files manufactured from T12 CH-Moly alloy tool steel, hardened and tempered. Supplied in a woven wallet for easy storage.

Manufactured to BS498:1990 and American Federal Standard GGG-F325B.



Overall Length	Shape	Smooth	Second	Bastard
		Order Code KEN-030	Order Code KEN-030	Order Code KEN-030
150mm (6")	Hand	-2060K	-2070K	-2080K
	Flat	-2160K	-2170K	-2180K
	Round	-	-2270K	-
	Half Round	-	-2370K	-
	Square	-	-2470K	-
200mm (8")	Hand	-4060K	-4070K	-4080K
	Flat	-4160K	-4170K	-4180K
	Round	-	-4270K	-
	Half Round	-	-4370K	-
	Square	-	-4470K	-
250mm (10")	Hand	-6060K	-6070K	-6080K
	Flat	-6160K	-6170K	-6180K
	Round	-	-6270K	-
	Half Round	-	-6370K	-
	Square	-	-6470K	-

All files on this page feature the new Kennedy Professional Grip handles



Intelligent design for maximum control and reduced fatigue

Engineer's File Sets

4 Piece Sets

Set contains Hand, Flat, Round and Half Round second engineer's Sets available in 150mm (6"), 200mm (8") and 250mm (10").



**4
PIECES**

Overall Length	No. of Pieces	Cut	Order Code KEN-030
150mm (6")	4	Second	-9740K
200mm (8")			-9760K
250mm (10")			-9780K

"Three-cut" Files with Handles

Unique Design - Three Files in One!

Triangular file, each face with a different cut; smooth cut (cut 1); second cut (cut 2) and bastard cut (Cut 3). Complete with bi-material handle designed for maximum comfort and added grip.

File length: 200mm (8").



Smooth Cut (Cut 1)



Second Cut (Cut 2)



Bastard Cut (Cut 3)



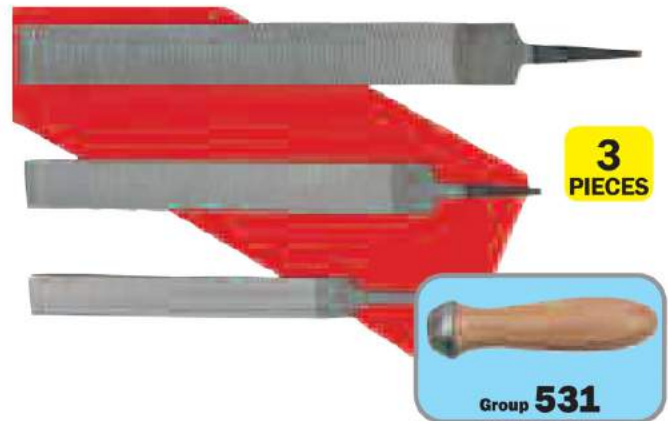
Overall Length	Cut	Shape	Order Code KEN-030
200mm (8")	Smooth Second Bastard	Triangular	-4540K

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

Available in a comprehensive range of shapes and sizes.
Manufactured to **BS 498 : 1990** and American Federal Standard
GGG-4325b.

**Curved Tooth File Set**

Contents: (1 of each) Flat, 200mm (8"), 255mm (10")
and 305mm (12") standard cut.

**Bastard Cut****Second Cut****Smooth Cut**

Number
of Pieces

Weight
each

Order Code
KEN-032

3

765g

-1830K

Overall Length	Type	Smooth Cut		Second Cut		Bastard Cut	
		Weight per 10	Order Code KEN-030	Weight per 10	Order Code KEN-030	Weight per 10	Order Code KEN-030
100mm (4")	Hand	0.27kg	-0010K	0.27kg	-0020K	0.27kg	-0030K
	Flat	0.27kg	-0110K	0.26kg	-0120K	0.26kg	-0130K
	Round	0.09kg	-0210K	0.09kg	-0220K	0.09kg	-0230K
	Half Round	0.29kg	-0310K	0.29kg	-0320K	0.29kg	-0330K
	Square	0.10kg	-0410K	0.10kg	-0420K	0.12kg	-0430K
	3 Square	0.27kg	-0510K	0.29kg	-0520K	0.31kg	-0530K
	Warding	0.11kg	-0710K	0.12kg	-0720K	0.12kg	-0730K
150mm (6")	Hand	0.73kg	-2010K	0.73kg	-2020K	0.77kg	-2030K
	Flat	0.74kg	-2110K	0.71kg	-2120K	0.71kg	-2130K
	Round	0.35kg	-2210K	0.34kg	-2220K	0.35kg	-2230K
	Half Round	0.72kg	-2310K	0.72kg	-2320K	0.72kg	-2330K
	Square	0.37kg	-2410K	0.40kg	-2420K	0.40kg	-2430K
	3 Square	0.86kg	-2510K	0.82kg	-2520K	0.82kg	-2530K
	Knife	0.59kg	-2610K	0.62kg	-2620K	0.62kg	-2630K
	Warding	0.35kg	-2710K	0.36kg	-2720K	0.36kg	-2730K
	Pillar	0.35kg	-2810K	0.35kg	-2820K	0.36kg	-2830K
	Double Ended	-	-	0.33kg	-2930K	-	-
175mm (7")	Taper Saw	-	-	0.88kg	-2940K	-	-
	Double Ended	-	-	0.34kg	-3930K	-	-
200mm (8")	Hand	1.70kg	-4010K	1.75kg	-4020K	1.60kg	-4030K
	Flat	1.35kg	-4110K	1.35kg	-4120K	1.35kg	-4130K
	Round	0.60kg	-4210K	0.60kg	-4220K	0.60kg	-4230K
	Half Round	1.50kg	-4310K	1.50kg	-4320K	1.55kg	-4330K
	Square	0.81kg	-4410K	0.85kg	-4420K	0.83kg	-4430K
	3 Square	2.00kg	-4510K	1.80kg	-4520K	1.90kg	-4530K
	Knife	1.35kg	-4610K	1.40kg	-4620K	1.30kg	-4630K
	Warding	1.00kg	-4710K	0.90kg	-4720K	0.76kg	-4730K
	Pillar	0.67kg	-4810K	0.85kg	-4820K	0.70kg	-4830K
	Millsaw	-	-	1.90kg	-4920K	-	-
225mm (9")	Double Ended	-	-	0.50kg	-4930K	-	-
	Taper Saw	-	-	0.72kg	-4940K	-	-
	Double Ended	-	-	0.75kg	-5930K	-	-
255mm (10")	Hand	3.00kg	-6010K	3.10kg	-6020K	3.10kg	-6030K
	Flat	2.90kg	-6110K	2.90kg	-6120K	2.70kg	-6130K
	Round	1.30kg	-6210K	1.30kg	-6220K	1.25kg	-6230K
	Half Round	2.55kg	-6310K	2.55kg	-6320K	2.60kg	-6330K
	Square	1.60kg	-6410K	1.70kg	-6420K	1.75kg	-6430K
	3 Square	1.85kg	-6510K	2.70kg	-6520K	3.00kg	-6530K
	Warding	-	-	1.60kg	-6720K	1.50kg	-6730K
	Millsaw	-	-	2.10kg	-6910K	-	-
	Double Ended	-	-	0.97kg	-6930K	-	-
	Double Ended	-	-	0.97kg	-6930K	-	-
305mm (12")	Hand	4.30kg	-7010K	4.35kg	-7020K	4.40kg	-7030K
	Flat	4.20kg	-7110K	4.30kg	-7120K	4.50kg	-7130K
	Round	2.50kg	-7210K	2.40kg	-7220K	2.45kg	-7230K
	Half Round	4.60kg	-7310K	4.35kg	-7320K	4.40kg	-7330K
	Square	3.20kg	-7410K	3.25kg	-7420K	1.40kg/5	-7430K
	3 Square	4.50kg	-7510K	4.95kg	-7520K	4.55kg	-7530K
	1 Round Edge Mill	-	-	1.20kg/5	-7910K	-	-
355mm (14")	Hand	3.70kg/5	-8010K	3.70kg/5	-8020K	3.40kg/5	-8030K
	Flat	2.23kg/5	-8110K	3.45kg/5	-8120K	3.30kg/5	-8130K
	Round	2.45kg/5	-8210K	2.50kg/5	-8220K	2.55kg/5	-8230K
	Half Round	2.90kg/5	-8310K	3.50kg/5	-8320K	3.55kg/5	-8330K
	Square	-	-	3.00kg/5	-8420K	3.07kg/5	-8430K
	3 Square	-	-	3.35kg/5	-8520K	3.50kg/5	-8530K
405mm (16")	Hand	-	-	-	-	5.30kg/5	-9030K
	Flat	-	-	5.10kg/5	-9120K	5.00kg/5	-9130K
	Half Round	-	-	4.85kg/5	-9320K	4.75kg/5	-9330K
	Square	-	-	-	-	4.45kg/5	-9430K



A selection of popular engineer's files suitable for filing and deburring on a wide variety of materials. Double cut teeth for rapid metal removal. Ideal for workshop or garage. Manufactured to **BS498:1990** and American Federal Standard **GGG-F-3256**.

Contents (1 of each):

bastard cut hand, second cut flat, round and half round.

**4
PIECES**


Number of Pieces	Size	Order Code SEN-030
4	150mm (6")	-9510K
4	200mm (8")	-9520K
4	255mm (10")	-9530K

Engineer's Second Cut File Set

A selection of popular engineer's files suitable for filing and deburring on a wide variety of materials. Ideal for workshop or garage. Double cut teeth for rapid metal removal.

Contents (1 of each) Second Cut:

Hand: 305mm (12"), 255mm (10"), 200mm (8"), 125mm (5").

Flat: 305mm (12"), 255mm (10"), 200mm (8"), 125mm (5").

Round: 305mm (12"), 255mm (10"), 200mm (8").

Half round: 305mm (12"), 255mm (10"), 200mm (8").


**14
PIECES**

Number of Pieces	Order Code SEN-030
14	-9800K

Engineer's File Set

A selection of popular engineer's files suitable for filing and deburring on a wide variety of materials. Ideal for workshop or garage. Double cut teeth for rapid metal removal.

Contents: (1 of each)

150mm (6"):

Hand: smooth, second. **Flat:** smooth, second, bastard.

Half round: second. **Round:** bastard.

200mm (8"):

Hand: second. **Flat:** second. **Half Round:** second. **Round:** second.

255mm (10"):

Hand: second, bastard.

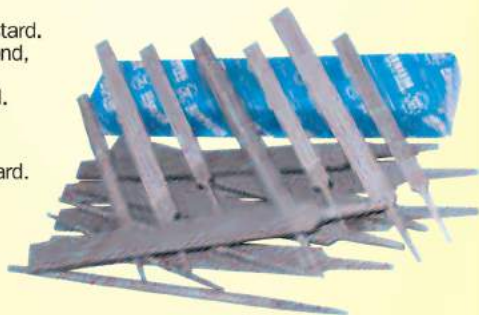
Flat: smooth, second, bastard.

Half round: second.

Round: bastard.

305mm (12"):

Flat: second, bastard.


**20
PIECES**

Number of Pieces	Order Code SEN-030
20	-9840K

ENGINEER'S FILES
**GROUP
030**

Contents (1 of each):

flat, hand, round, half-round three-square and square. Plus two file handles, supplied in PVC wallet.

Manufactured to **BS498 : 1990** & **US Federal Standards**.


**8
PIECES**

Number of Pieces	Set Size	Handle Size	Weight each	Order Code KEN-030
8	150mm (6")	75mm (3")	0.44kg	-9860K
8	200mm (8")	100mm (4")	0.89kg	-9880K
8	255mm (10")	125mm (5")	1.65kg	-9900K

Engineer's Double Cut File Set

Bastard cut one side and 2nd cut on other.

Contents
(1 of each):

three square, half round and round bastard cut files, flat, hand and square 'double cut'. 200mm (8"). Supplied with two file handles in plastic wallet.


**8
PIECES**

Number of Pieces	Order Code KEN-030
8	-9930K

Second Cut File Set
Contents:

(1 of each) 150mm (6") and 255mm (10") files;

(3 of each) flat;

(2 of each) half-round;

(1 of each) round;

1 of 6 piece 16cm cut 2, needle file set.

**18
PIECES**

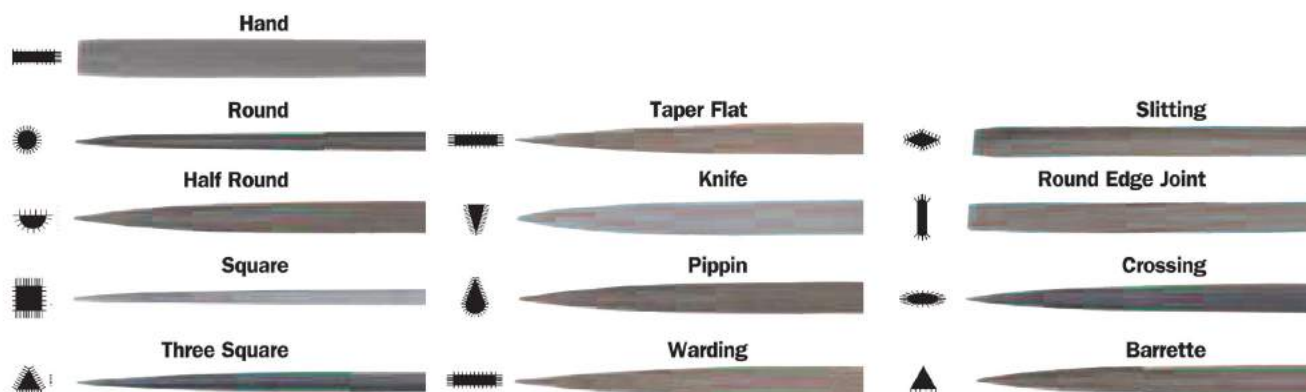
Group 531


Needle file set in PVC wallet.

Number of Pieces	Order Code KEN-030
18	-9990K

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Overall Length	Type	Weight per 10	Cut 0	Cut 2	Cut 4
			Order Code KEN-031	Order Code KEN-031	Order Code KEN-031
140mm (5½")	Hand	80g	-5000K	-5020K	-5040K
	Round	75g	-5200K	-5220K	-5240K
	Half Round	75g	-5300K	-5320K	-5340K
	Square	80g	-5400K	-5420K	-5440K
	3 Square	70g	-5500K	-5520K	-5540K
	Taper Flat	70g	-	-5560K	-5570K
	Knife	70g	-5600K	-5620K	-5640K
	Pippin	75g	-	-5660K	-5670K
	Warding	70g	-5700K	-5720K	-5740K
	Slitting	80g	-	-5820K	-
	Crossing	75g	-	-5920K	-
	Barrette	80g	-	-	-
160mm (6½")	Hand	80g	-6000K	-6020K	-6040K
	Round	75g	-6200K	-6220K	-6240K
	Half Round	75g	-6300K	-6320K	-6340K
	Square	80g	-6400K	-6420K	-6440K
	3 Square	70g	-6500K	-6520K	-6540K
	Taper Flat	70g	-	-6560K	-
	Knife	70g	-6600K	-6620K	-6640K
	Warding	70g	-6700K	-6720K	-
	Slitting	80g	-	-6820K	-
	Crossing	75g	-	-6920K	-
	Barrette	80g	-	-6960K	-

Needle File Sets

Supplied in PVC wallet.
Manufactured to
BS 498:1990. Cut 2.

6 Piece Set (1 of each):

flat, hand,
half round,
round, square,
three square

6
PIECES

12 Piece Set (1 of each):

hand, flat,
knife, round,
half round,
square,
three square,
crossing, round edge joint,
slitting, warding, barrette.

12
PIECES



Number of Pieces	Weight each	Order Code KEN-031
14cm		
6	50g	-5980K
12	120g	-5990K
16cm		
6	70g	-6980K
12	150g	-6990K

SENATOR
QUALITY TOOLING

Needle File Sets

Supplied in PVC wallet.
Manufactured to
BS 498:1990. Cut 2.

6 Piece Set (1 of each):

warding, hand,
half round,
round, square,
three square.

6
PIECES

12 Piece Set (1 of each):

hand, flat,
knife, round,
half round,
square,
three square,
crossing, round edge joint,
slitting, warding, barrette.

12
PIECES



Number of Pieces	Weight each	Order Code SEN-031
16cm		
6	50g	-6980K
12	120g	-6990K



SENATOR
QUALITY TOOLING

Portable Bench Vice

Lightweight and portable with a swivel base and light duty anvil. Ideal for model makers, DIY and light industrial use. Can be fitted to any convenient work surface. Solid cast grey iron body with steel guide rods and main screw.



Opening (mm)	Jaw Width (mm)	Weight each	Order Code
70 (2¾")	60	2.8kg	SEN-445 -0600K



RIFFLER FILES

GROUP
031

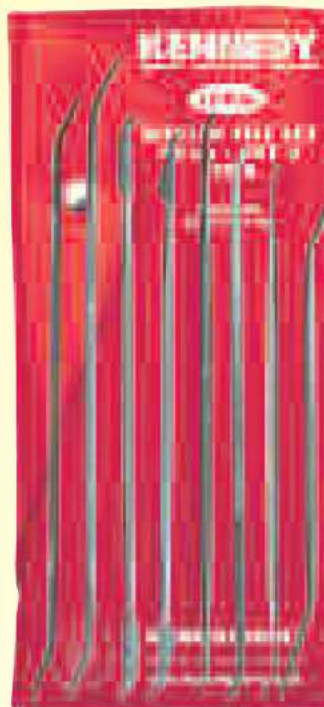
KENNEDY
QUALITY INDUSTRIAL TOOLING

Riffler File Set



Set A 15cm - Cut 2
Contents (1 of each):

900, 911, 914, 916, 918, 940, 952, 957, 981, 983, 985 and 987.



**12
PIECES**

Number of Pieces	Weight Set	Order Code
12	310g	KDY-031 -9110K

Set B 15cm - Cut 2
Contents (1 of each):

905, 913, 915, 917, 931, 943, 955, 963, 982, 984, 986 and 996.



**12
PIECES**

Number of Pieces	Weight Set	Order Code
12	310g	KDY-031 -9120K

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KENNEDY Milled Tooth
Hand Files

Manufactured from alloy steel and feature undercut teeth that produce a more aggressive cut than conventional files and requires less operator effort. Suitable for use on a wide variety of materials including aluminium, steels, alloys, brass, copper, wood, plastics etc. Available as standard cut in four blade lengths and two tooth forms. Other styles are available on request.

Please note: handles are not supplied as standard and should be ordered separately as required.

Straight Tooth


Overall Length	Weight per 10	Order Code KEN-032
200mm (8")	1.30kg	-2080K
255mm (10")	2.10kg	-2100K
305mm (12")	2.90kg	-2120K
355mm (14")	5.30kg	-2140K


Rasp Cut Files

Series of individual teeth which are formed by a single pointed tool. Produces a rough cut that is used primarily on wood, hooves, aluminium and lead.

Rasps

Designed for general use and best suited to softer materials such as wood, plastics, fillers, leather and lead.

Hand

Half Round

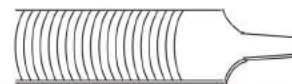
Round

Cabinet


Overall Length	Type	Weight per 10	Smooth	Second	Bastard
			Order Code KEN-032	Order Code KEN-032	Order Code KEN-032
150mm (6")	Hand	0.80kg	-	-3020K	-3030K
	Half Round	0.80kg	-3110K	-3120K	-3130K
	Round	0.80kg	-	-3220K	-
	Cabinet	1.10kg	-	-3320K	-3330K
200mm (8")	Hand	1.70kg	-3610K	-3620K	-3630K
	Half Round	1.50kg	-3710K	-3720K	-3730K
	Round	0.90kg	-	-	-3830K
	Cabinet	2.10kg	-	-	-3930K
255mm (10")	Hand	2.75kg	-4210K	-4220K	-4230K
	Half Round	2.65kg	-4310K	-4320K	-4330K
	Round	1.70kg	-4410K	-4420K	-4430K
	Cabinet	3.00kg	-	-4520K	-4530K
305mm (12")	Hand	4.60kg	-4810K	-4820K	-4830K
	Half Round	4.60kg	-	-4920K	-4930K
	Round	2.50kg	-	-5020K	-5030K
	Cabinet	4.00kg	-	-	-5130K

Curved Tooth Files
Curved Cut

Teeth are arranged in curved contours across the file face. Normally used in automotive body shops for smoothing body panels.



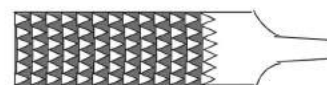
Overall Length	Weight per 10	Order Code KEN-032
200mm (8")	1.30kg	-1080K
255mm (10")	2.00kg	-1100K
305mm (12")	4.00kg	-1120K
355mm (14")	5.90kg	-1140K

Curved Tooth File Set

Contents: (1 of each) Flat, 200mm (8"), 255mm (10") and 305mm (12") standard cut.


**3
PIECES**

Number of Pieces	Weight each	Order Code KEN-032
3	765g	-1830K



Diamond Riffler & Needle File Set

14cm

Contains the most commonly used shapes, supplied in a vinyl wallet.

Contents:
1x of each needle file: flat, three square and slitting.

1x of each style riffler: 985, 911, 905, 940, 952, 961 and 963.

**10
PIECES**

 Number
of Pieces
10

 Order Code
SEN-033
-2700K

DIAMOND FILES

**GROUP
033**

Diamond Needle File Set

16cm

150 grain (medium grade). With tapered handles. Supplied in PVC wallet. Suitable for light duty and workshop use.

Contents: hand, half round, three square, round, square and knife.

**6
PIECES**

 Number
of Pieces
6

 Weight
each
115g

 Order Code
SEN-033
-0600K

Industrial Diamond Coated Needle Files

16cm

Available in seven shapes and two grain sizes offering the solution to finishing problems where material hardness makes conventional files ineffective. Plated with finely selected diamond powder, 120 - 150 mesh. Can be used on tungsten carbide, ceramics, carbon, glass, fibreglass and hardened steels such as stainless steel, nimonics, titanium etc.

Hand

Half Round

Three Square

Round

Square

Knife

Flat

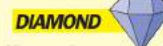

Type	Weight per 6	120/140 Grain	325/400 Grain
		Order Code KEN-033	Order Code KEN-033
Hand	70g	-0020K	-0220K
H/Round	60g	-0040K	-0240K
3 Square	60g	-0060K	-0260K
Round	60g	-0080K	-0280K
Square	60g	-0100K	-0300K
Knife	60g	-0120K	-0320K
Flat	60g	-0140K	-0340K



Diamond Needle File Set

16cm

120/140 grain.


Contents: hand, half round, three square, round, square and knife.

**6
PIECES**

 Number
of Pieces
6

 Weight
each
60g

 Order Code
KEN-033
-0500K
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KENNEDY Flexible Back Bi-metal
Hacksaw Blades

The perfect combination of shatter resistant spring steel, used as the backing material, and tough, wear-resistant HSS teeth - Electron-beam welded together. Ideal for interrupted cuts in cramped places or where the blade is subject to stress caused by twisting or bending. Provides optimum tooth strength/life and reduced breakage and fracture when compared to traditional all-hard blades.
Made to BS 1919 : Part 1: 1993.



Length	Width	Thickness	TPI	Weight per 100	Order Code KEN-040
10"	1/2"	.025	18T	1.50kg	-2130K
10"	1/2"	.025	24T	1.40kg	-2250K
10"	1/2"	.025	32T	1.40kg	-2320K
12"	1/2"	.025	14T	1.70kg	-2510K
12"	1/2"	.025	18T	1.70kg	-2630K
12"	1/2"	.025	24T	1.70kg	-2750K
12"	1/2"	.025	32T	1.70kg	-2870K

Group	Materials	Brinell Hardness HB	Rockwell Hardness HRC	Tensile Strength N/mm2	Number of Teeth per Inch Section thickness or diameter		
					Below 2mm	2 - 5 mm	Above 5mm
1.1	Mild steel	<200	-	<700	32	24	18
1.4 to 1.5	Alloy steel & tool steel low to medium	<260	<26	<850	32	24	18 - 24
1.6	High alloy steel	>340	>36	>1200	32	24	24
2.1	Stainless steels	<290	<30	<1000	32	24	28
3.1	Grey cast iron	<300	-	-	24 - 32	18 - 24	18
6.1	Asbestos and copper	-	-	<500	24 - 32	18 - 24	18
6.3	Brass and bronze	-	-	<500	24 - 32	18 - 24	18
7.1	Aluminium	-	-	<500	24 - 32	18 - 24	18
8.1	Hard plastic	-	-	-	24 - 32	18 - 24	18

HSS All Hard Hacksaw Blades

Fully hardened for extra long tooth life and maximum straightness of cut. For use where workpiece is held securely in place.
Made to BS 1919 : Part 1: 1993.



Length	Width	Thickness	TPI	Weight per 100	Order Code KEN-040
10"	1/2"	.025	18T	1.40kg	-3130K
10"	1/2"	.025	24T	1.40kg	-3250K
12"	1/2"	.025	14T	1.70kg	-3510K
12"	1/2"	.025	18T	1.70kg	-3630K
12"	1/2"	.025	24T	1.70kg	-3750K
12"	1/2"	.025	32T	1.70kg	-3870K



Flexible High Carbon Hacksaw Blades

For general cutting/sawing. Available in a choice of 18 and 24TPI.
Made to BS 1919 : Part 1: 1993.
Packs of 10.



Length	Width	Thickness	TPI	Weight per pack	Order Code SEN-040
12"	1/2"	.025	18T	200g	-2630K
12"	1/2"	.025	24T	200g	-2750K



Designed for use across a wide range of ferrous and non-ferrous materials.

Power Saw Blade Selection

Power Saw Hacksaw Blade Tooth Recommendations

TPI	Suitable for Section Width
18	up to 13mm (up to 1/2")
14	6 to 19mm (1/4" to 3/4")
10	8 to 25mm (5/16" to 1")
6	13 to 38mm (1/2" to 1 1/2")
4	19mm and above (3/4" and above)

Type of Machine	Coolant Required	Unannealed Tool Steel & Hard Metals	Annealed Tool Steel	Machinery Steel & Soft Metal
Light	No	40spm	50 - 60spm	50-60spm
Medium	No	40spm	50 - 60spm	50-60spm
Medium	Yes	60spm	60 - 90spm	100-110spm
Heavy	Yes	60spm	90spm	110-120spm
Ex. Heavy	Yes	60spm	90spm	110-120spm

18 Teeth Per Inch

Recommended for cutting thin cross-sections such as tubing, small bars and light angle iron. Because blades are relatively thin they should be used only on light machines.

10 - 14 Teeth Per Inch

Recommended for cutting small cross sections and hard stock. This is the most popular choice for machine shops that are cutting a wide variety of materials.

4 - 6 Teeth Per Inch

Recommended for cutting large sections of softer ferrous metals, most alloy steels and all non-ferrous metals. The increased gullet clearance is able to handle heavy chips without clogging.

Operating Recommendations

Lower speeds and higher feed give best results. Ensure that the machine lifts the blade slightly on the return stroke. Exact speed and feed for each job can be established only from tests. The table below is to be used for guidance only.

When matching a section thickness against a suitable Blade TPI there are usually a number of blade options - Use coarse pitches (less TPI) for faster cutting and finer pitches (more TPI) for better surface finishes.

HACKSAW & POWERSAW BLADES

**GROUP
040**

HSS All Hard Power Saw Blades

Recommended for cutting thin cross-sections such as tubing, small bars and light angle iron. Because blades are relatively thin they should be used only on light machines.



Length	Width	Thickness	TPI	Weight per 10	Order Code KEN-040
12"	5/8"	.032"	18T	0.36kg	-4630K
12"	1"	.050"	10T	0.78kg	-5030K
12"	1"	.050"	14T	0.79kg	-5040K
14"	1"	.050"	10T	0.93kg	-5130K
14"	1"	.050"	14T	0.80kg	-5140K
14"	1 1/4"	.062"	6T	1.30kg	-5200K
14"	1 1/4"	.062"	10T	1.30kg	-5220K
14"	1 1/4"	.062"	14T	1.30kg	-5230K
16"	1 1/4"	.062"	6T	1.40kg	-5390K
16"	1 1/4"	.062"	10T	0.90kg	-5410K
16"	1 1/4"	.062"	14T	1.60kg	-5420K
16"	1 1/2"	.062"	4T	2.20kg	-5490K
16"	1 1/2"	.062"	6T	2.20kg	-5500K
17"	1 1/4"	.062"	10T	1.80kg	-5530K
18"	1 1/4"	.062"	6T	1.90kg	-5550K
18"	1 1/4"	.062"	10T	1.60kg	-5570K
18"	1 1/2"	.075"	6T	2.55kg	-5650K
19"	1 3/4"	.088"	6T	3.80kg	-5720K
20"	1 1/2"	.075"	6T	3.20kg	-5750K
21"	1 1/2"	.075"	6T	3.00kg	-5770K
21"	1 1/2"	.075"	10T	3.00kg	-5790K
21"	1 3/4"	.088"	6T	5.30kg	-5820K
24"	2"	.100"	6T	6.30kg	-5960K

Speeds & Feeds - Recommended speeds, strokes per minute and TPI.

Group	Materials	Brinell Hardness HB	Rockwell Hardness HRC	Tensile Strength N/mm ²	Cutting Speed m/min	Strokes Per Min	Section Thickness or diameter-Recommended TPI			
							Below 10mm	10-40 mm	40-80 mm	Above 80mm
1.1 to 1.2	General purpose steels mild and structural	<200	-	<700	25 - 35	70 - 90	14	10 - 6	6 - 4	4
1.3	Non-alloy, plain and medium carbon steels and castings	<260	<26	<850	20 - 30	50 - 70	14	10 - 6	6 - 4	4 - 3
1.4	Alloy steels generally low to medium steels and castings	<260	<26	<850	20 - 30	50 - 70	14	10 - 6	6 - 4	4 - 3
1.5	Medium to high alloy steels tool steels and steel castings	>260 <340	>26 <36	>850 <1200	18 - 28	40 - 60	14	10 - 6	6 - 4	4 - 3
1.6	Heat treated high alloy steels and castings	>340 <450	>36 <48	>1200 <1500	15 - 25	30 - 45	14	10 - 6	6 - 4	4 - 3
2.1 to 2.3	Stainless steels free machine and austenitic	<290	<30	<1000	10 - 25	40 - 60	14	10 - 6	6 - 4	4 - 3
3.1 to 3.2	Grey cast iron	<300	-	-	30 - 40	70 - 90	14	10 - 6	6 - 4	4 - 3
3.3 to 3.4	S.G. iron nodular and malleable	<300	-	-	30 - 40	70 - 90	14	10 - 6	6 - 4	4 - 3
6.1 to 6.3	Non ferrous metals brass, copper and bronze	-	-	<800	40 - 60	80 - 115	14	10 - 6	6 - 4	4 - 3
7.1 to 7.4	Aluminium alloys to zinc and magnesium	-	-	<50	40 - 60	80 - 115	14 - 10	10 - 6	6 - 4	4 - 3

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HSS Threaded Shank Woodruff Cutters

HSS

12mm/1/2" Shank Ø

Produces closed slots for woodruff keys to **DIN 6888**.

For milling structural, carburising and heat treated steel up to 900N/mm².

Manufactured to **BS 122 : Part 4 : 1980**.

Made to **DIN 850**. Shank to **DIN 1835/D**.



Metric Limits of Tolerances

Diameter	+ 0.000	-0.127
Width		
2 up to 4	- 0.014	-0.028
4 up to 7	- 0.020	-0.038
7mm up	- 0.025	-0.047

Inch Limits of Tolerance

Diameter	+0.015"	-0.100"
Width	+0.000"	-0.001"



Metric Sizes

Diameter (mm)	Width (mm)	Overall Length (mm)	Weight each	Order Code SHR-061
10.5	2.0	57.0	44g	-6500A
10.5	3.0	57.0	44g	-6502C
13.5	2.5	57.0	44g	-6504E
13.5	3.0	57.0	45g	-6505F
13.5	4.0	57.0	45g	-6506G
16.5	3.0	57.0	46g	-6508J
16.5	4.0	57.0	46g	-6509K
16.5	5.0	57.0	46g	-6510L
19.5	3.0	57.0	46g	-6511M
19.5	4.0	57.0	46g	-6512N
19.5	5.0	57.0	50g	-6513P
19.5	6.0	57.0	51g	-6514C
22.5	4.0	63.5	55g	-6514Q
22.5	6.0	63.5	59g	-6516S
25.5	6.0	70.0	67g	-6518V
25.5	8.0	70.0	73g	-6520X
28.5	5.0	70.0	69g	-6521Y
32.5	6.0	70.0	81g	-6527D

HSS Threaded Shank T-Slot Cutters

HSS

Used for machining T-slots on slide tables, fixtures etc. to **DIN 650**. For milling structural, carburising and heat treated steel up to 900N/mm². Sizes up to 16mm and 1/2" have six flutes and 18mm and 5/8" upwards have eight flutes.

Made to **DIN 851**. Shank to **DIN 1835/D**.

Flute form 12° RH/LH

Metric Limits of Tolerance

Diameter	+0.13 - 0.13
Length	+0.13 - 0.13

Inch Limits of Tolerance

Diameter	+0.005" - 0.005"
Length	+0.005" - 0.005"



Metric Sizes

Bolt Size	Head Depth (mm)	Diameter (mm)	Overall Length (mm)	Weight each	Order Code SHR-061
M6.0	6.0	12.5 10.0 5.0	57.0	36g	-6550A
M8.0	8.0	16.0 10.0 6.5	62.0	41g	-6551B
M10.0	8.0	18.0 12.0 8.0	65.0	50g	-6552C
M12.0	10.0	22.0 12.0 10.0	74.0	52g	-6553D
M14.0	11.0	25.0 16.0 12.0	82.0	84g	-6554E
M16.0	12.0	28.0 16.0 13.0	85.0	159g	-6555F
M18.0	14.0	32.0 25.0 15.0	90.0	347g	-6556G
M20.0	16.0	36.0 25.0 17.0	103.0	298g	-6557H

HSS Plain Shank Woodruff Cutters

12mm/1/2" Shank Ø

Produces closed slots for woodruff keys to **DIN 6888**. For milling structural, carburising and heat treated steel up to 900N/mm².

Manufactured to **BS 122 : Part 4 : 1980**.

Made to **DIN 850**.

Metric Limits of Tolerances

Diameter	+ 0.000	-0.127
Width		
2 up to 4	- 0.014	-0.028
4 up to 7	- 0.020	-0.038
7mm up	- 0.025	-0.047



Metric Sizes

Diameter (mm)	Width (mm)	Overall Length (mm)	Weight each	Order Code SHR-061
10.5	2.0	57.0	44g	-4500A
10.5	3.0	57.0	44g	-4502C
13.5	2.5	57.0	44g	-4504E
13.5	3.0	57.0	45g	-4505F
13.5	4.0	57.0	45g	-4506G
16.5	3.0	57.0	46g	-4508J
16.5	4.0	57.0	46g	-4509K
16.5	5.0	57.0	46g	-4510L
19.5	3.0	57.0	46g	-4511M
19.5	4.0	57.0	46g	-4512N
19.5	5.0	57.0	50g	-4513P
19.5	6.0	57.0	51g	-4514C
22.5	4.0	63.5	55g	-4514Q
22.5	6.0	63.5	59g	-4516S
25.5	6.0	70.0	67g	-4518V
25.5	8.0	70.0	73g	-4520X
28.5	5.0	70.0	69g	-4521Y
32.5	6.0	70.0	81g	-4527D

HSS Plain Shank T-Slot Cutters

HSS

Used for machining T-slots on slide tables, fixtures etc. to **DIN 650**. For milling structural, carburising and heat treated steel up to 900N/mm². Sizes up to 16mm and 1/2" have six flutes and 18mm and 5/8" upwards have eight flutes.

Made to **DIN 851**.

Flute form 12° RH/LH

Metric Limits of Tolerance

Diameter	+0.13 - 0.13
Length	+0.13 - 0.13



Metric Sizes

Bolt Size	Head Depth (mm)	Diameter (mm)	Overall Length (mm)	Weight each	Order Code SHR-061
M6.0	6.0	12.5 10.0 5.0	57.0	36g	-4550A
M8.0	8.0	16.0 10.0 6.5	62.0	41g	-4551B
M10.0	8.0	18.0 12.0 8.0	65.0	50g	-4552C
M12.0	10.0	22.0 12.0 10.0	74.0	52g	-4553D
M14.0	11.0	25.0 16.0 12.0	82.0	84g	-4554E
M16.0	12.0	28.0 16.0 13.0	85.0	159g	-4555F
M18.0	14.0	32.0 25.0 15.0	90.0	347g	-4556G
M20.0	16.0	36.0 25.0 17.0	103.0	298g	-4557H



HSS

HSS Threaded Shank Dovetail Cutters (Single Angle Cutters)

Designed to produce dovetail slideways in machine tool tables, jigs and fixtures. Bright finish, straight helix. Made to **DIN 1833**. Shank to **DIN 1835D**.

Metric Limits of Tolerance	Inch Limits of Tolerance
+0.25 - 0.00	+0.010 - 0.000

45° Corner Angle - Metric (Fo C)



Diameter (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Order Code SHR-061
13.0	3.0	12.0	63.5	6	-6200A
16.0	4.0	12.0	66.5	6	-6201B
19.0	5.5	12.0	66.5	6	-6202C
25.0	7.5	12.0	70.0	8	-6204E
32.0	8.5	16.0	74.5	8	-6206G

60° Corner Angle - Metric (Fo C)



Diameter (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Order Code SHR-061
13.0	4.0	12.0	63.5	6	-6150A
16.0	5.5	12.0	66.5	6	-6151B
19.0	7.0	12.0	66.5	6	-6152C
25.0	12.0	12.0	70.0	8	-6154E
32.0	13.5	16.0	74.5	8	-6156G

45° Inverted - Metric (Fo D)



Diameter (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Order Code SHR-061
13.0	3.0	12.0	63.5	6	-6039K
16.0	4.0	12.0	66.5	6	-6039Y
20.0	6.0	12.0	63.0	6	-6040K
25.0	7.5	12.0	70.0	6	-6041G
32.0	8.5	16.0	74.5	8	-6041V

60° Inverted - Metric (Fo D)



Diameter (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Order Code SHR-061
13.0	4.0	12.0	63.5	6	-6036B
16.0	5.5	12.0	66.5	6	-6036H
25.0	12.0	12.0	70.0	6	-6037Q
32.0	13.5	16.0	74.5	8	-6038J N/A

HSS Threaded Shank Corner Rounding Cutters

Designed to produce convex corner radii. For milling structural, carburizing and heat treated steel up to 900N/mm². Manufactured to works standards. 5° RH Flutes. Bright finish, straight helix. Radii tolerance: $\pm 0.005"$. Shank to **DIN 1835/D**.

HSS



Metric Sizes

Radius (mm)	Head Dia. (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Weight each	Order Code SHR-061
2.0	12.0	12.0	60.5	4	50g	-6408Z
3.0	12.0	12.0	60.5	4	50g	-6410A
4.0	14.0	12.0	60.5	4	54g	-6411B
5.0	16.0	16.0	60.5	4	86g	-6412C
6.0	22.0	16.0	63.5	4	109g	-6413D
8.0	25.0	25.0	73.0	4	250g	-6414E
10.0	28.0	25.0	79.5	4	272g	-6415F
12.0	35.0	25.0	82.5	4	325g	-6416G

HSS Plain Shank Corner Rounding Cutters

HSS

Designed to produce convex corner radii. For milling structural, carburising and heat treated steel up to 900N/mm². Manufactured to works standards. 5° RH Flutes. Bright finish, straight helix. Radii tolerance: $\pm 0.005"$.



Metric Sizes

Radius (mm)	Head Dia. (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Weight each	Order Code SHR-061
2.0	12.0	12.0	60.5	4	50g	-4408Z
3.0	12.0	12.0	60.5	4	50g	-4410A
4.0	14.0	12.0	60.5	4	54g	-4411B
5.0	16.0	16.0	60.5	4	86g	-4412C
6.0	22.0	16.0	63.5	4	109g	-4413D
8.0	25.0	25.0	73.0	4	250g	-4414E
10.0	28.0	25.0	79.5	4	272g	-4415F
12.0	35.0	25.0	82.5	4	325g	-4416G

HSS Plain Shank Dovetail Cutters (Single Angle Cutters)

Designed to produce dovetail slideways in machine tool tables, jigs and fixtures. Bright finish, straight helix. Made to **DIN 1833**.

Ø Tolerances	
Metric	Inch
+0.25 - 0.00	+0.010 - 0.000

HSS

45° Corner Angle - Metric (Fo C)



Diameter (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Order Code SHR-061
13.0	3.0	12.0	63.5	6	-4200A
16.0	4.0	12.0	66.5	6	-4201B
19.0	5.5	12.0	66.5	6	-4202C
20.0	5.5	12.0	62.0	6	-4202P
25.0	7.5	12.0	70.0	8	-4204E
32.0	8.5	16.0	74.5	8	-4206G

60° Corner Angle - Metric (Fo C)



Diameter (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)	Number of Teeth	Order Code SHR-061
13.0	4.0	12.0	63.5	6	-4150A
16.0	5.5	12.0	66.5	6	-4151B
19.0	7.0	12.0	66.5	6	-4152C
20.0	8.0	12.0	63.0	6	-4152P
25.0	12.0	12.0	70.0	8	-4154E
32.0	13.5	16.0	74.5	8	-4156G

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**Plain Shank Milling Cutters 2 Flute**

Centre cutting, used for profile milling, milling keyways and producing open slots.
Surface treatment: bright finish.
Flute helix 30°. Dimensions to **DIN 844**.
Plain shank to **DIN 1835A**.

HSS-Co**Regular Length**

Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
3.00	8	52	6	-3803A
4.00	11	55	6	-3804B
5.00	13	57	6	-3805C
6.00	13	57	6	-3806D
7.00	16	66	10	-3807E
8.00	19	69	10	-3808F
10.00	22	72	10	-3810H
12.00	26	83	12	-3812K
14.00	26	83	16	-3814M
16.00	32	92	16	-3816P
18.00	32	92	16	-3818R
20.00	38	104	20	-3820S
22.00	38	104	20	-3822T
25.00	45	121	25	-3825V

Long Series

Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
3.00	12	56	6	-3955C
4.00	19	63	6	-3957E
5.00	24	68	6	-3959G
6.00	24	68	6	-3961J
8.00	38	88	10	-3962K
10.00	45	95	10	-3963L
12.00	53	110	12	-3964M
14.00	53	110	12	-3965N
16.00	63	123	16	-3966P
20.00	75	141	20	-3968R

Plain Shank Milling Cutters 2 Flute Ball Nose

Centre cutting, used for profile milling, milling keyways and producing open slots.
Surface treatment: bright finish.
Flute helix 30°. Dimensions to **DIN 844**.
Plain shank to **DIN 1835A**.

HSS-Co**Regular Length**

Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
3.00	5	49	6	-3982C
4.00	7	51	6	-3984E
5.00	8	52	6	-3986G
6.00	8	52	6	-3988J
8.00	11	61	10	-3992N
10.00	13	63	10	-3996S
12.00	16	73	12	-3998V
14.00	16	73	12	-4000X
16.00	19	79	16	-4002Z
18.00	19	79	16	-4004B
20.00	22	88	20	-4006D
22.00	22	88	20	-4008F
25.00	26	102	25	-4011J

Plain Shank Milling Cutters 4 Flute

Centre cutting, used for profile milling, milling keyways and producing open slots.
Flute helix 30°. Dimensions to **DIN 844**.
Plain shank to **DIN 1835A**.

**HSS-Co****Regular Length**

Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
3.00	8	52	6	-3703A
3.50	11	55	6	-3703F
4.00	11	55	6	-3704B
4.50	13	57	6	-3704G
5.00	13	57	6	-3705C
5.50	13	57	6	-3705H
6.00	13	57	6	-3706D
6.50	19	69	10	-3706J
7.00	19	69	10	-3707E
7.50	19	69	10	-3707K
8.00	19	69	10	-3708F
8.50	22	72	10	-3708L
9.00	22	72	10	-3709Q
9.50	22	72	10	-3709W
10.00	22	72	10	-3710G
10.50	22	79	12	-3710N
11.00	22	79	12	-3711V
12.00	26	83	12	-3712H
13.00	26	83	12	-3713J
14.00	26	83	12	-3714J
15.00	32	92	16	-3715K
16.00	32	92	16	-3716L
17.00	32	92	16	-3717V
18.00	32	92	16	-3718M
19.00	32	92	16	-3719V
20.00	38	104	20	-3720N
22.00	38	104	20	-3722P
25.00	45	121	25	-3725R
26.00	45	121	25	-3726S
28.00	45	121	25	-3728V
30.00	45	121	25	-3730X

Long Series

Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
3.00	12	56	6	-3873A
4.00	19	63	6	-3875C
5.00	24	68	6	-3877E
6.00	24	68	6	-3879G
7.00	38	88	10	-3879M
8.00	38	88	10	-3880H
9.00	38	88	10	-3880V
10.00	45	95	10	-3881J
11.00	53	110	12	-3881P
12.00	53	110	12	-3882K
13.00	53	110	12	-3882Q
14.00	53	110	12	-3883K
15.00	63	123	16	-3883Q
16.00	63	123	16	-3884M
18.00	63	123	16	-3885N
20.00	75	141	20	-3886P
22.00	75	141	20	-3888Q
25.00	90	166	25	-3891T

2 Flute End Mills (Slot Drills)

Threaded Shank

Used for milling keyways and slots. Bright finish. Flute type: 30° helix. Manufactured to **BS 122 : Part 4 : 1980**. Tolerances as below

Short Series S210T

HSS


Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code
2.00	4.0	48.0	6.0	-5601B
2.50	5.0	49.0	6.0	-5602C
3.00	5.0	49.0	6.0	-5603D
3.50	6.0	50.0	6.0	-5604E
4.00	7.0	51.0	6.0	-5605F
4.50	7.0	51.0	6.0	-5606G
5.00	8.0	52.0	6.0	-5607H
5.50	8.0	52.0	6.0	-5608J
6.00	8.0	52.0	6.0	-5609K
6.50	10.0	60.0	10.0	-5610L
7.00	10.0	60.0	10.0	-5611M
7.50	10.0	60.0	10.0	-5612N
8.00	11.0	61.0	10.0	-5613P
8.50	11.0	61.0	10.0	-5614Q
9.00	11.0	61.0	10.0	-5615R
9.50	11.0	61.0	10.0	-5616S
10.00	13.0	63.0	10.0	-5617T
10.50	13.0	70.0	12.0	-5618V
11.00	13.0	70.0	12.0	-5619W
11.50	13.0	70.0	12.0	-5620X
12.00	16.0	73.0	12.0	-5621Y
13.00	16.0	73.0	12.0	-5622Z
14.00	16.0	73.0	12.0	-5624A
15.00	16.0	73.0	16.0	-5625B
16.00	19.0	79.0	16.0	-5626C
17.00	19.0	79.0	16.0	-5627D
18.00	19.0	79.0	16.0	-5628E
19.00	19.0	79.0	16.0	-5629F
20.00	22.0	82.0	16.0	-5630G
21.00	22.0	88.0	25.0	-5631H
22.00	22.0	88.0	25.0	-5632J
23.00	22.0	88.0	25.0	-5633K
24.00	26.0	102.0	25.0	-5634L
25.00	26.0	102.0	25.0	-5635M
26.00	26.0	102.0	25.0	-5636N
27.00	26.0	102.0	25.0	-5637P
28.00	26.0	102.0	25.0	-5638Q
29.00	26.0	102.0	25.0	-5639R
30.00	26.0	102.0	25.0	-5640S
32.00	32.0	112.0	25.0	-5641T

Long Series 5230T

HSS


Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code
2.00	3.0	51.0	6.0	-5800A
2.50	6.5	54.0	6.0	-5801B
3.00	11.0	60.5	6.0	-5802C
3.50	12.5	66.5	6.0	-5803D
4.00	12.5	66.5	6.0	-5804E
4.50	12.5	66.5	6.0	-5805F
5.00	12.5	70.0	6.0	-5806G
5.50	16.0	76.0	6.0	-5807H
6.00	16.0	76.0	6.0	-5808J
6.50	16.0	76.0	10.0	-5809K
7.00	16.0	76.0	10.0	-5810L
7.50	16.0	76.0	10.0	-5811M
8.00	19.0	79.5	10.0	-5812N
8.50	22.0	82.5	10.0	-5813P
9.00	22.0	82.5	10.0	-5814Q
9.50	22.0	82.5	10.0	-5815D
10.00	22.0	82.5	10.0	-5815R
11.00	22.0	89.0	12.0	-5816S
12.00	25.5	95.0	12.0	-5817T
13.00	25.5	95.0	12.0	-5818V
14.00	28.5	101.5	12.0	-5819W
15.00	31.5	108.0	16.0	-5820X
16.00	31.5	108.0	16.0	-5821Y
17.00	35.0	114.5	16.0	-5822Z
18.00	35.0	114.5	16.0	-5824A
19.00	38.0	120.5	16.0	-5825B
20.00	38.0	120.5	16.0	-5826C
22.00	41.5	140.0	25.0	-5827D
24.00	41.5	152.5	25.0	-5828E
26.00	44.5	159.0	25.0	-5830G
25.00	44.5	159.0	25.0	-5829F
30.00	51.0	159.0	25.0	-5832J
32.00	51.0	159.0	25.0	-5833K

Multi Flute End Mills

Threaded Shank

Used for diesinking, slot milling and profile milling. Bright finish. Flute type: 30° helix. Manufactured to **BS 122 : Part 4 : 1980**. Tolerances as below

Short Series E410T

HSS


Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code
4 Flute				
2.00	4.0	51.0	6.0	-5100A
2.50	6.5	51.0	6.0	-5101B
3.00	9.5	54.0	6.0	-5102C
3.50	12.5	57.0	6.0	-5103D
4.00	12.5	57.0	6.0	-5104E
4.50	12.5	57.0	6.0	-5105F
5.00	16.0	60.5	6.0	-5106G
5.50	16.0	60.5	6.0	-5107H
6.00	16.0	60.5	6.0	-5108J
6.50	16.0	60.5	10.0	-5109K
7.00	15.0	60.5	10.0	-5110L
7.50	18.0	63.5	10.0	-5111M
8.00	18.0	63.5	10.0	-5112N
8.50	21.0	66.5	10.0	-5113P
9.00	21.0	66.5	10.0	-5114Q
9.50	21.0	66.5	10.0	-5115R
10.00	21.0	66.5	10.0	-5116S
10.50	19.0	66.5	12.0	-5117T
11.00	19.0	66.5	12.0	-5118V
11.50	22.5	70.0	12.0	-5119W
12.00	24.0	70.0	12.0	-5120X
13.00	24.5	70.0	16.0	-5121Y
14.00	28.5	73.5	16.0	-5122N
15.00	26.5	77.0	16.0	-5123A
16.00	26.5	80.0	16.0	-5124B
17.00	32.0	80.0	16.0	-5125C
18.00	35.0	88.0	16.0	-5126D
19.00	38.0	83.5	16.0	-5127E
20.00	38.0	83.5	16.0	-5128F
6 Flute				
21.00	38.5	95.0	25.0	-5129G
22.00	41.5	98.5	25.0	-5130H
23.00	41.5	98.5	25.0	-5131J
24.00	41.5	98.5	25.0	-5132K
25.00	41.5	101.5	25.0	-5133L
26.00	43.0	101.5	25.0	-5134M
27.00	44.0	102.0	25.0	-5135A
28.00	46.0	104.5	25.0	-5135N
30.00	46.0	104.5	25.0	-5136P
32.00	46.0	108.0	25.0	-5137Q

Long Series E430T

HSS


Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code
4 Flute				
3.00	19.0	63.5	6.0	-5401A
3.50	25.5	70.0	6.0	-5402B
4.00	25.5	70.0	6.0	-5403C
4.50	31.5	70.0	6.0	-5404D
5.00	31.5	76.0	6.0	-5405E
5.50	31.5	76.0	6.0	-5406F
6.00	35.0	76.0	6.0	-5407G
6.50	34.0	79.5	10.0	-5408H
7.00	34.0	79.5	10.0	-5409J
7.50	34.0	79.5	10.0	-5410K
8.00	34.0	79.5	10.0	-5411L
8.50	37.0	82.5	10.0	-5412M
9.00	37.0	82.5	10.0	-5413N
10.00	37.0	82.5	10.0	-5414P
11.00	41.5	89.0	12.0	-5415Q
12.00	49.5	95.0	12.0	-5416R
13.00	50.0	95.0	12.0	-5417S
14.00	57.0	101.5	12.0	-5418T
15.00	58.5	108.5	16.0	-5419V
16.00	58.5	108.5	16.0	-5420W
17.00	67.0	115.0	16.0	-5421X
18.00	70.0	115.0	16.0	-5422Y
19.00	76.0	121.5	16.0	-5423N
20.00	76.0	121.5	16.0	-5424A
6 Flute				
22.00	85.5	143.0	25.0	-5425B
24.00	92.0	149.0	25.0	-5426C
25.00	100.0	157.0	25.0	-5427D
26.00	98.5	157.0	25.0	-5428E
30.00	98.5	157.0	25.0	-5430G
32.00	100.0	159.0	25.0	-5431H

SHANK MILLING CUTTERS

GROUP 061


Ball Nose 2 Flute End Mills (Slot Drills)

Threaded Shank

Used for diesinking, slot milling and profile milling. Bright finish. Flute type: 30° helix. Manufactured to **BS 122 : Part 4 : 1980**. Tolerances as below

Short Series B210T

HSS


Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code
2.00	3.0	49.0	6.0	-5950A
2.50	4.5	51.0	6.0	-5951B
3.00	7.0	51.0	6.0	-5952C
4.00	9.5	52.5	6.0	-5953D
5.00	9.5	52.5	6.0	-5954E
6.00	11.0	56.5	6.0	-5955F
6.50	11.0	56.5	6.0	-5955R
7.00	11.0	58.5	10.0	-5956G
8.00	12.5	58.5	10.0	-5957H
9.00	14.5	58.5	10.0	-5958J
10.00	14.5	60.5	10.0	-5959K
11.00	17.5	65.0	12.0	-5960L
12.00	19.0	66.5	12.0	-5961M
13.00	19.0	66.5	12.0	-5962N
14.00	22.0	68.5	12.0	-5963P
15.00	22.0	72.0	16.0	-5964Q
16.00	22.0	72.0	16.0	-5965R
17.00	24.0	73.0	16.0	-5966S
18.00	24.0	74.0	16.0	-5967T
19.00	25.5	77.0	16.0	-5968V
20.00	25.5	77.0	16.0	-5969W
22.00	25.5	100.0	25.0	-5970X
24.00	25.5	103.0	25.0	-5971Y
25.00	28.5	97.0	25.0	-5972Z
30.00	30.0	93.5	25.0	-5976C

Long Series Type B230T

HSS


Dia. (mm)	Flute Length	Overall Length	Shank Dia.	Order Code
3.00	11.0	60.5	6.0	-5935A
4.00	12.5	66.5	6.0	-5935M
5.00	12.5	70.0	6.0	-5936B
6.00	16.0	76.0	6.0	-5936N
8.00	19.0	79.5	10.0	-5937P
10.00	22.0	82.5	10.0	-5938Q
11.00	22.0	89.0	12.0	-5939R
12.00	25.5	95.0	12.0	-5939S
14.00	28.5	101.5	12.0	-5940S
15.00	31.5	108.0	16.0	-5941G
16.00	31.5	108.0	16.0	-5941T
18.00	35.0	114.5	16.0	-5942V
20.00	38.0	120.5	16.0	-5943W
25.00	44.5	159.0	25.0	-5945L

Diameter Metric	Tolerance +	Tolerance -
up to 3.00	0.013	0.033
Over 3.00 ~ up to 6.00	0.020	0.038
Over 6.00 ~ up to 10.00	0.025	0.046
Over 10.00 ~ up to 18.00	0.033	0.058
Over 18.00 ~ up to 30.00	0.041	0.071
Over 30.00	0.051	0.089

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR


HSS-Co 5% Threaded Shank Slot Drills

Flute helix 30°.

Manufactured to BS 122:4

HSS-Co 5%
Short Series


Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
1.50	2.5	48.5	6.0	-5664A
2.00	3.0	49.0	6.0	-5665B
2.50	4.5	51.0	6.0	-5666C
3.00	7.0	51.0	6.0	-5667D
3.50	7.5	52.5	6.0	-5668E
4.00	9.5	52.5	6.0	-5669F
5.00	9.5	52.5	6.0	-5671H
5.50	11.0	55.5	6.0	-5672J
6.00	11.0	56.5	6.0	-5673K
6.50	11.0	58.5	10.0	-5674A
7.00	11.0	58.5	10.0	-5674L
7.50	11.0	58.5	10.0	-5675B
8.00	12.5	59.5	10.0	-5675M
8.50	14.5	60.5	10.0	-5676C
9.00	14.5	60.5	10.0	-5676N
9.50	14.5	60.5	10.0	-5677D
10.00	14.5	60.5	10.0	-5677P
10.50	17.5	65.0	12.0	-5678E
11.00	17.5	65.0	12.0	-5678Q
12.00	19.0	66.5	12.0	-5679R
13.00	19.0	66.5	12.0	-5680G
14.00	22.0	68.5	12.0	-5680S
15.00	22.0	72.0	16.0	-5681H
16.00	22.0	72.0	16.0	-5681T
17.00	24.0	72.0	16.0	-5682J
18.00	24.0	72.0	16.0	-5682V
19.00	25.5	77.0	16.0	-5683K
20.00	25.5	77.0	16.0	-5683W
25.00	27.0	95.0	25.0	-5686A
30.00	30.0	93.5	25.0	-5688C

Long Series Type S231T


Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
3.00	11.0	60.5	6.0	-5855C
4.00	12.5	66.5	6.0	-5857E
5.00	12.5	70.0	6.0	-5859G
6.00	16.0	76.0	6.0	-5861J
6.50	16.0	76.0	10.0	-5861S
7.00	16.0	76.0	10.0	-5862A
8.00	19.0	79.5	10.0	-5862K
9.00	22.0	82.5	10.0	-5863B
10.00	22.0	82.5	10.0	-5863L
11.00	22.0	82.5	12.0	-5863V
12.00	25.5	95.0	12.0	-5864M
14.00	28.5	101.5	12.0	-5865N
15.00	31.5	108.0	16.0	-5865X
16.00	31.5	108.0	16.0	-5866P
18.00	35.0	114.5	16.0	-5867Q
20.00	38.0	120.5	16.0	-5868R

HSS-Co 5% Threaded Shank Slot Drills 3 Flute

Bright finish. Flute helix 30°.

Manufactured to BS 122: Part 4: 1980.

Regular Series Type 5321T


Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
3.00	9.5	54.0	6.0	-6021A
3.50	12.5	57.0	6.0	-6021C
4.00	12.5	57.0	6.0	-6021E
4.50	12.5	57.0	6.0	-6021G
5.00	16.0	60.5	6.0	-6021J
5.50	16.0	60.5	6.0	-6021L
6.00	16.0	60.5	6.0	-6021N
8.00	19.0	63.5	10.0	-6021Q

HSS-Co 5% Threaded Shank End Mills

Used for profile milling and producing open slots.

Bright finish. Flute helix 30°.

Manufactured to BS 122 : Part 4 : 1980.

HSS-Co 5%

Regular Series Type E411T


Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
2 Flute				
1.50	2.5	51.0	6.0	-5184Y
4 Flute				
2.00	4.0	51.0	6.0	-5185A
2.50	6.5	51.0	6.0	-5186B
3.00	9.5	54.0	6.0	-5187C
4.00	12.5	57.0	6.0	-5189E
5.00	16.0	60.5	6.0	-5191G
6.00	16.0	60.5	6.0	-5193J
6.50	16.0	60.5	10.0	-5193R
7.00	15.0	60.5	10.0	-5193X
8.00	18.0	63.5	10.0	-5194K
8.50	21.0	66.5	10.0	-5194S
9.00	21.0	66.5	10.0	-5194Y
9.50	21.0	66.5	10.0	-5195D
10.00	21.0	66.5	10.0	-5195L
11.00	19.0	66.5	12.0	-5195Z
12.00	24.0	70.0	12.0	-5196M
13.00	24.5	70.0	12.0	-5197F
14.00	28.5	73.5	12.0	-5197N
15.00	26.5	77.0	16.0	-5198G
16.00	26.5	80.0	16.0	-5198P
17.00	32.0	80.0	16.0	-5199H
18.00	35.0	88.0	16.0	-5199Q
19.00	38.0	83.5	16.0	-5200J
20.00	38.0	84.5	16.0	-5200R
6 Flute				
25.00	41.5	101.5	25.0	-5202T
30.00	46.0	104.5	25.0	-5204W
32.00	46.0	108.0	25.0	-5205X

Long Series Type E431T


Dia. (mm)	Flute Length (mm)	Overall Length (mm)	Shank Dia. (mm)	Order Code SHR-061
4 Flute				
3.00	19.0	63.5	6.0	-5473A
4.00	25.5	70.0	6.0	-5475C
5.00	31.5	76.0	6.0	-5477E
6.00	31.5	76.0	6.0	-5479G
8.00	34.0	79.5	10.0	-5480H
10.00	37.0	82.5	10.0	-5481J
12.00	49.5	95.0	12.0	-5482K
14.00	57.0	101.5	12.0	-5483L
16.00	58.5	108.5	16.0	-5484M
18.00	70.0	115.0	16.0	-5485N
20.00	76.0	121.5	16.0	-5486P
6 Flute				
25.00	100.0	157.0	25.0	-5488R

HSS-Co 5%
