

GROUP 010 BUTT WELDED TOOLS



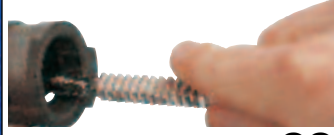
Page **32**

GROUP 016 DIE HEADS & CHASERS



Page **33**

GROUP 017 THREAD RESTORERS



Page **33**

GROUP 019 SHEET & TUBE DRILLS



Page **34**

GROUP 020 COUNTERSINKS



Page **35 - 37**

GROUP 021 COUNTERBORES



Page **38**

GROUP 025 DRILLS



Page **38 - 64**

GROUP 030 ENGINEERS FILES



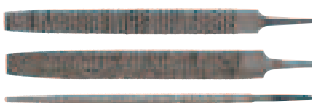
Page **66 - 67**

GROUP 031 PRECISION FILES



Page **68 - 69**

GROUP 032 MILLED FILES



Page **70**

GROUP 033 DIAMOND FILES



Page **71**

GROUP 040 HACKSAW & POWERSAW BLADES



Page **72 - 73**

GROUP 050 HOLESAWS



Page **74 - 75**

GROUP 055 MASONRY DRILLS



Page **76 - 77**

GROUP 057 SDS HAMMER DRILLS



Page **77**

GROUP 061 SHANK MILLING CUTTERS



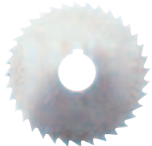
Page **78 - 105**

GROUP 065 REAMERS



Page **106 - 107**

GROUP 072 SAW BLADES



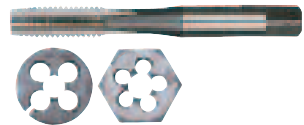
Page **108**

GROUP 075 SCREW EXTRACTORS



Page **108**

GROUP 085 HSS TAPS & DIES



Page **109 - 123**

GROUP 085 PRODUCTION TAPS



Page **124 - 128**

GROUP 090 TOOLBITS & PARTING-OFF BLADES



Page **129**

GROUP 100 BRAZED TOOLS



Page **130 - 131**

GROUP 106 ISO TOOLHOLDERS



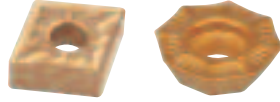
Page **132 - 149**

GROUP 109 DEBURRING TOOLS



Page **150 - 153**

GROUP 120 INSERTS - ISO TURNING & MILLING



Page **154 - 161**

GROUP 121 INDEXABLE THREADING



Page **162 - 163**

GROUP 139 INDEXABLE MILLING CUTTERS



Page **164 - 169**

GROUP 140 TOOLING ACCESSORIES



Page **170**

GROUP 144 SPINDLE NOSE TOOLING & ACCESSORIES



Page **171 - 177**

GROUP 144 TAPPING CHUCKS & COLLETS



Page **178 - 179**



CUTTING TOOLS

Product Groups
005 - 184

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.

Contents

Description	Group	Page
Brazed Tools	100	130 - 131
Butt Welded Tools	010	32
Counterbores	021	38
Countersinks	020	34 - 37
Deburring Tools - Hand	109	150 - 153
Die Heads	016	33
Drills - Blacksmith's (Reduced Shank)	025	49
- Blanks	025	57
- Centre	025	40 - 41
- Extra Length	025	62
- Long Series	025	60 - 61
- Masonry	055/056	76 - 77
- Production	025	59
- SDS Hammer	057	77
- Solid Carbide	025	58
- Spotting	025	38
- Standard Length (Jobber)	025	44 - 58
- Stub	025	42 - 45
- Taper Shank	025	63
- Vent & Micro Precision	025	39
Drills - Sets	025	52 - 54
Files - Diamond Needle	033	71
Engineers	030	66 - 67
Milled Tooth & Rasps	032	70
Needle	031	68
Precision	031	69
Riffler	031	69
Hacksaw & Powersaw Blades	040	72 - 73
Holesaws & Arbors	050	74 - 75
Indexable - Milling Cutters	139	164 - 169
- Threading	121	163
Inserts - ISO Milling	120	161
- ISO Turning	120	156 - 160
Reamers - Chucking	065	106
- Hand	065	106
- Taper Shank	065	107
Saw Blades	072	108
Screw Drills & Tap Extractors	075	108
Shank Milling Cutters	061	78 - 98
- Die & Mould	061	99 - 104
Sheet & Tube Drills	019	34
Spindle Nose Tooling Accessories	140	170
Spindle Nose Tooling	144	171 - 176
Tapping Chucks & Collets	144	178 - 179
Tapping Head Sets	144	177
Taps - Production	085	124 - 128
Taps & Dies - HSS	085	109 - 123
Thread Chasers - Dies	015	33
- Hand	017	33
- Machine	017	33
Thread Restoring Files	017	33
Throwaway Milling Cutters	062	105
Toolbits & Parting-off Blades	090	129
Toolholders - ISO Boring	106	146 - 149
- ISO External	106	136 - 145

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



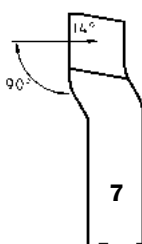
1
Right Hand

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	Price/1 RND
12 x 12	100	-0120K	238.00
16 x 16	110	-0160K	328.00



Knife or Side Cutting



7
Right Hand

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	Price/1 RND
12 x 12	100	-1120K	247.00
16 x 16	110	-1160K	327.00



External Screw Cutting Right Hand



No Rake
Also available for cutting left hand thread - No.13LH

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	Price/1 RND
12 x 12	100	-2120K	238.00
16 x 16	110	-2160K	318.00



Parting Off



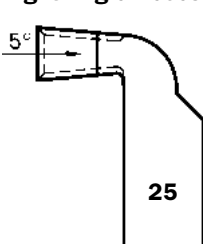
16
Right Hand

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	Price/1 RND
12 x 12	100	-3120K	238.00
16 x 16	110	-3160K	312.00
20 x 20	125	-3200K	509.00



Right Angle Recessing



25
Right Hand

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	Price/1 RND
16 x 16	110	-6160K	421.00



Facing



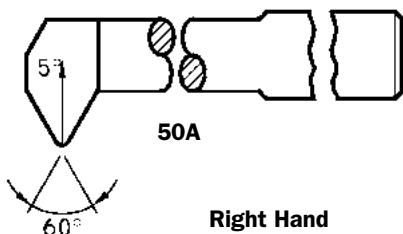
19
Right Hand

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	Price/1 RND
12 x 12	100	-5120K	228.00
16 x 16	110	-5160K	311.00



Internal Screw Cutting Tools



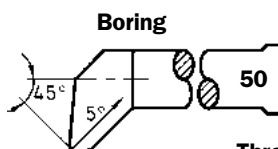
50A
Right Hand

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

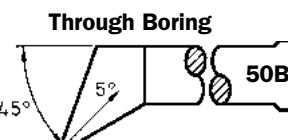
Shank (mm)	Overall Length	Order Code KEN-010	Price/1 RND
20 x 12	160	-8620K	500.00



Boring Tools & Through Boring Tools



50
Right Hand



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

Shank (mm)	Overall Length	Order Code No.50	KEN-010	Price/1 RND
12 x 12	160	-8120K	-	476.00
16 x 16	200	-8160K	-9020K	656.00



Dieheads

Coventry Dieheads 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 CTL-016	Price/1 RND
WS6	1/4" (6mm)	1 1/2"	5/8"	-0006A	7131.60
WS12	1/2" (12mm)	2 1/2"	1"	-0012A	8607.10
WS20	3/4" (20mm)	3 7/16"	1 1/2"	-0020A	10328.50

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.



ISO Metric: Throat Angle S20

Size x Pitch	Diehead Size	Weight each	Order Code CTL-015	Price/1 RND
4 x 0.70	6mm	22g	-1015Q	844.60
	12mm	59g	-1019V	881.90
5 x 0.80	12mm	58g	-1024N	993.60
	12mm	59g	-1030F	1030.90
6 x 1.00	20mm	160g	-1031G	1068.20
8 x 1.25	12mm	55g	-1041S	1155.10
	20mm	150g	-1043V	1192.40
10 x 1.00	12mm	52g	-1046J	1490.40
	12mm	52g	-1048A	1589.80
10 x 1.50	20mm	150g	-1050C	1627.10

Size x Pitch	Diehead Size	Weight each	Order Code CTL-015	Price/1 RND
12 x 1.75	12mm	50g	-1054G	1763.70
	20mm	147g	-1056J	1850.60
14 x 2.00	20mm	145g	-1061P	1974.80
	20mm	140g	-1066V	2012.10
16 x 2.00	25mm	225g	-1068X	2061.80
	20mm	130g	-1075E	2186.00
20 x 2.50	25mm	210g	-1077G	2260.50
	32mm	355g	-1079J	2310.20
24 x 3.00	25mm	205g	-1085Q	2347.40
	32mm	320g	-1086R	2359.80
30 x 3.50	32mm	400g	-1091X	2434.40

SHERWOOD 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 SHR-017	Price/1 RND
ISO	.80 to 3mm	133g	-9020C	577.00
Whit/BSF	10 tpi to 24 tpi	132g	-9001A	577.00
UNF/UNC	11 tpi to 24 tpi	130g	-9010B	577.00
BSP	11 tpi to 28 tpi	127g	-9030D	577.00

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

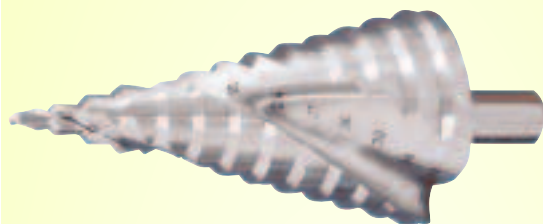


HSS Multi-Diameter Step Drills



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.

HSS



Size	Range	Number of Steps	Weight each	Order Code	Price/1 RND
0/5	4 - 12mm	5	30g	-0500K	327.30
0/9	4 - 12mm	9	30g	-0509K	327.30
1	4 - 20mm	9	70g	-0510K	408.70
2	4 - 30mm	11	200g	-0520K	774.90
3	6 - 38mm	12	299g	-0530K	961.80
5	4 - 39mm	14	320g	-0560K	985.40
9	6 - 37mm	12	310g	-0600K	997.40

HSS Sheet Metal Step Drill Set

Three piece stepped cone drill set 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).



Number of Pieces	Range	Weight	Order Code	Price/1 RND
3	4 - 30mm	275g	-0260K	1617.20

HSS Taper Sheet & Tube Drills

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.

HSS



Range	Shank Diameter	Overall Length	Weight each	Order Code	Price/1 RND
3 - 14mm	6	57	30g	-1100K	208.60
8 - 20mm	8	66	60g	-1110K	305.60
16 - 30mm	9	74	140g	-1120K	567.90
26 - 40mm	9	85	300g	-1130K	1223.70



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 **BS 328 : Part 5 : 1983**. Inclusive angle 90°.

HSS-Co 5%



Cutting Range	Shank Diameter	Overall Length	Weight each	Order Code	Price/1 RND
2 - 5mm	6	32.0	15g	-2090K	242.30
5 - 10mm	8	30.5	25g	-2100K	268.00
10 - 15mm	10	37.5	25g	-2150K	455.10
15 - 20mm	12	48.0	110g	-2200K	801.90
20 - 25mm	15	56.5	225g	-2250K	1165.70



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°.

HSS-Co 5%



Cutting Range	Shank Diameter	Overall Length	Weight each	Order Code	Price/1 RND
2 - 5mm	6	32.0	15g	-2090K	126.20
5 - 10mm	8	30.5	25g	-2100K	173.30
10 - 15mm	10	37.5	25g	-2150K	283.50
15 - 20mm	12	48.0	110g	-2200K	615.00
20 - 25mm	15	56.5	225g	-2250K	789.20
25 - 30mm	15	55.0	315g	-2300K	1098.40

HSS-Co 5% Countersink Set

HSS-Co 5%

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

6 PIECES



Number of Pieces	Shank Style	Weight each	Order Code	Price/1 RND
6	Straight	1.2kg	-9020B	2088.20



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.

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

HSS-Co 5%



Product Number	Diameter	Inc. Angle	Body Dia.	Overall Length	Order Code SHR-020	Price/1 RND
5802	$\frac{3}{32}$ "	100°	$\frac{3}{16}$ "	2 $\frac{1}{2}$ "	-5050D	243.00
5803	$\frac{3}{32}$ "	120°	$\frac{3}{16}$ "	2 $\frac{1}{2}$ "	-5054H	243.00
5810	$\frac{1}{8}$ "	100°	$\frac{1}{4}$ "	2 $\frac{1}{2}$ "	-5051E	247.20
5812	$\frac{1}{8}$ "	120°	$\frac{1}{4}$ "	2 $\frac{1}{2}$ "	-5055J	247.20
5821	$\frac{5}{32}$ "	100°	$\frac{5}{16}$ "	2 $\frac{1}{2}$ "	-5052F	254.60
5831	$\frac{3}{16}$ "	100°	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "	-5053G	266.50
5832	$\frac{3}{16}$ "	120°	$\frac{3}{8}$ "	2 $\frac{1}{2}$ "	-5056K	266.50

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 0BA	90°

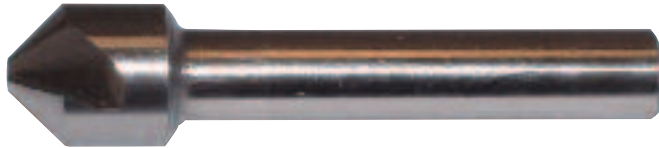
Diameter	Inc. Angle	Body Dia.	Overall Length	Order Code SHR-020	Price/1 RND
$\frac{3}{32}$ "	100°	.190	2 $\frac{1}{2}$ "	-5057L	243.00
$\frac{1}{8}$ "	100°	.252	2 $\frac{1}{2}$ "	-5058M	247.20
$\frac{5}{32}$ "	100°	.340	2 $\frac{1}{2}$ "	-5059N	254.60
$\frac{3}{16}$ "	100°	.405	2 $\frac{1}{2}$ "	-5060P	287.30
$\frac{1}{4}$ "	100°	.530	2 $\frac{1}{2}$ "	-5061Q	325.90

HSS-Co 5% 3 Flute - Straight Shank

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	Price/1 RND
8.0mm	8mm	-0790K	136.50
10.0mm	8mm	-0890K	146.80
12.5mm	8mm	-0990K	184.20
16.0mm	10mm	-1090K	253.70
20.0mm	10mm	-1110K	303.30
25.0mm	10mm	-1130K	428.90

HSS-Co 5% Multi Flute - Straight Shank

Rose Pattern

Inclusive angle 90°.

Overall length: 52mm.



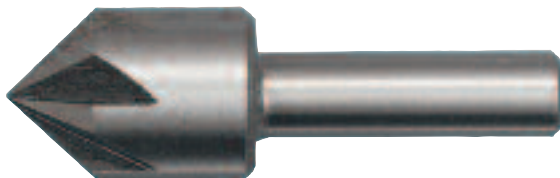
Cutting Diameter	Shank Diameter	Order Code SHR-020	Price/1 RND
9.5mm	4.8mm	-2040K	111.50
12.7mm	4.8mm	-2060K	121.40
15.8mm	6.3mm	-2080K	202.50

HSS-Co 5% Multi Flute - Straight Shank

Heavy Duty

Inclusive angle 90°.

Overall length: 40mm.

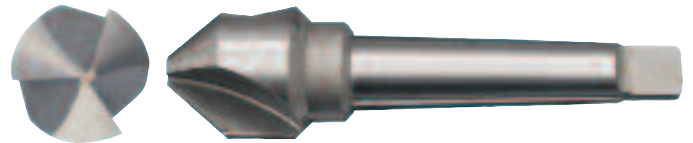


Cutting Diameter	Shank Diameter	Order Code SHR-020	Price/1 RND
12.7mm	6.3mm	-2000K	128.50

HSS-Co 5% 3 Flute - Taper Shank

90° inclusive angle.

HSS-Co 5%



Cutting Diameter	Shank Diameter	Order Code SHR-020	Price/1 RND
16.0mm	1MT	-1550K	285.30
20.0mm	2MT	-1570K	398.60
25.0mm	2MT	-1590K	571.20
31.5mm	2MT	-1690K	725.70
40.0mm	3MT	-1790K	934.40
50.0mm	3MT	-1890K	1330.40
63.0mm	4MT	-1920K	2148.20



HSS-Co 5% Multi Flute - Straight Shank

Rose Pattern

Inclusive angle 90°.

Overall length: 52mm.

HSS-Co 5%



Cutting Diameter	Shank Diameter	Order Code KEN-020	Price/1 RND
9.5mm	4.8mm	-2040K	196.60
12.7mm	4.8mm	-2060K	221.80
15.8mm	6.3mm	-2080K	301.90

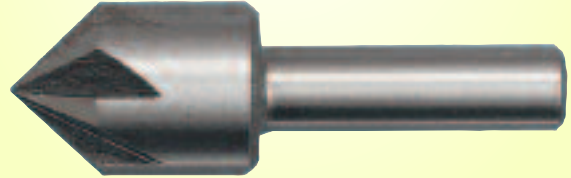
HSS-Co 5% Multi Flute - Straight Shank

Heavy Duty

Inclusive angle 90°.

Overall length: 40mm.

HSS-Co 5%



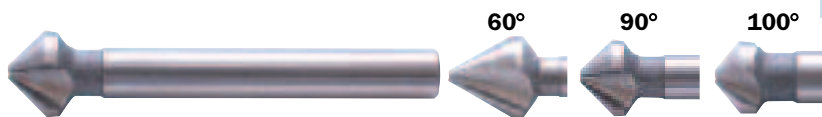
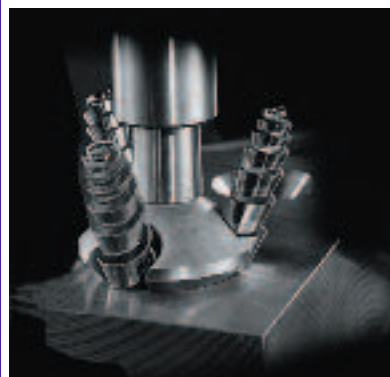
Cutting Diameter	Shank Diameter	Order Code KEN-020	Price/1 RND
12.7mm	6.3mm	-2000K	196.60

GROUP 020 COUNTERSINKS



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			Price/1 RND
				60° Countersink	90° Countersink	100° Countersink	
6.3mm	5	45		-5950K	-	-5450K	130.50
8.3mm	6	46	12g	-6000K	-5000K	-5500K	152.50
10.4mm	6	47	13g	-6050K	-5050K	-5550K	199.00
12.4mm	8	58	24g	-6100K	-5100K	-5600K	215.00
16.5mm	8	60	29g	-6150K	-5150K	-5650K	338.50
20.5mm	10	65	48g	-6200K	-5200K	-5700K	463.50
25.0mm	10	69	70g	-6300K	-5250K	-5750K	594.50

HSS (5% Co) 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°.

HSS-Co 5%



Cutting Diameter	Shank Diameter	Order Code SHR-020	Price/1 RND
8.5mm	8mm	-7090K	378.30
10.0mm	8mm	-7100K	393.10
12.5mm	8mm	-7120K	471.10
16.0mm	10mm	-7160K	676.20
20.0mm	10mm	-7200K	835.30
25.0mm	10mm	-7250K	1145.00

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.

HSS-Co 5%



Cutting Dia.	Shank (mm)	Length (mm)	Order Code SHR-020	Price/1 RND
6.0mm	5	45	-3060E	43.90
6.3mm	5	45	-3063J	43.90
8.3mm	6	50	-3083J	48.90
13.4mm	8	56	-3134Q	71.80
15.0mm	10	60	-3150G	98.00
19.0mm	10	63	-3190T	132.00
23.0mm	10	67	-3223G	162.40
30.0mm	12	71	-3230R	362.00



HSS (5% Co) 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°.

HSS-Co 5%



Cutting Diameter	Shank Diameter	Order Code KEN-020	Price/1 RND
8.0mm	8mm	-0790K	296.00
10.0mm	8mm	-0890K	377.90
12.5mm	8mm	-0990K	453.10
16.0mm	10mm	-1090K	650.20
20.0mm	10mm	-1110K	803.10
25.0mm	10mm	-1130K	1100.90

HSS-Co 5% Countersink Set 90°

HSS-Co 5%

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.

Inclusive angle 90°.

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



**6
PIECES**

Number of Pieces	Weight	Order Code KEN-020	Price/1 RND
6	620g	-1160K	3306.90



**HSS-Co 5%
Countersink Set - 90°**

6 Piece Set
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**

Number of Pieces	Inclusive Angle	Order Code SHR-020	Price/1 RND
6	90°	-9010A	1802.90

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

6 Piece Set
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**

Number of Pieces	Inclusive Angle	Order Code SHR-020	Price/1 RND
6	90°	-8990Y	3148.40

**HSS-Co 5%
Countersink Set - 100°**

5 Piece Set
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**

Number of Pieces	Inclusive Angle	Order Code SHR-020	Price/1 RND
5	100°	-9130A	1979.00

**HSS-Co 5%
Countersink Set - 60°**

5 Piece Set
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**.
Sizes: 6, 8, 10, 12.5 and 16mm.

HSS-Co 5%



**5
PIECES**

Number of Pieces	Inclusive Angle	Order Code SHR-020	Price/1 RND
5	60°	-8150A	1979.00



**Solid Carbide High Performance
Premium Countersinks**

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**.

CARBIDE

3 Flute 90°



* Brazed steel shank

Cutting Diameter	Shank Diameter	Overall Length	Weight each	Order Code KEN-120	Price/1 RND
1/4" (6.3mm)	1/4" (6.3mm)	2" (50mm)	30g	-0790K	211.30
3/8" (9.5mm)	1/4" (6.3mm)*	2 13/16" (73mm)	40g	-0890K	357.60
1/2" (12.7mm)	1/4" (6.3mm)*	2 7/8" (75mm)	50g	-0990K	394.00
5/8" (16.0mm)	3/8" (9.5mm)*	3" (76mm)	90g	-1090K	475.50
3/4" (19.0mm)	1/2" (12.7mm)*	3" (76mm)	130g	-1110K	651.50

6 Flute 90°



* Brazed steel shank

Cutting Diameter	Shank Diameter	Overall Length	Weight each	Order Code KEN-120	Price/1 RND
1/4" (6.3mm)	1/4" (6.3mm)	2" (50mm)	30g	-1790K	221.80
3/8" (9.5mm)	1/4" (6.3mm)*	2 13/16" (73mm)	40g	-1890K	375.50
1/2" (12.7mm)	1/4" (6.3mm)*	2 7/8" (75mm)	50g	-1990K	504.70
5/8" (16.0mm)	3/8" (9.5mm)*	3" (76mm)	90g	-2090K	636.30
3/4" (19.0mm)	1/2" (12.7mm)*	3" (76mm)	130g	-2110K	963.80

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP
021/025**COUNTERBORES/SPOTTING DRILLS****HSS Solid Counterbores****HSS**

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**Metric**

Bolt Size	Pilot Dia.	Cutter Dia.	Overall Length	Weight each	Order Code SHR-021	Price/1 RND
3mm	3.4	6.0	65.0	10g	-3520K	133.90
4mm	4.3	8.0	65.0	10g	-3560K	180.90
5mm	5.3	10.0	70.0	10g	-3580K	192.50
6mm	6.4	11.0	76.0	20g	-3600K	218.30
8mm	8.4	15.0	87.3	60g	-3620K	264.00
10mm	10.5	18.0	89.0	70g	-3640K	312.30
12mm	13.0	20.0	108.0	110g	-3660K	426.30
16mm	17.0	26.0	125.0	225g	-3700K	447.50

Plain Shank 7 Piece Set

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

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

HSS**7
PIECES**

Number of Pieces	Weight each	Order Code SHR-021	Price/1 RND
7	462g	-9010A	2092.50

**HSS TiN Tipped Spotting Drills****HSS TiN-tip**

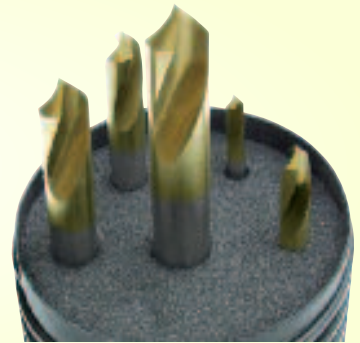
Special drill for accurate and fast spotting on NC machines, jig drills and other capital-intensive boring machines. For countersinking and chamfering of tapping holes in one operation. Only suitable for shallow depth drilling.

NEW**Metric**

Diameter (mm)	Flute Length	Overall Length	Weight per 5	Order Code SWT-125	Price/1 RND
4.00	12.0	46.0	20g	-5180A	45.70
5.00	14.0	62.0	40g	-5181A	48.90
6.00	16.0	66.0	65g	-5182A	50.70
8.00	21.0	79.0	135g	-5183A	66.30
10.00	24.0	89.0	265g	-5184A	111.10
12.00	30.0	102.0	434g	-5185A	177.40
16.00	35.0	115.0	175g	-5187A	246.00

90° Point 5 Piece Set

Contents: 4.00, 6.00, 8.00, 10.00 and 12.00

HSS**TiN-tip****5
PIECES****NEW**

Number of Pieces	Weight each	Order Code SWT-125	Price/1 RND
5	300g	-5190A	499.80

**HSS 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 SHR-025	Price/1 RND
3.00	12.0	46.0	15g	-2528Y	35.50
4.00	12.0	46.0	20g	-2528Z	38.10
5.00	14.0	62.0	40g	-2529B	40.80
6.00	16.0	66.0	65g	-2529A	42.30
8.00	21.0	79.0	135g	-2530B	55.20
10.00	24.0	89.0	265g	-2531C	92.60
12.00	30.0	102.0	434g	-2532D	147.80
14.00	33.0	107.0	625g	-2532N	985.10
16.00	35.0	115.0	825g	-2533E	205.00
20.00	40.0	131.0	1490g	-2534F	279.40

90° Point 5 Piece Set

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

HSS-E**5
PIECES**

Number of Pieces	Order Code SHR-025	Price/1 RND
5	-9200K	1905.00

120° Point - Series C530**HSS-E****Metric**

Diameter (mm)	Flute Length	Overall Length	Weight per 5	Order Code SHR-025	Price/1 RND
6.00	20.0	66.0	100g	-2535G	42.30
8.00	16.0	79.0	155g	-2536H	55.20
10.00	21.0	89.0	265g	-2537J	92.60
12.00	30.0	102.0	434g	-2538K	138.30
16.00	35.0	115.0	175g	-2539L	205.00
20.00	40.0	131.0	298g	-2540M	279.40

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	Overall Length	Weight per 5	Order Code SHR-158	Price/1 RND
4.00	10.0	40.0	40g	-8540K	147.90
6.00	16.0	50.0	100g	-8560K	314.30
8.00	23.0	60.0	155g	-8580K	416.10
10.00	24.0	70.0	265g	-8600K	663.00
12.00	25.0	70.0	434g	-8620K	907.20
16.00	30.0	80.0	175g	-8660K	1650.70
20.00	35.0	100.0	298g	-8700K	2963.20



High Speed Steel SCD 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



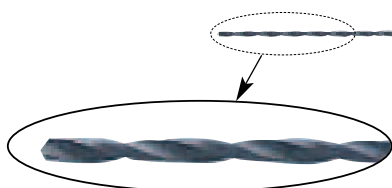
Metric					Inch				
Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND	Diameter (Inch)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
2.0	14.0	43.0	-1396A	24.60	3/32"	9/16"	1 11/16"	-1400C	8.90
3.0	18.0	49.0	-1396C	24.60	1/8"	1 1/16"	1 15/16"	-1400F	9.30
4.0	18.0	55.0	-1396E	27.00	5/32"	1 1/16"	2 5/32"	-1400J	11.00
5.0	18.0	62.0	-1396G	35.70	3/16"	1 1/16"	2 7/16"	-1400M	11.50
6.0	18.0	70.0	-1396J	54.30	1/4"	3/4"	2 3/4"	-1400Q	20.80

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

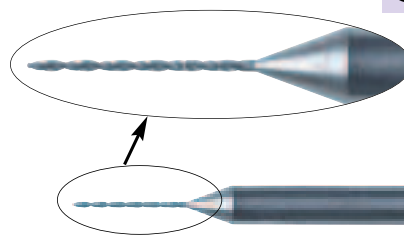
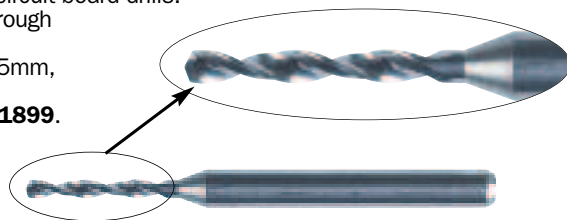
Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
0.60	40.0	60.0	-2180D	49.80
0.70	40.0	76.0	-2180H	15.60
0.75	50.0	100.0	-2181P	20.20

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	Order Code SHR-158	Price/1 RND
0.40	5.5	-3004D	57.70
0.45	5.5	-3005E	57.70
0.50	5.5	-3006F	57.70
0.55	7.0	-3007G	57.70
0.60	7.0	-3008H	57.70
0.65	7.0	-3009J	57.70
0.70	9.5	-3010K	57.70
0.75	9.5	-3011L	57.70
0.80	9.5	-3012M	57.70
0.85	9.5	-3013N	57.70
0.90	9.5	-3014P	68.70
0.95	9.5	-3015Q	68.70

Metric Continued

Diameter (mm)	Flute Length	Order Code SHR-158	Price/1 RND
1.00	10.5	-3016R	68.70
1.05	10.5	-3017S	68.70
1.10	10.5	-3018T	68.70
1.15	10.5	-3019V	68.70
1.20	10.5	-3020W	68.70
1.25	10.5	-3021X	68.70
1.30	10.5	-3022Y	68.70
1.35	10.5	-3023Z	68.70
1.40	10.5	-3025A	68.70
1.45	10.5	-3026B	68.70
1.50	10.0	-3027C	68.70

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

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

SWISS+TECH

**HSS TiN Tipped
Centre Drills**

METRIC



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**EXTENDED
RANGE**

Metric

Diameter		Pilot Length		Overall Length	Order Code SWT-125	Price/1 RND
Body	Pilot	Min.	Max.			
3.15	1.0	1.3	1.9	31.5	-5142A	95.10
4.00	1.60	2.0	2.8	35.5	-5143A	110.20
5.00	2.00	2.5	3.3	40.0	-5144A	472.30
6.30	2.50	3.1	4.1	45.0	-5145A	427.30
8.00	3.15	3.9	4.9	50.0	-5146A	508.50
10.00	4.00	5.0	6.2	56.0	-5147A	855.20
12.50	5.00	6.3	7.5	63.0	-5148A	453.60

HSS 5 Piece 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**

Number of Pieces	Weight each	Order Code SWT-125	Price/1 RND
5	120g	-5155A	1296.00

HSS TiN Tipped Centre Drills**HSS TiN-tip**

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.**

INCH

Inch

Size	Diameter		Pilot Length		Overall Length	Order Code SWT-125	Price/1 RND
	Body	Pilot	Min.	Max.			
BS1	1/8"	3/64"	1/16"	5/64"	1 1/2"	-5133A	127.20
BS2	3/16"	1/16"	5/64"	3/32"	1 3/4"	-5134A	138.70
BS3	1/4"	3/32"	1/8"	5/32"	2"	-5135A	156.00
BS4	5/16"	1/8"	5/32"	3/16"	2 1/4"	-5136A	191.20
BS5	7/16"	3/16"	1/4"	9/32"	2 1/2"	-5137A	282.80

HSS TiN Tipped BS Set**HSS TiN-tip**

HSS TiN Tipped Centre Drills

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.

NEW**5
PIECES**

Number of Pieces	Weight each	Order Code SWT-125	Price/1 RND
5	114g	-5140A	300.50

SHERWOOD
QUALITY CUTTING TOOLS**HSS Centre
Drills**

METRIC



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**C100 Series - Metric**

Diameter		Pilot Length		Overall Length	Weight each	Order Code SHR-025	Price/1 RND
Body	Pilot	Min.	Max.				
3.15	0.80	1.1	1.5	31.5	2g	-1843X	25.10
3.15	1.00	1.3	1.9	31.5	2g	-1844A	27.30
3.15	1.25	1.6	2.2	31.5	3g	-1845B	28.80
4.00	1.60	2.0	2.8	35.5	3g	-1846C	29.50
5.00	2.00	2.5	3.3	40.0	5g	-1847D	32.40
6.30	2.50	3.1	4.1	45.0	9g	-1848E	40.50
8.00	3.15	3.9	4.9	50.0	7g	-1849F	45.00
10.00	4.00	5.0	6.2	56.0	28g	-1850G	79.60
12.50	5.00	6.3	7.5	63.0	45g	-1851H	103.10
16.00	6.30	8.0	9.2	71.0	71g	-1852J	156.20
20.00	8.00	10.0	11.5	83.0	102g	-1852M	228.30
25.00	10.00	12.8	14.2	103.0	197g	-1852N	328.50

HSS 5 Piece 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.

NEW**5
PIECES**

Number of Pieces	Weight each	Order Code SHR-025	Price/1 RND
5	120g	-9150K	886.90

HSS Centre Drills**HSS**

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.**

INCH**C100 Series - Inch**

Size	Diameter		Pilot Length		Overall Length	Order Code SHR-025	Price/1 RND
	Body	Pilot	Min.	Max.			
BS00	1/8"	0.025"	0.025"	0.030"	1 1/8"	-1827L	29.00
BS0	1/8"	1/32"	3/64"	1/16"	1 1/4"	-1828M	29.00
BS1	1/8"	3/64"	1/16"	5/64"	1 1/2"	-1829A	29.00
BS2	3/16"	1/16"	5/64"	3/32"	1 3/4"	-1830B	32.90
BS3	1/4"	3/32"	1/8"	5/32"	2"	-1831C	44.20
BS4	5/16"	1/8"	5/32"	3/16"	2 1/4"	-1832D	49.70
BS5	7/16"	3/16"	1/4"	9/32"	2 1/2"	-1833E	118.50
BS6	5/8"	1/4"	5/16"	3/8"	3"	-1835G	177.30
BS7	3/4"	5/16"	13/32"	15/32"	3 1/2"	-1836H	224.50

HSS 5 Piece 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.

NEW**5
PIECES**

Number of Pieces	Weight each	Order Code SHR-025	Price/1 RND
5	114g	-9160K	511.50



High Speed Steel Extra Length Centre Drills

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.**



HSS



Metric

Diameter (mm)		Overall Length	Weight each	Order Code	Price/1 RND
Body	Point				
4.00	1.00	120	19g	-1866H	41.60
5.00	1.60	120	25g	-1866K	41.60
6.00	2.00	120	31g	-1866N	57.60
8.00	2.50	120	49g	-1866R	68.10
10.00	3.15	120	69g	-1866W	77.30
12.50	5.00	120	86g	-1866X	95.80

Inch

Size	Diameter		Overall Length	Order Code	Price/1 RND
	Body	Pilot			
BS1	1/8"	3/64"	4"	-1881A	467.80
BS2	3/16"	1/16"	4"	-1882B	492.90
BS3	1/4"	3/32"	4"	-1883C	589.20
BS4	5/16"	1/8"	4"	-1884D	674.90
BS5	7/16"	3/16"	4"	-1885E	772.10

HSS Bell Type Centre Drills

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

HSS



Metric

Diameter		Overall Length	Order Code	Price/1 RND
Body	Pilot			
4.00	1.00	35.5	-1861K	42.30
5.00	1.25	40.0	-1861L	42.30
6.30	1.60	45.0	-1861N	59.70
8.00	2.00	50.0	-1861P	74.50
10.00	2.50	56.0	-1861Q	95.50
11.20	3.15	60.0	-1861R	107.70
14.00	4.00	67.0	-1861S	178.20
18.00	5.00	75.0	-1861T	291.10
20.00	6.30	80.0	-1861V	348.70

Inch

Size	Diameter		Overall Length	Order Code	Price/1 RND
	Body	Pilot			
BS1B	1/8"	3/64"	1 1/2"	-1853A	38.90
BS2B	3/16"	1/16"	1 3/4"	-1854B	49.70
BS3B	1/4"	3/32"	2"	-1855C	84.90
BS4B	5/16"	1/8"	2 1/4"	-1856D	100.80
BS5B	7/16"	5/32"	2 1/2"	-1858F	156.00

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	Price/1 RND
	Body	Drill				
BS1	1/8"	3/64"	1 1/2"	10g	-8010K	396.60
BS2	3/16"	5/64"	1 7/8"	10g	-8020K	618.80
BS3	1/4"	7/64"	2"	20g	-8030K	736.40
BS4	5/16"	1/8"	2 1/8"	30g	-8040K	1010.00
BS5	7/16"	3/16"	2 3/4"	70g	-8050K	1532.10
BS6	1/2"	7/32"	3"	90g	-8060K	2088.80

Metric

Diameter		Pilot Length		Overall Length	Weight each	Order Code	Price/1 RND
Body	Pilot	Min.	Max.				
4.00	1.60	2.0	2.8	35.5	3g	-8110K	216.90
5.00	2.00	2.5	3.3	40.0	5g	-8120K	264.80
6.30	2.50	3.1	4.1	45.0	9g	-8130K	315.20
8.00	3.15	3.9	4.9	50.0	7g	-8140K	385.90
10.00	4.00	5.0	6.2	56.0	28g	-8150K	508.10
12.50	5.00	6.3	7.5	63.0	45g	-8160K	832.00
16.00	6.30	8.0	9.2	71.0	123g	-8180K	1685.20

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

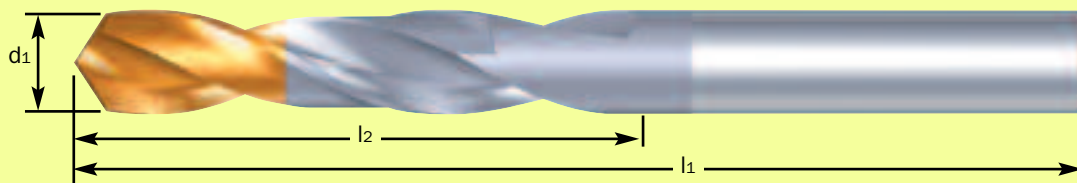
Size	Diameter		Overall Length	Weight each	Order Code	Price/1 RND
	Body	Drill				
BS1	1/8"	3/64"	1 1/2"	10g	-9010K	315.60
BS2	3/16"	5/64"	1 7/8"	10g	-9020K	541.00
BS3	1/4"	7/64"	2"	20g	-9030K	631.10
BS4	5/16"	1/8"	2 1/8"	30g	-9040K	721.30
BS5	7/16"	3/16"	2 3/4"	70g	-9050K	1081.90
BS6	1/2"	7/32"	3"	90g	-9060K	1541.70

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

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
mm	hs	Dec.	mm	mm
0.50		0.0196	3.0	20.0
0.60		0.0236	3.5	21.0
0.70		0.0275	4.5	23.0
0.79	¹ / ₃₂	0.0312	5.0	24.0
0.80		0.0314	5.0	24.0
0.90		0.0354	5.5	25.0
1.00		0.0393	6.0	26.0
1.10		0.0433	7.0	28.0
1.19	³ / ₆₄	0.0468	8.0	30.0
1.20		0.0472	8.0	30.0
1.30		0.0511	8.0	30.0
1.40		0.0551	9.0	32.0
1.50		0.0590	9.0	32.0
1.59	¹ / ₁₆	0.0625	10.0	34.0
1.60		0.0629	10.0	34.0
1.70		0.0669	10.0	34.0
1.80		0.0708	11.0	36.0
1.90		0.0748	11.0	36.0
1.98	⁵ / ₆₄	0.0779	12.0	38.0
2.00		0.0787	12.0	38.0
2.10		0.0826	12.0	38.0
2.20		0.0866	13.0	40.0
2.25		0.0885	13.0	40.0
2.30		0.0905	13.0	40.0
2.38	³ / ₃₂	0.0937	14.0	43.0
2.40		0.0944	14.0	43.0
2.50		0.0984	14.0	43.0
2.60		0.1023	14.0	43.0
2.65		0.1043	14.0	43.0
2.70		0.1062	16.0	46.0
2.78	⁷ / ₆₄	0.1094	16.0	46.0
2.80		0.1102	16.0	46.0
2.90		0.1141	16.0	46.0
3.00		0.1181	16.0	46.0
3.10		0.1220	18.0	49.0
3.18	¹ / ₈	0.1251	18.0	49.0
3.20		0.1259	18.0	49.0
3.25		0.1279	18.0	49.0
3.30		0.1299	18.0	49.0
3.40		0.1338	20.0	52.0
3.50		0.1377	20.0	52.0
3.57	⁹ / ₆₄	0.1405	20.0	52.0
3.60		0.1417	20.0	52.0
3.70		0.1456	20.0	52.0

d1	Inch	Inch	l2	l1
mm	hs	Dec.	mm	mm
3.80		0.1496	22.0	55.0
3.90		0.1535	22.0	55.0
3.97	⁵ / ₃₂	0.1562	22.0	55.0
4.00		0.1574	22.0	55.0
4.10		0.1614	22.0	55.0
4.20		0.1653	22.0	55.0
4.30		0.1692	24.0	58.0
4.37	¹¹ / ₆₄	0.1720	24.0	58.0
4.40		0.1732	24.0	58.0
4.50		0.1771	24.0	58.0
4.60		0.1811	24.0	58.0
4.70		0.1850	24.0	58.0
4.76	³ / ₁₆	0.1874	26.0	62.0
4.80		0.1889	26.0	62.0
4.90		0.1929	26.0	62.0
5.00		0.1968	26.0	62.0
5.10		0.2007	26.0	62.0
5.16	¹³ / ₆₄	0.2031	26.0	62.0
5.20		0.2047	26.0	62.0
5.30		0.2086	26.0	62.0
5.40		0.2125	28.0	66.0
5.50		0.2165	28.0	66.0
5.56	⁷ / ₃₂	0.2188	28.0	66.0
5.60		0.2204	28.0	66.0
5.70		0.2244	28.0	66.0
5.80		0.2283	28.0	66.0
5.90		0.2322	28.0	66.0
5.95	¹⁵ / ₆₄	0.2342	28.0	66.0
6.00		0.2362	28.0	66.0
6.10		0.2401	31.0	70.0
6.20		0.2440	31.0	70.0
6.30		0.2480	31.0	70.0
6.35	¹ / ₄	0.2500	31.0	70.0
6.40		0.2519	31.0	70.0
6.50		0.2559	31.0	70.0
6.60		0.2598	31.0	70.0
6.70		0.2637	31.0	70.0
6.80		0.2677	34.0	74.0
6.90		0.2716	34.0	74.0
7.00		0.2755	34.0	74.0
7.10		0.2795	34.0	74.0
7.14	⁹ / ₃₂	0.2811	34.0	74.0
7.20		0.2834	34.0	74.0
7.30		0.2874	34.0	74.0

d1	Inch	Inch	l2	l1
mm	hs	Dec.	mm	mm
7.40		0.2913	34.0	74.0
7.50		0.2952	34.0	74.0
7.60		0.2992	37.0	79.0
7.70		0.3031	37.0	79.0
7.80		0.3070	37.0	79.0
7.90		0.3110	37.0	79.0
7.94	⁵ / ₁₆	0.3125	37.0	79.0
8.00		0.3149	37.0	79.0
8.10		0.3188	37.0	79.0
8.20		0.3228	37.0	79.0
8.30		0.3267	37.0	79.0
8.40		0.3307	37.0	79.0
8.50		0.3346	37.0	79.0
8.60		0.3385	40.0	84.0
8.70		0.3425	40.0	84.0
8.73	¹¹ / ₃₂	0.3437	40.0	84.0
8.80		0.3464	40.0	84.0
8.90		0.3503	40.0	84.0
9.00		0.3543	40.0	84.0
9.10		0.3582	40.0	84.0
9.20		0.3622	40.0	84.0
9.30		0.3661	40.0	84.0
9.40		0.3700	40.0	84.0
9.50		0.3740	40.0	84.0
9.53	³ / ₈	0.3751	43.0	89.0
9.60		0.3779	43.0	89.0
9.70		0.3818	43.0	89.0
9.80		0.3858	43.0	89.0
9.90		0.3897	43.0	89.0
10.00		0.3937	43.0	89.0
10.10		0.3976	43.0	89.0
10.20		0.4015	43.0	89.0
10.30		0.4055	43.0	89.0
10.32	¹³ / ₃₂	0.4062	43.0	89.0
10.40		0.4094	43.0	89.0
10.50		0.4133	43.0	89.0
10.60		0.4173	43.0	89.0
10.70		0.4212	47.0	95.0
10.80		0.4251	47.0	95.0
10.90		0.4291	47.0	95.0
11.00		0.4330	47.0	95.0
11.10		0.4370	47.0	95.0
11.11	⁷ / ₁₆	0.4374	47.0	95.0
11.20		0.4409	47.0	95.0

d1	Inch	Inch	l2	l1
mm	hs	Dec.	mm	mm
11.30		0.4448	47.0	95.0
11.50		0.4527	47.0	95.0
11.60		0.4566	47.0	95.0
11.70		0.4606	47.0	95.0
11.80		0.4645	47.0	95.0
11.90		0.4685	51.0	102.0
12.00		0.4724	51.0	102.0
12.10		0.4763	51.0	102.0
12.20		0.4803	51.0	102.0
12.50		0.4921	51.0	102.0
12.70	¹ / ₂	0.5000	51.0	102.0
13.00		0.5118	51.0	102.0
13.50		0.5314	54.0	107.0
14.00		0.5511	54.0	107.0
14.29	⁹ / ₁₆	0.5625	56.0	111.0
14.50		0.5708	56.0	111.0
15.00		0.5905	56.0	111.0
15.50		0.6102	58.0	115.0
15.88	⁵ / ₈	0.6251	58.0	115.0
16.00		0.6299	58.0	115.0
16.50		0.6496	60.0	119.0
17.00		0.6692	60.0	119.0
17.46	¹¹ / ₁₆	0.6874	62.0	123.0
17.50		0.6889	62.0	123.0
18.00		0.7086	62.0	123.0
18.50		0.7283	64.0	127.0
19.00		0.7480	64.0	127.0
19.05	³ / ₄	0.7500	66.0	131.0
19.50		0.7677	66.0	131.0
20.00		0.7874	66.0	131.0
20.50		0.8070	68.0	136.0
20.64	¹³ / ₁₆	0.8125	68.0	136.0
21.00		0.8267	68.0	136.0
22.00		0.8661	70.0	141.0
22.23	⁷ / ₈	0.8751	70.0	141.0
23.00		0.9055	72.0	146.0
23.81	¹⁵ / ₁₆	0.9374	75.0	151.0
24.00		0.9448	75.0	151.0
25.00		0.9842	75.0	151.0
25.40	1"	1.0000	78.0	156.0
26.99	¹¹ / ₁₆	1.0625	81.0	162.0
28.58	¹¹ / ₈	1.1251	84.0	168.0
30.16	¹³ / ₁₆	1.1874	87.0	174.0
31.75	¹ / ₄	1.2500	90.0	180.0

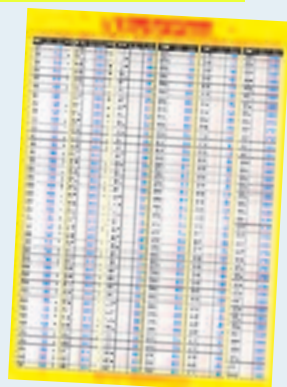
FREE



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

**AVAILABLE
ON REQUEST
CAT-849-0937A**

Contact your local
branch or representative.



FREE



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

**AVAILABLE
ON REQUEST
CAT-849-0938A**

Contact your local
branch or representative.





HSS General Purpose Stub Drills

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**.



HSS

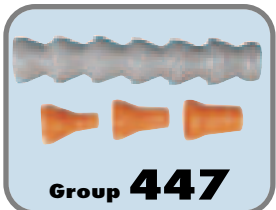


For Dimensions

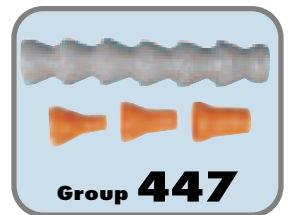
See Page 42

CUTTING TOOLS

Series S100 - Metric			PRICED PER 10			PRICED PER 10			PRICED PER 10			PRICED PER 1		
Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/1 RND
1.00	-1227H	63.70	5.00	-1277M	116.40	8.30	-1310Y	284.00	13.20	-1358A	1072.60			
1.50	-1233P	79.00	5.10	-1278N	116.40	8.40	-1311N	284.00	13.50	-1359B	620.70			
1.80	-1236S	79.00	5.20	-1279P	116.40	8.50	-1312A	284.00	14.00	-1361D	675.20			
2.00	-1240X	79.00	5.30	-1280Q	116.40	8.60	-1313B	353.10	14.50	-1362E	927.70			
2.10	-1242N	79.00	5.40	-1281R	116.40	8.70	-1314C	353.10	14.70	-1362H	78.80			
2.20	-1243A	79.00	5.50	-1282S	116.40	8.80	-1315D	353.10	14.80	-1362R	84.00			
2.30	-1245C	79.00	5.60	-1283T	143.90	8.90	-1316E	353.10	15.00	-1363F	959.30			
2.40	-1246D	79.00	5.80	-1285W	143.90	9.00	-1317F	353.10	15.50	-1364G	1147.40			
2.50	-1248F	79.00	5.90	-1286X	143.90	9.10	-1318G	424.40	16.00	-1365H	1290.50			
2.60	-1250H	79.00	6.00	-1287Y	143.90	9.20	-1319H	424.40	16.50	-1366J	1373.50			
2.70	-1252K	79.00	6.10	-1288N	209.60	9.40	-1321K	424.40	17.00	-1367K	1514.90			
2.80	-1253L	79.00	6.20	-1289A	209.60	9.50	-1322L	424.40	17.50	-1368L	1593.00			
2.90	-1255N	79.00	6.30	-1290B	209.60	9.60	-1323M	487.80	18.00	-1369M	1687.50			
3.00	-1257Q	79.00	6.40	-1291C	209.60	9.70	-1324N	487.80	18.50	-1370N	1781.10			
3.10	-1258R	79.50	6.50	-1292D	209.60	9.80	-1325P	487.80	19.00	-1371P	1923.00			
3.20	-1259S	79.50	6.60	-1293E	223.40	10.00	-1327R	487.80	19.50	-1372Q	1923.00			
3.30	-1260T	79.50	6.70	-1294F	223.40	10.10	-1328S	497.00	20.00	-1373R	1923.00			
3.40	-1261V	79.50	6.80	-1295G	223.40	10.20	-1329T	497.00	21.00	-1374S	3942.70			
3.50	-1262W	79.50	6.90	-1296H	223.40	10.30	-1330V	497.00	22.00	-1375T	3428.50			
3.60	-1263X	103.30	7.00	-1297J	223.40	10.40	-1331W	461.40	25.00	-1378X	4232.10			
3.70	-1264Y	103.30	7.10	-1298K	244.50	10.50	-1332X	461.40						
3.80	-1265N	103.30	7.20	-1299L	244.50	10.80	-1335A	639.30						
3.90	-1266A	103.30	7.30	-1300M	244.50	11.00	-1337C	639.30						
4.00	-1267B	103.30	7.40	-1301N	244.50	11.50	-1342H	689.40						
4.10	-1268C	108.90	7.50	-1302P	244.50	12.00	-1347N	721.40						
4.20	-1269D	108.90	7.60	-1303Q	281.20	12.20	-1349Q	974.20						
4.30	-1270E	108.90	7.70	-1304R	281.20	12.50	-1352T	974.20						
4.40	-1271F	108.90	7.80	-1305S	281.20	12.60	-1353V	1072.60						
4.50	-1272G	108.90	7.90	-1306T	281.20	12.90	-1356Y	1072.60						
4.60	-1273H	116.40	8.00	-1307V	281.20	13.00	-1357N	1072.60						
4.80	-1275K	116.40	8.10	-1308W	284.00									
4.90	-1276L	116.40	8.20	-1309X	284.00									



Group **447**



EXTENDED RANGE



For Dimensions

See Page 42

Series S100 - Inch			PRICED PER 10			PRICED PER 10			PRICED PER 10			PRICED PER 1		
Dia. (inch)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/1 RND	Dia. (inch)	Order Code SHR-025	Price/1 RND
1/16"	-1194C	70.10	3/16"	-1194L	112.00	11/32"	-1194X	388.50	33/64"	-1195J	810.00			
5/64"	-1194D	76.90	13/64"	-1194M	112.00	3/8"	-1194Z	466.80	9/16"	-1195M	927.70			
3/32"	-1194E	76.90	7/32"	-1194N	144.20	25/64"	-1195A	707.40	5/8"	-1195R	1290.50			
7/64"	-1194F	76.90	15/64"	-1194P	144.20	7/16"	-1195D	758.20	21/32"	-1195T	1366.20			
1/8"	-1194G	78.60	1/4"	-1194Q	208.40	29/64"	-1195E	971.00	3/4"	-1196A	1923.00			
9/64"	-1194H	104.30	9/32"	-1194S	268.80	15/32"	-1195F	1066.30						
5/32"	-1194J	104.30	5/16"	-1194V	309.00	1/2"	-1195H	1179.70						
11/64"	-1194K	108.20	21/64"	-1194W	312.60									

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**.



HSS



For Dimensions

See Page 42

328

See Page 12

Metric			PRICED PER 10			PRICED PER 10			PRICED PER 10		
Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND
2.00	-1170D	88.20	3.30	-1170W	99.30	4.90	-1171S	165.10	8.00	-1173Z	406.20
2.50	-1170L	88.20	3.50	-1170Z	99.30	5.00	-1171V	165.10	8.50	-1174J	472.00
3.00	-1170R	88.20	4.00	-1171E	120.60	6.00	-1172K	219.80	10.00	-1175K	669.50
3.20	-1170T	99.30	4.20	-1171H	142.80	7.00	-1172Y	307.80	12.00	-1177M	856.80

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 025 STUB DRILLS

SWISS+TECH HSS TiN Coated Stub Drills

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.



HSS TiN



For Dimensions

See Page 42



DIN 1412C 135°

Series 2001 Metric

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
2.50	-2025A	60.00	4.20	-2042A	60.00	6.50	-2065A	101.70	9.00	-2090A	129.60
3.00	-2030A	60.00	4.50	-2045A	60.00	6.80	-2068A	101.10	12.00	-2120A	211.10
3.20	-2032A	60.00	5.00	-2050A	64.00	8.00	-2080A	112.20	13.00	-2130A	215.20
4.00	-2040A	60.00	5.20	-2052A	66.70	8.50	-2085A	122.80			

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.

HSS-Co



For Dimensions

See Page 42



DIN 1412C 135°

Series 2010 Metric

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
1.00	-2210A	66.70	2.90	-2229A	46.80	5.00	-2250A	73.40	8.20	-2282A	169.50
1.10	-2211A	62.40	3.00	-2230A	47.40	5.20	-2252A	77.50	8.40	-2284A	176.40
1.20	-2212A	56.00	3.10	-2231A	47.90	5.50	-2255A	83.60	8.50	-2285A	181.30
1.30	-2213A	55.90	3.20	-2232A	48.40	6.00	-2260A	95.20	8.70	-2287A	179.00
1.60	-2216A	46.10	3.30	-2233A	50.10	6.10	-2261A	99.50	8.80	-2288A	193.90
1.70	-2217A	46.10	3.40	-2234A	50.60	6.20	-2262A	101.10	9.00	-2290A	203.50
1.80	-2218A	46.10	3.50	-2235A	51.70	6.40	-2264A	106.30	9.50	-2295A	228.00
2.00	-2220A	46.10	3.70	-2237A	53.30	6.50	-2265A	110.50	10.00	-2300A	254.90
2.10	-2221A	46.10	4.00	-2240A	57.40	6.80	-2268A	118.10	10.20	-2302A	283.80
2.30	-2223A	46.10	4.10	-2241A	58.50	7.00	-2270A	125.90	10.50	-2305A	276.90
2.40	-2224A	46.10	4.20	-2242A	59.40	7.20	-2272A	131.80	11.00	-2310A	312.00
2.50	-2225A	46.10	4.30	-2243A	61.60	7.50	-2275A	142.50	11.50	-2315A	346.40
2.60	-2226A	46.10	4.50	-2245A	64.50	7.70	-2277A	150.10	12.00	-2320A	378.90
2.70	-2227A	46.10	4.80	-2248A	69.70	7.80	-2278A	152.00	13.00	-2330A	453.10
2.80	-2228A	46.50	4.90	-2249A	71.90	8.00	-2280A	160.00			

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.

HSS-Co TiN



For Dimensions

See Page 42



DIN 1412C 135°

Series 2020 Metric

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
1.00	-2410A	87.10	3.30	-2433A	87.20	5.20	-2452A	152.00	8.20	-2482A	266.80
1.50	-2415A	87.20	3.50	-2435A	87.20	5.50	-2455A	154.20	8.50	-2485A	266.80
1.60	-2416A	87.20	4.00	-2440A	87.20	6.00	-2460A	177.50	10.00	-2500A	357.10
2.00	-2420A	87.20	4.10	-2441A	87.20	6.10	-2461A	177.50	10.20	-2502A	357.10
2.20	-2422A	87.20	4.20	-2442A	87.20	6.20	-2462A	188.70	11.00	-2510A	403.60
2.40	-2424A	87.20	4.40	-2444A	87.20	6.50	-2465A	193.90	12.00	-2520A	333.10
2.50	-2425A	87.20	4.50	-2445A	87.20	6.80	-2468A	211.60	13.00	-2530A	535.60
2.60	-2426A	87.20	4.80	-2448A	92.00	7.00	-2470A	224.10			
3.00	-2430A	87.20	5.00	-2450A	96.60	7.50	-2475A	233.90			
3.20	-2432A	87.20	5.10	-2451A	148.20	8.00	-2480A	249.30			

KENNEDY *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**.

Metric

Dia. (mm)	Flute Length	Overall Length	Order Code KEN-158	Price/1 RND
1.00	6.0	26.0	-3100K	148.40
1.10	6.0	26.0	-3110K	148.40
1.20	8.0	30.0	-3120K	148.40
1.30	8.0	30.0	-3130K	152.50
1.40	9.0	32.0	-3140K	152.50
1.50	9.0	32.0	-3150K	165.50
1.60	10.0	34.0	-3160K	165.50
1.70	10.0	34.0	-3170K	165.50
1.80	11.0	36.0	-3180K	165.50
1.90	11.0	36.0	-3190K	176.60
2.00	12.0	38.0	-3200K	176.60
2.20	13.0	40.0	-3220K	176.60
2.30	13.0	40.0	-3230K	196.30
2.40	14.0	43.0	-3240K	196.30
2.50	14.0	43.0	-3250K	196.30
2.60	14.0	43.0	-3260K	224.10



CARBIDE

Dia. (mm)	Flute Length	Overall Length	Order Code KEN-158	Price/1 RND
2.70	16.0	46.0	-3270K	224.10
2.80	16.0	46.0	-3280K	224.10
2.90	16.0	46.0	-3290K	224.10
3.00	16.0	46.0	-3300K	224.10
3.10	18.0	49.0	-3310K	235.40
3.20	18.0	49.0	-3320K	235.40
3.30	18.0	49.0	-3330K	235.40
3.40	20.0	52.0	-3340K	326.00
3.50	20.0	52.0	-3350K	326.00
3.60	20.0	52.0	-3360K	326.00
3.70	20.0	52.0	-3370K	326.00
3.80	22.0	55.0	-3380K	326.00
3.90	22.0	55.0	-3390K	326.00
4.00	22.0	55.0	-3400K	326.00
4.10	22.0	55.0	-3410K	333.90
4.20	22.0	55.0	-3420K	333.90

Dia. (mm)	Flute Length	Overall Length	Order Code KEN-158	Price/1 RND
4.50	24.0	58.0	-3450K	333.90
4.90	26.0	62.0	-3490K	362.00
5.00	26.0	62.0	-3500K	362.00
5.10	26.0	62.0	-3510K	362.00
5.20	26.0	62.0	-3520K	362.00
5.50	28.0	66.0	-3550K	446.30
5.60	28.0	66.0	-3560K	446.30
6.00	28.0	66.0	-3600K	446.30
6.50	31.0	70.0	-3650K	663.30
7.00	34.0	74.0	-3700K	742.10
7.50	34.0	74.0	-3750K	742.10
8.00	37.0	79.0	-3800K	742.10
8.50	37.0	79.0	-3850K	890.70
9.00	40.0	84.0	-3900K	890.70
10.00	43.0	89.0	-4100K	1104.00

SHERWOOD *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**.

Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-158	Price/1 RND
1.0	11.0	30.0	-3100K	44.50
1.1	11.0	30.0	-3110K	45.00
1.2	13.0	30.0	-3120K	46.30
1.3	13.0	30.0	-3130K	47.50
1.4	13.0	30.0	-3140K	48.80
1.5	13.0	30.0	-3150K	49.70
1.6	17.5	40.0	-3160K	51.20
1.7	17.5	40.0	-3170K	52.40
1.8	17.5	40.0	-3180K	54.20
1.9	17.5	40.0	-3190K	55.50
2.0	17.5	40.0	-3200K	56.10
2.1	17.5	40.0	-3210K	57.40
2.2	17.5	40.0	-3220K	58.70
2.3	17.5	40.0	-3230K	60.70
2.4	17.5	40.0	-3240K	61.20
2.5	17.5	40.0	-3250K	62.10
2.6	20.0	45.0	-3260K	66.90
2.7	20.0	45.0	-3270K	67.30
2.8	20.0	45.0	-3280K	69.40
2.9	20.0	45.0	-3290K	70.70
3.0	20.0	45.0	-3300K	71.10
3.1	22.0	50.0	-3310K	73.20
3.2	22.0	50.0	-3320K	74.40
3.3	22.0	50.0	-3330K	74.70
3.4	22.0	50.0	-3340K	75.60
3.5	22.0	50.0	-3350K	76.10
3.6	22.0	50.0	-3360K	77.50
3.7	22.0	50.0	-3370K	78.80
3.8	22.0	50.0	-3380K	82.20
3.9	22.0	50.0	-3390K	83.50



CARBIDE

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-158	Price/1 RND
4.0	22.0	50.0	-3400K	85.20
4.1	25.0	50.0	-3410K	90.40
4.2	25.0	50.0	-3420K	92.20
4.3	25.0	50.0	-3430K	94.30
4.4	25.0	50.0	-3440K	95.40
4.5	25.0	50.0	-3450K	96.00
4.6	25.0	50.0	-3460K	98.00
4.7	25.0	50.0	-3470K	98.40
4.8	25.0	50.0	-3480K	102.00
4.9	25.0	50.0	-3490K	103.50
5.0	25.0	50.0	-3500K	104.40
5.1	25.0	50.0	-3510K	109.60
5.2	25.0	50.0	-3520K	134.70
5.3	25.0	50.0	-3530K	134.70
5.4	25.0	50.0	-3540K	134.70
5.5	25.0	50.0	-3550K	134.70
5.6	25.0	50.0	-3560K	134.70
5.7	25.0	50.0	-3570K	134.70
5.8	25.0	50.0	-3580K	142.20
5.9	25.0	50.0	-3590K	142.20
6.0	25.0	50.0	-3600K	142.20
6.1	30.0	65.0	-3610K	177.70
6.2	30.0	65.0	-3620K	177.70
6.3	30.0	65.0	-3630K	147.70
6.4	30.0	65.0	-3640K	152.00
6.5	30.0	65.0	-3650K	161.50
6.8	30.0	65.0	-3680K	168.00
6.9	30.0	65.0	-3690K	222.70
7.0	30.0	65.0	-3700K	213.10
7.5	34.0	70.0	-3750K	250.70

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-158	Price/1 RND
7.9	34.0	70.0	-3790K	286.40
8.0	34.0	70.0	-3800K	286.40
8.1	34.0	70.0	-3810K	286.40
8.2	34.0	70.0	-3820K	286.40
8.3	34.0	70.0	-3830K	276.70
8.5	34.0	70.0	-3850K	297.90
8.7	34.0	75.0	-3870K	370.10
9.0	34.0	75.0	-3900K	372.90
9.2	34.0	75.0	-3920K	372.90
9.5	34.0	75.0	-3950K	397.90
9.6	34.0	75.0	-3960K	397.90
9.8	34.0	75.0	-3980K	423.30
10.0	34.0	75.0	-4100K	426.30
10.2	50.0	100.0	-4102K	426.30
10.5	50.0	100.0	-4105K	491.70
11.0	50.0	100.0	-4110K	543.90
11.5	50.0	100.0	-4115K	547.50
12.0	50.0	100.0	-4120K	634.40
12.5	60.0	107.0	-4125K	696.30
13.0	60.0	107.0	-4130K	710.70
13.5	60.0	107.0	-4135K	766.20
14.0	60.0	107.0	-4140K	785.40
15.0	65.0	115.0	-4150K	869.70
16.0	65.0	115.0	-4160K	931.80
17.0	73.0	123.0	-4170K	979.70
18.0	73.0	123.0	-4180K	1050.70
20.0	79.0	131.0	-4200K	1121.30

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 scribe. 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.



Type	Size	Weight each	Order Code KEN-154	Price/1 RND
SD2	2mm for M3*	10g	-1020K	292.10
SD3	3mm for M4 - M5*	10g	-1030K	333.10
SD4	4mm for M6 - M7*	20g	-1040K	336.00
SD5	5mm for M8 - M10*	30g	-1050K	428.20
SD6	6mm for M10 - M12*	30g	-1060K	516.00

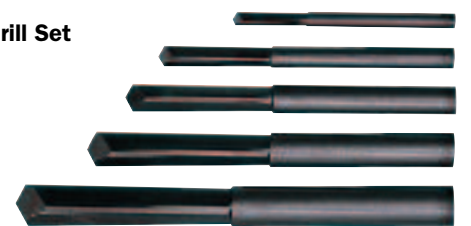
*or inch equivalent

Solid Carbide Screw Drill Set

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

**5
PIECES**

Number of Pieces	Weight per set	Order Code KEN-154	Price/1 RND
5	80g	-1100K	1900.40

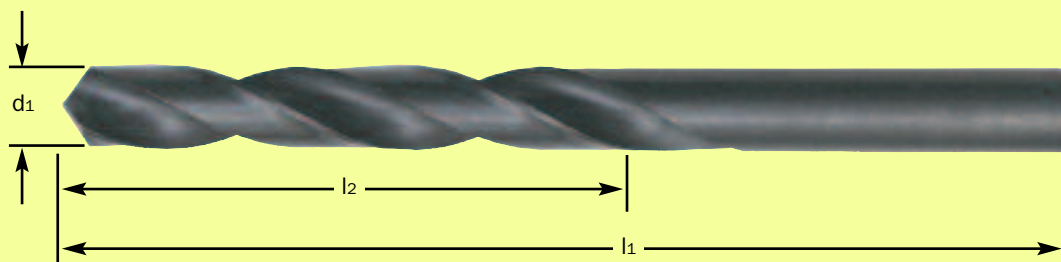


PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 025 STANDARD LENGTH DRILLS

Dimensions - Jobber Drills to BS 328/DIN 338

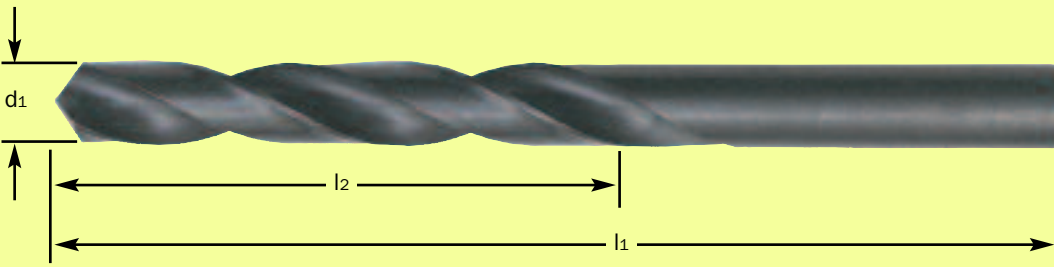
The majority of jobber drills featured in this catalogue comply with the above standards in terms of overall and working dimensions. The tables of sizes below apply to all of these products. In order to save space in the catalogue we are not repeating these dimensions after this page. Any drills which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



d1 mm	No/ h8	Inch Dec.	l2 mm	l1 mm	d1 mm	No/ h8	Inch Dec.	l2 mm	l1 mm	d1 mm	No/ h8	Inch Dec.	l2 mm	l1 mm	d1 mm	No/ h8	Inch Dec.	l2 mm	l1 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

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d_1 mm	No/ Letter	Inch Dec.	l_2 mm	l_1 mm	d_1 mm	No/ Letter	Inch Dec.	l_2 mm	l_1 mm	d_1 mm	No/ Letter	Inch Dec.	l_2 mm	l_1 mm	d_1 mm	No/ Letter	Inch Dec.	l_2 mm	l_1 mm
5.30		0.2086	52.0	86.0	7.49	M	0.2948	69.0	109.0	9.92	$\frac{25}{64}$	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	$\frac{33}{64}$	0.5157	101.0	151.0
5.40		0.2125	57.0	93.0	7.54	$\frac{19}{64}$	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	$\frac{7}{32}$	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	$\frac{17}{32}$	0.5311	108.0	160.0
5.70		0.2244	57.0	93.0	7.90		0.3110	75.0	117.0	10.32	$\frac{13}{32}$	0.4062	87.0	133.0	13.50		0.5314	108.0	160.0
5.75		0.2263	57.0	93.0	7.94	$\frac{5}{16}$	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	$\frac{35}{64}$	0.5468	108.0	160.0
5.95	$\frac{15}{64}$	0.2342	57.0	93.0	8.20	P	0.3228	75.0	117.0	10.72	$\frac{27}{64}$	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	$\frac{21}{64}$	0.3279	75.0	117.0	10.90		0.4291	94.0	142.0	14.29	$\frac{9}{16}$	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	$\frac{37}{64}$	0.5779	114.0	169.0
6.25		0.2460	63.0	101.0	8.50		0.3346	75.0	117.0	11.11	$\frac{7}{16}$	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	$\frac{19}{32}$	0.5937	120.0	178.0
6.35	$\frac{1}{4}$	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	$\frac{11}{32}$	0.3437	81.0	125.0	11.40		0.4488	94.0	142.0	15.48	$\frac{39}{64}$	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	$\frac{29}{64}$	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	$\frac{5}{8}$	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	$\frac{41}{64}$	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	$\frac{17}{64}$	0.2657	69.0	109.0	9.10		0.3582	81.0	125.0	11.90		0.4685	101.0	151.0	16.67	$\frac{21}{32}$	0.6562	125.0	184.0
6.75		0.2657	69.0	109.0	9.13	$\frac{23}{64}$	0.3594	81.0	125.0	11.91	$\frac{15}{32}$	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	$\frac{43}{64}$	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	$\frac{11}{16}$	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	$\frac{31}{64}$	0.4842	101.0	151.0	19.00		0.7480	135.0	198.0
7.10		0.2795	69.0	109.0	9.53	$\frac{3}{8}$	0.3751	87.0	133.0	12.40		0.4881	101.0	151.0	19.50		0.7677	140.0	205.0
7.14	$\frac{9}{32}$	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	$\frac{1}{2}$	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					

GROUP 025 STANDARD LENGTH DRILLS

SENATOR
QUALITY TOOLING

**HSS Roll Forged
Jobber Drills**

For HSS Ground Flute Jobber Drills
for industrial applications, please see page 50



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 46-47

Metric			Metric			Metric			Inch		
PRICED PER 10			PRICED PER 10			PRICED PER 10			PRICED PER 10		
Dia. (mm)	Order Code SEN-025	Price/10 RND	Dia. (mm)	Order Code SEN-025	Price/10 RND	Dia. (mm)	Order Code SEN-025	Price/10 RND	Dia. (inch)	Order Code SEN-025	Price/10 RND
1.00	-0040N	41.50	4.00	-0093W	56.30	7.50	-0135R	157.30	1/16"	-0001D	14.30
1.20	-0044S	41.50	4.20	-0095Y	56.30	8.00	-0141Y	161.70	3/32"	-0001F	14.30
1.50	-0050N	41.50	4.50	-0099C	62.50	8.50	-0147E	203.20	1/8"	-0001H	19.10
1.80	-0056F	41.50	4.80	-0103G	62.50	9.00	-0153L	240.90	9/64"	-0001J	28.10
2.00	-0060K	43.70	4.90	-0104H	62.50	9.50	-0159S	240.90	5/32"	-0001K	28.10
2.50	-0070W	43.70	5.00	-0105J	82.30	10.00	-0165N	262.30	3/16"	-0001M	52.00
2.80	-0076C	43.70	5.10	-0106K	82.30	10.20	-0167B	286.20	7/32"	-0001P	47.10
2.90	-0078E	43.70	5.20	-0107L	82.30	10.50	-0171F	286.20	1/4"	-0001R	61.40
3.00	-0080G	46.80	5.50	-0111Q	91.70	11.00	-0177M	308.60	5/16"	-0001W	113.00
3.10	-0081H	46.80	6.00	-0117X	102.90	11.50	-0183T	334.40	3/8"	-0002A	188.50
3.20	-0083K	46.80	6.20	-0119N	102.90	12.00	-0189A	395.00	7/16"	-0002E	216.60
3.30	-0085M	46.80	6.50	-0123D	119.30	12.50	-0195G	445.90	1/2"	-0002J	325.00
3.50	-0087P	53.10	6.80	-0127H	119.30	13.00	-0201N	471.00			
3.80	-0091T	53.10	7.00	-0129K	129.90	14.00	-0213B	632.00			

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	Order Code SEN-025	Price/1 RND
0.65kg	-9250K	238.00

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	Order Code SEN-025	Price/1 RND
1.60kg	-9150K	526.00

x 0.1mm
6.0 ~ 10.0

41 Piece Set
Contents (mm):

**41
PIECES**

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	Order Code SEN-025	Price/1 RND
2.10kg	-9110K	904.90

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

170 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	Order Code SEN-025	Price/1 RND
3.8kg	-9300K	2956.80



170

x 0.1mm
1.0 ~ 6.0

51 Piece Set
Contents (mm):

**51
PIECES**

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	Order Code SEN-025	Price/1 RND
0.60kg	-9060K	367.80

Multi-Purpose 'Dial-A-Drill' Set

18 Piece 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, 10mm.

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

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

18
PIECES

Weight each	Order Code	Price/1 RND
452g	SEN-025	275.80

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, M12.

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

x 0.7mm
2.5 ~ 10.228
PIECES

NEW



For Dimensions

See Pages 46 - 47

Weight each	Order Code	Price/1 RND
	SEN-025	864.00
	-9960K	



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	Price/1 RND
13.00	78.0	150.0	-1805A	72.60
13.50	78.0	150.0	-1805B	80.40
14.00	78.0	150.0	-1806C	80.40
14.50	78.0	150.0	-1806D	89.50
15.00	78.0	150.0	-1807E	89.50
15.50	78.0	150.0	-1807F	94.20
16.00	78.0	150.0	-1808G	94.20
16.50	78.0	150.0	-1808H	112.10
17.00	78.0	150.0	-1809J	112.10
17.50	78.0	150.0	-1809K	110.60
18.00	78.0	150.0	-1810L	110.60
18.50	78.0	150.0	-1810M	119.20
19.00	78.0	150.0	-1811N	119.20
19.50	85.0	150.0	-1811P	129.90
20.00	85.0	150.0	-1812Q	127.60
21.00	85.0	150.0	-1813R	144.60
22.00	85.0	150.0	-1814S	171.10
23.00	85.0	150.0	-1815T	182.80
24.00	85.0	150.0	-1816V	188.50
25.00	85.0	150.0	-1817W	191.40
26.00	85.0	150.0	-1818X	1987.20
27.00	85.0	150.0	-1819Y	2033.80
28.00	85.0	150.0	-1820Z	2095.90
29.00	85.0	150.0	-1821A	2173.50
30.00	85.0	150.0	-1822B	2297.70
31.00	85.0	150.0	-1823C	2346.30
32.00	85.0	150.0	-1824D	2406.40



Inch

Diameter (Inch)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
9/16"	3 1/16"	6"	-1764E	108.20
19/32"	3 1/16"	6"	-1766G	108.20
5/8"	3 1/16"	6"	-1768J	142.40
41/64"	3 1/16"	6"	-1769K	142.40
21/32"	3 1/16"	6"	-1770L	142.40
11/16"	3 1/16"	6"	-1772N	174.40
3/4"	3 1/16"	6"	-1776S	185.50
13/16"	3 3/8"	6"	-1780X	185.50
7/8"	3 3/8"	6"	-1784B	223.10
15/16"	3 3/8"	6"	-1788F	227.00
1"	3 3/8"	6"	-1792K	305.40
1 1/16"	3 3/8"	6"	-1794M	327.90
1 1/8"	3 3/8"	6"	-1796P	408.20
1 1/4"	3 3/8"	6"	-1800T	462.10

HSS Reduced Shank Drill Set (Blacksmiths)

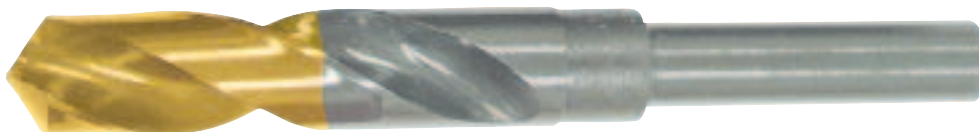
5 Piece Set Contents:

14, 16, 18, 20 and 22mm.

5
PIECES

Number of Pieces	Order Code SHR-025	Price/1 RND
5	-8960K	668.10

Bright Finish - TiN Tipped



HSS TiN-tip

NEW

Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
14.00	78.0	150.0	-1736C	102.60
15.00	78.0	150.0	-1737E	118.80
16.00	78.0	150.0	-1738G	124.20

Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
17.00	78.0	150.0	-1739J	140.40
18.00	78.0	150.0	-1740L	140.40
19.00	78.0	150.0	-1741P	140.40

Diameter (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
20.00	85.0	150.0	-1742Q	167.40
22.00	85.0	150.0	-1744S	210.60
25.00	85.0	150.0	-1747W	237.60

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 025 STANDARD LENGTH DRILLS

SHERWOOD QUALITY CUTTING TOOLS 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.



METRIC HSS

DIN 338 For Dimensions
BS 328 See Pages 46 - 47

Series J100 - Metric			PRICED PER 10			PRICED PER 10			Series J100 - Inch			PRICED PER 10		
Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (mm)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/10 RND
1.00	-0231B	31.30	5.80	-0235H	98.80	11.00	-0239T	391.50	1/64"	-0243A	507.40	13/64"	-0243Z	1163.20
1.10	-0231D	31.30	5.90	-0235K	98.80	11.20	-0239W	391.50	1/32"	-0243B	325.70	3/8"	-0244A	1002.20
1.20	-0231F	31.30	6.00	-0235M	90.50	11.30	-0239X	391.50	3/64"	-0243C	298.10	25/64"	-0244B	1431.60
1.30	-0231H	31.30	6.10	-0235P	90.50	11.40	-0239Y	391.50	1/16"	-0243D	219.10	13/32"	-0244C	1223.10
1.40	-0231K	31.30	6.20	-0235R	113.40	11.50	-0239Z	391.50	5/64"	-0243E	256.30	27/64"	-0244D	1661.20
1.50	-0231M	37.10	6.30	-0235T	113.40	11.60	-0240A	391.50	3/32"	-0243F	194.20	7/16"	-0244E	1417.30
1.60	-0231P	37.10	6.40	-0235W	113.40	11.70	-0240B	391.50	9/64"	-0243G	241.60	29/64"	-0244F	1894.20
1.70	-0231R	37.10	6.50	-0235Y	113.40	11.80	-0240C	391.50	1/8"	-0243H	199.40	15/32"	-0244G	1692.30
1.80	-0231T	37.10	6.60	-0236A	113.40	11.90	-0240D	391.50	9/32"	-0243J	280.30	31/64"	-0244H	1906.20
1.90	-0231W	37.10	6.70	-0236C	113.40	12.00	-0240E	456.40	19/64"	-0243K	244.10	1/2"	-0244J	1971.70
1.95	-0231Y	37.10	6.80	-0236E	133.60	12.00	-0240F	456.40	11/64"	-0243L	333.20			
2.00	-0232A	37.10	6.90	-0236G	133.60	12.10	-0240G	456.40	3/16"	-0243M	297.40			
2.10	-0232C	37.10	7.00	-0236J	133.60	12.20	-0240H	456.40	13/64"	-0243N	410.20			
2.20	-0232E	37.10	7.10	-0236L	133.60	12.30	-0240I	456.40	7/32"	-0243P	370.40			
2.30	-0232G	37.10	7.20	-0236N	133.60	12.40	-0240J	478.40	15/64"	-0243Q	542.00			
2.40	-0232J	37.10	7.30	-0236Q	158.30	12.50	-0240K	478.40	1/4"	-0243R	461.10			
2.50	-0232L	47.00	7.40	-0236S	158.30	12.60	-0240L	478.40	17/64"	-0243S	626.30			
2.60	-0232N	47.00	7.50	-0236V	158.30	12.70	-0240M	478.40	9/32"	-0243T	578.80			
2.70	-0232Q	47.00	7.60	-0236X	158.30	12.80	-0240N	478.40	19/64"	-0243V	814.50			
2.80	-0232S	47.00	7.70	-0236Z	158.30	12.90	-0240P	478.40	5/16"	-0243W	685.50			
2.90	-0232V	47.00	7.80	-0237B	201.20	13.00	-0240R	516.80	21/64"	-0243X	994.30			
3.00	-0232X	47.00	7.90	-0237D	201.20				11/32"	-0243Y	1069.10			
3.10	-0232Z	47.00	8.00	-0237F	201.20				23/64"	-0243Z	1163.20			
3.20	-0233B	48.70	8.10	-0237H	201.20				3/8"	-0244A	1002.20			
3.30	-0233D	48.70	8.20	-0237K	201.20				25/64"	-0244B	1431.60			
3.40	-0233F	48.70	8.30	-0237M	201.20				13/32"	-0244C	1223.10			
3.50	-0233H	48.70	8.40	-0237P	201.20				27/64"	-0244D	1661.20			
3.60	-0233K	48.70	8.50	-0237R	215.90				7/16"	-0244E	1417.30			
3.70	-0233M	51.90	8.60	-0237T	215.90				29/64"	-0244F	1894.20			
3.80	-0233P	51.90	8.70	-0237W	215.90				15/32"	-0244G	1692.30			
3.90	-0233R	51.90	8.80	-0237Y	215.90				31/64"	-0244H	1906.20			
4.00	-0233T	51.90	8.90	-0237Z	215.90				1/2"	-0244J	1971.70			
4.10	-0233W	59.40	9.00	-0238A	237.00									
4.20	-0233Y	59.40	9.10	-0238B	237.00									
4.30	-0234A	59.40	9.20	-0238C	237.00									
4.40	-0234C	59.40	9.30	-0238G	237.00									
4.50	-0234E	59.40	9.40	-0238H	237.00									
4.60	-0234G	59.40	9.50	-0238L	260.70									
4.70	-0234J	59.40	9.60	-0238N	260.70									
4.80	-0234L	61.80	9.70	-0238P	260.70									
4.90	-0234N	67.60	9.80	-0238Q	260.70									
5.00	-0234Q	67.60	9.90	-0238R	260.70									
5.10	-0234S	67.60	10.00	-0238X	309.20									
5.20	-0234V	89.10	10.10	-0238Y	309.20									
5.30	-0234X	89.10	10.20	-0239B	309.20									
5.40	-0234Z	89.10	10.50	-0239H	338.50									
5.50	-0235B	89.10	10.70	-0239L	338.50									
5.60	-0235D	89.10	10.80	-0239M	338.50									
5.70	-0235F	89.10	10.90	-0239N	338.50									

Series J100 - Inch			PRICED PER 10			PRICED PER 10			PRICED PER 10					
Dia. (inch)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/10 RND	Dia. (inch)	Order Code SHR-025	Price/10 RND
1/64"	-0243A	507.40	13/64"	-0243Z	1163.20	1/32"	-0243B	325.70	3/8"	-0244A	1002.20	25/64"	-0244B	1431.60
1/32"	-0243B	325.70	3/8"	-0244A	1002.20	3/64"	-0243C	298.10	25/64"	-0244B	1431.60	13/32"	-0244C	1223.10
3/64"	-0243C	298.10	25/64"	-0244B	1431.60	1/16"	-0243D	219.10	13/32"	-0244C	1223.10	27/64"	-0244D	1661.20
1/16"	-0243D	219.10	13/32"	-0244C	1223.10	5/64"	-0243E	256.30	27/64"	-0244D	1661.20	7/16"	-0244E	1417.30
5/64"	-0243E	256.30	27/64"	-0244D	1661.20	3/32"	-0243F	194.20	7/16"	-0244E	1417.30	29/64"	-0244F	1894.20
3/32"	-0243F	194.20	29/64"	-0244F	1894.20	7/64"	-0243G	241.60	15/32"	-0244G	1692.30	31/64"	-0244H	1906.20
7/64"	-0243G	241.60	31/64"	-0244H	1906.20	1/8"	-0243H	199.40	1/2"	-0244J	1971.70			
1/8"	-0243H	199.40				9/64"	-0243J	280.30						
9/64"	-0243J	280.30				5/32"	-0243K	244.10						
5/32"	-0243K	244.10				11/64"	-0243L	333.20						
11/64"	-0243L	333.20				3/16"	-0243M	297.40						
3/16"	-0243M	297.40				13/64"	-0243N	410.20						
13/64"	-0243N	410.20				7/32"	-0243P	370.40						
7/32"	-0243P	370.40				15/64"	-0243Q	542.00						
15/64"	-0243Q	542.00				1/4"	-0243R	461.10						
1/4"	-0243R	461.10				17/64"	-0243S	626.30						
17/64"	-0243S	626.30				9/32"	-0243T	578.80						
9/32"	-0243T	578.80				19/64"	-0243V	814.50						
19/64"	-0243V	814.50				5/16"	-0243W	685.50						
5/16"	-0243W	685.50				21/64"	-0243X	994.30						
21/64"	-0243X	994.30				11/32"	-0243Y	1069.10						
11/32"	-0243Y	1069.10				23/64"	-0243Z	1163.20						
23/64"	-0243Z	1163.20				3/8"	-0244A	1002.20						
3/8"	-0244A	1002.20				25/64"	-0244B	1431.60						
25/64"	-0244B	1431.60				13/32"	-0244C	1223.10						
13/32"	-0244C	1223.10				27/64"	-0244D	1661.20						
27/64"	-0244D	1661.20				7/16"	-0244E	1417.30						
7/16"	-0244E	1417.30				29/64"	-0244F	1894.20						
29/64"	-0244F	1894.20				15/32"	-0244G	1692.30						
15/32"	-0244G	1692.30				31/64"	-0244H	1906.20						
31/64"	-0244H	1906.20				1/2"	-0244J	1971.70						
1/2"	-0244J	1971.70												

HSS Jobber Drill Set - Bright Finish

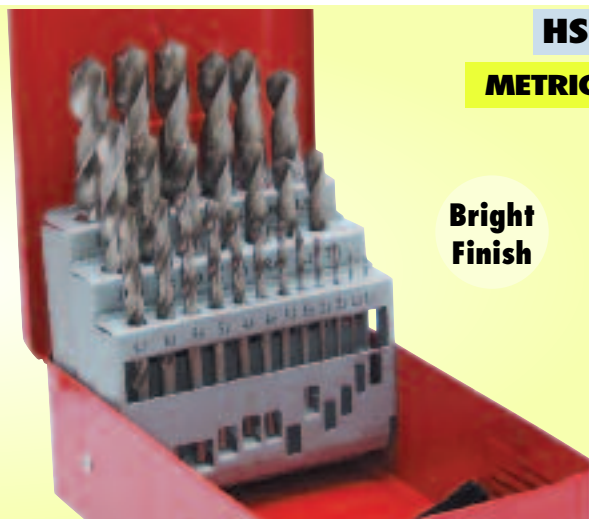
Industrial quality. Ground flute. Supplied in indexing metal cases. Manufactured to **BS328 : Part 1 : 1986, DIN 338N & ANSI B94 - 11M.**

**25
PIECES**

**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	

Number of Pieces	Weight each	Order Code SHR-025	Price/1 RND
25		-8520K	978.60



HSS

METRIC

**Bright
Finish**



HSS Jobber Drills - Metric - Steam Tempered

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**.

Black Finish (W-Finish)

This is the most common surface finish and is the result of a steam tempering operation in which steam is passed over the product during a controlled tempering cycle, producing a black oxide layer. Black tools are generally recommended for ferrous applications where the oxide layer aids chip flow, helps to dissipate heat by retaining some coolant on the tool surface and also helps to prevent the tool from staining.



For Dimensions

See Pages 46 - 47

HSS

METRIC

INCH

For Bright Finish Jobber Drills see page 50



Series J100 - Metric

PRICED
PER 10

Dia. (mm)	Order Code SHR-025	Price/10 RND
0.25	-0010X	45.00
0.30	-0012A	45.00
0.35	-0014F	45.00
0.40	-0016L	45.00
0.42	-0017N	45.00
0.45	-0018P	45.00
0.50	-0020R	45.00
0.52	-0021S	45.00
0.55	-0022T	45.00
0.58	-0023V	45.00
0.60	-0024W	45.00
0.62	-0025X	45.00
0.65	-0026Y	45.00
0.68	-0027N	45.00
0.70	-0028A	48.60
0.72	-0029B	48.60
0.75	-0030C	48.60
0.78	-0031D	48.60
0.80	-0032E	48.60
0.82	-0033F	48.60
0.85	-0034G	48.60
0.88	-0035H	48.60
0.90	-0036J	48.60
0.92	-0037K	48.60
0.95	-0038L	48.60
0.98	-0039M	48.60
1.00	-0040N	70.30
1.05	-0041P	94.50
1.10	-0042Q	94.50
1.15	-0043R	94.50
1.20	-0044S	94.50
1.25	-0045T	94.50
1.30	-0046V	94.50
1.35	-0047W	94.50
1.40	-0048X	94.50
1.45	-0049Y	94.50
1.50	-0050N	61.60
1.55	-0051A	61.60
1.60	-0052B	61.60
1.65	-0053C	61.60
1.70	-0054D	61.60
1.75	-0055E	61.60
1.80	-0056F	61.60
1.85	-0057G	74.60
1.90	-0058H	74.60
1.95	-0059J	74.60
2.00	-0060K	74.60
2.05	-0061L	74.60
2.10	-0062M	74.60
2.15	-0063N	74.60
2.20	-0064P	74.60
2.25	-0065Q	85.90
2.30	-0066R	85.90
2.35	-0067S	85.90
2.40	-0068T	85.90
2.45	-0069V	85.90
2.50	-0070W	85.90
2.55	-0071X	85.90
2.60	-0072Y	55.80
2.65	-0073N	85.90
2.70	-0074A	85.90
2.75	-0075B	85.90
2.80	-0076C	85.90
2.85	-0077D	85.90
2.90	-0078E	85.90
2.95	-0079F	85.90
3.00	-0080G	85.90
3.10	-0081H	85.90

PRICED
PER 10

Dia. (mm)	Order Code SHR-025	Price/10 RND
3.15	-0082J	85.90
3.20	-0083K	88.50
3.25	-0084L	88.50
3.30	-0085M	88.50
3.40	-0086N	88.50
3.45	-0087D	88.50
3.50	-0087P	96.20
3.60	-0088Q	96.20
3.65	-0089D	96.20
3.70	-0089R	96.20
3.75	-0090S	112.90
3.80	-0091T	112.90
3.90	-0092V	112.90
4.00	-0093W	112.90
4.05	-0094L	112.90
4.10	-0094X	112.90
4.20	-0095Y	112.90
4.25	-0096N	112.90
4.30	-0097A	112.90
4.40	-0098B	112.90
4.50	-0099C	112.90
4.60	-0100D	124.90
4.70	-0101E	124.90
4.75	-0102F	133.60
4.80	-0103G	133.60
4.85	-0103X	121.70
4.90	-0104H	127.50
5.00	-0105J	108.40
5.10	-0106K	120.60
5.20	-0107L	118.00
5.25	-0108M	163.00
5.30	-0109N	149.20
5.40	-0110P	151.00
5.50	-0111Q	134.40
5.60	-0112R	158.70
5.70	-0113S	158.70
5.75	-0114T	181.20
5.80	-0115V	144.80
5.90	-0116W	168.20
6.00	-0117X	140.50
6.10	-0118Y	181.20
6.20	-0119N	161.30
6.25	-0120A	192.30
6.30	-0121B	194.20
6.40	-0122C	194.20
6.50	-0123D	165.60
6.60	-0124E	217.70
6.70	-0125F	217.70
6.75	-0126G	221.10
6.80	-0127H	184.70
6.90	-0128J	217.70
7.00	-0129K	184.70
7.10	-0130L	241.00
7.20	-0131M	221.10
7.30	-0133P	241.00
7.40	-0134Q	241.00
7.50	-0135R	215.90
7.60	-0136S	287.80
7.70	-0137T	293.10
7.80	-0139W	248.00
7.90	-0140X	286.20
8.00	-0141Y	240.20
8.10	-0142N	313.10
8.20	-0143A	314.70
8.25	-0144B	318.20
8.30	-0145C	314.70
8.40	-0146D	314.70
8.50	-0147E	267.00

PRICED
PER 10

Dia. (mm)	Order Code SHR-025	Price/10 RND
8.60	-0148F	354.70
8.70	-0149G	354.70
8.75	-0150H	391.00
8.80	-0151J	359.80
8.90	-0152K	379.80
9.00	-0153L	314.40
9.10	-0154M	403.10
9.20	-0155N	407.50
9.30	-0157Q	403.10
9.40	-0158R	403.10
9.50	-0159S	345.10
9.60	-0160T	450.80
9.70	-0161V	450.80
9.80	-0163X	460.40
9.90	-0164Y	460.40
10.00	-0165N	420.80
10.10	-0166A	475.90
10.20	-0167B	475.90
10.25	-0168C	582.10
10.30	-0169D	482.90
10.40	-0170E	482.90
10.50	-0171F	441.70
10.60	-0172G	547.00
10.70	-0173H	539.20
10.80	-0175K	594.70
10.90	-0176L	594.70
11.00	-0177M	507.70
11.10	-0178N	613.80
11.20	-0179P	599.90
11.30	-0181R	625.90
11.40	-0182S	625.90
11.50	-0183T	555.00
11.60	-0184V	696.20
11.70	-0185W	696.20
11.80	-0187Y	662.40
11.90	-0188N	676.20
12.00	-0189A	601.60
12.10	-0190B	716.10
12.20	-0191C	722.60
12.25	-0192D	737.70
12.30	-0193E	730.30
12.40	-0194F	714.40
12.50	-0195G	652.00
12.60	-0196H	781.90
12.70	-0197J	746.50
12.80	-0199L	762.90
12.90	-0200M	781.90
13.00	-0201N	716.40

PRICED
PER 1

Dia. (mm)	Order Code SHR-025	Price/1 RND
13.10	-0202P	98.80
13.20	-0203Q	98.80
13.30	-0205S	125.40
13.40	-0206T	125.40
13.50	-0207V	94.70
13.60	-0208W	125.40
13.70	-0209X	126.10
13.75	-0210Y	126.10
13.80	-0211N	108.20
13.90	-0212A	108.20
14.00	-0213B	108.20
14.25	-0214C	119.80
14.50	-0215D	121.20
14.75	-0216E	152.40

PRICED
PER 1

Dia. (mm)	Order Code SHR-025	Price/10 RND
15.00	-0217F	133.20
15.25	-0218G	169.60
15.50	-0219H	144.00
15.75	-0220J	161.50
16.00	-0221K	144.00
16.50	-0222L	162.90
17.00	-0223M	163.90
17.50	-0224N	170.60
18.00	-0225P	182.10
18.50	-0226Q	198.40
19.00	-0227R	210.80
19.50	-0228S	218.50
20.00	-0229T	219.50

PRICED
PER 10

Dia. (Inch)	Order Code SHR-025	Price/10 RND
1/64"	-0001A	105.20
1/32"	-0001B	105.20
3/64"	-0001C	105.20
1/16"	-0001D	105.20
5/64"	-0001E	105.20
3/32"	-0001F	105.20
7/64"	-0001G	105.20
1/8"	-0001H	105.20
9/64"	-0001J	105.20
5/32"	-0001K	125.00
11/64"	-0001L	130.30
3/16"	-0001M	140.40
13/64"	-0001N	140.40
7/32"	-0001P	143.90
15/64"	-0001Q	156.60
1/4"	-0001R	172.50
17/64"	-0001S	227.30
9/32"	-0001T	301.60
19/64"	-0001V	365.50
5/16"	-0001W	397.60
21/64"	-0001X	422.50
11/32"	-0001Y	441.10
23/64"	-0001Z	478.50
3/8"	-0002A	644.90
25/64"	-0002B	681.40
13/32"	-0002C	700.80
27/64"	-0002D	767.10
7/16"	-0002E	790.00
29/64"	-0002F	810.00
15/32"	-0002G	840.80
31/64"	-0002H	852.70
1/2"	-0002J	887.70

PRICED
PER 1

Dia. (Inch)	Order Code SHR-025	Price/1 RND
33/64"	-0002K	662.30
17/32"	-0002L	662.30
35/64"	-0002M	680.70
9/16"	-0002N	137.30
37/64"	-0002P	146.70
19/32"	-0002Q	152.80
39/64"	-0002R	169.70
5/8"	-0002S	180.30
41/64"	-0002T	199.50
21/32"	-0002V	242.60
43/64"	-0002W	276.50
11/16"	-0002X	295.90
23/32"	-0002Z	307.70
3/4"	-0003B	301.90

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

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 46 - 47****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	

Number of Pieces	Order Code SHR-025	Price/1 RND
25	-8500K	851.10

**51
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	

Number of Pieces	Order Code SHR-025	Price/1 RND
51	-8380K	886.80

**32
PIECES****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	

Number of Pieces	Order Code SHR-025	Price/1 RND
32	-8470K	988.70

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	

Number of Pieces	Order Code SHR-025	Price/1 RND
19	-9000K	807.80

**19
PIECES****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	

Number of Pieces	Order Code SHR-025	Price/1 RND
19	-8460K	445.20

**41
PIECES****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

Number of Pieces	Order Code SHR-025	Price/1 RND
41	-8420K	1763.40

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.**

HSS**28
PIECES****METRIC
Tap & Drill**Taps M3 ~ M12
+Tapping Drills
2.5 ~ 10.2**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
Number of Pieces	Order Code SHR-025	Price/1 RND	
28	-9960K	2731.00	

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
PIECES****24 Piece Tap & Drill Sets**
Taps (Taper, Second and Bottom)**NEW****UNF****Tap & Drill**Taps No10 ~ 1/2"
+Tapping Drills
4.1 ~ 11.5

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**Tap & Drill**Taps 3/16" ~ 1/2"
+Tapping Drills
3.7 ~ 10.5

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**Tap & Drill**Taps No8 ~ 1/2"
+Tapping Drills
3.5 ~ 10.28

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

Tapping Drills

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

No of Pieces	Type	Order Code SHR-025	Price/1 RND
24	UNC (No.8 - 1/2")	-9970K	2831.80
	UNF (No.10 - 1/2")	-9980K	2862.00
	BSW (3/16" - 1/2")	-9990K	2929.00



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 46 - 47



HSS

**7
PIECES**

NEW



X 1/32"
1/16" ~ 1/4"

1/16" 3/32"	1/8" 5/32"	3/16" 7/32"	1/4"
Number of Pieces	Order Code	Price/1 RND	
7	-8890K	153.90	

**29
PIECES**



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

1/16" 5/64" 3/32" 7/64" 1/8" 9/64"	5/32" 11/64" 3/16" 13/64" 7/32" 15/64"	1/4" 17/64" 9/32" 19/64" 5/16" 21/64"	11/32" 23/64" 3/8" 25/64" 13/32" 27/64"	7/16" 29/64" 15/32" 31/64" 1/2"
Number of Pieces	Order Code	Price/1 RND		
29	-8800K	1732.20		

**13
PIECES**



X 1/64"
1/16" ~ 1/4"

1/16" 5/64" 3/32"	7/64" 1/8" 9/64"	5/32" 11/64" 3/16"	13/64" 7/32" 15/64"	1/4"
Number of Pieces	Order Code	Price/1 RND		
13	-8680K	420.70		

**15
PIECES**



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

1/16" 3/32" 1/8"	5/32" 3/16" 7/32"	1/4" 9/32" 5/16"	11/32" 3/8" 13/32"	7/16" 15/32" 1/2"
Number of Pieces	Order Code	Price/1 RND		
15	-8840K	960.90		

**21
PIECES**



X 1/64"
1/16" ~ 3/8"

1/16" 5/64" 3/32" 7/64"	1/8" 9/64" 5/32" 11/64"	3/16" 13/64" 7/32" 15/64"	1/4" 17/64" 9/32" 19/64"	5/16" 21/64" 11/32" 23/64"	3/8"
Number of Pieces	Order Code	Price/1 RND			
21	-8720K	455.80			

Assorted Drill Set

100 Piece

Assorted inch and metric sizes up to 1/2" - 13mm. Straight shank. Supplied in a plastic case. Set contents may vary.



**100
PIECES**

Number of Pieces	Order Code	Price/1 RND
100	PRO-901	-0190A 419.20

**60
PIECES**



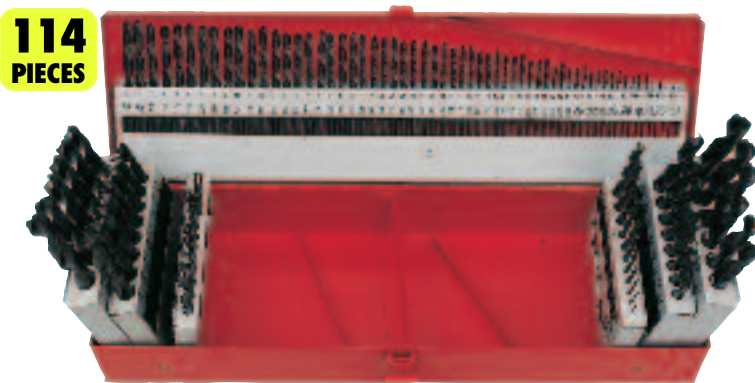
GAUGE

No.1 to 60

Inclusive

Number of Pieces	Order Code	Price/1 RND
60	-8880K	686.00

**114
PIECES**



x 0.5mm
1.0 ~ 13.0

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

GAUGE

No.1 to 60

Inclusive

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

(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	Order Code	Price/1 RND				
114	-8920K	2721.00				

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

SWISS+TECH *HSS Straight Shank
TiN Tipped Jobber Drills*

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 46 - 47****EXTENDED
RANGE****DIN 1412A 118°****Series 1004 - Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND
1.00	-5010A	9.10
1.10	-5011A	9.10
1.20	-5012A	9.10
1.30	-5013A	9.10
1.40	-5014A	9.10
1.50	-5015A	8.10
1.60	-5016A	8.30
1.70	-5017A	8.30
1.80	-5018A	8.30
1.90	-5019A	8.30
2.00	-5020A	8.10
2.10	-5021A	8.30
2.20	-5022A	8.30
2.30	-5023A	9.60
2.40	-5024A	9.30
2.50	-5025A	8.90
2.60	-5026A	9.00
2.70	-5027A	9.40
2.80	-5028A	9.00
2.90	-5029A	9.70
3.00	-5030A	9.40
3.10	-5031A	10.40
3.20	-5032A	10.40
3.30	-5033A	10.70
3.40	-5034A	10.70
3.50	-5035A	11.50
3.60	-5036A	12.10
3.70	-5037A	12.10
3.80	-5038A	11.50
3.90	-5039A	12.10
4.00	-5040A	11.50
4.10	-5041A	12.50
4.20	-5042A	13.50
4.30	-5043A	13.90
4.40	-5044A	13.90
4.50	-5045A	12.90
4.60	-5046A	15.30
4.70	-5047A	15.30
4.80	-5048A	13.40
4.90	-5049A	15.50
5.00	-5050A	12.40
5.10	-5051A	18.10
5.20	-5052A	17.30

Dia. (mm)	Order Code SWT-125	Price/1 RND
5.30	-5053A	18.10
5.40	-5054A	18.20
5.50	-5055A	18.70
5.60	-5056A	17.70
5.70	-5057A	20.70
5.80	-5058A	17.70
5.90	-5059A	20.20
6.00	-5060A	18.20
6.10	-5061A	20.20
6.20	-5062A	20.20
6.30	-5063A	23.20
6.40	-5064A	23.20
6.50	-5065A	21.30
6.60	-5066A	26.10
6.70	-5067A	26.10
6.80	-5068A	23.40
6.90	-5069A	26.10
7.00	-5070A	23.70
7.10	-5071A	25.30
7.20	-5072A	25.30
7.50	-5075A	27.50
7.80	-5078A	30.20
8.00	-5080A	30.20
8.10	-5081A	30.20
8.20	-5082A	30.20
8.30	-5083A	30.20
8.40	-5084A	30.20
8.50	-5085A	34.10
8.60	-5086A	34.10
8.70	-5087A	34.10
8.80	-5088A	34.10
9.00	-5090A	39.30
9.10	-5091A	39.30
9.20	-5092A	39.30
9.50	-5095A	43.10
9.60	-5096A	39.30
9.80	-5098A	39.30
10.00	-5100A	47.00
10.20	-5102A	56.50
10.30	-5103A	56.50
10.40	-5104A	56.50
10.50	-5105A	48.10
10.80	-5108A	57.40

Inch Sizes

Dia. (inch)	Order Code SWT-125	Price/1 RND
1/16"	-5002A	12.40
3/32"	-5002L	12.40
1/8"	-5003A	12.40
9/64"	-5003L	12.40
5/32"	-5004A	12.90
3/16"	-5004L	15.90
7/32"	-5005A	20.80
1/4"	-5005L	24.50
5/16"	-5006L	33.60
3/8"	-5007A	54.90
7/16"	-5007L	78.00
1/2"	-5008A	94.70

HSS TiN Tipped Jobber Drill Sets**19 & 25 Piece Metric Sets****x 0.5mm**
1.0 ~ 10.0**19
PIECES****x 0.5mm**
1.0 ~ 13.0**25
PIECES**Number
of PiecesOrder Code
SWT-125Price/1
RND19
25-9010A
-9020A1420.60
2903.20**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 46 - 47****DIN 1412A 118°****Series 1001 - Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND
1.00	-0010A	50.60
1.20	-0012A	51.10
1.50	-0015A	46.80
1.60	-0016A	46.80
2.00	-0020A	45.40
2.50	-0025A	45.40
3.00	-0030A	46.50
3.10	-0031A	47.90
3.20	-0032A	48.40

Dia. (mm)	Order Code SWT-125	Price/1 RND
3.30	-0033A	46.50
3.50	-0035A	46.80
4.00	-0040A	47.90
4.20	-0042A	48.40
4.50	-0045A	50.10
5.00	-0050A	51.70
5.50	-0055A	57.40
6.00	-0060A	56.90
6.10	-0061A	84.20

Dia. (mm)	Order Code SWT-125	Price/1 RND
6.20	-0062A	85.00
6.50	-0065A	82.00
6.80	-0068A	84.20
7.00	-0070A	85.60
7.50	-0075A	89.40
7.80	-0078A	98.40
8.00	-0080A	93.60
8.50	-0085A	98.40
9.00	-0090A	103.20

Dia. (mm)	Order Code SWT-125	Price/1 RND
9.50	-0095A	129.10
10.00	-0100A	128.00
10.20	-0102A	179.70
10.50	-0105A	134.00
11.00	-0110A	140.90
11.50	-0115A	149.30
12.00	-0120A	156.80
12.50	-0125A	170.70
13.00	-0130A	179.70

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.

DIN
338

For Dimensions

BS
328

See Pages 46 - 47

HSS-Co**DIN 1412C 135°****Series 1020 - Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
1.00	-0410A	33.60	3.10	-0431A	22.40	5.80	-0458A	39.90	9.50	-0495A	115.70
1.10	-0411A	33.60	3.20	-0432A	22.40	5.90	-0459A	39.90	9.60	-0496A	103.80
1.20	-0412A	24.50	3.30	-0433A	22.40	6.00	-0460A	46.80	9.70	-0497A	103.80
1.40	-0414A	24.50	3.40	-0434A	22.40	6.20	-0462A	46.80	10.00	-0500A	114.30
1.50	-0415A	23.50	3.50	-0435A	21.90	6.40	-0464A	46.80	10.20	-0502A	126.40
1.60	-0416A	18.60	3.70	-0437A	22.90	6.50	-0465A	46.80	10.40	-0504A	126.40
1.70	-0417A	18.60	3.80	-0438A	22.90	6.70	-0467A	54.40	10.50	-0505A	126.40
1.80	-0418A	18.60	4.00	-0440A	24.50	6.80	-0468A	54.40	11.00	-0510A	140.90
1.90	-0419A	18.60	4.10	-0441A	28.20	7.00	-0470A	52.80	10.80	-0508A	126.40
2.00	-0420A	18.60	4.20	-0442A	28.20	7.10	-0471A	52.80	11.50	-0515A	156.20
2.10	-0421A	18.60	4.30	-0443A	28.20	7.20	-0472A	60.00	11.80	-0518A	184.80
2.20	-0422A	18.60	4.50	-0445A	27.70	7.50	-0475A	60.00	12.00	-0520A	167.90
2.40	-0424A	18.60	4.80	-0448A	32.60	8.00	-0480A	69.70	12.50	-0525A	173.70
2.50	-0425A	18.60	4.90	-0449A	32.60	8.10	-0481A	69.70	13.00	-0530A	192.50
2.60	-0426A	19.20	5.00	-0450A	34.20	8.20	-0482A	80.90	13.50	-0535A	192.50
2.70	-0427A	19.20	5.10	-0451A	35.00	8.30	-0483A	80.90	14.00	-0540A	200.80
2.80	-0428A	19.20	5.20	-0452A	35.00	8.50	-0485A	95.20			
2.90	-0429A	19.20	5.30	-0453A	35.00	9.00	-0490A	94.10			
3.00	-0430A	19.20	5.50	-0455A	35.00	9.10	-0491A	95.20			

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**DIN**
338
BS
328

For Dimensions

See Pages 46 - 47

NEW**DIN 1412A 135°****Series 1024 - Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
1.00	-1710A	11.30	3.50	-1735A	14.10	6.50	-1765A	26.20	10.50	-1805A	59.20
1.50	-1715A	10.00	4.00	-1740A	14.10	6.80	-1768A	28.80	11.00	-1810A	70.70
1.60	-1716A	10.20	4.20	-1742A	16.60	7.00	-1770A	29.20	12.00	-1820A	88.20
2.00	-1720A	10.00	4.50	-1745A	15.90	7.50	-1775A	33.90	12.50	-1825A	99.00
2.50	-1725A	10.90	4.90	-1749A	19.00	8.00	-1780A	37.20	13.00	-1830A	104.30
3.00	-1730A	11.60	5.00	-1750A	15.30	8.50	-1785A	42.10			
3.20	-1732A	12.80	5.50	-1755A	23.10	9.00	-1790A	48.40			
3.30	-1733A	13.20	6.00	-1760A	22.40	10.00	-1800A	57.90			

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**DIN**
338
BS
328

For Dimensions

See Pages 46 - 47

**DIN 1412C 135°****Series 1033 - Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
1.00	-0610A	83.10	2.70	-0627A	56.90	4.90	-0649A	76.90	7.50	-0675A	129.10
1.10	-0611A	76.10	2.80	-0628A	56.90	5.00	-0650A	79.10	8.00	-0680A	140.90
1.20	-0612A	87.20	3.00	-0630A	51.10	5.10	-0651A	81.50	8.20	-0682A	217.30
1.40	-0614A	81.50	3.20	-0632A	51.70	5.20	-0652A	82.00	8.50	-0685A	152.70
1.50	-0615A	65.10	3.30	-0633A	52.20	5.50	-0655A	88.80	8.70	-0687A	235.90
1.60	-0616A	66.70	3.40	-0634A	53.80	5.60	-0656A	135.60	9.00	-0690A	188.90
1.70	-0617A	81.50	3.50	-0635A	53.80	5.80	-0658A	140.90	9.50	-0695A	179.70
1.80	-0618A	58.90	3.60	-0636A	54.40	6.00	-0660A	146.80	9.70	-0697A	277.80
2.00	-0620A	54.40	3.90	-0639A	58.90	6.10	-0661A	149.30	10.00	-0700A	193.00
2.10	-0621A	58.50	4.00	-0640A	60.50	6.20	-0662A	154.20	10.20	-0702A	401.60
2.20	-0622A	57.90	4.10	-0641A	62.40	6.30	-0663A	157.30	10.50	-0705A	211.10
2.30	-0623A	57.90	4.20	-0642A	64.00	6.50	-0665A	109.50	11.00	-0710A	229.70
2.40	-0624A	71.90	4.30	-0643A	65.60	6.80	-0668A	171.20	12.00	-0720A	272.10
2.50	-0625A	68.60	4.50	-0645A	69.70	6.90	-0669A	174.30	12.50	-0725A	1521.00
2.60	-0626A	66.70	4.80	-0648A	75.00	7.00	-0670A	119.20	13.00	-0730A	329.40

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

SWISS+TECH**HSS-Co Straight Shank
High Helix Drills**

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**.

**For Dimensions****See Pages 46 - 47****HSS-Co****DIN 1412C 130°****Series 1012 - Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
2.50	-0225A	41.50	4.20	-0242A	60.00	7.00	-0270A	111.60	10.00	-0300A	229.70
3.00	-0230A	42.10	4.50	-0245A	60.00	7.50	-0275A	152.00	10.50	-0305A	257.10
3.30	-0233A	42.10	5.00	-0250A	65.10	8.50	-0285A	161.60	12.00	-0320A	349.10
3.50	-0235A	47.90	6.00	-0260A	85.60	9.00	-0290A	181.80	13.00	-0330A	424.10
4.00	-0240A	51.10	6.50	-0265A	98.40	9.50	-0295A	214.10			

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**For Dimensions****See Pages 46 - 47****NEW****DIN 1412C 130°****Series 1014 - Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
2.00	-1420A	9.80	4.20	-1442A	16.30	7.00	-1570A	28.60	11.00	-1610A	69.50
2.50	-1425A	10.70	4.50	-1450A	16.30	8.00	-1580A	36.50	12.00	-1612A	86.70
3.00	-1430A	11.40	5.00	-1500A	16.30	8.50	-1585A	41.30	13.00	-1613A	102.50
3.30	-1433A	12.90	5.20	-1520A	18.10	9.00	-1590A	47.50			
3.50	-1435A	13.90	5.50	-1550A	22.70	10.00	-1600A	56.90			
4.00	-1440A	13.90	6.00	-1560A	24.10	10.50	-1605A	58.20			

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**For Dimensions****See Pages 46 - 47****DIN 1412C 130°****Series 1060 -Metric**

Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND	Dia. (mm)	Order Code SWT-125	Price/1 RND
2.00	-1220A	68.10	4.20	-1242A	79.10	6.00	-1260A	118.90	9.00	-1290A	196.10
2.50	-1225A	68.60	4.50	-1245A	82.60	6.50	-1265A	139.80	10.00	-1300A	234.30
3.00	-1230A	69.20	4.80	-1248A	101.70	7.00	-1270A	151.50	10.50	-1305A	257.10
3.30	-1233A	70.80	5.00	-1250A	105.20	7.50	-1275A	162.70	11.00	-1310A	282.30
3.50	-1235A	72.30	5.20	-1252A	110.00	8.00	-1280A	171.20	12.00	-1320A	340.10
4.00	-1240A	76.10	5.50	-1255A	112.90	8.50	-1285A	183.40	13.00	-1330A	346.20

**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 Standard: **BS 328, DIN 338B.**

EXTENDED RANGE**HSS-Co****For Dimensions****See Pages 46 - 47****Metric**

Dia. (mm)	Order Code KEN-026	Price/1 RND
1.00	-0200K	22.60
1.10	-0220K	22.60
1.20	-0240K	22.60
1.30	-0260K	22.60
1.40	-0280K	22.60
1.50	-0300K	22.60
1.60	-0320K	25.90
1.70	-0340K	25.90
1.80	-0360K	25.90
1.90	-0380K	25.90
2.00	-0400K	25.90
2.10	-0420K	25.90
2.20	-0440K	27.50
2.30	-0460K	27.50
2.40	-0480K	27.50
2.50	-0500K	27.50
2.60	-0520K	29.10
2.70	-0540K	29.10
2.80	-0560K	29.10
3.00	-0600K	29.10
3.10	-0620K	29.90
3.20	-0640K	29.90
3.30	-0660K	29.90
3.40	-0680K	29.90
3.50	-0700K	29.90
3.60	-0720K	30.60
3.70	-0740K	30.60
3.80	-0760K	30.60
3.90	-0780K	30.60
4.00	-0800K	30.60
4.10	-0820K	31.20
4.20	-0840K	31.20
4.30	-0860K	31.20
4.40	-0880K	31.20
4.50	-0900K	31.20
4.60	-0920K	32.10
4.70	-0940K	32.10

Dia. (mm)	Order Code KEN-026	Price/1 RND
4.80	-0960K	32.10
4.90	-0980K	32.10
5.00	-1000K	32.10
5.10	-1020K	32.40
5.20	-1040K	32.40
5.30	-1060K	32.40
5.40	-1080K	32.40
5.50	-1100K	32.40
5.60	-1120K	33.90
5.70	-1140K	33.90
5.80	-1160K	33.90
5.90	-1180K	33.90
6.00	-1200K	33.90
6.10	-1220K	36.40
6.20	-1240K	36.40
6.30	-1260K	36.40
6.40	-1280K	36.40
6.50	-1300K	36.40
6.60	-1320K	42.20
6.70	-1340K	42.20
6.80	-1360K	42.20
7.00	-1400K	42.20
7.20	-1440K	45.00
7.50	-1500K	45.00
7.70	-1540K	45.00
8.00	-1600K	45.00
8.50	-1700K	54.50
9.00	-1800K	65.60
9.50	-1900K	81.20
10.00	-2000K	96.00
10.20	-2040K	109.60
10.50	-2100K	119.10
11.00	-2200K	140.10
11.50	-2300K	160.60
12.00	-2400K	172.10
12.50	-2500K	177.20
13.00	-2600K	200.30

HSS-Co 8% Straight Shank Heavy Duty Drill Set**19 Piece Metric****19
PIECES****x 0.5mm
1.0 ~ 10.0**

Number of Pieces	Order Code KEN-026	Price/1 RND
19	-8460K	1152.30

Inch

Dia. (inch)	Order Code KEN-026	Price/1 RND
1/16"	-3040K	15.50
3/32"	-3060K	16.50
7/64"	-3070K	16.50
1/8"	-3080K	16.50
9/64"	-3090K	16.50
5/32"	-3100K	17.10
11/64"	-3110K	22.00
3/16"	-3120K	23.40

Dia. (inch)	Order Code KEN-026	Price/1 RND
7/32"	-3140K	34.20
1/4"	-3160K	39.40
17/64"	-3170K	43.10
9/32"	-3180K	45.90
5/16"	-3200K	60.40
11/32"	-3220K	75.20
3/8"	-3240K	88.40
1/2"	-3320K	110.70

**HSS Drill Blanks**

Jobber length blank hardened and ground all over. Accurately ground without back taper.

Diameter tolerance: h8. Manufactured to **DIN 338.**

EXTENDED RANGE**HSS****Series J400 - Metric**

Dia. (mm)	Order Code SHR-024	Price/10 RND
1.00	-2398F	81.90
1.10	-2400H	92.10
1.20	-2402K	92.10
1.30	-2404M	92.10
1.40	-2406P	92.10
1.50	-2408R	92.10
1.60	-2410T	92.10
1.70	-2412W	92.10
1.80	-2414Y	92.10
1.90	-2416A	92.10
2.00	-2418C	92.10
2.10	-2420E	92.10
2.20	-2422G	92.10
2.30	-2424J	92.10
2.40	-2426L	92.10
2.50	-2428N	92.10
2.60	-2430Q	92.10
2.70	-2432S	92.10
2.80	-2434V	92.10
2.90	-2436X	92.10
3.00	-2438N	92.10
3.10	-2439A	96.40
3.20	-2440B	96.40
3.30	-2442D	96.40
3.40	-2443E	96.40

Dia. (mm)	Order Code SHR-024	Price/10 RND
3.50	-2444F	96.40
3.60	-2445G	121.80
3.70	-2446H	121.80
3.80	-2448K	121.80
3.90	-2449L	121.80
4.00	-2450M	126.80
4.10	-2451N	126.80
4.20	-2452P	126.80
4.30	-2454R	126.80
4.40	-2455S	126.80
4.50	-2456T	126.80
4.60	-2457V	137.70
4.70	-2458W	137.70
4.80	-2460Y	137.70
4.90	-2461N	137.70
5.00	-2462A	137.70
5.10	-2463B	137.70
5.20	-2464C	137.70
5.30	-2466E	137.70
5.40	-2467F	137.70
5.50	-2468G	137.70
5.60	-2469H	168.20
5.70	-2470J	168.20
5.80	-2472L	168.20
5.90	-2473M	168.20

Dia. (mm)	Order Code SHR-024	Price/10 RND
6.00	-2474N	168.20
6.10	-2475P	245.00
6.20	-2476Q	245.00
6.30	-2478S	245.00
6.40	-2479T	245.00
6.50	-2480V	245.00
6.60	-2481W	276.00
6.70	-2482X	276.00
6.80	-2484N	276.00
6.90	-2485A	276.00
7.00	-2486B	276.00
7.10	-2487C	276.00
7.20	-2488D	276.00
7.30	-2490F	276.00
7.40	-2491G	276.00
7.50	-2492H	276.00
7.60	-2493J	347.80
7.70	-2494K	347.80
7.80	-2496M	347.80
7.90	-2497N	347.80
8.00	-2498P	347.80
8.10	-2499Q	347.80
8.20	-2500R	347.80
8.30	-2502T	347.80
8.40	-2503V	347.80

Dia. (mm)	Order Code SHR-024	Price/10 RND
8.50	-2504W	366.60
8.60	-2505X	366.60
8.70	-2506Y	366.60
8.80	-2508A	366.60
8.90	-2509B	366.60
9.00	-2510C	448.40
9.10	-2511D	448.40
9.20	-2512E	448.40
9.30	-2514G	448.40
9.40	-2515H	448.40
9.50	-2516J	448.40
9.60	-2517K	612.80
9.70	-2518L	612.80
9.80	-2520N	612.80
9.90	-2521P	612.80
10.00	-2522Q	612.80
10.50	-2523R	612.80
11.00	-2524S	612.80
11.50	-2525T	612.80
12.00	-2526V	684.70
12.50	-2527W	684.70
13.00	-2528X	684.70

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 025 STANDARD LENGTH DRILLS

SHERWOOD 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**.

EXTENDED RANGE



CARBIDE



DIN 338 For Dimensions
BS 328 See Pages 46 - 47

Series J102 - Metric

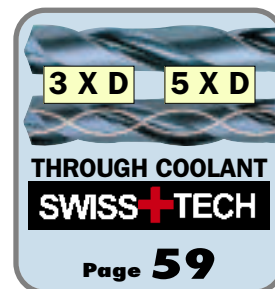
Dia. (mm)	Order Code SHR-158	Price/1 RND
1.00	-5100K	93.90
1.10	-5110K	85.00
1.20	-5120K	85.00
1.30	-5130K	85.00
1.40	-5140K	85.00
1.50	-5150K	93.90
1.60	-5160K	85.00
1.70	-5170K	76.20
1.80	-5180K	76.20
1.90	-5190K	85.00
2.00	-5200K	88.60
2.10	-5210K	88.60
2.20	-5220K	88.60
2.30	-5230K	90.60
2.40	-5240K	95.00
2.50	-5250K	101.90
2.60	-5260K	101.90
2.70	-5270K	101.90
2.80	-5280K	101.90
2.90	-5290K	101.90
3.00	-5300K	101.90
3.10	-5310K	117.80
3.20	-5320K	117.20
3.30	-5330K	117.20
3.40	-5340K	130.10
3.50	-5350K	130.10
3.60	-5360K	130.10
3.70	-5370K	137.40
3.80	-5380K	152.90
3.90	-5390K	152.90
4.00	-5400K	152.90
4.10	-5410K	152.90
4.20	-5420K	164.20
4.30	-5430K	164.20
4.40	-5440K	164.20
4.50	-5450K	174.30
4.60	-5460K	174.30
4.70	-5470K	180.00
4.80	-5480K	180.00
4.90	-5490K	204.30
5.00	-5500K	204.30
5.10	-5510K	204.30

Dia. (mm)	Order Code SHR-158	Price/1 RND
5.20	-5520K	209.10
5.30	-5530K	233.90
5.40	-5540K	237.90
5.50	-5550K	275.70
5.60	-5560K	244.20
5.70	-5570K	272.00
5.80	-5580K	270.50
5.90	-5590K	272.40
6.00	-5600K	296.20
6.10	-5610K	269.00
6.20	-5620K	293.70
6.30	-5630K	295.60
6.40	-5640K	295.60
6.50	-5650K	316.70
6.60	-5660K	306.10
6.70	-5670K	324.90
6.80	-5680K	325.30
6.90	-5690K	381.70
7.00	-5700K	427.90
7.10	-5710K	424.70
7.20	-5720K	466.70
7.30	-5730K	466.70
7.40	-5740K	473.20
7.50	-5750K	408.70
7.60	-5760K	419.80
7.70	-5770K	503.30
7.80	-5780K	451.90
7.90	-5790K	503.30
8.00	-5800K	591.50
8.10	-5810K	508.80
8.20	-5820K	530.50
8.30	-5830K	530.50
8.40	-5840K	476.70
8.50	-5850K	510.60
8.60	-5860K	530.50
8.70	-5870K	560.20
8.80	-5880K	623.40
8.90	-5890K	560.20
9.00	-5900K	582.20
9.10	-5910K	560.20
9.20	-5920K	683.30
9.30	-5930K	614.00

Dia. (mm)	Order Code SHR-158	Price/1 RND
9.40	-5940K	614.00
9.50	-5950K	633.00
9.60	-5960K	683.30
9.70	-5970K	799.50
9.80	-5980K	717.90
9.90	-5990K	717.90
10.00	-6000K	714.70
10.20	-6020K	815.30
10.30	-6030K	855.80
10.40	-6040K	855.80
10.50	-6050K	815.70
10.80	-6080K	979.00
11.00	-6100K	979.00
11.20	-6120K	979.00
11.50	-6150K	979.00
11.80	-6180K	979.00
11.90	-6190K	979.00
12.00	-6200K	1163.40
12.10	-6210K	1776.40
12.20	-6220K	1925.10
12.50	-6250K	1925.10
12.70	-6270K	2033.10
12.80	-6280K	2033.10
13.00	-6300K	2033.10
13.20	-6320K	2357.00
13.50	-6350K	2357.00
14.00	-6400K	2357.00
15.00	-6500K	4655.60
16.00	-6600K	5272.50
16.50	-6650K	5437.10
17.00	-6700K	5916.80
17.50	-6750K	6242.60
18.00	-6800K	6340.70
19.00	-6900K	7420.50
20.00	-7000K	7918.00

Series J102 - Inch

Dia. (inch)	Order Code SHR-158	Price/1 RND
1/32"	-4520K	228.40
3/64"	-4530K	205.40
1/16"	-4540K	228.40
3/32"	-4560K	267.30
1/8"	-4580K	323.90
5/32"	-4600K	401.10
11/64"	-4610K	473.60
3/16"	-4620K	489.50
13/64"	-4630K	561.20
7/32"	-4640K	624.10
1/4"	-4660K	745.20
17/64"	-4670K	708.10
9/32"	-4680K	786.90
5/16"	-4700K	1029.40
3/8"	-4740K	1310.80
1/2"	-4820K	2643.80



Page 59

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 Standard: **DIN 338, DIN338**.



CARBIDE



DIN 338 For Dimensions
BS 328 See Pages 46 - 47

Metric

Dia. (mm)	Order Code KEN-158	Price/1 RND
1.00	-0100K	167.30
1.50	-0150K	167.30
1.60	-0160K	195.50
2.00	-0200K	195.50
2.50	-0250K	236.60
3.00	-0300K	264.60
3.30	-0330K	277.60
3.50	-0350K	288.00
4.00	-0400K	355.70
4.20	-0420K	366.40
4.50	-0450K	398.40
5.00	-0500K	418.90
5.50	-0550K	497.70
6.00	-0600K	523.10

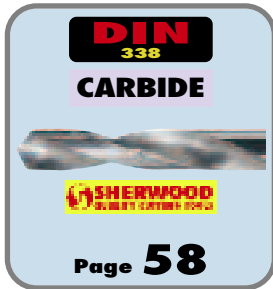
Dia. (mm)	Order Code KEN-158	Price/1 RND
6.50	-0650K	568.20
6.80	-0680K	636.30
7.00	-0700K	659.50
7.50	-0750K	731.60
8.00	-0800K	778.20
8.50	-0850K	915.10
9.00	-0900K	1046.00
9.50	-0950K	1132.00
10.00	-1000K	1277.00
10.20	-1020K	1277.00
10.50	-1050K	1526.50
11.00	-1100K	1526.50
11.50	-1150K	1773.60
12.00	-1200K	1978.10

Inch

Dia. (inch)	Order Code KEN-158	Price/1 RND
1/16"	-2040K	183.50
3/32"	-2060K	211.90
1/8"	-2080K	258.90
5/32"	-2100K	315.30
11/64"	-2110K	129.50
3/16"	-2120K	382.30

Dia. (inch)	Order Code KEN-158	Price/1 RND
13/64"	-2130K	213.70
7/32"	-2140K	479.20
1/4"	-2160K	579.10
5/16"	-2200K	803.40
3/8"	-2240K	1128.40
1/2"	-2320K	879.50

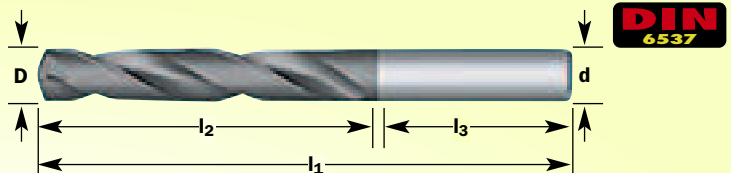
For drilling into general steel, cast steel, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy and light metal, and abrasive plastic, self-centering.
Point angle: 140°, tolerance of diameter: m7, tolerance of shank: h6.
Manufactured to **DIN 6537**.

CARBIDE
Q-Coat
**DIN
6537**
**EXTENDED
RANGE**
3 X D
5 X D
CUTTING TOOLS


Diameter (mm)	Order Code SWT-158 3 x D Solid	Price/1 RND	Order Code SWT-158 3 x D Through Coolant	Price/1 RND	Order Code SWT-158 5 x D Solid	Price/1 RND	Order Code SWT-158 5 x D Through Coolant	Price/1 RND
3.00	-3530S	338.30	-	-	-5530S	498.10	-	-
3.20	-3532S	338.30	-	-	-5532S	498.10	-	-
3.30	-3533S	338.30	-	-	-	-	-	-
3.50	-3535S	338.30	-	-	-	-	-	-
4.00	-	-	-3040C	596.00	-5540S	498.10	-5040C	765.00
4.20	-3542S	338.30	-3042C	596.00	-5542S	498.10	-	-
4.50	-3545S	338.30	-	-	-5545S	498.10	-5045C	-
5.00	-3550S	338.30	-3050C	596.00	-5550S	498.10	-5050C	765.00
5.50	-3555S	338.30	-	-	-5555S	498.10	-5055C	-
6.00	-3560S	338.30	-3060C	596.00	-5560S	498.10	-5060C	765.00
6.20	-	-	-	-	-	-	-5062C	765.00
6.50	-	-	-3065C	810.20	-5565S	612.00	-	-
6.80	-3568S	572.90	-	-	-	-	-	-
7.00	-3570S	572.90	-3070C	810.20	-5570S	612.00	-5070C	846.40
7.50	-3575S	572.90	-	-	-	-	-	-
8.00	-3580S	572.90	-3080C	810.20	-5580S	612.00	-5080C	846.40
8.50	-3585S	730.20	-	-	-5585S	589.00	-	-
9.00	-3590S	730.20	-3090C	908.00	-5590S	788.20	-5090C	1006.70
10.00	-3600S	730.20	-3100C	908.00	-5600S	788.20	-5100C	1006.70
10.20	-3602S	918.90	-	-	-	-	-5102C	1040.60
10.50	-3605S	918.90	-3105C	908.00	-5605S	788.20	-	-
11.00	-3610S	918.90	-3110C	1298.60	-5610S	1225.70	-5110C	1415.70
12.00	-3620S	918.90	-3120C	1298.60	-5620S	1225.70	-	-
12.50	-3625S	1370.60	-	-	-5625S	1453.00	-5125C	1904.10
13.00	-3630S	1370.60	-	-	-5630S	1453.00	-5130C	1904.10
13.50	-3635S	1370.60	-	-	-5635S	1453.00	-	-
14.00	-3640S	1370.60	-3140C	-	-5640S	1453.00	-5140C	1904.10
14.50	-3645S	1682.00	-	-	-	-	-	-
15.00	-3650S	1682.00	-	-	-5650S	1828.30	-	-
16.00	-3660S	1682.00	-	-	-	-	-	-

**Dimensions - Production Drills
to DIN 6537 (Cylindrical & Flatted Shank)**
**DIN 6537 - Short
3 X D Nominal**

Cutting Diameter D mm	Shank Diameter d, mm	Overall Length l1	Flute Length l2	Shank Length l3
3.00 to 3.70	6.0	62.0	20.0	36.0
3.80 to 4.70	6.0	66.0	24.0	36.0
4.76 to 6.00	6.0	66.0	28.0	36.0
6.10 to 7.00	8.0	79.0	34.0	36.0
7.10 to 8.00	8.0	79.0	41.0	36.0
8.10 to 10.00	10.0	89.0	47.0	40.0
10.10 to 12.00	12.0	102.0	55.0	45.0
12.10 to 14.00	14.0	107.0	60.0	45.0
14.10 to 16.00	16.0	115.0	65.0	48.0
16.50 to 18.00	18.0	123.0	73.0	48.0
18.50 to 20.00	20.0	131.0	79.0	50.0


**DIN 6537 - Long
5 X D Nominal**

Cutting Diameter D mm	Shank Diameter d mm	Overall Length l1	Flute Length l2	Shank Length l3
3.00 to 3.70	6.0	66.0	28.0	36.0
3.80 to 4.70	6.0	74.0	36.0	36.0
4.76 to 6.00	6.0	82.0	44.0	36.0
6.10 to 8.00	8.0	91.0	53.0	36.0
8.10 to 10.00	10.0	103.0	61.0	40.0
10.10 to 12.00	12.0	118.0	71.0	45.0
12.10 to 14.00	14.0	124.0	77.0	45.0
14.10 to 16.00	16.0	133.0	83.0	48.0
16.50 to 18.00	18.0	143.0	93.0	48.0
18.50 to 20.00	20.0	153.0	101.0	50.0

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 025 LONG SERIES DRILLS

SHERWOOD QUALITY CUTTING TOOLS 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: 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.**



HSS



Series L100 - Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
1.00	33.0	56.0	-1420A	37.80
1.10	37.0	60.0	-1421B	37.80
1.20	41.0	65.0	-1422C	43.80
1.30	41.0	65.0	-1423D	39.40
1.40	45.0	70.0	-1424E	38.20
1.50	45.0	70.0	-1425F	26.50
1.60	50.0	76.0	-1426G	26.70
1.70	50.0	76.0	-1427H	27.70
1.80	53.0	80.0	-1429K	27.40
1.90	53.0	80.0	-1431M	27.40
2.00	56.0	85.0	-1433P	23.70
2.10	56.0	85.0	-1435R	27.60
2.20	59.0	90.0	-1437T	27.60
2.30	59.0	90.0	-1439W	27.60
2.40	62.0	95.0	-1441Y	27.60
2.45	62.0	95.0	-1442N	27.60
2.50	62.0	95.0	-1443A	23.90
2.60	62.0	95.0	-1445C	26.80
2.70	66.0	100.0	-1447E	27.60
2.80	66.0	100.0	-1449G	27.60
2.85	66.0	100.0	-1450H	27.60
2.90	66.0	100.0	-1451J	26.80
3.00	66.0	100.0	-1453L	20.10
3.10	69.0	106.0	-1454M	25.50
3.20	69.0	106.0	-1455N	24.40
3.25	69.0	106.0	-1456P	24.40
3.30	69.0	106.0	-1457Q	24.80
3.40	73.0	112.0	-1458R	25.50
3.50	73.0	112.0	-1459S	24.10
3.60	73.0	112.0	-1460T	25.50
3.70	73.0	112.0	-1461V	25.50
3.80	78.0	119.0	-1463X	25.50
3.90	78.0	119.0	-1464Y	25.20
4.00	78.0	119.0	-1465N	24.50
4.10	78.0	119.0	-1466A	27.70
4.20	78.0	119.0	-1467B	26.80
4.30	82.0	126.0	-1469D	26.80
4.40	82.0	126.0	-1470E	26.80
4.50	82.0	126.0	-1471F	25.50
4.60	82.0	126.0	-1472G	30.60
4.70	82.0	126.0	-1473H	30.60
4.80	87.0	132.0	-1475K	30.60
4.90	87.0	132.0	-1476L	30.60
5.00	87.0	132.0	-1477M	26.30
5.10	87.0	132.0	-1478N	35.60
5.20	87.0	132.0	-1479P	35.60
5.30	87.0	132.0	-1481R	35.60

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
5.40	91.0	139.0	-1482S	35.60
5.50	91.0	139.0	-1483T	31.20
5.60	91.0	139.0	-1484V	41.50
5.70	91.0	139.0	-1485W	42.80
5.80	91.0	139.0	-1487Y	42.20
5.90	91.0	139.0	-1488N	44.20
6.00	91.0	139.0	-1489A	39.30
6.10	97.0	148.0	-1490B	45.80
6.20	97.0	148.0	-1491C	45.80
6.30	97.0	148.0	-1493E	45.80
6.40	97.0	148.0	-1494F	45.80
6.50	97.0	148.0	-1495G	40.70
6.60	97.0	148.0	-1496H	51.50
6.70	97.0	148.0	-1497J	51.50
6.80	102.0	156.0	-1499L	50.00
6.90	102.0	156.0	-1500M	51.50
7.00	102.0	156.0	-1501N	41.90
7.10	102.0	156.0	-1502P	57.30
7.20	102.0	156.0	-1503Q	57.30
7.30	120.0	156.0	-1505S	57.30
7.50	102.0	156.0	-1507V	48.80
7.60	109.0	165.0	-1508W	64.80
7.70	109.0	165.0	-1509X	64.80
7.80	109.0	165.0	-1511N	64.80
7.90	109.0	165.0	-1512A	64.80
8.00	109.0	165.0	-1513B	49.60
8.10	109.0	165.0	-1514C	69.70
8.20	109.0	165.0	-1515D	69.70
8.30	109.0	165.0	-1517F	69.70
8.40	109.0	165.0	-1518G	69.70
8.50	109.0	165.0	-1519H	54.60
8.60	115.0	175.0	-1520J	73.70
8.70	115.0	175.0	-1521K	73.70
8.80	115.0	175.0	-1523M	73.70
8.90	115.0	175.0	-1524N	89.70
9.00	115.0	175.0	-1525P	63.40
9.10	115.0	175.0	-1526Q	99.20
9.20	115.0	175.0	-1527R	99.20
9.30	115.0	175.0	-1529T	99.20
9.40	115.0	175.0	-1530V	111.30
9.50	115.0	175.0	-1531W	71.00
9.60	121.0	184.0	-1532X	71.00
9.70	121.0	184.0	-1533Y	71.00
9.80	121.0	184.0	-1535A	79.90
9.90	121.0	184.0	-1536B	79.90
10.00	121.0	184.0	-1537C	74.70
10.10	121.0	184.0	-1538D	86.60

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
10.20	121.0	184.0	-1539E	86.60
10.40	121.0	184.0	-1542H	86.60
10.50	121.0	184.0	-1543J	82.50
10.70	128.0	195.0	-1545L	86.60
10.80	128.0	195.0	-1547N	101.30
11.00	128.0	195.0	-1549Q	86.60
11.20	128.0	195.0	-1551S	121.40
11.50	128.0	195.0	-1555X	92.00
11.70	128.0	195.0	-1557N	92.00
11.80	128.0	195.0	-1559B	92.00
12.00	134.0	205.0	-1561D	98.50
12.20	134.0	205.0	-1563F	164.90
12.50	134.0	205.0	-1567K	123.70
12.60	134.0	205.0	-1568L	211.70
12.70	134.0	205.0	-1569M	123.70
12.80	134.0	205.0	-1571P	167.30
13.00	134.0	205.0	-1573R	125.10
13.50	140.0	214.0	-1578X	125.10
14.00	140.0	214.0	-1583C	203.40
14.50	144.0	220.0	-1585E	203.40
15.00	144.0	220.0	-1587G	259.30
15.50	149.0	227.0	-1589J	259.30
16.00	149.0	227.0	-1591L	264.60
16.50	154.0	235.0	-1593N	264.60
17.00	154.0	235.0	-1595Q	299.00
17.50	158.0	241.0	-1597S	299.00
18.00	158.0	241.0	-1599V	354.70
20.00	166.0	254.0	-1607D	406.90



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.**

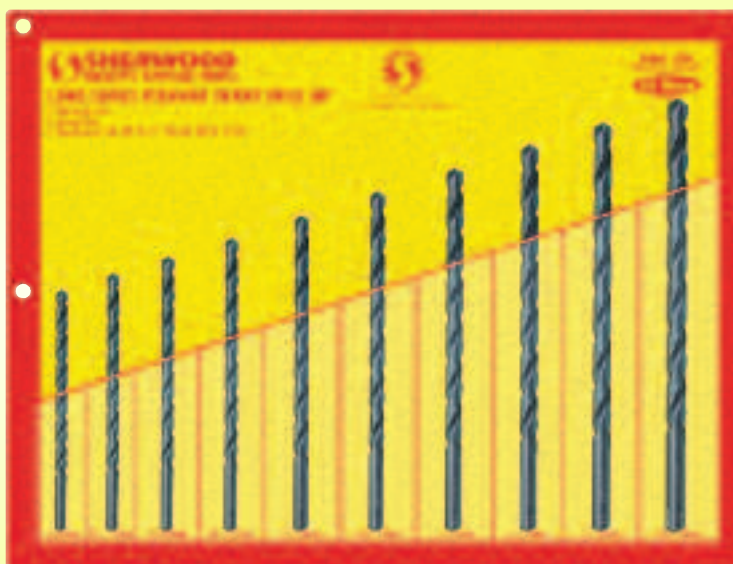
**10
PIECES**

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	Price/1 RND
10	-8540K	364.50



HSS

METRIC



HSS Straight Shank Long Series Drills

General purpose high speed steel long series drills are designed for deep hole drilling of most materials. The drill has the same diameter on both the fluted section and the shank. Manufactured to **BS 328; Part 1: 1986, DIN 340 RN, ISO 494.**



HSS



Series L100 - Inch

Diameter (Inch)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND	Diameter (Inch)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND	Diameter (Inch)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
1/32"	1 1/16"	1 7/8"	-1404Z	34.10	3/16"	3 7/16"	5 3/16"	-1405K	35.30	3/8"	4 3/4"	7 1/4"	-1405Y	122.20
3/64"	1 5/8"	2 9/16"	-1405A	37.60	13/64"	3 7/16"	5 3/16"	-1405L	39.70	13/32"	4 3/4"	7 1/4"	-1406A	134.20
1/16"	1 31/32"	3"	-1405B	37.60	7/32"	3 19/32"	5 15/32"	-1405M	45.50	7/16"	5 1/32"	7 11/16"	-1406C	173.60
5/64"	2 7/32"	3 11/32"	-1405C	25.10	15/64"	3 19/32"	5 15/32"	-1405N	51.70	29/64"	5 1/32"	7 11/16"	-1406D	173.60
3/32"	2 7/16"	3 3/4"	-1405D	25.10	1/4"	3 13/16"	5 13/16"	-1405P	51.70	15/32"	5 9/32"	8 1/16"	-1406E	173.60
7/64"	2 19/32"	3 15/16"	-1405E	25.50	17/64"	4"	6 1/8"	-1405Q	55.60	1/2"	5 9/32"	8 1/16"	-1406G	1428.50
1/8"	2 23/32"	4 3/16"	-1405F	26.10	9/32"	4"	6 1/8"	-1405R	66.70					
9/64"	2 7/8"	4 13/32"	-1405G	28.10	5/16"	4 9/32"	6 1/2"	-1405T	76.50					
5/32"	3 1/16"	4 11/16"	-1405H	31.70	21/64"	4 9/32"	6 1/2"	-1405V	51.90					
11/64"	3 7/32"	4 31/32"	-1405J	31.70	11/32"	4 17/32"	6 7/8"	-1405W	98.40					

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.

HSS



Series L100B - Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND	Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
1.00	33.0	56.0	-1630A	14.30	4.20	78.0	119.0	-1632F	28.30	7.80	109.0	165.0	-1634R	258.30
1.20	41.0	65.0	-1630E	33.20	4.30	82.0	126.0	-1632G	78.90	8.00	109.0	165.0	-1635A	78.50
1.50	45.0	70.0	-1630J	40.90	4.40	82.0	126.0	-1632J	80.80	8.20	109.0	165.0	-1635C	302.10
1.60	50.0	76.0	-1630K	61.30	4.50	82.0	126.0	-1632L	31.80	8.50	109.0	165.0	-1635L	88.90
2.00	56.0	85.0	-1630Q	22.30	4.80	87.0	132.0	-1632R	31.80	9.00	115.0	175.0	-1635Z	98.20
2.10	56.0	85.0	-1630R	57.50	4.90	87.0	132.0	-1632S	91.60	9.50	115.0	175.0	-1636E	268.50
2.20	59.0	90.0	-1630S	57.10	5.00	87.0	132.0	-1632W	35.80	9.80	121.0	184.0	-1636L	402.60
2.30	59.0	90.0	-1630T	55.20	5.10	87.0	132.0	-1632X	96.30	10.00	121.0	184.0	-1636N	121.00
2.40	62.0	95.0	-1630W	22.30	5.20	87.0	132.0	-1632Y	98.40	10.20	121.0	184.0	-1636Q	444.60
2.50	62.0	95.0	-1630Y	23.10	5.30	87.0	132.0	-1632Z	101.20	10.50	121.0	184.0	-1636T	339.00
2.60	62.0	95.0	-1630Z	58.00	5.50	91.0	139.0	-1633F	41.40	11.00	128.0	195.0	-1637A	380.30
2.80	66.0	100.0	-1631B	60.10	5.80	91.0	139.0	-1633J	107.30	11.50	128.0	195.0	-1637F	419.40
3.00	66.0	100.0	-1631H	23.40	6.00	91.0	139.0	-1633P	46.80	12.00	134.0	205.0	-1637P	190.50
3.10	69.0	106.0	-1631K	59.40	6.10	97.0	148.0	-1633Q	124.90	12.50	134.0	205.0	-1637V	510.50
3.20	69.0	106.0	-1631N	23.40	6.20	97.0	148.0	-1633R	125.00	13.00	134.0	205.0	-1638Q	538.20
3.30	69.0	106.0	-1631Q	23.40	6.30	97.0	148.0	-1633S	128.10	13.50	140.0	214.0	-1638W	796.90
3.40	73.0	112.0	-1631T	65.50	6.40	97.0	148.0	-1633T	133.50	14.00	140.0	214.0	-1639R	648.80
3.50	73.0	112.0	-1631V	25.30	6.50	97.0	148.0	-1633X	53.20	15.00	144.0	220.0	-1640S	807.30
3.60	73.0	112.0	-1631W	63.20	6.70	97.0	148.0	-1634C	146.70	16.00	149.0	227.0	-1641T	963.60
3.70	73.0	112.0	-1631X	69.80	6.80	120.0	156.0	-1634D	53.20	17.00	154.0	235.0	-1642V	1132.20
3.80	78.0	119.0	-1631Y	70.80	7.00	120.0	156.0	-1634H	60.10	18.00	158.0	241.0	-1643W	1214.50
4.00	78.0	119.0	-1632C	28.30	7.20	102.0	156.0	-1634K	242.00	20.00	166.0	254.0	-1644X	1646.90
4.10	78.0	119.0	-1632D	71.50	7.50	102.0	156.0	-1634N	168.10					

SWISS+TECH HSS-Co Straight Shank Long Series Drills

HEAVY DUTY

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.**



HSS-Co



DIN 1412C 135°

Series 4000 - Metric

Diameter (mm)	Flute Length	Overall Length	Order Code SWT-125	Price/1 RND	Diameter (mm)	Flute Length	Overall Length	Order Code SWT-125	Price/1 RND	Diameter (mm)	Flute Length	Overall Length	Order Code SWT-125	Price/1 RND
3.00	66.0	100.0	-4030A	38.80	4.80	87.0	132.0	-4048A	56.90	6.50	97.0	148.0	-4065A	87.20
3.10	69.0	106.0	-4031A	38.60	5.00	87.0	132.0	-4050A	58.90	8.00	109.0	165.0	-4080A	128.60
3.20	69.0	106.0	-4032A	40.40	5.20	87.0	132.0	-4052A	62.90	8.50	109.0	165.0	-4085A	145.20
3.50	73.0	112.0	-4035A	48.30	5.50	91.0	139.0	-4055A	67.50	11.50	128.0	195.0	-4115A	285.30
4.00	78.0	119.0	-4040A	46.80	6.00	91.0	139.0	-4060A	76.90					

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

**HSS Extra Length Drills -
Steam Tempered****EXTENDED
RANGE**

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	Price/1 RND
1.50	80.0	125.0	-2091B	25.30
1.50	100.0	160.0	-2092C	91.60
2.00	80.0	125.0	-2094E	28.60
2.00	100.0	160.0	-2095F	76.00
2.20	150.0	200.0	-2095H	74.30
2.20	100.0	160.0	-2096G	72.00
2.50	80.0	125.0	-2097H	85.80
2.50	100.0	160.0	-2098J	91.60
2.50	150.0	200.0	-2098L	52.90
3.00	100.0	160.0	-2099K	28.50
3.00	150.0	200.0	-2100L	35.60
3.00	200.0	250.0	-2101M	39.60
3.30	100.0	160.0	-2102N	35.20
3.30	150.0	200.0	-2102Q	53.40
3.50	100.0	160.0	-2103P	32.90
3.50	150.0	200.0	-2104Q	39.60
3.50	200.0	250.0	-2105R	52.00
3.70	100.0	160.0	-2106S	23.60
4.00	100.0	160.0	-2107T	37.40
4.00	150.0	200.0	-2108V	43.20
4.00	200.0	250.0	-2109W	56.90
4.00	250.0	315.0	-2110X	68.50
4.00	300.0	425.0	-2111B	51.10
4.50	100.0	160.0	-2111Y	43.20
4.50	150.0	200.0	-2112N	72.00
4.50	200.0	250.0	-2113A	64.50

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
4.50	250.0	300.0	-2113M	410.70
4.50	250.0	315.0	-2114B	76.90
4.50	220.0	350.0	-2114F	410.70
4.50	300.0	425.0	-2114L	516.90
5.00	100.0	160.0	-2115C	43.20
5.00	150.0	200.0	-2116D	56.50
5.00	200.0	250.0	-2117E	66.70
5.00	250.0	315.0	-2118F	84.50
5.00	300.0	400.0	-2119G	110.70
5.50	150.0	200.0	-2120H	57.40
5.50	200.0	250.0	-2121J	70.30
5.50	250.0	300.0	-2121P	459.10
6.00	150.0	200.0	-2123L	63.20
6.00	200.0	250.0	-2124M	84.00
6.00	250.0	315.0	-2125N	96.00
6.00	300.0	400.0	-2126P	128.90
6.50	150.0	200.0	-2127Q	85.80
6.50	200.0	250.0	-2128R	99.60
6.50	250.0	315.0	-2129S	133.40
7.00	150.0	200.0	-2130T	87.60
7.00	200.0	250.0	-2131V	149.80
7.00	250.0	315.0	-2132W	128.90
7.50	200.0	200.0	-2133X	96.00
7.50	200.0	250.0	-2134Y	105.40
7.50	250.0	315.0	-2135N	138.70
7.50	300.0	425.0	-2135S	875.10

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
8.00	200.0	250.0	-2136A	129.80
8.00	250.0	315.0	-2137B	172.90
8.00	300.0	400.0	-2138C	225.40
8.50	200.0	250.0	-2139D	146.30
8.50	250.0	315.0	-2140E	188.50
9.00	200.0	250.0	-2141F	141.80
9.00	250.0	315.0	-2142G	205.80
9.00	300.0	400.0	-2143H	233.40
9.50	200.0	250.0	-2144J	154.70
9.50	250.0	315.0	-2145K	224.00
10.00	200.0	250.0	-2146L	177.80
10.00	250.0	315.0	-2147M	223.60
10.00	300.0	400.0	-2148N	295.10
10.50	200.0	250.0	-2149P	164.90
10.50	250.0	315.0	-2150Q	224.00
10.50	300.0	400.0	-2151R	292.00
11.00	200.0	250.0	-2152S	202.30
11.00	250.0	315.0	-2153T	275.10
11.00	300.0	400.0	-2154V	344.00
12.00	200.0	250.0	-2155W	233.80
12.00	250.0	315.0	-2156X	300.50
12.00	300.0	400.0	-2157Y	392.90
13.00	250.0	315.0	-2158N	318.20
13.00	300.0	400.0	-2159A	409.30
14.00	250.0	315.0	-2160B	381.80
14.00	300.0	400.0	-2161C	514.70

Series E100 - Inch

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
1/16"	80.0	125.0	-1990A	105.10
1/16"	100.0	160.0	-1991B	93.90
3/32"	80.0	125.0	-1994E	105.10
3/32"	100.0	160.0	-1995F	129.80
1/8"	100.0	160.0	-1998J	37.00
1/8"	150.0	200.0	-1999K	145.70
1/8"	200.0	250.0	-2000L	186.20
1/8"	250.0	315.0	-2001M	244.10
5/32"	150.0	200.0	-2005R	50.20
5/32"	200.0	250.0	-2006S	114.00
5/32"	250.0	315.0	-2007T	78.30
3/16"	100.0	160.0	-2011Y	49.40
3/16"	150.0	200.0	-2012N	60.20
3/16"	200.0	250.0	-2013A	73.40
3/16"	250.0	315.0	-2014B	100.10
3/16"	300.0	400.0	-2015C	155.80
13/64"	150.0	200.0	-2016D	78.10
7/32"	150.0	200.0	-2019G	65.20
7/32"	200.0	250.0	-2020H	81.20
7/32"	250.0	315.0	-2021J	110.90
1/4"	150.0	200.0	-2024M	96.40
1/4"	200.0	250.0	-2025N	106.60
1/4"	250.0	315.0	-2026P	145.00

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
1/4"	300.0	400.0	-2027Q	226.10
9/32"	150.0	200.0	-2032W	89.10
9/32"	200.0	250.0	-2033X	109.60
5/16"	150.0	200.0	-2035N	108.80
5/16"	200.0	250.0	-2036A	132.60
5/16"	250.0	315.0	-2037B	180.40
5/16"	300.0	400.0	-2038C	605.00
11/32"	200.0	250.0	-2042D	132.80
11/32"	200.0	250.0	-2042G	152.20
11/32"	250.0	315.0	-2043H	207.90
11/32"	300.0	400.0	-2044J	286.50
23/64"	200.0	250.0	-2045K	352.30
23/64"	250.0	315.0	-2046L	225.30
3/8"	150.0	200.0	-2046Y	1504.10
3/8"	200.0	250.0	-2047M	176.00
3/8"	250.0	315.0	-2048N	239.10
3/8"	300.0	400.0	-2049P	286.80
13/32"	200.0	250.0	-2051R	176.00
13/32"	250.0	315.0	-2052S	239.10
7/16"	200.0	250.0	-2054V	544.80
7/16"	250.0	315.0	-2055W	294.00
7/16"	300.0	400.0	-2056X	367.10
7/16"	200.0	250.0	-2057W	1619.20

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
7/16"	250.0	315.0	-2057Y	1983.90
1/2"	200.0	250.0	-2059A	249.10
1/2"	250.0	315.0	-2060B	340.60
1/2"	300.0	400.0	-2061C	400.00

**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**.

HSS**METRIC****mm****3.0 ~ 10.0****6****PIECES**

3.0 x 160mm
4.0 x 160mm
5.0 x 200mm

6.0 x 200mm
8.0 x 250mm
10.0 x 250mm

Number
of Pieces

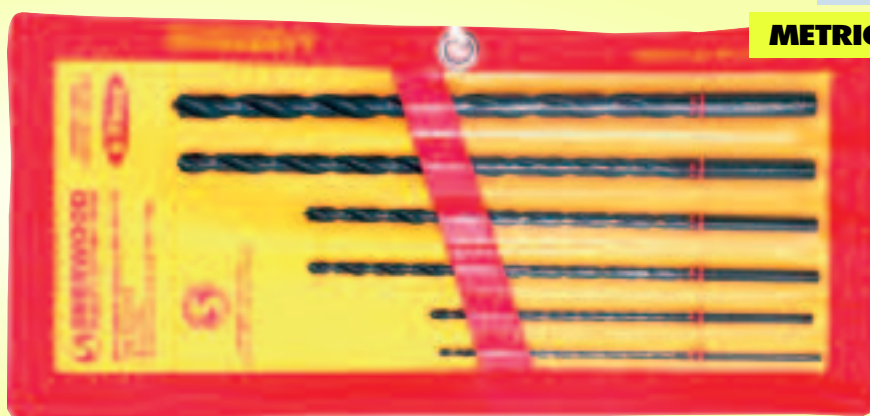
Order Code
SHR-025

Price/1
RND

6

-8600K

875.40





HSS Taper Shank Drills - Metric

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 Standard: **DIN 345**.


**EXTENDED
RANGE**

Series T100 - Metric

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
1 Morse Taper				
3.00	33	114	-2634E	67.80
3.30	36	117	-2638J	90.90
3.50	39	120	-2640L	70.10
4.00	43	123	-2646S	64.30
4.10	43	123	-2647T	90.90
4.20	43	123	-2648V	90.90
4.50	47	128	-2652N	81.10
5.00	52	133	-2658F	83.30
5.10	52	133	-2659G	91.40
5.20	52	133	-2660H	91.40
5.30	52	133	-2662K	91.40
5.50	57	138	-2664M	83.30
6.00	57	138	-2670T	92.20
6.20	57	138	-2672W	112.40
6.50	63	144	-2676A	92.20
6.60	63	144	-2677B	112.40
6.80	69	150	-2680E	118.10
7.00	69	150	-2682G	101.80
7.50	69	150	-2688N	101.80
8.00	75	156	-2694W	77.70
8.10	75	156	-2695X	135.80
8.20	75	156	-2696Y	135.80
8.50	75	156	-2700C	77.70
8.60	81	162	-2701D	135.80
8.70	81	162	-2702E	135.80
8.75	81	162	-2703F	135.80
8.80	81	162	-2704G	135.80
9.00	81	162	-2706J	83.70
9.50	81	162	-2712Q	83.70
9.70	87	168	-2714S	145.40
9.80	87	168	-2716V	145.40
10.00	87	168	-2718X	93.40
10.20	87	168	-2720N	99.20
10.25	87	168	-2721A	152.70
10.30	87	168	-2722B	141.30
10.40	87	168	-2723C	152.70
10.50	87	168	-2724D	95.80
10.70	94	175	-2726F	170.20
10.80	94	175	-2728H	154.50
11.00	94	175	-2730K	101.30
11.20	94	175	-2732M	164.10
11.40	94	175	-2735Q	164.10
11.50	94	175	-2736R	106.90
11.70	94	175	-2738T	175.20
11.80	94	175	-2740W	175.20
12.00	101	182	-2742Y	114.60
12.10	101	182	-2743N	175.20
12.20	101	182	-2744A	178.80
12.30	101	182	-2746C	178.80
12.40	101	182	-2747D	178.80
12.50	101	182	-2748E	117.90
12.70	101	182	-2750G	181.60
12.80	101	182	-2752J	189.70
13.00	101	182	-2754L	124.40
13.20	101	182	-2756N	190.30
13.30	108	189	-2758Q	190.30
13.50	108	189	-2760S	135.50
13.60	108	189	-2761T	190.30
13.90	108	189	-2765Y	190.30
14.00	108	189	-2766N	134.30
2 Morse Taper				
14.10	114	212	-2766P	226.30
14.20	114	212	-2766S	226.30
14.25	114	212	-2767A	227.50
14.50	114	212	-2768B	149.60
14.75	114	212	-2769C	237.40
15.00	114	212	-2770D	237.40
15.10	120	218	-2770G	246.80
15.20	120	218	-2770L	246.80
15.25	120	218	-2771E	246.80
15.50	120	218	-2772F	162.80
15.75	120	218	-2773G	252.10
16.00	120	218	-2774H	166.20
16.10	125	223	-2774N	261.10
16.20	125	223	-2774T	261.10

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
16.25	125	223	-2775J	261.10
16.30	125	223	-2775P	260.30
16.50	125	223	-2776K	172.80
17.00	125	223	-2778M	178.20
17.25	130	228	-2779N	283.00
17.50	130	228	-2780P	186.00
17.70	130	228	-2781B	283.00
17.75	130	228	-2781Q	294.30
18.00	130	228	-2782R	192.50
18.25	135	233	-2783S	313.40
18.50	135	233	-2784T	198.10
19.00	135	233	-2786W	210.10
19.25	140	238	-2787X	348.90
19.50	140	238	-2788Y	246.20
20.00	140	238	-2790A	246.20
20.25	145	243	-2791B	375.80
20.50	145	243	-2793D	255.30
20.75	145	243	-2794E	502.60
21.00	145	243	-2795F	243.20
21.25	150	248	-2796G	410.90
21.50	150	248	-2797H	258.50
21.75	150	248	-2798J	432.40
22.00	150	248	-2799K	266.10
22.25	150	248	-2800L	444.60
22.50	150	248	-2801M	274.90
23.00	150	248	-2803P	292.50
3 Morse Taper				
23.25	150	248	-2804Q	472.00
23.50	150	248	-2805R	324.40
24.00	160	281	-2807T	338.70
24.50	160	281	-2809W	354.00
25.00	160	281	-2811Y	369.30
25.50	165	286	-2813A	384.80
26.00	165	286	-2815C	388.10
26.50	165	286	-2817E	401.20
27.00	170	291	-2819G	417.70
27.50	170	291	-2821J	433.10
28.00	170	291	-2823L	449.60
28.50	175	296	-2825N	464.90
29.00	175	296	-2827Q	480.50
29.50	175	296	-2829S	505.60
30.00	175	296	-2831V	520.90
30.50	180	301	-2833X	547.30
31.00	180	301	-2835N	588.10
31.50	180	301	-2837B	612.20
4 Morse Taper				
32.00	185	334	-2839D	645.20
32.50	185	334	-2840E	701.20
33.00	185	334	-2842G	734.00
33.50	185	334	-2843H	790.20
34.00	190	339	-2844J	792.40
34.50	190	339	-2845K	815.40
35.00	190	339	-2846L	871.40
35.50	190	339	-2847M	905.40
36.00	195	344	-2848N	889.00
37.00	195	344	-2850Q	995.60
37.50	195	344	-2851R	1029.70
38.00	200	349	-2852S	1054.90
38.50	200	349	-2853T	1086.80
39.00	200	349	-2854V	1146.10
39.50	200	349	-2855W	1202.10
40.00	200	349	-2856X	1203.20
41.00	205	354	-2858N	1293.40
42.00	205	354	-2860B	1344.80
43.00	210	359	-2862D	1471.20
44.00	210	359	-2864F	1460.20
45.00	210	359	-2866H	1551.30
46.00	215	364	-2868K	1619.50
47.00	215	364	-2870M	1738.20
48.00	220	369	-2872P	1755.90
49.00	220	369	-2874R	1864.60
50.00	220	369	-2876T	1941.40
5 Morse Taper				
55.00	230	417	-2882A	2587.30
60.00	235	422	-2887F	3486.90
65.00	245	432	-2892L	3831.70
70.00	250	437	-2897R	4981.20

Series T100 - Inch

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-025	Price/1 RND
1 Morse Taper				
1/8"	1 7/16"	4 5/8"	-2550E	78.20
9/64"	1 17/32"	4 3/4"	-2550F	78.20
5/32"	1 11/16"	4 27/32"	-2550G	78.20
11/64"	1 27/32"	5 1/4"	-2550H	78.20
3/16"	2 1/16"	5 1/4"	-2550J	78.20
13/64"	2 1/16"	5 1/4"	-2550K	78.90
7/32"	2 1/4"	5 7/16"	-2550L	82.10
1/4"	2 1/2"	5 11/16"	-2550N	82.10
17/64"	2 23/32"	5 29/32"	-2550P	82.10
9/32"	2 23/32"	5 29/32"	-2550Q	84.30
19/64"	2 15/16"	6 1/8"	-2550R	84.30
5/16"	2 15/16"	6 1/8"	-2550S	84.30
21/64"	2 15/16"	6 1/8"	-2550T	84.30
11/32"	3 3/16"	6 3/8"	-2550V	84.30
23/64"	3 3/16"	6 3/8"	-2550W	84.30
3/8"	3 3/16"	6 5/8"	-2550X	85.40
25/64"	3 7/16"	6 5/8"	-2550Y	85.40
13/32"	3 7/16"	6 5/8"	-2550Z	86.60
27/64"	3 11/16"	6 7/8"	-2551A	88.60
7/16"	3 11/16"	6 7/8"	-2551B	100.10
29/64"	3 11/16"	6 7/8"	-2551C	109.10
15/32"	3 31/32"	7 5/32"	-2551D	138.30
31/64"	3 31/32"	7 5/32"	-2551E	139.40
1/2"	3 31/32"	7 5/32"	-2551F	151.10
33/64"	3 31/32"	7 5/32"	-2551G	145.10
17/32"	4 1/4"	7 7/16"	-2551H	188.00
35/64"	4 1/4"	7 7/16"	-2551J	156.00
2 Morse Taper				
9/16"	4 1/2"	8 3/8"	-2551K	201.30
37/64"	4 1/2"	8 3/8"	-2551L	209.60
19/32"	4 3/4"	8 5/8"	-2551M	231.10
39/64"	4 3/4"	8 5/8"	-2551N	237.60
5/8"	4 3/4"	8 5/8"	-2551P	253.80
41/64"	4 7/8"	8 3/4"	-2551Q	267.90
21/32"	4 7/8"	8 3/4"	-2551R	279.80
43/64"	5 1/8"	9"	-2551S	283.00
11/16"	5 1/8"	9"	-2551T	291.60
45/64"	5 1/8"	9"	-2551V	299.20
23/32"	5 1/4"	9 1/8"	-2551W	310.00
47/64"	5 1/4"	9 1/8"	-2551X	312.20
3/4"	5 1/2"	9 3/8"	-2551Y	313.20
49/64"	5 1/2"	9 3/8"	-2551Z	315.40
25/32"	5 1/2"	9 3/8"	-2552A	317.60
51/64"	5 3/4"	9 5/8"	-2552B	319.70
13/16"	5 3/4"	9 5/8"	-2552C	323.70
53/64"	5 3/4"	9 5/8"	-2552D	324.00
27/32"	5 7/8"	9 3/4"	-2552E	334.80
55/64"	5 7/8"	9 3/4"	-2552F	347.80
7/8"	5 7/8"	9 3/4"	-2552G	358.90
57/64"	6 1/8"	10"	-2552H	358.60
29/32"	6 1/8"	10"	-2552J	358.90
3 Morse Taper				
59/64"	6 1/8"	10 7/8"	-2552K	372.60
15/16"	6 1/4"	11"	-2552L	393.70
61/64"	6 1/4"	11"	-2552M	398.60
31/32"	6 1/4"	11"	-2552N	401.80
63/64"	6 1/2"	11 1/4"	-2552P	420.20
1"	6 1/2"	11 1/4"	-2552Q	475.50
1 1/64"	6 1/2"	11 1/4"	-2552R	485.00
1 1/32"	6 1/2"	11 1/4"	-2552S	495.80
1 1/16"	6 5/8"	11 3/8"	-2552V	499.00
1 3/32"	6 5/8"	11 3/8"	-2552X	506.60
1 7/64"	6 5/8"	11 5/8"	-2552Y	540.00
1 1/8"	6 7/8"	11 5/8"	-2552Z	563.80
1 5/32"	6 7/8"	11 5/8"	-2553B	5

**HSS Extra Length
Taper Shank Drills**

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**.

**HSS****EXTENDED
RANGE****Metric**

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
1 Morse Taper				
6.00	110.0	200.0	-3950A	340.90
6.00	160.0	250.0	-3951B	340.90
6.50	135.0	200.0	-3953D	340.90
6.50	160.0	250.0	-3954E	340.90
7.00	110.0	200.0	-3956G	355.60
7.00	160.0	250.0	-3957H	393.80
7.50	160.0	250.0	-3960L	393.80
8.00	110.0	200.0	-3961M	393.80
8.00	160.0	250.0	-3962N	393.80
8.00	225.0	315.0	-3963P	420.80
8.00	310.0	400.0	-3964Q	790.00
8.50	110.0	200.0	-3966S	420.80
8.50	160.0	250.0	-3967T	420.80
8.50	225.0	315.0	-3968V	492.10
8.50	310.0	400.0	-3969W	807.10
9.00	110.0	200.0	-3970X	492.10
9.00	160.0	250.0	-3971Y	492.10
9.00	225.0	315.0	-3972Z	497.70
9.00	310.0	400.0	-3972T	550.80
9.50	160.0	250.0	-3975C	497.70
9.50	225.0	315.0	-3976D	524.20
10.00	160.0	250.0	-3978F	524.20
10.00	225.0	315.0	-3979G	581.30
10.00	310.0	400.0	-3980H	893.50
10.00	410.0	500.0	-3981J	977.80
11.00	160.0	250.0	-3982K	581.30
11.00	225.0	315.0	-3983L	612.20
11.00	310.0	400.0	-3984M	980.90
12.00	160.0	250.0	-3986P	980.90
12.00	225.0	315.0	-3987Q	980.90
12.00	310.0	400.0	-3988R	1079.00
12.00	410.0	500.0	-3989S	1174.70
13.00	160.0	250.0	-3990T	1174.70
13.00	225.0	315.0	-3991V	1174.70
13.00	310.0	400.0	-3992W	1174.70
14.00	160.0	250.0	-3994Y	1174.70
14.00	225.0	315.0	-3995N	1174.70
14.00	310.0	400.0	-3996A	1305.40

Metric continued

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
2 Morse Taper				
15.00	160.0	250.0	-3997B	1459.70
15.00	225.0	315.0	-3998C	1305.40
15.00	310.0	400.0	-3999D	1436.00
15.00	410.0	500.0	-4000E	1436.00
16.00	215.0	315.0	-4001F	1436.00
16.00	300.0	400.0	-4002G	1579.50
16.00	400.0	500.0	-4003H	1579.50
17.00	215.0	315.0	-4004J	1579.50
17.00	300.0	400.0	-4005K	1737.80
18.00	215.0	315.0	-4007M	1737.80
18.00	300.0	400.0	-4008N	1911.20
18.00	400.0	500.0	-4009P	1938.80
18.00	530.0	630.0	-4010Q	2048.60
19.00	215.0	315.0	-4011R	2048.60
19.00	300.0	400.0	-4012S	2101.80
20.00	215.0	315.0	-4015W	2101.80
20.00	300.0	400.0	-4016X	2313.20
20.00	400.0	500.0	-4017Y	2326.90
21.00	215.0	315.0	-4019A	2326.90
21.00	300.0	400.0	-4020B	2543.10
21.00	400.0	500.0	-4021C	2558.70
22.00	215.0	315.0	-4022D	2558.70
22.00	300.0	400.0	-4023E	2799.10
22.00	400.0	500.0	-4024F	2814.50
3 Morse Taper				
23.00	400.0	500.0	-4028K	3175.20
24.00	275.0	400.0	-4029L	3403.50
24.00	375.0	500.0	-4030M	3518.60
25.00	275.0	400.0	-4032P	3724.60
25.00	375.0	500.0	-4033Q	3870.60
26.00	275.0	400.0	-4035S	4097.40
26.00	375.0	500.0	-4036T	4257.00
28.00	375.0	500.0	-4041N	4682.80
28.00	505.0	630.0	-4042A	4895.70
30.00	275.0	400.0	-4043B	4947.20
30.00	375.0	500.0	-4044C	5149.90
32.00	450.0	575.0	-4045F	9633.10
35.00	450.0	575.0	-4047B	10928.40
40.00	450.0	575.0	-4048C	13356.80
45.00	600.0	725.0	-4051B	16797.10
50.00	600.0	725.0	-4055F	20642.20

Inch

Dia. (inch)	Flute Length	Overall Length	Order Code SHR-024	Price/1 RND
1 Morse Taper				
1/4"	160	250	-3731B	335.20
1/4"	300	400	-3733D	2127.00
17/64"	110	200	-3734E	335.20
9/32"	110	200	-3737H	335.20
9/32"	185	250	-3738J	371.50
11/32"	160	250	-3754B	421.70
3/8"	110	200	-3761Y	1110.60
3/8"	160	250	-3762K	426.80
3/8"	225	315	-3763L	602.80
13/32"	160	250	-3769S	448.70
27/64"	160	250	-3773X	448.70
29/64"	160	250	-3781F	451.90
15/32"	115	200	-3783H	1199.20
15/32"	175	250	-3784J	1385.00
1/2"	125	200	-3790Q	1179.60
1/2"	160	250	-3791R	486.30
1/2"	310	400	-3793T	898.30
2 Morse Taper				
9/16"	215	315	-3808K	630.00
9/16"	400	500	-3810M	1190.50
5/8"	215	315	-3820Y	637.60
5/8"	300	400	-3821N	932.40
11/16"	215	315	-3833M	731.40
3/4"	215	315	-3845A	879.90
3/4"	300	400	-3846B	1089.70
7/8"	300	400	-3866Y	1459.50
7/8"	400	500	-3867N	1926.70
3 Morse Taper				
1"	375	500	-3879M	2149.90
1 1/8"	275	400	-3885T	2149.90

**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%****NEW****Series 345**

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-026	Price/1 RND
1 Morse Taper				
10.00	87.0	168.0	-1824W	141.90
10.50	87.0	168.0	-1824X	166.00
11.00	94.0	175.0	-1824Y	166.00
12.00	101.0	182.0	-1825A	164.30
12.50	101.0	182.0	-1825B	198.40
13.00	101.0	182.0	-1825C	213.90
13.50	108.0	189.0	-1825D	223.40
14.00	108.0	189.0	-1825E	225.60
14.50	114.0	212.0	-1825F	246.10
15.00	114.0	212.0	-1825G	254.70
15.50	120.0	218.0	-1825H	269.90

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-026	Price/1 RND
2 Morse Taper				
16.00	120.0	218.0	-1825J	277.30
16.50	125.0	223.0	-1825K	298.20
17.00	125.0	223.0	-1825L	315.60
17.50	130.0	228.0	-1825M	280.30
18.00	130.0	228.0	-1825N	300.70
18.50	135.0	233.0	-1825P	339.90
19.00	135.0	233.0	-1825Q	345.60
20.00	140.0	238.0	-1825S	372.20
21.00	145.0	243.0	-1825V	499.60
22.00	150.0	248.0	-1825X	551.60

Dia. (mm)	Flute Length	Overall Length	Order Code SHR-026	Price/1 RND
3 Morse Taper				
24.00	160.0	281.0	-1826B	663.20
25.00	160.0	281.0	-1826D	669.20
26.00	165.0	286.0	-1826F	748.30
28.00	170.0	291.0	-1826K	953.80
30.00	175.0	296.0	-1826P	1047.10
4 Morse Taper				
32.00	185.0	334.0	-1826T	1442.90

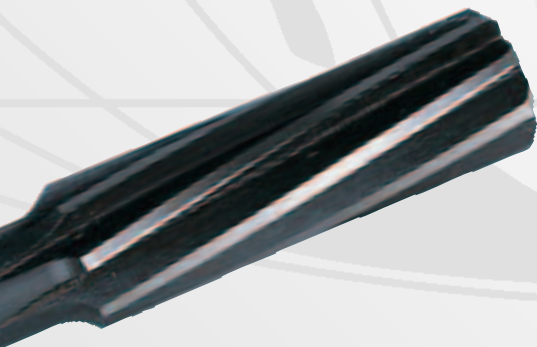
***Straight & Taper
Shank Drills***



***Countersinks &
Counterbores***



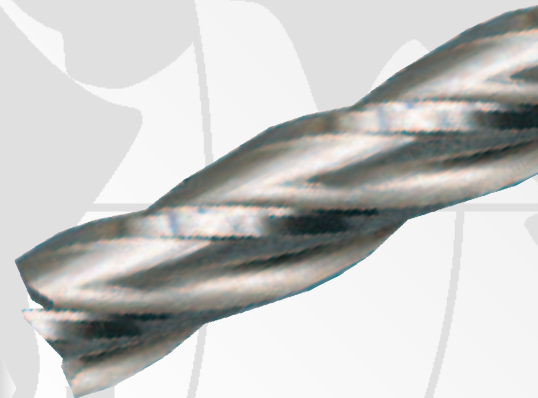
***Hand & Machine
Reamers***



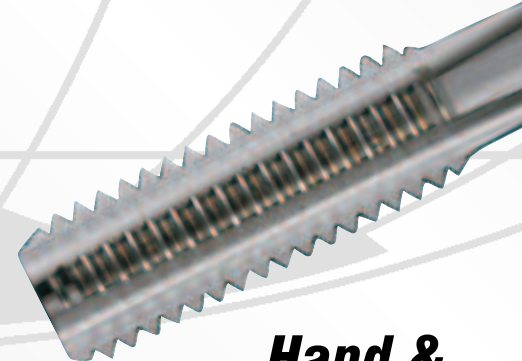
***Centre
Drills***



***Shank & Bore
Milling Cutters***



***Hand &
Machine Taps***



***Full Range of Sizes and Sets - Massive Stocks Available!
mm, inch, DIN, ISO, UN, BS, and ANSI Standards***

KENNEDY 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**.

Safety Wooden File Handles

A split file handle can cause a serious industrial accident. Kennedy safety handles are rapidly becoming standard equipment in workshops. Firmly secured inside each handle and covered by a ferrule is a steel spring, this combination absorbs the pressure when the tang of the file is driven into the handle, prevent splitting or cracking. Once properly inserted the tang of the file is held in a vice like grip that under normal use is virtually impossible to remove, unless the handle is deliberately broken.



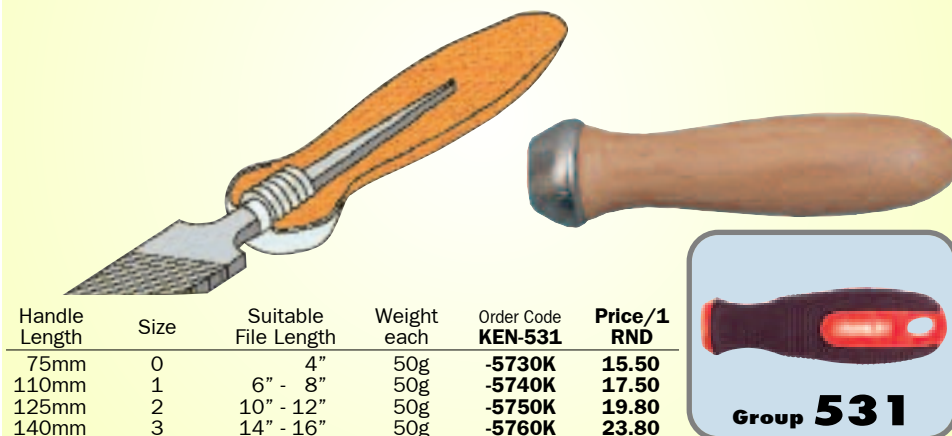
Bastard Cut



Second Cut



Smooth Cut



Handle Length	Size	Suitable File Length	Weight each	Order Code KEN-531	Price/1 RND
75mm	0	4"	50g	-5730K	15.50
110mm	1	6" - 8"	50g	-5740K	17.50
125mm	2	10" - 12"	50g	-5750K	19.80
140mm	3	14" - 16"	50g	-5760K	23.80



Overall Length	Type	Smooth Cut			Second Cut			Bastard Cut		
		Weight per 10	Order Code KEN-030	Price/1 RND	Weight per 10	Order Code KEN-030	Price/1 RND	Weight per 10	Order Code KEN-030	Price/1 RND
100mm (4")	Hand	0.27kg	-0010K	40.40	0.27kg	-0020K	40.40	0.27kg	-0030K	40.40
	Flat	0.27kg	-0110K	40.40	0.26kg	-0120K	40.40	0.26kg	-0130K	40.40
	Round	0.09kg	-0210K	40.40	0.09kg	-0220K	40.40	0.09kg	-0230K	40.40
	Half Round	0.29kg	-0310K	40.40	0.29kg	-0320K	40.40	0.29kg	-0330K	40.40
	Square	0.10kg	-0410K	40.40	0.10kg	-0420K	40.40	0.12kg	-0430K	40.40
	3 Square	0.27kg	-0510K	40.40	0.29kg	-0520K	40.40	0.31kg	-0530K	40.40
	Warding	0.11kg	-0710K	40.40	0.12kg	-0720K	40.40	0.12kg	-0730K	40.40
150mm (6")	Hand	0.73kg	-2010K	48.30	0.73kg	-2020K	48.30	0.77kg	-2030K	48.30
	Flat	0.74kg	-2110K	48.30	0.71kg	-2120K	48.30	0.71kg	-2130K	48.30
	Round	0.35kg	-2210K	48.30	0.34kg	-2220K	48.30	0.35kg	-2230K	48.30
	Half Round	0.72kg	-2310K	48.30	0.72kg	-2320K	48.30	0.72kg	-2330K	48.30
	Square	0.37kg	-2410K	48.30	0.40kg	-2420K	48.30	0.40kg	-2430K	48.30
	3 Square	0.86kg	-2510K	48.30	0.82kg	-2520K	48.30	0.82kg	-2530K	48.30
	Knife	0.59kg	-2610K	48.30	0.62kg	-2620K	48.30	0.62kg	-2630K	48.30
	Warding	0.35kg	-2710K	48.30	0.36kg	-2720K	48.30	0.36kg	-2730K	48.30
	Pillar	0.35kg	-2810K	48.30	0.35kg	-2820K	48.30	0.36kg	-2830K	48.30
	Double Ended	-	-	-	0.33kg	-2930K	48.30	-	-	-
175mm (7")	Taper Saw	-	-	-	0.88kg	-2940K	137.50	-	-	-
	Double Ended	-	-	-	0.34kg	-3930K	48.80	-	-	-
200mm (8")	Hand	1.70kg	-4010K	52.20	1.75kg	-4020K	52.20	1.60kg	-4030K	52.20
	Flat	1.35kg	-4110K	52.20	1.35kg	-4120K	52.20	1.35kg	-4130K	52.20
	Round	0.60kg	-4210K	52.20	0.60kg	-4220K	52.20	0.60kg	-4230K	52.20
	Half Round	1.50kg	-4310K	52.20	1.50kg	-4320K	52.20	1.55kg	-4330K	52.20
	Square	0.81kg	-4410K	52.20	0.85kg	-4420K	52.20	0.83kg	-4430K	52.20
	3 Square	2.00kg	-4510K	52.20	1.80kg	-4520K	52.20	1.90kg	-4530K	52.20
	Knife	1.35kg	-4610K	52.20	1.40kg	-4620K	52.20	1.30kg	-4630K	52.20
	Warding	1.00kg	-4710K	52.20	0.90kg	-4720K	52.20	0.76kg	-4730K	52.20
	Pillar	0.67kg	-4810K	52.20	0.85kg	-4820K	52.20	0.70kg	-4830K	52.20
	Millsaw	-	-	-	1.90kg	-4920K	52.20	-	-	-
225mm (9")	Double Ended	-	-	-	0.50kg	-4930K	52.20	-	-	-
	Taper Saw	-	-	-	0.72kg	-4940K	52.20	-	-	-
255mm (10")	Hand	3.00kg	-6010K	58.00	3.10kg	-6020K	58.00	3.10kg	-6030K	58.00
	Flat	2.90kg	-6110K	58.00	2.90kg	-6120K	58.00	2.70kg	-6130K	58.00
	Round	1.30kg	-6210K	58.00	1.30kg	-6220K	58.00	1.25kg	-6230K	58.00
	Half Round	2.55kg	-6310K	58.00	2.55kg	-6320K	58.00	2.60kg	-6330K	58.00
	Square	1.60kg	-6410K	58.00	1.70kg	-6420K	58.00	1.75kg	-6430K	58.00
	3 Square	1.85kg	-6510K	58.00	2.70kg	-6520K	58.00	3.00kg	-6530K	58.00
	Warding	-	-	-	1.60kg	-6720K	58.00	1.50kg	-6730K	58.00
	Millsaw	-	-	-	2.10kg	-6910K	58.00	-	-	-
	Double Ended	-	-	-	0.97kg	-6930K	58.00	-	-	-
	Hand	4.30kg	-7010K	73.70	4.35kg	-7020K	73.70	4.40kg	-7030K	73.70
305mm (12")	Flat	4.20kg	-7110K	73.70	4.30kg	-7120K	73.70	4.50kg	-7130K	73.70
	Round	2.50kg	-7210K	73.70	2.40kg	-7220K	73.70	2.45kg	-7230K	73.70
	Half Round	4.60kg	-7310K	73.70	4.35kg	-7320K	73.70	4.40kg	-7330K	73.70
	Square	3.20kg	-7410K	73.70	3.25kg	-7420K	73.70	1.40kg/5	-7430K	73.70
	3 Square	4.50kg	-7510K	73.70	4.95kg	-7520K	73.70	4.55kg	-7530K	73.70
	1 Round Edge Mill	-	-	-	1.20kg/5	-7910K	73.70	-	-	-
	Hand	3.70kg/5	-8010K	115.70	3.70kg/5	-8020K	115.70	3.40kg/5	-8030K	115.70
	Flat	2.23kg/5	-8110K	115.70	3.45kg/5	-8120K	115.70	3.30kg/5	-8130K	115.70
	Round	2.45kg/5	-8210K	115.70	2.50kg/5	-8220K	115.70	2.55kg/5	-8230K	115.70
	Half Round	2.90kg/5	-8310K	115.70	3.50kg/5	-8320K	115.70	3.55kg/5	-8330K	115.70
355mm (14")	Square	3.10kg/5	-8410K	115.70	3.00kg/5	-8420K	115.70	3.07kg/5	-8430K	115.70
	3 Square	-	-	-	3.35kg/5	-8520K	115.70	3.50kg/5	-8530K	115.70
	Hand	-	-	-	-	-	-	5.30kg/5	-9030K	150.80
	Flat	-	-	-	5.10kg/5	-9120K	150.80	5.00kg/5	-9130K	150.80
	Half Round	-	-	-	4.85kg/5	-9320K	150.80	4.75kg/5	-9330K	150.80
	Square	-	-	-	-	-	-	4.45kg/5	-9430K	150.80
405mm (16")	Hand	-	-	-	-	-	-	-	-	-
	Flat	-	-	-	-	-	-	-	-	-
	Half Round	-	-	-	-	-	-	-	-	-
	Square	-	-	-	-	-	-	-	-	-

SENATOR
QUALITY TOOLING

Engineer's File Sets

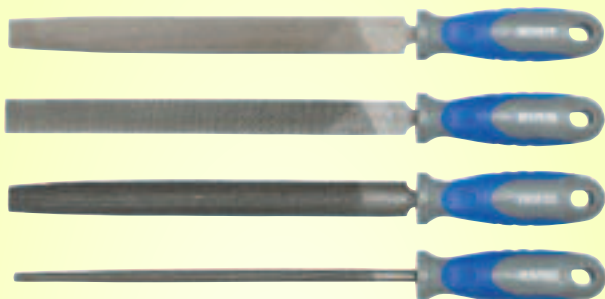


A selection of popular engineer's files suitable for filing and deburring on a wide variety of materials. Double cut teeth for rapid metal removal. Ideal for workshop or garage. Manufactured to BS498:1990 and American Federal Standard GGG-F-3256.

Contents (1 of each):

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

**4
PIECES**



Number of Pieces	Size	Order Code SEN-030	Price/1 RND
4	150mm (6")	-9510K	206.50
4	200mm (8")	-9520K	258.40
4	255mm (10")	-9530K	310.20

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:

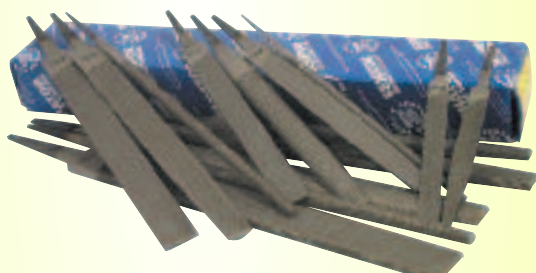
Hand - 305mm (12"), 255mm (10"), 200mm (8"), 125mm (5").

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	Price/1 RND
14	-9800K	416.80

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.

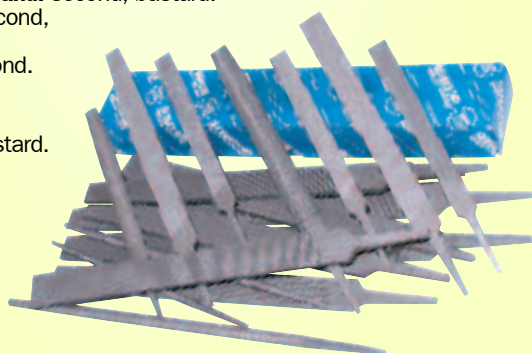
Half Round: second.

Round: bastard.

305mm (12"):

Flat: second, bastard.

**20
PIECES**



Number of Pieces	Order Code SEN-030	Price/1 RND
20	-9840K	812.40

KENNEDY
CELEBRITY IN QUALITY WORK

Engineer's Second Cut File Sets



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	Price/1 RND
8	150mm (6")	75mm (3")	0.44kg	-9860K	327.00
8	200mm (8")	100mm (4")	0.89kg	-9880K	353.20
8	255mm (10")	125mm (5")	1.65kg	-9900K	385.80

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	Price/1 RND
8	-9930K	457.80

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**



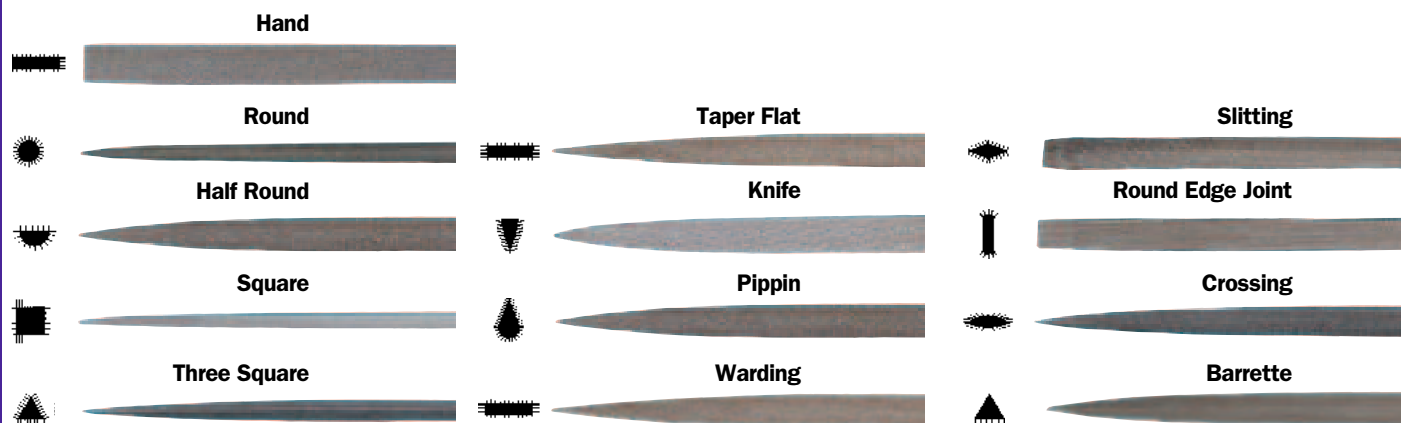
Needle file set in PVC wallet.

Number of Pieces	Order Code KEN-030	Price/1 RND
18	-9990K	943.90



**Precision Hand Files
Needle Pattern (Round Handle)**

Available in 14cm and 16cm lengths and a complete range of shapes. Manufactured to **BS 498:1990**.



Overall Length	Type	Weight per 10	Cut 0		Cut 2		Cut 4	
			Order Code KEN-031	Price/1 RND	Order Code KEN-031	Price/1 RND	Order Code KEN-031	Price/1 RND
140mm (5½")	Hand	80g	-5000K	34.70	-5020K	34.70	-5040K	34.70
	Round	75g	-5200K	34.70	-5220K	34.70	-5240K	34.70
	Half Round	75g	-5300K	34.70	-5320K	34.70	-5340K	34.70
	Square	80g	-5400K	34.70	-5420K	34.70	-5440K	34.70
	3 Square	70g	-5500K	34.70	-5520K	34.70	-5540K	34.70
	Taper Flat	70g	-	-	-5560K	34.70	-5570K	34.70
	Knife	70g	-5600K	34.70	-5620K	34.70	-5640K	34.70
	Warding	70g	-5700K	34.70	-5720K	34.70	-5740K	34.70
	Slitting	80g	-	-	-5820K	34.70	-	-
	Crossing	75g	-	-	-5920K	34.70	-	-
	Barrette	80g	-	-	-5960K	34.70	-	-
160mm (6½")	Hand	80g	-6000K	39.60	-6020K	39.60	-6040K	39.60
	Round	75g	-6200K	39.60	-6220K	39.60	-6240K	39.60
	Half Round	75g	-6300K	39.60	-6320K	39.60	-6340K	39.60
	Square	80g	-6400K	39.60	-6420K	39.60	-	-
	3 Square	70g	-6500K	39.60	-6520K	39.60	-6540K	39.60
	Taper Flat	70g	-	-	-6560K	39.60	-	-
	Knife	70g	-6600K	39.60	-6620K	39.60	-	-
	Warding	70g	-6700K	39.60	-6720K	39.60	-	-
	Slitting	80g	-	-	-6820K	39.60	-	-
	Crossing	75g	-	-	-6920K	39.60	-	-
	Barrette	80g	-	-	-6960K	39.60	-	-

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,
R/Edge Joint, Slitting,
Warding, Barrette.

**12
PIECES**



Number of Pieces	Weight each	Order Code KEN-031	Price/1 RND
14cm			
6	50g	-5980K	207.90
12	120g	-5990K	416.00
16cm			
6	70g	-6980K	237.00
12	150g	-6990K	474.10



**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, R/Edge Joint,
Slitting, Warding, Barrette.

**12
PIECES**



Number of Pieces	Weight each	Order Code SEN-031	Price/1 RND
16cm			
6	50g	-6980K	147.50
12	120g	-6990K	282.80

KENNEDY **Diemakers**
Riffler Files

Swiss Pattern

Available in a complete range of shapes, the 15cm are used by diemakers, jewellers, silversmiths, engravers etc. All are double ended with the same cut both ends.



15cm Riffler Files - Cut 2

Illustration	Style Number	Weight per 10	Order Code KDY-031	Price/1 RND
	900	120g	-7020K	243.00
	905	110g	-7100K	243.00
	911	120g	-7180K	243.00
	913	120g	-7260K	243.00
	914	120g	-7300K	243.00
	915	120g	-7340K	243.00
	916	110g	-7380K	243.00
	917	120g	-7420K	243.00
	918	110g	-7460K	243.00
	931	120g	-7620K	243.00
	940	90g	-7660K	243.00
	943	120g	-7780K	243.00
	952	110g	-7900K	243.00
	955	120g	-7980K	243.00
	957	120g	-8060K	243.00
	963	120g	-8220K	243.00
	981	120g	-8620K	243.00
	982	100g	-8660K	243.00
	983	100g	-8700K	243.00
	984	100g	-8740K	243.00
	985	140g	-8780K	243.00
	986	120g	-8820K	243.00
	987	130g	-8860K	243.00
	996	120g	-9060K	243.00

Riffler File Sets

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 KDY-031	Price/1 RND
12	310g	-9110K	2462.40

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 KDY-031	Price/1 RND
12	310g	-9120K	2462.40

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



**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	Price/1 RND
200mm (8")	1.30kg	-2080K	145.70
255mm (10")	2.10kg	-2100K	169.60
305mm (12")	2.90kg	-2120K	215.90
355mm (14")	5.30kg	-2140K	263.00



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.

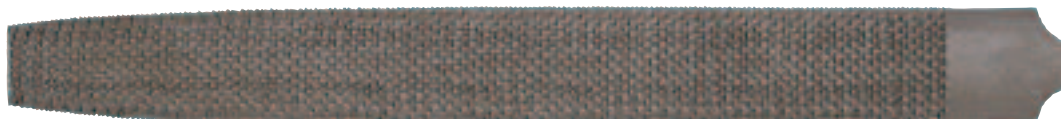
Rasps

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

Hand



Half Round



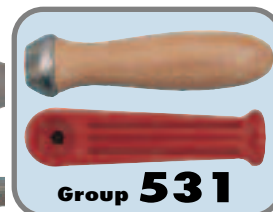
Round



Cabinet



EXTENDED RANGE



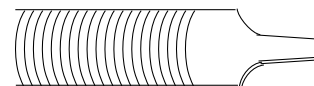
Group 531

Overall Length	Type	Weight per 10	Smooth		Second		Bastard	
			Order Code KEN-032	Price/1 RND	Order Code KEN-032	Price/1 RND	Order Code KEN-032	Price/1 RND
150mm (6")	Hand	0.80kg	-	-	-3020K	104.90	-3030K	104.90
	Half Round	0.80kg	-3110K	104.90	-3120K	104.90	-3130K	104.90
	Round	0.80kg	-	-	-3220K	104.90	-3230K	104.90
200mm (8")	Hand	1.70kg	-3610K	144.20	-3620K	144.20	-3630K	144.20
	Half Round	1.50kg	-3710K	144.20	-3720K	144.20	-3730K	144.20
	Round	0.90kg	-	-	-	-	-3830K	144.20
	Cabinet	2.10kg	-	-	-3920K	144.20	-3930K	144.20
255mm (10")	Hand	2.75kg	-4210K	177.20	-4220K	177.20	-4230K	177.20
	Half Round	2.65kg	-4310K	177.20	-4320K	177.20	-4330K	177.20
	Round	1.70kg	-4410K	177.20	-4420K	177.20	-4430K	177.20
	Cabinet	3.00kg	-4510K	177.20	-4520K	177.20	-4530K	177.20
305mm (12")	Hand	4.60kg	-4810K	177.20	-4820K	243.20	-4830K	243.20
	Half Round	4.60kg	-	-	-4920K	243.20	-4930K	243.20
	Round	2.50kg	-	-	-5020K	243.20	-5030K	243.20
	Cabinet	4.00kg	-5110K	243.20	-	-	-5130K	243.20

Curved Tooth Files

Curved Cut

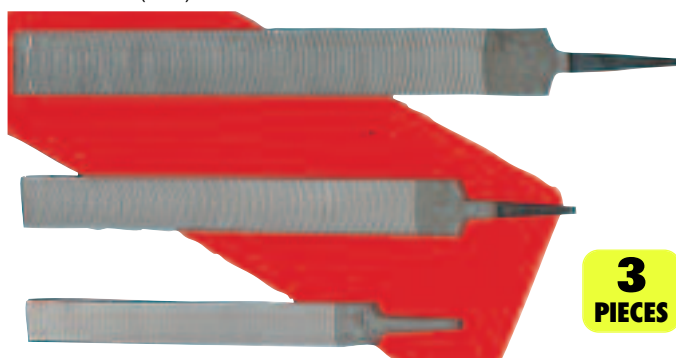
Teeth are arranged in curved contours across the file face. Normally used in automotive body shops for smoothing body panels.



Overall Length	Weight per 10	Order Code KEN-032	Price/1 RND
200mm (8")	1.30kg	-1080K	124.60
255mm (10")	2.00kg	-1100K	144.20
305mm (12")	4.00kg	-1120K	190.10
355mm (14")	5.90kg	-1140K	247.50

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	Price/1 RND
3	765g	-1830K	581.60



KENNEDY
QUALITY TOOLING



Hardness Testing File Set

Set of six precision testing files with specially curved tips which are designed to reach into bores, slots and grooves, which cannot otherwise be tested with conventional types of hardness testers. Each file has a non-slip grip colour coded handle for hardness assessment, with the Rockwell value printed on each. Files range from HRC 40 through HRC 65. Set comes complete with instructions and conversion chart Rockwell C to Vickers. Provides a quick and inexpensive way of testing work piece hardness.



**6
PIECES**

Number of Pieces	Weight each	Order Code KEN-033	Price/1 RND
6	255g	-9000K	2646.20

SENATOR
QUALITY TOOLING

Diamond Needle & Riffler Files

14cm

Diamond files, with soft touch foam rubber handles for comfort.

EXTENDED RANGE

Style	Order Code SEN-033	Price/1 RND
Flat	-1510K	94.90
3 Square	-1560K	94.90
Slitting	-1640K	94.90
905	-2010K	94.90
911	-2020K	94.90
940	-2030K	94.90
952	-2040K	94.90
961	-2050K	94.90
963	-2060K	94.90
985	-2070K	94.90



Diamond Riffler & Needle File Set

14cm

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

Contents: 1 of each needle file: flat, three square, slitting, and 1 of each style riffler: 985, 911, 905, 940, 952, 961 and 963.



**10
PIECES**

Number of Pieces	Weight each	Order Code SEN-033	Price/1 RND
10		-2700K	791.00

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.



DIAMOND

**6
PIECES**

Number of Pieces	Weight each	Order Code SEN-033	Price/1 RND
6	115g	-0600K	497.30

KENNEDY
QUALITY TOOLING

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.



Type	Weight per 6	120/140 Grain		325/400 Grain	
		Order Code KEN-033	Price/1 RND	Order Code KEN-033	Price/1 RND
Hand	70g	-0020K	110.30	-0220K	118.50
H/Round	60g	-0040K	110.30	-0240K	118.50
3 Square	60g	-0060K	110.30	-0260K	118.50
Round	60g	-0080K	110.30	-0280K	118.50
Square	60g	-0100K	110.30	-0300K	118.50
Knife	60g	-0120K	110.30	-0320K	118.50
Flat	60g	-0140K	110.30	-0340K	118.50

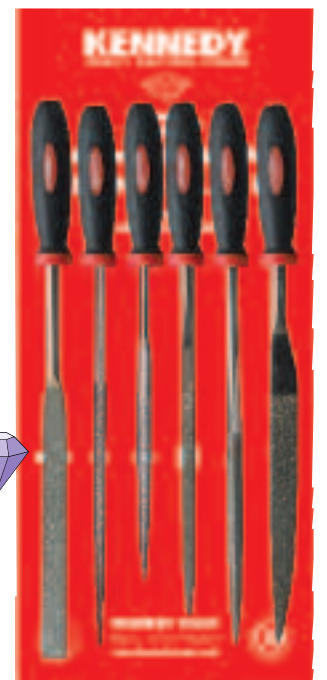
DIAMOND

Diamond Needle File Set

16cm

120/140 grain.

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



DIAMOND

**6
PIECES**

Number of Pieces	Weight each	Order Code KEN-033	Price/1 RND
6	60g	-0500K	661.50

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 040 HACKSAW & POWERSAW BLADES

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.**



Group **538**



Improved re-usable packaging

Length	Width	Thickness	TPI	Weight per 100	Order Code KEN-040	Price/1 RND
10"	1/2"	.025	18T	1.50kg	-2130K	14.70
10"	1/2"	.025	24T	1.40kg	-2250K	14.70
10"	1/2"	.025	32T	1.40kg	-2320K	14.70
12"	1/2"	.025	14T	1.70kg	-2510K	16.40
12"	1/2"	.025	18T	1.70kg	-2630K	16.40
12"	1/2"	.025	24T	1.70kg	-2750K	16.40
12"	1/2"	.025	32T	1.70kg	-2870K	16.50

TPI Selection Guide

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.**



Improved re-usable packaging

Length	Width	Thickness	TPI	Weight per 100	Order Code KEN-040	Price/1 RND
10"	1/2"	.025	18T	1.40kg	-3130K	14.70
10"	1/2"	.025	24T	1.40kg	-3250K	14.70
12"	1/2"	.025	14T	1.70kg	-3510K	16.50
12"	1/2"	.025	18T	1.70kg	-3630K	16.50
12"	1/2"	.025	24T	1.70kg	-3750K	16.50
12"	1/2"	.025	32T	1.70kg	-3870K	16.50

Industrial Saw Blades

Junior Hand Saw Blades

Designed for use across a wide range of ferrous and non-ferrous materials. Suitable for mini hand saws and junior hacksaws. **Made to BS 6271 : 1990.**



Type	Length	TPI	Weight per 100	Order Code KEN-040	Price RND
Metal Pack 10	150mm (6")	32	420g	-0620K	19.60/10
Wood	150mm (6")	14	390g	-0640K	3.50/1



Coping Saw Blades

For cutting and shaping in wood. Supplied in packs of 10.



Length	TPI	Weight per 100	Order Code KEN-040	Price/10 RND
150mm (6")	14	250g	-1020K	42.60



Industrial Power/ Machine Saw Blades

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.

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.

Power Saw Hacksaw Blade Tooth Recommendations



Length	Width	Thickness	TPI	Weight per 10	Order Code KEN-040	Price/1 RND
12"	5/8"	.032"	18T	0.36kg	-4630K	38.10
12"	1"	.050"	10T	0.78kg	-5030K	69.10
12"	1"	.050"	14T	0.79kg	-5040K	69.10
14"	1"	.050"	10T	0.93kg	-5130K	97.80
14"	1"	.050"	14T	0.80kg	-5140K	97.80
14"	1 1/4"	.062"	6T	1.30kg	-5200K	139.30
14"	1 1/4"	.062"	10T	1.30kg	-5220K	139.30
14"	1 1/4"	.062"	14T	1.30kg	-5230K	139.30
16"	1 1/4"	.062"	6T	1.40kg	-5390K	155.50
16"	1 1/4"	.062"	10T	0.90kg	-5410K	155.50
16"	1 1/4"	.062"	14T	1.60kg	-5420K	155.50
16"	1 1/2"	.062"	4T	2.20kg	-5490K	191.50
16"	1 1/2"	.062"	6T	2.20kg	-5500K	191.50
17"	1 1/4"	.062"	10T	1.80kg	-5530K	193.80
18"	1 1/4"	.062"	6T	1.90kg	-5550K	198.10
18"	1 1/4"	.062"	10T	1.60kg	-5570K	198.10
18"	1 1/2"	.075"	6T	2.55kg	-5650K	218.90
19"	1 3/4"	.088"	6T	3.80kg	-5720K	218.90
20"	1 1/2"	.075"	6T	3.20kg	-5750K	243.50
21"	1 1/2"	.075"	6T	3.00kg	-5770K	255.80
21"	1 1/2"	.075"	10T	3.00kg	-5790K	255.80
21"	1 3/4"	.088"	6T	5.30kg	-5820K	440.50
24"	2"	.100"	6T	6.30kg	-5960K	589.00

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

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

**GROUP
050 HOLESAWS**
KENNEDY
QUALITY IN EVERY NOSE TOOL
**Constant Pitch
Bi-Metal HSS Holesaws**

Featuring a constant pitch - first choice for cutting thin sheet materials up to 3mm thick. For producing high quality holes in wood, steel, brass, bronze, cast iron, aluminium and plastic. Featuring a hardened HSS cutting edge welded to a tough alloy steel body. Heavy duty shatter-resistant construction; virtually unbreakable.

6 teeth per inch.
38mm (1½") cutting depth.

**CONSTANT
PITCH FOR
SHEET UP TO
3mm**



Holesaw Sizes	Use Arbor
14 to 30mm	K1 or K4
32 to 210mm	K2 or K10

Cutting Dia. (mm)	Weight each	Order Code KEN-050	Price/1 RND
14 (9/16")	27g	-0140K	83.70
16 (5/8")	28g	-0160K	83.70
17 (11/16")	35g	-0170K	83.70
19 (3/4")	34g	-0190K	83.70
20 (25/32")	39g	-0200K	83.70
21 (13/16")	39g	-0210K	83.70
22 (7/8")	46g	-0220K	83.70
24 (15/16")	57g	-0240K	86.70
25 (1")	61g	-0250K	98.40
27 (1 1/16")	74g	-0270K	98.40
29 (1 1/8")	83g	-0290K	98.40
30 (1 3/16")	93g	-0300K	98.40
32 (1 1/4")	75g	-0320K	98.40
33 (1 5/16")	81g	-0330K	98.40
35 (1 3/8")	93g	-0350K	98.40
37 (1 7/16")	100g	-0370K	98.40
38 (1 1/2")	86g	-0380K	98.40
40 (1 9/16")	91g	-0400K	103.60
41 (1 5/8")	100g	-0410K	109.10
43 (1 11/16")	100g	-0430K	115.20
44 (1 3/4")	100g	-0440K	121.10
46 (1 13/16")	110g	-0460K	121.10
48 (1 7/8")	110g	-0480K	121.10
51 (2")	120g	-0510K	121.10
52 (2 1/16")	120g	-0520K	142.20
54 (2 1/8")	130g	-0540K	145.70
56 (2 3/16")	135g	-0560K	147.10
57 (2 1/4")	140g	-0570K	149.60
59 (2 5/16")	150g	-0590K	149.60
60 (2 3/8")	160g	-0600K	149.60
64 (2 1/2")	170g	-0640K	149.60
65 (2 9/16")	180g	-0650K	153.50
67 (2 5/8")	190g	-0670K	159.80
68 (2 11/16")	200g	-0680K	159.80
70 (2 3/4")	210g	-0700K	162.20
73 (2 7/8")	230g	-0730K	165.80
76 (3")	230g	-0760K	165.80
79 (3 1/8")	260g	-0790K	165.80
83 (3 1/4")	310g	-0830K	190.80
86 (3 3/8")	330g	-0860K	192.60
89 (3 1/2")	330g	-0890K	195.40
92 (3 5/8")	330g	-0920K	211.20
95 (3 3/4")	365g	-0950K	211.20
102 (4")	365g	-1020K	241.10
105 (4 1/8")	400g	-1050K	241.10
108 (4 1/4")	400g	-1080K	255.40
111 (4 3/8")	435g	-1110K	266.40
114 (4 1/2")	465g	-1140K	288.60
121 (4 3/4")	500g	-1210K	299.70
127 (5")	565g	-1270K	321.90
133 (5 1/4")	600g	-1330K	332.80
140 (5 1/2")	650g	-1400K	355.20
152 (6")	800g	-1520K	421.60
210 (8 9/32")	1200g	-1540K	464.40

**Variable Pitch Bi-Metal
HSS Holesaws**

For wood, steel, brass, bronze, cast iron, aluminium and plastic. Aggressive cutting action and M3 HSS cutting teeth to give a very smooth finish. Cuts up to 40% faster than constant pitch saws. The varying tooth pitch gives substantial reductions in noise by disrupting harmonics. Tooth life is greatly extended, as is battery life when used with a cordless drill. Suitable for all uses: engineering, construction and maintenance.

4 to 6 teeth per inch.
28.5mm (1 1/8") cutting depth.

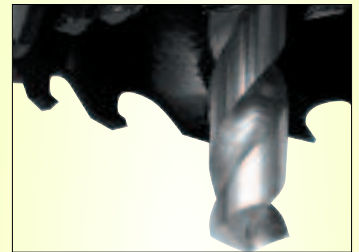
**VARIABLE
PITCH FOR
IMPROVED
ACTION**



Cutting Dia. (mm)	Weight each	Order Code KEN-050	Price/1 RND
14 (9/16")	30g	-5140K	83.70
16 (5/8")	40g	-5160K	83.70
17 (11/16")	40g	-5170K	83.70
19 (3/4")	40g	-5190K	83.70
20 (25/32")	50g	-5200K	83.70
21 (13/16")	50g	-5210K	83.70
22 (7/8")	60g	-5220K	83.70
24 (15/16")	70g	-5240K	86.70
25 (1")	80g	-5250K	98.40
27 (1 1/16")	80g	-5270K	98.40
29 (1 1/8")	90g	-5290K	98.40
30 (1 3/16")	100g	-5300K	98.40
32 (1 1/4")	100g	-5320K	98.40
33 (1 5/16")	110g	-5330K	98.40
35 (1 3/8")	120g	-5350K	98.40
37 (1 7/16")	130g	-5370K	98.40
38 (1 1/2")	80g	-5380K	98.40
40 (1 9/16")	90g	-5400K	103.60
41 (1 5/8")	90g	-5410K	109.10
43 (1 11/16")	100g	-5430K	115.20
44 (1 3/4")	110g	-5440K	121.10
46 (1 13/16")	110g	-5460K	121.10
48 (1 7/8")	130g	-5480K	121.10
51 (2")	140g	-5510K	121.10
52 (2 1/16")	150g	-5520K	142.20
54 (2 1/8")	150g	-5540K	145.70
56 (2 3/16")	160g	-5560K	147.10
57 (2 1/4")	170g	-5570K	149.60
59 (2 5/16")	170g	-5590K	149.60
60 (2 3/8")	180g	-5600K	149.60
64 (2 1/2")	200g	-5640K	149.60
65 (2 9/16")	210g	-5650K	153.50
67 (2 5/8")	220g	-5670K	159.80
68 (2 11/16")	225g	-5680K	159.80
70 (2 3/4")	230g	-5700K	162.20
73 (2 7/8")	240g	-5730K	165.80
76 (3")	260g	-5760K	165.80
79 (3 1/8")	280g	-5790K	165.80
83 (3 1/4")	300g	-5830K	190.80
86 (3 3/8")	330g	-5860K	192.60
89 (3 1/2")	340g	-5890K	195.40
92 (3 5/8")	370g	-5920K	211.20
95 (3 3/4")	390g	-5950K	211.20
102 (4")	430g	-6020K	241.10
105 (4 1/8")	460g	-6050K	241.10
108 (4 1/4")	470g	-6080K	255.40
111 (4 3/8")	500g	-6110K	266.40
114 (4 1/2")	540g	-6140K	288.60
121 (4 3/4")	590g	-6210K	299.70
127 (5")	650g	-6270K	321.90
133 (5 1/4")	710g	-6330K	332.80
140 (5 1/2")	770g	-6400K	355.20
152 (6")	900g	-6520K	421.60
168 (6 11/16")	1060g	-6680K	421.60
177 (6 31/32")	1100g	-6770K	435.40

**Carbide Tipped
Holesaws**


Kennedy® carbide tipped hole saws last up to 10 times longer than standard hole saws and resist wear and heat caused by friction much better than traditional holesaws, making them the best choice for cutting tough material such as tile, stainless steel. Use standard arbors.



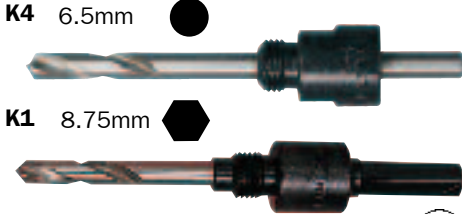
Holesaw Sizes	Use Arbor
14 to 30mm	K1 or K4
32 to 210mm	K2 or K10

Cutting Dia. (mm)	Order Code KEN-050	Price/1 RND
15 (19/32")	-7150K	104.80
16 (5/8")	-7160K	104.80
17 (11/16")	-7170K	104.80
18 (23/32")	-7180K	112.70
19 (3/4")	-7190K	118.60
20 (25/32")	-7200K	118.60
21 (13/16")	-7210K	125.50
22 (7/8")	-7220K	132.10
23 (29/32")	-7230K	125.50
24 (15/16")	-7240K	131.70
25 (1")	-7250K	138.60
26 (1 1/32")	-7260K	148.10
27 (1 1/16")	-7270K	147.00
28 (1 3/32")	-7280K	151.20
29 (1 1/8")	-7290K	159.20
30 (1 3/16")	-7300K	164.40
31 (1 7/32")	-7310K	164.40
32 (1 1/4")	-7320K	178.80
33 (1 5/16")	-7330K	164.40
34 (1 11/32")	-7340K	182.40
35 (1 3/8")	-7350K	199.30
36 (1 13/32")	-7360K	193.30
38 (1 1/2")	-7380K	211.20
40 (1 9/16")	-7400K	211.20
41 (1 5/8")	-7410K	217.20
44 (1 3/4")	-7440K	223.20
45 (1 25/32")	-7450K	214.60
48 (1 7/8")	-7480K	229.10
50 (1 31/32")	-7500K	222.20
51 (2")	-7510K	235.10
54 (2 1/8")	-7540K	242.10
55 (2 5/32")	-7550K	231.30
57 (2 1/4")	-7570K	247.20
60 (2 3/8")	-7600K	259.50
64 (2 1/2")	-7640K	271.30
65 (2 9/16")	-7650K	262.70
67 (2 5/8")	-7670K	289.20
70 (2 3/4")	-7700K	301.70
75 (2 15/16")	-7750K	305.40
76 (3")	-7760K	325.50
80 (3 5/32")	-7800K	345.80
85 (3 11/32")	-7850K	345.80
95 (3 3/4")	-7950K	385.30
100 (3 7/8")	-8000K	398.00
102 (4")	-8002K	416.80
105 (4 1/8")	-8005K	451.60

KENNEDY **Holesaw Arbors**

Precision machined and threaded, guaranteeing a smooth secure fit to all popular brands of holesaws. Made from alloy steel. Suitable for use with all power tools.

For Saw Sizes upto 32mm

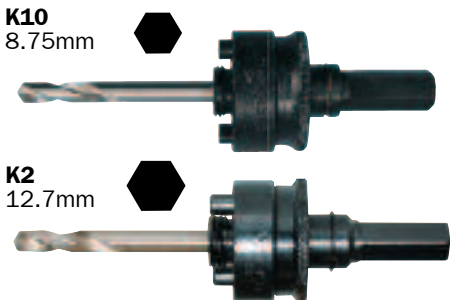


K1-SDS
Pilot supplied separately.



Product Number	For Saw Size	Order Code KEN-050	Price/1 RND
K4	14-30mm	-1750K	86.70
K1	14-30mm	-1600K	154.30
K1-SDS	14-32mm	-1550K	104.10

For Saw Sizes upto 152mm



K10-SDS
Pilot supplied separately.



Product Number	For Saw Size	Order Code KEN-050	Price/1 RND
K10	32-152mm	-1850K	242.70
K2	32-152mm	-1650K	242.50
K10-SDS	33-152mm	-1560K	172.20

Pilot Drills

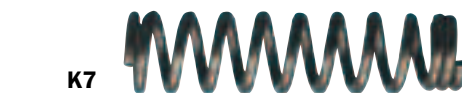
HSS, ground flute. Not suitable for stainless steel.



Product Number	To Suit Arbors	Weight each	Order Code KEN-050	Price/1 RND
K14C	All except K4	20g	-1930K	22.90
K14D	K4 only	30g	-1960K	24.90

Ejector Spring

Manufactured from hardened spring steel. Presses over pilot to give quick release of core piece after cut.



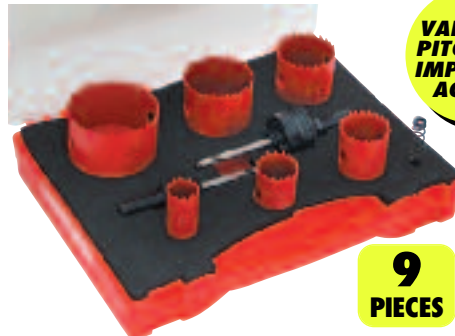
Product Number	To Suit Saw Diameter	Weight each	Order Code KEN-050	Price/1 RND
K7	14 to 210mm	10g	-1970K	21.00

Variable Pitch Bi-Metal HSS Holesaw Kits

For producing high quality holes in wood, steel, brass, bronze, cast iron, aluminium and plastic. Featuring a very aggressive cutting action and M3 HSS cutting teeth to give a very smooth finish. Cuts up to 40% faster than constant pitch saws. The varying tooth pitch gives substantial reductions in noise by disrupting harmonics produced when sawing materials such as tubing, angle etc. Improved swarf clearance is also achieved requiring less effort to complete each cut. Tooth life is greatly extended, as is battery life when used with a cordless drill. Suitable for all uses: engineering, construction and maintenance. **4 to 6 teeth per inch. 28.5mm (1 1/8") cutting depth.**

Service Engineer's Kit 9 Piece

Comprises of 22, 29, 35, 44, 51 and 64mm variable pitch bi-metal high speed steel holesaws with hardened cutting edges, K7 spring, K4 and K10 arbors with pilot drills. Supplied in a robust plastic carry case.



Number of Pieces	Weight each	Order Code KEN-050	Price/1 RND
9	110g	-2400K	1515.90

Tradesman's Compact Kits

High quality variable pitch bi-metal high speed steel holesaws with hardened cutting edges. Supplied in a handy storage tube. Ideal size to fit into power tool cases and tool boxes.

5 Piece: Comprises of 16, 20, 25 and 30mm holesaws with K1 arbor.

11 Piece: Comprises of 16, 19, 20, 22, 25, 30, 32, 38 and 51mm holesaws with K1 and K10 arbors.



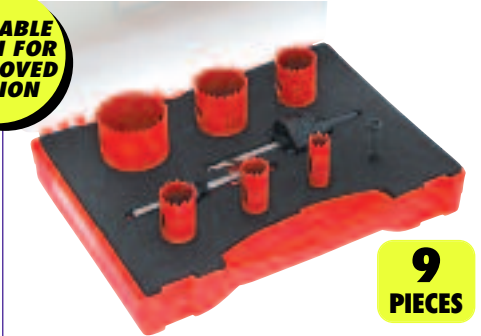
Number of Pieces	Weight each	Order Code KEN-050	Price/1 RND
5	30g	-2100K	343.40
11	160g	-2500K	1286.20



Storage tubes fit into power tool cases and tool boxes

Electrician's Kit 9 Piece

Comprises of 16, 20, 25, 32, 40 and 51mm variable pitch bi-metal high speed steel holesaws with hardened cutting edges, K7 Spring, K1 and K10 arbors with pilot drills. Supplied in a robust plastic carry case.



Number of Pieces	Weight each	Order Code KEN-050	Price/1 RND
9	90g	-2300K	1270.30

Constant Pitch Bi-Metal HSS Holesaw Kit

Featuring a constant pitch - First choice for cutting thin sheet materials up to 3mm thick. For producing high quality holes in wood, steel, brass, bronze, cast iron, aluminium and plastic. Featuring an hardened HSS cutting edge welded to a tough alloy steel body. Heavy duty shatter-resistant construction; virtually unbreakable.

6 teeth per inch. 38mm (1 1/2") cutting depth.

9 Piece Service Engineer's Kit

Comprises of 22, 29, 35, 44, 51 and 64mm constant pitch bi-metal high speed steel holesaws with hardened cutting edges. Complete with K4 and K10 arbors and K7 Spring. Supplied in a robust plastic carry case.



Number of Pieces	Weight each	Order Code KEN-050	Price/1 RND
9	1.20kg	-2000K	1637.10

GROUP 055 MASONRY DRILLS

KENNEDY Rotary Masonry Drill Bits

Tungsten carbide tipped with roll forged flutes. A general purpose mortar and masonry drill bit suitable for workshop and maintenance. Manufactured to DIN 8039.

Standard Length

75.0mm to 120.0mm Length

Diameter	Overall Length	Weight each	Order Code KEN-055	Price/1 RND
No.6 (4.0mm)	75.0	6g	-0060K	9.60
No.8 (5.0mm)	85.0	10g	-0080K	9.20
No.10 (5.5mm)	85.0	14g	-0100K	10.30
No.10A (6.0mm)	100.0	14g	-0110K	10.30
No.12 (6.5mm)	100.0	17g	-0120K	11.00



Medium Length

150.0mm to 160.0mm Length

Diameter	Overall Length	Weight each	Order Code KEN-055	Price/1 RND
No. 8 (5.0mm)	150.0	17g	-1080K	15.60
No.10 (5.5mm)	150.0	22g	-1100K	15.60
No.10A (6.0mm)	150.0	22g	-1110K	15.60
No.12 (6.5mm)	150.0	50g	-1120K	15.30
No.14 (7.0mm)	150.0	25g	-1140K	16.20
No.16 (8.0mm)	150.0	34g	-1160K	16.80
No.18 (9.0mm)	150.0	35g	-1180K	19.40
No.20 (10.0mm)	150.0	50g	-1200K	22.00



Extra Length

300.0mm Length

Diameter	Overall Length	Weight each	Order Code KEN-055	Price/1 RND
No.12 (6.5mm)	300.0	58g	-3120K	39.00
No.14 (7.0mm)	300.0	58g	-3140K	39.00
No.16 (8.0mm)	300.0	91g	-3160K	39.90
No.18 (9.0mm)	300.0	96g	-3180K	40.10
No.20 (10.0mm)	300.0	98g	-3200K	47.70
No.22 (11.0mm)	300.0	130g	-3220K	51.20
No.24 (13.0mm)	300.0	164g	-3240K	57.60

Rotary Masonry Drill Bit Sets

7 Piece - Standard Length

Standard Length: No.6 x 75, No.8 x 85, No.10 x 85, No.10A x 100, No.12 x 100, No.16 x 120, No.20 x 120mm.

7 Piece - Standard & Medium Length

Standard Length:

No.10 x 85,

No.12 x 100,

No.14 x 100,

No.16 x 120,

No.20 x 120.

Medium Length:

No.24 x 150,

No.26 x 150mm.

16 Piece - Standard & Medium Length

Standard Length:

No.6 x 75,

No.8 x 85,

No.10 x 85,

No.10A x 100,

No.14 x 100,

No.16 x 120,

No.18 x 120,

No.20 x 120.

Medium Length:

No.8 x 150,

No.10 x 150,

No.10A x 150,

No.14 x 150,

No.16 x 150,

No.18 x 150,

No.20 x 150,

No.24 x 150mm.

Number of Pieces	Weight each	Order Code KEN-055	Price/1 RND
7 - Standard	140g	-5070K	102.80
7 - Standard & Medium	400g	-5170K	179.90
16 - Standard & Medium	460g	-5320K	276.00



7
PIECES

7
PIECES

16
PIECES



CUTTING TOOLS

400.0mm Length

Diameter	Overall Length	Weight each	Order Code KEN-055	Price/1 RND
No.16 (8.0mm)	400.0	124g	-4160K	42.20
No.18 (9.0mm)	400.0	125g	-4180K	44.10
No.20 (10.0mm)	400.0	130g	-4200K	55.70
No.22 (11.0mm)	400.0	174g	-4220K	62.40
No.24 (13.0mm)	400.0	219g	-4240K	69.60

KOBE Tile & Masonry Drill Sets

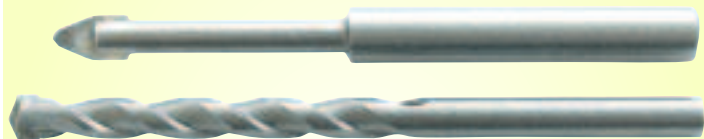
2 Piece Sets

Two piece sets for drilling through glass, tiles, mirrors and ceramics.

Set contents:

1x masonry drill bit and 1x tile and glass drill bit.

2
PIECES



Diameter	Order Code KBE-280	Price/1 RND
5.00mm	-7500K	131.40
6.00mm	-7510K	145.20
6.50mm	-7520K	153.40
7.00mm	-7530K	161.50
8.00mm	-7540K	187.60

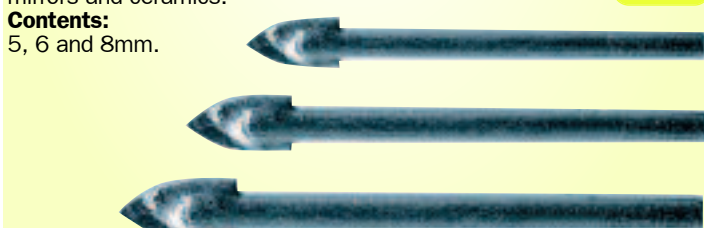
Tile & Glass Drill Set

Three piece drill bit set for drilling through glass, tiles, mirrors and ceramics.

Contents:

5, 6 and 8mm.

3
PIECES



Number of Pieces	Order Code KBE-280	Price/1 RND
3	-7560K	82.30



SDS-Style Fitting Hammer Drill Bits

Tungsten carbide tipped and suitable for all SDS direct fitting hammer drills. High performance drill bits that withstand extreme heat generation ensuring maximum performance coupled with wear resistance. Manufactured to **DIN 8035**.



Diameter	Overall Length	Weight each	Order Code KEN-057	Price/1 RND
5.0mm	110.0	50g	-1000K	39.90
5.0mm	160.0	50g	-1020K	42.10
5.5mm	110.0	50g	-1200K	42.10
5.5mm	160.0	50g	-1220K	42.10
6.0mm	110.0	50g	-1400K	42.10
6.0mm	160.0	50g	-1420K	43.50
6.0mm	210.0	60g	-1440K	43.50
6.5mm	110.0	50g	-1600K	42.50
6.5mm	160.0	50g	-1620K	43.70
7.0mm	110.0	60g	-1800K	42.90
7.0mm	160.0	70g	-1820K	43.50
8.0mm	110.0	80g	-2000K	51.00
8.0mm	160.0	80g	-2020K	52.60
8.0mm	210.0	90g	-2040K	67.80
8.0mm	260.0	110g	-2080K	67.00
8.0mm	400.0	180g	-2120K	88.50
9.0mm	210.0	100g	-2240K	54.40
10.0mm	110.0	70g	-2400K	54.40
10.0mm	160.0	90g	-2420K	54.40
10.0mm	210.0	110g	-2440K	66.50
10.0mm	260.0	150g	-2480K	74.50
10.0mm	360.0	180g	-2520K	109.20
10.0mm	460.0	280g	-2540K	139.30
11.0mm	160.0	110g	-2620K	58.80
11.0mm	300.0	130g	-2680K	62.70
12.0mm	166.0	100g	-2820K	61.20
12.0mm	216.0	130g	-2840K	68.40
12.0mm	316.0	170g	-2900K	78.70
12.0mm	466.0	240g	-2940K	144.10
12.0mm	600.0	350g	-2980K	240.50
13.0mm	166.0	110g	-3020K	89.30

Diameter	Overall Length	Weight each	Order Code KEN-057	Price/1 RND
13.0mm	210.0	100g	-3040K	53.00
13.0mm	466.0	300g	-3140K	152.00
14.0mm	166.0	155g	-3220K	98.10
14.0mm	216.0	170g	-3240K	94.40
14.0mm	266.0	180g	-3280K	115.00
14.0mm	316.0	200g	-3300K	121.90
14.0mm	466.0	300g	-3340K	194.70
14.0mm	600.0	410g	-3380K	267.50
15.0mm	166.0	200g	-3420K	110.50
15.0mm	266.0	200g	-3480K	116.60
15.0mm	450.0	250g	-3540K	77.20
16.0mm	250.0	150g	-3640K	116.00
16.0mm	300.0	200g	-3700K	166.70
16.0mm	450.0	350g	-3740K	190.90
16.0mm	600.0	450g	-3760K	290.10
17.0mm	200.0	160g	-3840K	205.20
18.0mm	250.0	240g	-4040K	212.10
18.0mm	450.0	400g	-4140K	285.40
19.0mm	200.0	200g	-4240K	109.20
20.0mm	200.0	200g	-4440K	224.70
20.0mm	300.0	300g	-4500K	283.20
20.0mm	450.0	480g	-4540K	327.50
22.0mm	250.0	350g	-4680K	320.20
22.0mm	450.0	720g	-4740K	396.10
24.0mm	250.0	390g	-4880K	352.90
24.0mm	450.0	770g	-4940K	423.50
25.0mm	250.0	430g	-5080K	382.90
25.0mm	450.0	770g	-5140K	412.50
26.0mm	250.0	430g	-5280K	388.70
26.0mm	450.0	850g	-5340K	470.40

SDS-Style Fitting Drill Bit Sets

Tungsten carbide tipped and suitable for all SDS direct fitting hammer drills. High performance drill bits that withstand extreme heat generation ensuring maximum performance coupled with wear resistance. Manufactured to **DIN 8035**

7 Piece

5, 6 and 8mm x 110mm overall length.
6, 8, 10 and 12mm x 160mm overall length.

9 Piece

5, 5.5, 6 and 7mm x 160mm overall length.
8 x 210mm, 8 x 260mm, 12 x 216mm,
12 x 316mm and 16 x 250mm overall length.



**9
PIECES**

Number of Pieces	Order Code KEN-057	Price/1 RND
7	-7000K	234.70
9	-7020K	345.90

KOBE Diamond Core Drill Kit

Diamond laser welded core drills are a dry cutting, high performance diamond Core Drill. For use with arbor and guide rod (hex shank or SDS Plus) plus extension, if required. Manufactured from tool grade steel for perfect concentricity. Can be used across a wide range of building materials such as: facing bricks, concrete blocks, breeze blocks, building blocks, hand made bricks and soft to medium hard natural stones. Mounting thread is R¹/₂". Best results are achieved using an 850 watt (or higher) rotary drill with up to 300rpm, variable speed control and a slipping clutch for overload protection.



**12
PIECES**

No. of Pieces	Core Drill Sizes (mm)	Order Code KBE-280	Offer Price/1
12	42, 52, 65, 117, 127	-0300K	2080.50

Individual Diamond Core Drills

Effective Length (mm)	Cutting Dia. (mm)	Order Code KBE-280	Offer Price/1
150	42	-0310K	371.20
	52	-0312K	419.70
	65	-0314K	452.00
	117	-0316K	565.00
	127	-0318K	645.80



**HSS Threaded Shank
Woodruff Cutters**

HSS

12mm/1/2" Shank Ø

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

For milling structural, carburizing 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"



**EXTENDED
RANGE**

Metric Sizes

Diameter (mm)	Width	Overall Length	Weight each	Order Code SHR-061	Price/1 RND
10.5	2.0	57.0	44g	-6500A	386.30
10.5	3.0	57.0	44g	-6502C	386.30
11.0	3.5	54.0	11g	-6502J	386.30
13.5	2.5	57.0	44g	-6504E	400.00
13.5	3.0	57.0	45g	-6505F	400.00
13.5	4.0	57.0	45g	-6506G	400.00
16.5	3.0	57.0	46g	-6508J	437.30
16.5	4.0	57.0	46g	-6509K	437.30
16.5	5.0	57.0	46g	-6510L	437.30
19.5	3.0	57.0	46g	-6511M	518.50
19.5	4.0	57.0	46g	-6512N	518.50
19.5	5.0	57.0	50g	-6513P	518.50
19.5	6.0	57.0	51g	-6514C	624.00
22.5	4.0	63.5	55g	-6514Q	624.00
22.5	5.0	63.5	57g	-6515R	624.00
22.5	6.0	63.5	59g	-6516S	890.00
25.5	6.0	70.0	67g	-6518V	890.00
25.5	8.0	70.0	73g	-6520X	890.00
32.5	6.0	70.0	81g	-6527D	890.00

HSS Plain Shank Woodruff Cutters

12mm/1/2" Shank Ø

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

Manufactured to **BS 122 : Part 4 : 1980**. Made to **DIN 850**.



HSS

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	Overall Length	Weight each	Order Code SHR-061	Price/1 RND
10.5	2.0	57.0	44g	-4500A	386.00
10.5	3.0	57.0	44g	-4502C	386.00
11.0	3.5	57.0	44g	-4503D	386.00
13.5	2.5	57.0	44g	-4504E	400.90
13.5	3.0	57.0	45g	-4505F	400.90
13.5	4.0	57.0	45g	-4506G	400.90
16.5	3.0	57.0	46g	-4508J	437.30
16.5	4.0	57.0	46g	-4509K	437.30
16.5	5.0	57.0	46g	-4510L	437.30
19.5	3.0	57.0	46g	-4511M	516.30
19.5	4.0	57.0	46g	-4512N	516.30
19.5	5.0	57.0	50g	-4513P	516.30
19.5	6.0	57.0	51g	-4514C	516.30
22.5	4.0	63.5	55g	-4514Q	624.60
22.5	5.0	63.5	55g	-4515R	624.60
22.5	6.0	63.5	59g	-4516S	624.60
25.5	6.0	70.0	67g	-4518V	624.60
25.5	8.0	70.0	73g	-4520X	624.60
28.5	8.0	70.0	80g	-4522Z	890.90
32.5	6.0	70.0	81g	-4527D	1036.00
38.5	7.0	70.5	85g	-4528E	1296.00
38.5	9.0	70.5	85g	-4530G	1350.00

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	Diameter Cutter	Diameter Shank	Diameter Neck	Overall Length	Weight each	Order Code SHR-061	Price/1 RND
M6.0	6.0	12.5	10.0	5.0	57.0	36g	-6550A	442.10
M8.0	8.0	16.0	10.0	6.5	62.0	41g	-6551B	561.90
M10.0	8.0	18.0	12.0	8.0	65.0	50g	-6552C	660.60
M12.0	10.0	22.0	12.0	10.0	74.0	52g	-6553D	774.00
M14.0	11.0	25.0	16.0	12.0	82.0	84g	-6554E	870.90
M16.0	12.0	28.0	16.0	13.0	85.0	159g	-6555F	993.10
M18.0	14.0	32.0	25.0	15.0	90.0	347g	-6556G	1766.20
M20.0	16.0	36.0	25.0	17.0	103.0	298g	-6557H	1940.20

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	Diameter Cutter	Diameter Shank	Diameter Neck	Overall Length	Weight each	Order Code SHR-061	Price/1 RND
M6.0	6.0	12.5	10.0	5.0	57.0	36g	-4550A	944.40
M8.0	8.0	16.0	10.0	6.5	62.0	41g	-4551B	1215.20
M10.0	8.0	18.0	12.0	8.0	65.0	50g	-4552C	1402.20
M12.0	10.0	22.0	12.0	10.0	74.0	52g	-4553D	1630.80
M14.0	11.0	25.0	16.0	12.0	82.0	84g	-4554E	1889.20
M16.0	12.0	28.0	16.0	13.0	85.0	159g	-4555F	2115.20
M18.0	14.0	32.0	25.0	15.0	90.0	347g	-4556G	2551.10
M20.0	16.0	36.0	25.0	17.0	103.0	298g	-4557H	4068.80
M24.0	20.0	45.0	25.0	21.0	122.0		-4558J	4167.80



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**.



HSS

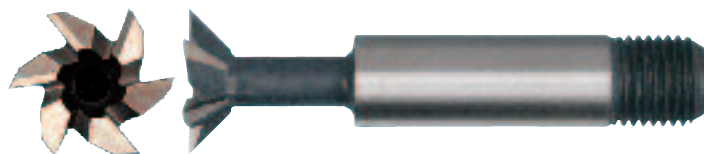
Metric Limits of Tolerance

+0.25 - 0.00

Inch Limits of Tolerance

+0.010 - 0.000

45° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 RND
13.0	3.0	12.0	63.5	6	-6200A	547.60
16.0	4.0	12.0	66.5	6	-6201B	643.80
19.0	5.5	12.0	66.5	6	-6202C	718.00
25.0	7.5	12.0	70.0	8	-6204E	1017.40
32.0	8.5	16.0	74.5	8	-6206G	1356.60

60° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 RND
13.0	4.0	12.0	63.5	6	-6150A	524.70
16.0	5.5	12.0	66.5	6	-6151B	616.80
19.0	7.0	12.0	66.5	6	-6152C	688.00
20.0	8.0	12.0	63.0	6	-6152P	1019.20
25.0	12.0	12.0	70.0	8	-6154E	975.10
32.0	13.5	16.0	74.5	8	-6156G	1496.30

HSS Threaded Shank Corner Rounding Cutters

HSS

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 Plain Shank Corner Rounding Cutters

HSS

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: $\pm 0.005"$.



Metric Sizes

Radius (mm)	Head Dia.	Shank Dia.	Overall Length	Number of Teeth	Weight each	Order Code SHR-061	Price/1 RND
2.0	12.0	12.0	60.5	4	50g	-6408Z	334.10
3.0	12.0	12.0	60.5	4	50g	-6410A	451.70
4.0	14.0	12.0	60.5	4	54g	-6411B	622.20
5.0	16.0	16.0	60.5	4	86g	-6412C	536.70
6.0	22.0	16.0	63.5	4	109g	-6413D	758.40
8.0	25.0	25.0	73.0	4	250g	-6414E	945.80
10.0	28.0	25.0	79.5	4	272g	-6415F	1210.70
12.0	35.0	25.0	82.5	4	325g	-6416G	1789.50

Metric Sizes

Radius (mm)	Head Dia.	Shank Dia.	Overall Length	Number of Teeth	Weight each	Order Code SHR-061	Price/1 RND
2.0	12.0	12.0	60.5	4	50g	-4408Z	669.00
3.0	12.0	12.0	60.5	4	50g	-4410A	905.40
4.0	14.0	12.0	60.5	4	54g	-4411B	1246.80
5.0	16.0	16.0	60.5	4	86g	-4412C	1075.70
6.0	22.0	16.0	63.5	4	109g	-4413D	1519.80
8.0	25.0	25.0	73.0	4	250g	-4414E	1905.30
10.0	28.0	25.0	79.5	4	272g	-4415F	2438.10
12.0	35.0	25.0	82.5	4	325g	-4416G	3600.70

HSS Plain Shank Dovetail Cutters (Single Angle Cutters)

Designed to produce dovetail slideways in machine tool tables, jigs and fixtures.

Bright finish, straight helix.

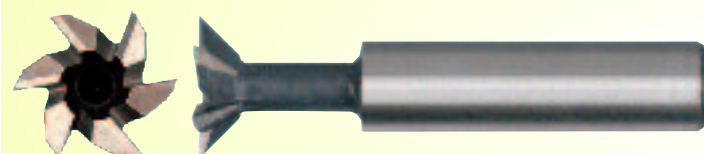
Made to **DIN 1833**.

Ø Tolerances

Metric	Inch
+0.25 - 0.00	+0.010 - 0.000

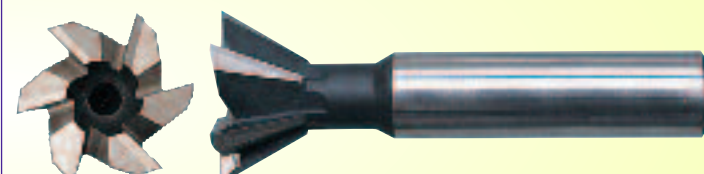
HSS

45° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 RND
13.0	3.0	12.0	63.5	6	-4200A	1055.20
16.0	4.0	12.0	66.5	6	-4201B	1234.60
19.0	5.5	12.0	66.5	6	-4202C	1381.20
20.0	5.5	12.0	62.0	6	-4202P	1474.00
25.0	7.5	12.0	70.0	8	-4204E	1969.90
32.0	8.5	16.0	74.5	8	-4206G	2615.70

60° Corner Angle - Metric (Form C)



Diameter (mm)	Cut Length	Shank Dia.	Overall Length	Number of Teeth	Order Code SHR-061	Price/1 RND
13.0	4.0	12.0	63.5	6	-4150A	1003.70
16.0	5.5	12.0	66.5	6	-4151B	1228.80
19.0	7.0	12.0	66.5	6	-4152C	1381.20
20.0	8.0	12.0	63.0	6	-4152P	1472.20
25.0	12.0	12.0	70.0	8	-4154E	1969.90
32.0	13.5	16.0	74.5	8	-4156G	2615.70

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR