



PRO TOOLS

HERRAMIENTAS Y TECNOLOGIA INDUSTRIAL

METAL WORKING



WOOD WORKING



CONSTRUCTION TOOLS



THE PERFECT TOOL DO FOR YOU

2024
Edition



Cutting Tools

Since 1980

- Industrious
- Innovative
- Practical
- Perfect

www.protoolsindustrial.com

STEP DRILLS

Produce good quality holes in a wide variety of material, using either a bench drill or light pedestal drilling machine.



92000

2 flutes



92001

2 flutes



92002

3 flutes



92003

3 flutes



92004

3 flutes



92005

4 flutes



92006

2 flutes with stop

For use in

- For drilling large holes in thin material and reborring existing holes
- Steel sheet and stainless steel from 0.1 to 5mm thick

Execution

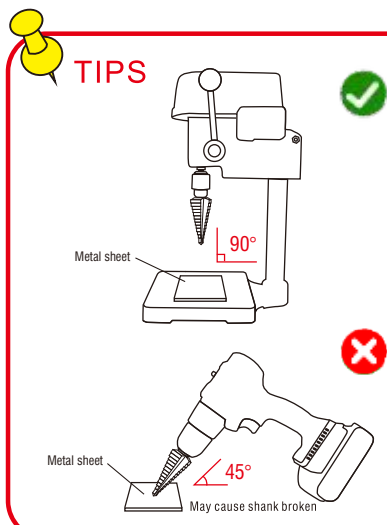
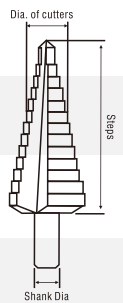
- Right-hand cutting
- High-performance high-speed steel
- Laser engraved numbers increases step visibility

Material

H.S.S.	Grade	Chemical Composition(%)	Hardness
H.S.S.	4241	W: 1.50-2.50, Mo: 0.60-1.20, Cr: 3.80-4.40, V: 0.50-0.70	60-61.5HRC
	4341	W: 3.50-4.50, Mo: 2.50-3.50, Cr: 3.80-4.40, V: 1.20-1.80	61-63HRC
	9341	W: 8.50-9.50, Mo: 2.70-3.30, Cr: 3.80-4.40, V: 1.30-1.70	63-66HRC
	6542(M2)	W: 5.50-6.75, Mo: 4.50-5.50, Cr: 3.30-4.40, V: 1.75-2.20	63-66HRC
H.S.S. Co5	M35	W: 6.00-6.70, Mo: 4.70-5.20, Cr: 3.80-4.50, V: 1.70-2.00 Co: 4.50-5.50	66-68HRC

Size table

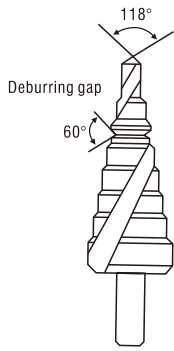
Size (mm)	Steps	Shank Dia. (mm)	Dia. of cutters (mm)
3-12	10	6	3,4,5,6,7,8,9,10,11,12
3-13	11	6	3,4,5,6,7,8,9,10,11,12,13
3-14	12	6	3,4,5,6,7,8,9,10,11,12,13,14
4-12	5	6	4,6,8,10,12
4-12	9	6	4,5,6,7,8,9,10,11,12
4-20	9	8	4,6,8,10,12,14,16,18,20
4-22	10	8	4,6,8,10,12,14,16,18,20,22
4-24	11	8	4,6,8,10,12,14,16,18,20,22,24
4-30	14	10	4,6,8,10,12,14,16,18,20,22,24,26,28,30
4-32	15	10	4,6,8,10,12,14,16,18,20,22,24,26,28,30,32
4-39	13	10	4,6,9,12,15,18,21,24,27,30,33,36,39
4-39	14	10	4,6,8,10,12,15,18,21,24,27,30,33,36,39
4-40	19	12	4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40
4-42	11	10	4,6,10,14,18,22,26,30,34,38,42
4-47	14	12	4,7,10,13,16,20,23,26,30,33,36,40,43,47
5-28	7	10	5,8,12,16,20,24,28
5-35	13	10	5,7,5,10,13,16,19,21,23,26,29,31,33,35
5-38	14	10	5,7,5,10,13,16,19,21,23,26,29,31,33,35,38
5-65	13	12	5,10,15,20,25,30,35,40,45,50,55,60,65
6-18	7	8	6,8,10,12,14,16,18
6-20	8	8	6,8,10,12,14,16,18,20
6-24	10	8	6,8,10,12,14,16,18,20,22,24
6-25	10	8	6,8,10,12,14,16,18,20,22,24,25
6-25	7	8	6,9,12,16,20,22,25,25
6-30	13	10	6,8,10,12,14,16,18,20,22,24,26,28,30
6-30.5	10	10	6,9,12,7,15,2,18,6,20,4,22,5,25,5,28,3,30,5
6-32	8	10	6,10,14,18,22,26,29,32
6-32	9	10	6,9,12,16,20,22,25,25,28,5,32
6-35	13	10	6,8,10,13,16,18,20,22,25,28,30,32,35
6-36	11	10	6,9,12,15,18,21,24,27,30,33,36
6-37	12	10	6,9,12,15,18,21,23,26,29,32,35,37
6-37	12	10	6,9,12,5,15,2,18,6,20,4,22,5,26,28,3,30,5,34,37
6-38	12	10	6,9,13,16,19,21,23,26,29,32,35,37
6-40	12	12	6,11,17,23,29,30,31,32,33,34,35,36,37,38,39,40
6-42	13	12	6,9,12,15,18,21,24,27,30,33,36,39,42
6-60	12	13	6,10,15,20,25,30,35,40,45,50,55,60
7-40.5	13	12	7,10,5,12,5,14,5,16,5,18,5,20,5,23,5,26,5,30,5,32,5,38,5
8-38	11	10	8,13,16,19,21,23,26,29,32,35,38
9-36	10	10	9,12,15,18,21,24,27,30,33,36
10-20	11	8	10,11,12,13,14,15,16,17,18,19,20
10-45	8	12	10,15,20,25,30,35,40,45
12-20	9	8	12,13,14,15,16,17,18,19,20
13-38	10	10	13,16,19,21,23,26,29,32,35,38
14-24	6	8	14,16,18,20,22,24
14-25	7	8	14,16,18,20,22,24,25
20-30	11	10	20,21,22,23,24,25,26,27,28,29,30
20-34	8	10	20,22,24,26,28,30,32,34
30-40	11	12	30,31,32,33,34,35,36,37,38,39,40
40-50	11	12	40,41,42,43,44,45,46,47,48,49,50
50-60	11	12	50,51,52,53,54,55,56,57,58,59,60



Size (mm)	Rotate speed (r/s)	Size (mm)	Rotate speed (r/s)
3	3200	22	500
4	2800	23	500
5	2200	24	450
6	1800	25	400
7	1600	26	400
8	1400	27	350
9	1200	28	300
10	1100	29	250
11	1000	30	200
12	900	31	180
13	850	32	180
14	800	33	180
15	750	34	180
16	700	35	180
17	600	36	150
18	600	37	150
19	550	38	150
20	550	39	150
21	500	40	150

2 METAL WORKING

STEP DRILLS



92007



Size	Dia. of cutters (mm)
4-12	4, 5, 6, 7, 8, 9, 10, 11, 12
4-20	4, 6, 8, 10, 12, 14, 16, 18, 20
4-30	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30
5-32.5	5, 7.5, 9.7, 12.7, 15.2, 16.2, 18.6, 20.4, 22.5, 25.4, 28.3, 30.5, 32.5
6-38	6, 9, 13, 16, 19, 21, 23, 26, 29, 32, 35, 38

STEP DRILLS

- ▶ Exchangeable tip
- ▶ Size: 6-26mm, 6-32mm



92008

STEP DRILLS

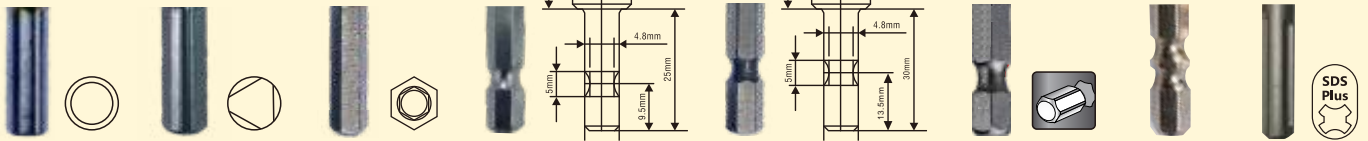
- ▶ Exchangeable shank
- ▶ Size: 4-26mm, 4-32mm, 4-38mm, 4-42mm



92009

92010

Types of shank



I

Round shank

II

3-Sided shank

III

1/4" Hex shank
One-piece

IV

1/4" Hex shank
6.35x25mm

V

1/4" Hex shank
6.35x30mm

VI

3/8" Hex shank
9.5mm

VII

Hex shank
Rgap

VIII

SDS plus shank

Types of finish



I

Bright surface

II

Nitrided coating

III

Nitrided coating

IV

TiN coating

V

Amber and black

VI

Cobalt coating

VII

Blue coating

VIII

Aluminum oxynitride

Package



I

II

III

IV

Plastic tube

V

VI

VII

Slide card

VIII

Blister card

IX

Double blister card

X

Plastic box

STEP DRILL SETS



92011
4-30mm, 4-12mm



92012
4-32mm x2PC



92013
4-12mm x3PC



92014
4-20mm x3PC



92015
4-12 x5step, 4-12 x9step, 4-20mm



92016
Straight flute



92017
Spiral flute

3PC STEP DRILL SETS

4-30mm, 4-20mm, 4-12mm



92018
TiN coating



92019
Cobalt coating



92020
Cobalt coating

3PC STEP DRILL SETS

4-30mm, 4-22mm, 4-12mm



92021
TiN coating



92022
Cobalt coating



92023
Nitrided coating

3PC STEP DRILL SETS

4-32mm, 4-20mm, 4-12mm



92024
Straight flute



92025
Spiral flute



92026
Straight flute



92027
Spiral flute



92028
TiN coating



92029
TiN coating

3PC STEP DRILL SETS

4-32mm, 4-20mm, 4-12mm



92030
TiN coating



92031
Bright surface



92032
Bright surface



92033
Straight flute



92034
Spiral flute



92035
Straight flute



92036
TiN coating

4 METAL WORKING

3PC STEP DRILL SETS

6-30mm, 4-20mm, 4-12mm



92037

TiN coating



92038

Bright surface



92039

TiN coating



92040

Bright surface



92041

Nitrided coating



92042

Cobalt coating

4PC STEP DRILL SET



4-32mm
4-20mm
4-12mm
3-12mm

92043

TiN coating

4PC STEP DRILL SETS



92044

Wooden case



92045

TiN coating

5PC STEP DRILL SET



4-39mm
4-32mm
4-20mm
4-12mm
3-12mm

92046

TiN coating

5PC STEP DRILL SETS

6-35mm, 4-22mm, 6-18mm, 4-12mm(5), 4-12mm(9)



92047



92048

Hex shank

5PC STEP DRILL SETS



92049



- ▶ TiN coating
- ▶ Tri-flat shank for sure grip
- ▶ Storage in aluminum carry case

Size:

4-32mm
4-22mm
6-18mm
4-12mm(9)
4-12mm(5)

3PC STEP DRILL SET

Deburring gap



Size:
6-30mm
4-20mm
4-12mm

92050

3PC STEP DRILL SET

20-30mm, 12-20mm, 4-12mm



92051

4PC COMBINATION STEP DRILL SET



Excl.

- ▶ Step drill: 4-32mm, 4-20mm, 4-12mm
- ▶ Flexible LED light

92052

5PC STEP DRILL AND COUNTERSINK SET

- Metric
- ▶ 5 Flute countersinks: 6.3, 8.3, 10.4mm
- ▶ Step drill: 4-12mm x5 steps, 4-12mm x9 steps
- Inch
- ▶ 5 Flute countersinks: 3/8", 1/2", 3/4"
- ▶ Step drill: 3/16"-1/2" and 3/16"-7/8"



92053

5PC COMBINED DRILL SET



- ▶ Countersink: 16.5mm
- ▶ Tap: M8 x1.25mm
- ▶ Twist drill: 6mm
- ▶ Step drill: 4-12mm
- ▶ Connection rod: 6.35 x80mm

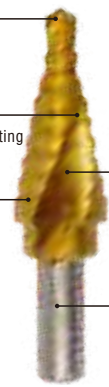
92054

STEP DRILLS, IMPERIAL SIZE

X-type Openings:
remove cutting waste and
reduce slippage

Spiral Groove:
High quality chip, better
positioning, more smooth cutting

Titanium Coating:
increase oxidation resistance
and durability

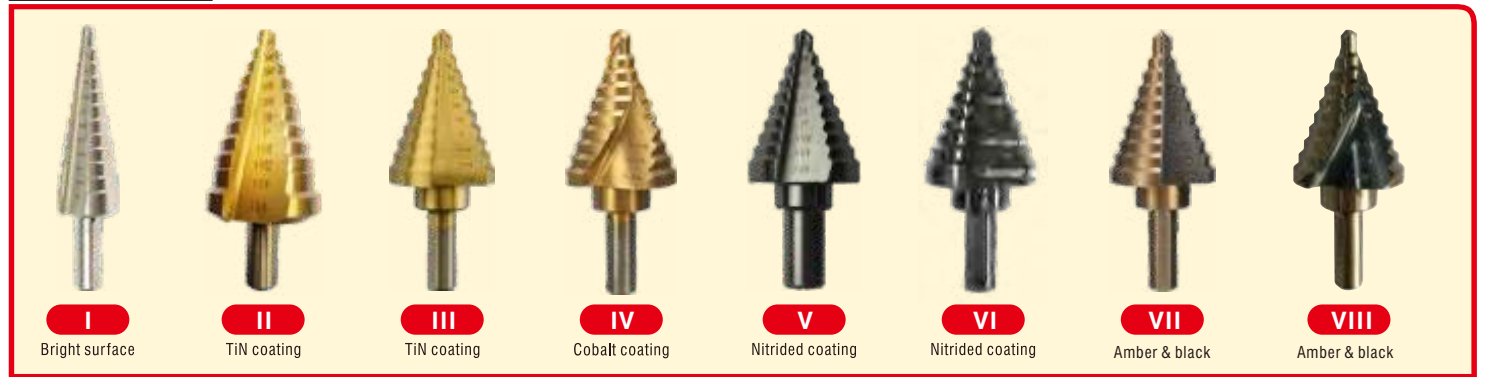


Fiber Marking Machine:
clear handwriting

Universal shank
handy

Size	Steps	Shank Dia.	Dia. of steps
1/8"-3/8"	5	1/4"	1/8", 3/16", 1/4", 5/16", 3/8"
1/8"-1/2"	13	1/4"	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"
3/16"-1/2"	6	1/4"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"
3/16"-1/2"	6	1/4"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"
3/16"-9/16"	7	1/4"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16"
3/16"-3/4"	10	3/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 11/16", 3/4"
3/16"-7/8"	12	3/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"
1/4"-3/4"	9	3/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
1/4"-7/8"	11	3/8"	1/4", 5/16", 3/8", 27/64", 31/64", 9/16", 39/64", 43/64", 23/32", 25/32", 7/8"
1/4"-1.1/4"	17	3/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4"
1/4"-1.3/8"	10	3/8"	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1.1/8", 1.1/4", 1.3/8"
1/4"-1.1/2"	10	3/8"	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1.1/8", 1.1/4", 1.3/8", 1.1/2"
5/16"-7/8"	10	3/8"	5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"
7/16"-1.1/8"	12	3/8"	7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8"
9/16"-1"	8	3/8"	9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"
7/8"-1.1/8"	2	3/8"	7/8", 1.1/8"

Types of finish



3PC STEP DRILL SETS

1/8" - 1/2",
1/4" - 3/4",
3/16" - 1/2"



92055

Cobalt coating



92056

Aluminium case

3PC STEP DRILL SET

1/8"-1/2"
3/16"-3/4"
1/4"-1.1/4"



92057

4PC STEP DRILL SETS

3/16"-1/2"
1/8"-1/2"
3/16"-7/8"
1/4"-1.3/8"



92058

4PC STEP DRILL SET WITH A CENTER PUNCH

3/16"-1/2"
1/8"-1/2"
3/16"-7/8"
1/4"-1.3/8"



92059

5PC STEP DRILL SET WITH A CENTER PUNCH

3/16"-1/2"
1/8"-1/2"
1/4"-3/4"
3/16"-7/8"
1/4"-1.3/8"



92060

5PC STEP DRILL SETS

3/16"-1/2"
1/8"-1/2"
1/4"-3/4"
3/16"-7/8"
1/4"-1.3/8"



92061

Black & Amber color



92062

TiN coating



92063



92064

Hex shank

9PC STEP DRILL SETS

7/16"-1.1/8"
1/4"-1.3/8"
1/8"-7/8"
1/4"-3/4"
1/8"-1/2"
3/16"-1/2"
1/4"-3/4"
9/16"-1"
13/16"-1.3/8"



92065

3-sided shank



92066

Hex shank

6 METAL WORKING

6PC ASSORTED DRILL SET



Excl.

- ▶ 2PC step drills: 5-8.5mm, 4-20mm
- ▶ 3PC HSS taps: M6 x1.0, M8 x1.25, M10 x1.5
- ▶ 1PC countersink: 16.5mm

92067

13PC DRILL&CHAMFER SET



- ▶ 6PC 1/4" hex shank twist drills: 3, 4, 5, 6, 7, 8mm
- ▶ 6PC countersinks: 6.3, 8.3, 10.4, 12.4, 16.5, 20.5mm
- ▶ 1PC hex to SDS-plus connection rod

92068

17PC METAL-WORKING SET



- ▶ Step drill: 4-20mm
- ▶ 13PC twist drill sets: 1.5-6.5mm
- ▶ Countersinks: 10.4, 12.4, 16.5mm

92069

15PC STEP DRILL & HINGE DRILL BITS SET



- ▶ 1PC step drill: 4-20mm
- ▶ 10PC double head screw bits: ph2 x10
- ▶ 3PC hinge wood drills: 5/64", 7/64", 11/64"
- ▶ 1PC 105° angle driver

92070

4PC COMBINATION STEP DRILL SET

- ▶ 1PC step drill: 4-20mm
- ▶ 1PC 5" center punch
- ▶ 1PC countersink: 3 flute, 16.5mm
- ▶ 1PC external deburring chamfer: 8-22mm



92071

37PC STEP DRILL SET

New



- ▶ 2PC step drills: 4-12, 4-20mm
- ▶ 6PC hex shank drills: 3, 3.2, 3.5, 4, 5, 6mm
- ▶ 1PC countersink: 3 flute, 16.5mm,
- ▶ Adaptor
- ▶ 27PC screw bits

92072

STEP DRILL AND CENTER PUNCH SETS



New

- ▶ 3PC step drills: 4-12mm, 4-20mm, 4-32mm
- ▶ 1PC 5" center Punch

4PC

92073



- ▶ 5PC step drills: 3/16"-1/2" x1/16"(6), 1/8"-1/2" x1/32"(13), 1/4"-3/4" x1/16"(9), 3/16"-7/8" x1/16"(12), 1/4"-1.3/8" x1/8"(10)
- ▶ 1PC 5" center Punch

6PC

92074

STEP DRILL AND SAW DRILL SET



- ▶ 3PC step drills: 4-12mm, 4-20mm, 4-32mm
- ▶ 3PC saw drills: 3, 6, 8mm

6PC

92075

COMBINATION DRILL AND BIT SETS

- ▶ 2PC step drills: 4-12, 4-20mm
- ▶ 1PC countersink: 3 Flute, 16.5mm,
- ▶ 6PC hex shank drills: 3, 3.2, 3.5, 4, 5, 6mm
- ▶ 8PC screw bits
- ▶ Adapter



18PC

92076

- ▶ 2PC step drills: 4-12, 4-20mm
- ▶ 1PC countersink: 3 Flute, 16.5mm
- ▶ 4PC hex shank drills: 3, 3.5, 4, 5mm
- ▶ 2PC cutting drills: 6, 7mm
- ▶ 8PC screw bits
- ▶ Adapter



18PC

92077

- ▶ 2PC step drills: 4-12, 4-20mm
- ▶ 1PC countersink: 3 Flute, 16.5mm
- ▶ 5PC 3 IN 1 combined tap drills: M3, M4, M5, M6, M8
- ▶ 16PC screw bits
- ▶ Adapter

New

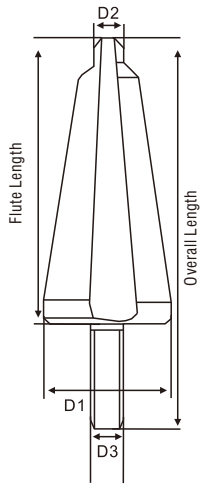


25PC

92078

H.S.S. TAPER SHEET & TUBE DRILLS

- ▶ 118° pointed angle.
- ▶ Absolute smooth operation.
- ▶ Use in industrial power tools for the rapid drilling holes in thin materials including sheet steel up to 2mm thick, alloys steel and plastic.



92079
Bright surface

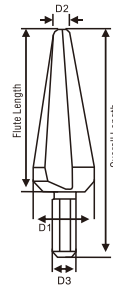


92080
Nitride coating

Dia.(mm)	D1.(mm)	D2.(mm)	D3.(mm)	Overall Length	Flute Length
3.0-14.0	14.0	3.0	6.0	58.0	58.0
4.0-30.0	30.0	4.0	9.0	83.0	83.0
5.0-20.0	20.0	5.0	8.0	51.0	51.0
5.0-22.0	22.5	5.0	8.0	59.0	59.0
5.0-25.4	25.4	5.0	10.0	67.0	67.0
16.0-30.5	30.5	16.0	9.0	54.0	54.0
24.0-40.0	40.0	24.0	10.0	65.0	65.0
36.0-50.0	50.0	36.0	12.0	71.0	71.0
40.0-61.0	61.0	40.0	13.0	73.0	73.0

H.S.S. CONICAL DRILLS

- ▶ 118° pointed angle.
- ▶ Absolute smooth operation.
- ▶ High cutting achievement.



92081



92082

Dia.(mm)	D1.(mm)	D2.(mm)	D3.(mm)	Overall Length	Flute Length
3.0-20.0	14.0	3.0	6.0	58.0	38.0
4.0-30.0	30.0	4.0	9.0	103.0	65.0
5.0-20.0	20.0	5.0	8.0	71.0	51.0
16.0-30.5	30.5	16.0	9.0	76.0	54.0

H.S.S. CONICAL DRILLS

- ▶ Hex shank
- ▶ Spiral flute
- ▶ Burr-free
- ▶ Less vibration
- ▶ Longer lifetime
- ▶ Faster drilling rate



New

92083

4-20mm
5-31mm

CONICAL DRILL SET



3PC
92084
16-30, 8-20, 3-14mm



3PC
92085
16-30.5, 5-20, 3-14mm



3PC
92086
TiN coating
16-30, 6-20, 4-12mm



5PC
92087
16-30, 6-20, 4-20, 3-14, 4-12mm

3PC CONICAL DRILL SET

16-30.5mm
6-20mm
3-14mm



92088



92089

4PC COMBINED DRILL SET

- ▶ Saw drill: 6mm
- ▶ Step drill: 4-12mm
- ▶ Conical drill: 8-20mm
- ▶ 90° Countersink 12.4mm
- ▶ TiN coating



92090
Blister card



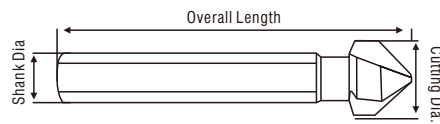
92091
Plastic box



92092
Steel box

8 METAL WORKING

H.S.S. COUNTERSINKS, DIN335C



60° Countersink



92093

90° Countersink



92094

100° Countersink

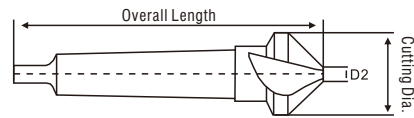


92095

Cutting Dia. (mm)	Shank Dia. (mm)	Overall Length (mm)
4.3	4	40
5.0	4	40
5.3	4	40
6.0	5	45
7.0	6	50
8.0	6	50
8.3	6	50
9.4	6	42
10.0	6	50
12.4	8	56
15.0	10	69
16.5	10	60
19.0	10	63
20.5	10	63
25.0	10	67
31.0	10	71

H.S.S. COUNTERSINKS, MORSE SHANK, DIN335D

- ▶ 90° degree point angle, Morse taper shank.
- ▶ Use for steel, cast iron, non-ferrous and light metals.



92096

Three flutes

Cutting Dia. (mm)	Morse Taper	D2 (mm)	Overall Length (mm)
16.5	1MT	3.2	87
20.5	2MT	3.5	103
25.0	2MT	3.8	110
31.0	2MT	4.2	112
40.0	3MT	10	138
50.0	3MT	14	145
63.0	4MT	16	175
80.0	4MT	22	182

H.S.S. COUNTERSINKS

- ▶ Quick change hex shank
- ▶ Three flutes



92097

Dia. (mm)	Dia. 2 (mm)	Shank Dia. (mm)	Overall Length
6.3	1.5	6.35	38
8.3	2.0	6.35	38
10.4	2.5	6.35	41
12.4	2.8	6.35	42
16.5	3.2	6.35	47
20.5	3.5	6.35	48

H.S.S. COUNTERSINKS

- ▶ Hex shank
- ▶ Three flutes



92098

Dia. (mm)	Dia. 2 (mm)	Shank Dia. (mm)	Overall Length
6.3	1.5	6.35	31
8.3	2.0	6.35	31
10.4	2.5	6.35	34
12.4	2.8	6.35	35
16.5	3.2	6.35	40
20.5	3.5	6.35	41

90° COUNTERSINK

- ▶ Quick change hex shank
- ▶ Five flutes



92099

Dia.	Length	Shank Dia.
1/4"	1.1/2"	3/16"
3/8"	1.3/4"	1/4"
1/2"	2"	1/4"
5/8"	2.1/4"	1/4"
3/4"	2.5/8"	1/4"
1"	2.3/4"	3/8"
1.1/4"	3"	1/2"
1/2"	3"	1/2"
2"	3.1/4"	1/2"

6PC COUNTERSINK SET

- 20.5mm
- 16.5mm
- 12.4mm
- 10.4mm
- 8.3mm
- 6.3mm



92100

5PC 90° COUNTERSINK SET

- 25mm
- 20.5mm
- 16.5mm
- 10.4mm
- 6.3mm



92101

6PC COUNTERSINK SET

- 20.5mm
- 16.5mm
- 12.4mm
- 10.4mm
- 8.3mm
- 6.3mm



92102

Bright finish



92103

TiN coating

6PC COUNTERSINK SETS

- 20.5mm
- 16.5mm
- 12.4mm
- 10.4mm
- 8.3mm
- 6.3mm



92104



92105



92106

Amber & Black color



92107



92108

TiN coating



92109

Excl.

COUNTERSINKS WITH SINGLE HOLE

► Use on brass and aluminum cutting edge



Hex shank

92110

Thread	Dia.	Shank Dia.	Overall Length
1-4	6.35	6.35	45
2-5	10	6	45
5-10	14	8	48
10-15	21	10	65
15-20	28	12	85
20-25	35	15	102
25-30	44	15	115
30-35	48	15	127
35-40	53	15	136
40-50	64	18	136



92115

Dia.1	Dia.2	Shank Dia.	Overall Length
1/16"	15/64"	1/4"	1.3/4"
5/32"	13/32"	1/4"	1.3/4"
3/16"	17/32"	1/4"	2"
5/16"	25/32"	1/2"	2.3/4"
9/16"	1.1/16"	1/2"	3"
5/8"	1.15/32"	1/2"	3.3/4"
3/4"	1.3/4"	5/8"	4"
1"	2"	5/8"	4.3/8"
1.1/4"	2.1/2"	3/4"	4.3/4"

4PC COUNTERSINK SETS

15-20mm, 10-15mm, 5-10mm, 2-5mm



92111



92112



92113

TiN coating

5PC COUNTERSINK SET

20-25mm, 15-20mm, 10-15mm, 5-10mm, 2-5mm



92114

COUNTERSINKS



92116



Single flute

3PC COUNTERSINK SET



Single flute

92117

10, 12, 16mm

5PC COUNTERSINK SET



92118

6, 10, 13, 16, 19mm

92119

1/4", 3/8", 1/2", 5/8", 3/4"

6PC COUNTERSINK SET



92120

6, 8, 9, 12, 16, 19mm

92121

1/4", 5/16", 3/8", 1/2", 5/8", 3/4"

7PC CHAMFERING SET

- 1PC 1/4" bit holder
- 5PC countersink: 6, 10, 13, 16, 19mm
- 1PC metal plum burr

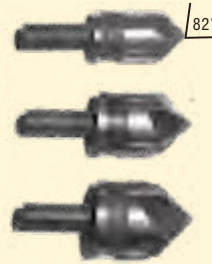
Excl.



92122

5 FLUTES COUNTER SINKS

- Use on plastics and metal hardened cutting edge
- Flute designed for smooth cut



92123

12, 16, 19mm Round shank



92124

1/8", 1/2", 5/8", 3/4" Hex shank

5 FLUTES COUNTERSINKS



92125

Dia.	Length	Shank Dia.
3/16"	1.1/2"	3/16"
1/4"	1.1/2"	1/4"
5/16"	1.5/8"	1/4"
3/8"	1.3/4"	1/4"
1/2"	2"	1/4"
5/8"	2.1/4"	3/8"
3/4"	2.5/8"	1/2"
7/8"	2.3/4"	1/2"
1"	2.3/4"	1/2"
1.1/4"	2.3/4"	1/2"
1.1/2"	2.7/8"	3/4"
2"	3.1/4"	3/4"

5 FLUTES COUNTERSINKS

1/4", 5/16", 3/8", 1/2", 5/8", 3/4"



92126

Length: 2"

5PC COUNTERSINK SET

- 5 Flutes and 82° point angle.
- 1/4" Tri-flat shank for easy grip.



92127

1/4", 3/8", 1/2", 5/8", 3/4"

8PC COUNTERSINK SET

► 6 flutes



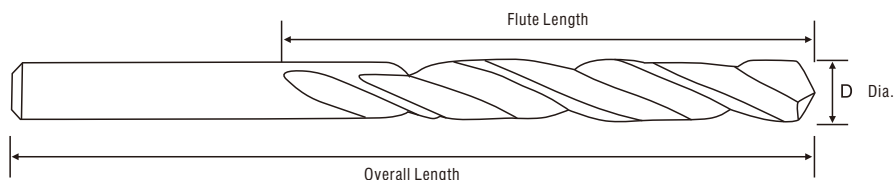
92128

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

10 METAL WORKING

H.S.S. STRAIGHT SHANK TWIST DRILLS, DIN338

- ▶ Cylindric short, right-hand cutting
- ▶ High security against fracture, high precision of concentric running
- ▶ Well suitable for all normal drilling work
- ▶ Split-Point angle 118° or 135°



Split point angle 135°

Up to 40 % faster drilling rate than comparable drill bits with 118° drill bit tip without split point. Pilot drilling without pre-punching.

92129

Dia. (mm)	Overall Length	Flute Length
0.20	19	2.50
0.30	19	3
0.40	20	5
0.50	22	6
0.60	24	7
0.70	28	9
0.80	30	10
0.90	32	11
1.00	34	12
1.10	36	14
1.20	38	16
1.30	38	16
1.40	40	18
1.50	40	18
1.60	43	20
1.70	43	20
1.80	46	22
1.90	46	22
2.00	49	24
2.10	49	24
2.20	53	27
2.30	53	27
2.40	57	30
2.50	57	30
2.60	57	30
2.70	61	33
2.80	61	33
2.90	61	33
3.00	61	33
3.10	65	36
3.20	65	36
3.30	65	36
3.40	70	39
3.50	70	39
3.60	70	39
3.70	70	39
3.80	75	43
3.90	75	43
4.00	75	43
4.10	75	43

Dia. (mm)	Overall Length	Flute Length
4.20	75	43
4.30	80	47
4.40	80	47
4.50	80	47
4.60	80	47
4.70	80	47
4.80	86	52
4.90	86	52
5.00	86	52
5.10	86	52
5.20	86	32
5.30	93	52
5.40	93	57
5.50	93	57
5.60	93	57
5.70	93	57
5.80	93	57
5.90	93	57
6.00	93	57
6.10	101	63
6.20	101	63
6.30	101	63
6.40	101	63
6.50	101	63
6.60	101	63
6.70	101	63
6.80	109	69
6.90	109	69
7.00	109	69
7.10	109	69
7.20	109	69
7.30	109	69
7.40	109	69
7.50	109	69
7.60	117	75
7.70	117	75
7.80	117	75
7.90	117	75
8.00	117	75
8.10	117	75

Dia. (mm)	Overall Length	Flute Length
8.20	117	75
8.30	117	75
8.40	117	75
8.50	117	75
8.60	125	81
8.70	125	81
8.80	125	81
8.90	125	81
9.00	125	81
9.10	125	81
9.20	125	81
9.30	125	81
9.40	125	81
9.50	125	81
9.60	133	87
9.70	133	87
9.80	133	87
9.90	133	87
10.00	133	87
10.20	133	87
10.50	133	87
11.00	142	94
11.50	142	94
12.00	151	101
12.50	151	101
13.00	151	101
13.50	160	108
14.00	160	108
14.50	169	114
15.00	169	114
15.50	178	120
16.00	178	120
16.50	184	125
17.00	184	125
17.50	191	130
18.00	191	130
18.50	198	135
19.00	198	135
19.50	205	140
20.00	205	140

Package



I PVC Bag

II Skin Card

III Slide Card

IV Skin Card

V Sandwich Packaging

VI Plastic Tube

VII Plastic Box

VIII Plastic Box

IX Plastic Box

Size comparison table for straight shank twist drill

Dia to (incl.) mm	DIN 338		DIN 339		DIN 340		DIN 1897		series 1		DIN 1869 Extra length twist drills series 2		series 3	
	total length mm	flute length mm	total length mm	flute length mm	total length mm	flute length mm	total length mm	flute length mm	total length mm	flute length mm	total length mm	flute length mm	total length mm	flute length mm
0.24	19	2.5					19	1.5						
0.30	19	3					19	1.5						
0.38	19	4					19	2						
0.48	20	5			30*		19	2.5						
0.53	22	6			32*	12*	20	3						
0.60	24	7	32*	15*	35*	15*	21	3.5						
0.67	26	8	36*	18*	38*	18*	22	4						
0.75	28	9	39*	20*	42*	21*	23	4.5						
0.85	30	10	42*	22*	46*	25*	24	5						
0.95	32	11	45*	24*	51*	29*	25	5.5						
1.06	34	12	48	26	56	33	26	6						
1.18	36	14	50	28	60	37	28	7						
1.32	38	16	52	30	65	41	30	8						
1.50	40	18	55	33	70	45	32	9						
1.70	43	20	58	35	76	50	34	10	115*	75*				
1.90	46	22	62	38	80	53	36	11	120*	80*				
2.12	49	24	66	41	85	56	38	12	125	85	160*	110*	205*	135*
2.36	53	27	70	44	90	59	40	13	135	90	170*	115*	215*	145*
2.65	57	30	74	47	95	62	43	14	140	95	180*	120*	225*	150*
3.00	61	33	79	51	100	66	46	16	150	100	190	130	240*	160*
3.35	65	36	84	55	106	69	49	18	155	105	200	135	250*	170*
3.75	70	39	91	60	112	73	52	20	165	115	210	145	265	180
4.25	75	43	96	64	119	78	55	22	175	120	220	150	280	190
4.75	80	47	102	69	126	82	58	24	185	125	235	160	295	200
5.30	86	52	108	74	132	87	62	26	195	135	245	170	315	210
6.00	93	57	116	80	139	91	66	28	205	140	260	180	330	225
6.70	101	63	124	86	148	97	70	31	215	150	275	190	350	235
7.50	109	69	133	93	156	102	74	34	225	155	290	200	370	250
8.50	117	75	142	100	165	109	79	37	240	165	305	210	390	265
9.50	125	81	151	107	175	115	84	40	250	175	320	220	410	280
10.60	133	87	162	116	184	121	89	43	265	185	340	235	430	295
11.80	142	94	173	125	195	128	95	47	280*	195*	365*	250*	455*	310*
13.20	151	101	184	134	205	134	102	51	295*	205*	375*		480*	330*
14.00	160	108	194	142	214	140	107	54						
15.00	169	114	202	147	220	144	111	56						
16.00	178	120	211	153	227	149	115	58						
17.00	184	125	218	159	235	154	119	60						
18.00	191	130	226	165	241	158	123	62						
19.00	198	135	234	171	247	162	127	64						
20.00	205	140	242	177	254	166	131	66						
21.20					261	171	136	68						
22.40					268	176	141	70						
23.60					275	180	146	72						
25.00					282	185	151	75						
26.50					290	190	156	78						
28.00					298	195	162	81						
30.00					307	201	168	84						
31.50					316	207	174	87						

H.S.S. STRAIGHT SHANK TWIST DRILLS, DIN338

► Material: H.S.S. or H.S.S-Co.
► Finish: bright, black oxide, black & gold.



92130 10.0mm Reduced Shank

92131 13.0mm Reduced Shank

Dia.	Flute Length	Overall Length
10.0	87	133
10.5	87	133
11.0	94	142
11.1	94	142
11.2	94	142
11.3	94	142
11.4	94	142
11.5	94	142
11.6	94	142
11.7	94	142
11.8	94	142
11.9	101	151
12.0	101	151
12.1	101	151
12.2	101	151
12.3	101	151
12.4	101	151
12.5	101	151
12.6	101	151
12.7	101	151
12.8	101	151
12.9	101	151
13.0	101	151
13.1	101	151
13.2	101	151
13.3	108	151
13.4	108	160
13.5	108	160
13.6	108	160
13.7	108	160
13.8	108	160
13.9	108	160
14.0	108	160
14.5	114	160
15.0	114	169
15.5	120	169
16.0	120	178
16.5	125	178
17.0	125	184
17.5	130	184
18.0	130	191
18.5	135	191
19.0	135	198
19.5	140	198
19.75	140	205
20.0	140	205

3PC HSS TWIST DRILLSET



92132
10mm

5PC HSS TWIST DRILL SET



92133
8mm

8PC HSS TWIST DRILL SET



92134
6mm



TIPS

Triangle shank twist drills



Available for triangle shank with diameter over 6mm.

12 METAL WORKING

H.S.S. STRAIGHT SHANK TWIST DRILLS, JOBBER LENGTH, ASME B.94.11M



92135

Size	Decimal Equivalent	Flute Length	Overall Length
1/16	0.0625	7/8	1.7/8
5/64	0.0781	1	2
3/32	0.0938	1.1/4	2.1/4
7/64	0.1094	1.1/2	2.5/8
1/8	0.1250	1.5/8	2.3/4
9/64	0.1406	1.3/4	2.7/8
5/32	0.2188	2	3.1/8
11/64	0.1719	2.1/8	3.1/4
3/16	0.1875	2.5/16	3.1/2
13/64	0.2031	2.7/16	3.5/8
7/32	0.2188	2.1/2	3.3/4
15/64	0.2344	2.5/8	3.3/7
1/4	0.2500	2.3/4	4
17/64	0.2656	2.7/8	4.1/8
9/32	0.2812	2.15/16	4.1/4
19/64	0.2969	3.1/16	4.3/8
5/16	0.3125	3.3/16	4.1/2
21/64	0.3281	3.5/16	4.3/4
11/32	0.3438	3.7/16	4.5/8
23/64	0.3594	3.1/2	4.7/8
3/8	0.3750	3.5/8	5
25/64	0.3906	3.3/4	5.1/8
13/32	0.4062	3.7/8	5.1/4
27/64	0.4219	3.15/16	5.3/8
7/16	0.4375	4.1/16	5.1/2
29/64	0.4531	4.3/16	5.5/8
15/32	0.4688	4.5/16	5.3/4
31/64	0.4844	4.3/8	5.7/8
1/2	0.5000	4.1/2	6

Size	Decimal Equivalent	Flute Length	Overall Length
A	0.2340	2.5/8	3.7/8
B	0.2380	2.3/4	4
C	0.2420	2.3/4	4
D	0.2460	2.3/4	4
E	0.2500	2.3/4	4
F	0.2570	2.7/8	4.1/8
G	0.2610	2.7/8	4.1/8
H	0.2660	2.7/8	4.1/8
I	0.2720	2.7/8	4.1/8
J	0.2770	2.7/8	4.1/8
K	0.2810	2.15/16	4.1/4
L	0.2900	2.15/16	4.1/4
M	0.2950	3.1/16	4.3/8
N	0.3020	3.1/16	4.3/8
O	0.3160	3.3/16	4.1/2
P	0.3230	3.5/16	4.5/8
Q	0.3320	3.7/16	4.3/4
R	0.3390	3.7/16	4.3/4
S	0.3480	3.1/2	4.7/8
T	0.3580	3.1/2	4.7/8
U	0.3680	3.5/8	5
V	0.3770	3.5/8	5
W	0.3860	3.3/4	5.1/8
X	0.3970	3.3/4	5.1/8
Y	0.4040	3.7/8	5.1/4
Z	0.4130	3.7/8	5.1/4

Size	Decimal Equivalent	Flute Length	Overall Length
1#	0.2280	2.5/8	3.7/8
2#	0.2210	2.5/8	3.7/8
3#	0.2130	2.1/2	3.3/4
4#	0.2090	2.1/2	3.3/4
5#	0.2055	2.1/2	3.3/4
6#	0.2040	2.1/2	3.3/4
7#	0.2010	2.7/16	3.5/8
8#	0.1990	2.7/16	3.5/8
9#	0.1960	2.7/16	3.5/8
10#	0.1935	2.7/16	3.5/8
11#	0.1910	2.5/16	3.1/2
12#	0.1890	2.5/16	3.1/2
13#	0.1850	2.5/16	3.1/2
14#	0.1820	2.3/16	3.3/8
15#	0.1800	2.3/16	3.3/8
16#	0.1770	2.3/16	3.3/8
17#	0.1730	2.3/16	3.3/8
18#	0.1695	2.1/8	3.1/4
19#	0.1660	2.1/8	3.1/4
20#	0.1610	2.1/8	3.1/4
21#	0.1590	2.1/8	3.1/4
22#	0.1570	2	3.1/8
23#	0.1540	2	3.1/8
24#	0.1520	2	3.1/8
25#	0.1495	1.7/8	3
26#	0.1470	1.7/8	3
27#	0.1440	1.7/8	3
28#	0.1405	1.3/4	2.7/8
29#	0.1360	1.3/4	2.7/8
30#	0.1285	1.5/8	2.3/4
31#	0.1200	1.5/8	2.3/4
32#	0.1160	1.5/8	2.3/4
33#	0.1130	1.1/2	2.5/8
34#	0.1110	1.1/2	2.5/8
35#	0.1100	1.1/2	2.5/8
36#	0.1065	1.7/16	2.1/2
37#	0.1040	1.7/16	2.1/2
38#	0.1015	1.7/16	2.1/2
39#	0.0995	1.3/8	2.3/8
40#	0.0980	1.3/8	2.3/8
41#	0.0960	1.3/8	2.3/8
42#	0.0935	1.1/4	2.1/4
43#	0.0890	1.1/4	2.1/4
44#	0.0860	1.1/8	2.1/8
45#	0.0820	1.1/8	2.1/8
46#	0.0810	1.1/8	2.1/8
47#	0.0785	1	2
48#	0.0760	1	2
49#	0.0730	1	2
50#	0.0700	1	2
51#	0.0670	1	2
52#	0.0635	7/8	1.7/8
53#	0.0595	7/8	1.7/8
54#	0.0550	7/8	1.7/8
55#	0.0520	7/8	1.7/8
56#	0.0465	3/4	1.3/4
57#	0.0430	3/4	1.3/4
58#	0.0420	11/16	1.5/8
59#	0.0410	11/16	1.5/8
60#	0.0400	11/16	1.5/8

12" EXTRA LENGTH DRILL

92136

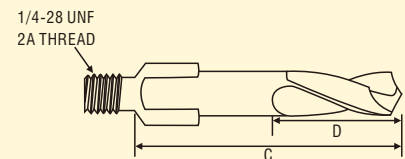
Dia.	Flute Length	Overall Length
1/8	9	12
3/16	9	12
7/32	9	12
1/4	9	12
9/32	9	12
5/16	9	12
11/32	9	12
3/8	9	12
13/32	9	12
7/16	9	12
1/2	9	12
9/16	9	12
5/8	9	12

18" EXTRA LENGTH DRILL

92137

Dia.	Flute Length	Overall Length
1/4	13	18
5/16	13	18
3/8	13	18
7/16	13	18
1/2	13	18
9/16	13	18
5/8	13	18











H.S.S. THREADED SHANK DRILLS



92138

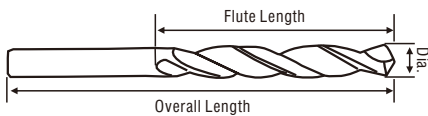
Series	Drill Size	C	D
Stub	1/16-1/8	1/2	5/16
Stub	#30-#10	9/16	5/16
Stub	#9-F	5/8	5/16
Short	1/16-1/8	1	9/16
Short	#30-#10	1.1/4	9/16
Short	#9-F	1.1/4	9/16
Long	1/16-1/8	2.1/8	7/8
Long	#30-#10	2.1/8	1.1/8
Long	#9-F	2.1/8	1.1/8

Finish types

Process	Finish types	Picture	No.
Roll forged	Black		92139
	Bright		92140
	Black & white		92141
	Titanium coating		92142
Fully ground	Black Oxide		92143
	Bright		92144
	Titanium coated		92145
	Amber		92146
	Nitriding and amber		92147
	Rainbow		92148

SOLID CARBIDE TWIST DRILL BITS

- It produces close tolerance holes in hard materials, and have a longer tool life at higher speeds than cobalt and high-speed steel.
- Self-centering 118° 4- facet point provides durability and accuracy to prevent walking and penetrate material more easily than a conventional point.



92149

Dia. (mm)	Shank	Flute Length	Overall Length
3.0	3	16	48
4.0	4	22	54
5.0	6	26	70
6.0	6	28	72
7.0	8	34	78
8.0	8	37	91
9.0	10	40	90
10	10	43	93
11	12	47	104
12	12	51	108
13	14	51	110
15	16	76	136
17	18	84	150
20	20	94	160

H.S.S. TWIST DRILLS, LEFT HAND CUTTING



Left hand cutting



92150

10PC DRILL SET, LEFT HAND



1-10mm

92151

MULTI-BLADE TWIST DRILLS



3 Blades



5 Blades

92152

H.S.S. PARABOLIC FLUTE DRILLS

- Features: parabolic flute drills are for deep hole drilling at higher feed rates in aluminum alloys and their low to medium tensile strength materials.



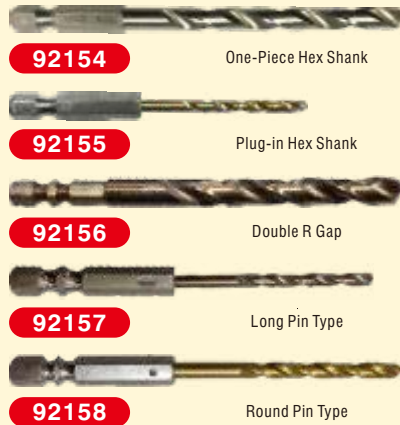
Size: 0.50-17.00mm

92153

14 METAL WORKING

H.S.S. HEX SHANK TWIST DRILLS

- ▶ Point angle: 118° or 135° split point.
- ▶ Material: HSS
- ▶ Finish: black oxide, bright or titanium coating.

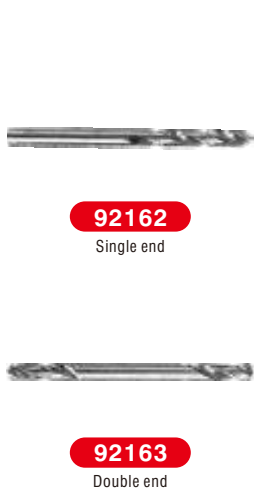


Metric			Imperial		
Dia. (mm)	Flute Length	Overall Length	Dia. (mm)	Flute Length	Overall Length
1.5	18	61	1/16"	20	64
2.0	24	70	5/64"	24	70
2.5	30	78	3/32"	30	78
3.0	33	82	7/64"	33	82
3.2	36	86	1/8"	36	86
3.5	36	86	9/64"	39	91
4.0	43	96	5/32"	43	96
4.5	47	101	11/64"	47	101
4.8	52	107	3/16"	52	107
5.0	52	107	13/64"	52	107
5.5	57	114	7/32"	57	114
6.0	57	114	15/64"	57	114
6.5	63	122	1/4"	63	122

HEX SHANK DRILL SETS



BODY DRILLS



Metric		
Dia.	Working Length	Overall Length
2.5	10	43
3.0	12	46
3.1	12	49
3.2	12	49
3.3	12	49
3.5	12	52
4.0	12	55
4.1	12	55
4.2	12	55
4.5	12	58
4.8	14	62
4.9	14	62
5.0	14	62
5.1	14	62
5.2	14	62
5.5	16	66
6.0	19	66

Imperial		
Dia.	Working Length	Overall Length
7/64"	1/2"	1.7/8"
1/8"	1/2"	2"
9/64"	1/2"	2"
5/32"	1/2"	2.1/16"
3/16"	1/2"	2.3/16"
7/32"	1/2"	2.3/8"
1/4"	1/2"	2.1/2"
11#	1/2"	2.1/4"
20#	1/2"	2.1/8"
30#	1/2"	2"

STUBBY DRILLS

- ▶ Precision ground from one piece of high speed steel with no weak welds or crimps.
- ▶ 1.9 to 2.32 inches overall length gets into tight spaces.
- ▶ Standard 1/4" hex shank fits most quick change or regular chucks.
- ▶ Standard 135 degree tip for metal or general purpose drilling.



92164

H.S.S. MINI DRILLS

Suitable for drilling through printed circuit boards

92165			
Shank Dia.	For Thread	Overall Length	Flute Length
2.34	0.5	44.5	5
2.34	0.6	44.5	7
2.34	0.7	44.5	11
2.34	0.8	44.5	11
2.34	0.9	44.5	11
2.34	1.0	44.5	11
3.0	1.1	44.5	11
3.0	1.2	44.5	11
3.0	1.3	44.5	11
3.0	1.4	44.5	11
3.0	1.5	44.5	11
3.175	1.6	44.5	12
3.175	1.7	44.5	12
3.175	1.8	44.5	12
3.175	1.9	44.5	12
3.175	2.0	44.5	12

MINI DRILL SETS



10PC

92166

0.3-1.6mm



20PC

92167

0.3-1.6mm



100PC

92168

#61(.039")-80(.0135")

MINI DRILL HANDLES



92169



92170



92171



92172



92173



92174



92175



92176



92177



92178



92179



92180

TWIST DRILL SETS



5PC
92181
4, 5, 6, 8, 10mm



5PC
92182
4, 5, 6, 8, 10mm



5PC
92183
3, 4, 5, 6, 8mm



6PC
92184
2, 3, 4, 5, 6, 8mm



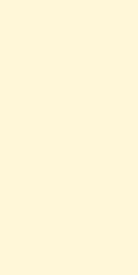
6PC
92185
2, 3, 4, 5, 6, 8mm



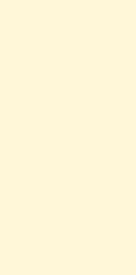
6PC
92186
2, 3, 4, 5, 6, 8mm

New

TWIST DRILL SETS



7PC
92187
1.5, 2, 3, 4, 5, 5.5, 6mm



7PC
92188
2, 3, 4, 5, 6, 7, 8mm



8PC
92189
3, 4, 5, 6, 7, 8, 9, 10mm



10PC
92190
1, 2, 3, 4, 5, 6, 7, 8, 9, 10mm



10PC
92191
1, 2, 3, 4, 5, 6, 7, 8, 9, 10mm



10PC
92192
1, 2, 3, 4, 5, 6, 7, 8, 9, 10mm

11PC TWIST DRILL SET

1.5, 2, 2.5, 3, 3.2, 3.5, 4, 4.5, 5, 6, 8mm



92193

13PC TWIST DRILL SETS

2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8mm



92194



92195



92196



92197

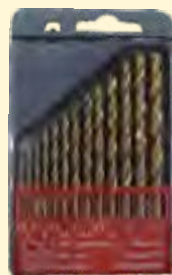
New

13PC TWIST DRILL SETS

1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5mm



92198



92200
TiN coating



92201
TiN coating



92202



92203
Steel box with window

16 METAL WORKING

13PC TWIST DRILL SETS

2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8mm



92204



92205

2.0-5.5mm drills with TIN coating



Strong plastic case

15PC TWIST DRILL SET

▶ 2PC: 1.5, 2, 2.5mm
▶ 1PC: 3, 3.2, 3.5, 4, 4.5, 5, 6, 8, 10mm



92206

TIN coating

16PC TWIST DRILL SET

▶ 2PC: 3.5, 6, 8, 10, 13mm
▶ 1PC: 3, 4, 5, 7, 9, 12mm



92207

19PC TWIST DRILL SETS

1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10mm



92208

Bright surface



92210

92209

TIN coating



92212

Black color

92211

Bright surface

19PC TWIST DRILL SETS

1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10mm



92213



Steel box



92215



92216

Red box



92218

TiN coating

92217

Bright surface

Plastic box

19PC TWIST DRILL SETS

1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10mm



92219



92220

TiN coating



92221



92222



92223

New

21PC DRILL BITS+CENTER PUNCH

1-4mm, 4.2mm, 4.5-8mm



92224

TiN coating

22PC TWIST DRILL SET

1-10mm



92225

25PC TWIST DRILL SETS

1-13mmx0.5mm



92226



92227

25PC TWIST DRILL SETS

1-13mmx0.5mm



92228



92229

Transparent plastic box



92230

Steel box with show window



92231

Steel box



92232

Steel box with window



92233

35PC DRILL BIT SET

- ▶ 7PC: 1.5, 2mm
- ▶ 6PC: 2.5mm
- ▶ 3PC: 3, 3.2mm
- ▶ 2PC: 4.0mm
- ▶ 1PC: 3.5, 4.5, 4.8, 5, 5.5, 6.5, 8mm



92234

99PC TWIST DRILL SETS



92235

92236



92237

- 16PC: 1.5, 2mm
- 15PC: 2.5mm
- 10PC: 3, 3.2mm
- 8PC: 3.5, 4mm
- 3PC: 4.5, 5mm
- 2PC: 5.5, 6, 6.5, 8, 10mm

230PC TWIST DRILL SET

- ▶ 10PC: (1-8.5)x0.5+3.2+4.2+10mm
- ▶ 5PC: 9.0+9.5+(10.5-13)x0.5mm



92238

170PC TWIST DRILL SETS

- ▶ 10PC: 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8mm
- ▶ 5PC: 8.5, 9, 9.5, 10mm



92239

TiN coating



92240

Bright surface



92241



92242

Transparent plastic box

18 METAL WORKING

TWIST DRILL SETS



6PC

92243

1/16", 3/32", 1/8", 5/32", 3/16", 1/4"



10PC

92244

1/16", 5/64", 3/32", 7/64", 1/8", 9/64",
5/32", 11/64", 3/16", 1/4"



17PC

92246

1/16"-1/2"x1/64"

13PC TWIST DRILL SETS

1/16"-1/4"x1/64"



92247



92248

21PC TWIST DRILL SETS

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"



92249



92250



92251

13PC TWIST DRILL SETS

1/16"-13/32"x1/64"



92252



92253

29PC TWIST DRILL SETS

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"



92254



92255



92256

TWIST DRILL SETS



88PC

92257

1/16"-3/8"x1/64"



120PC

92258

1/16"-3/8"x1/64"



160PC

92259

3/64"-1/2"x1/64"
1/2" bit with reduced 3/8" shank



214PC

92260

3/64"-1/2"x1/64"

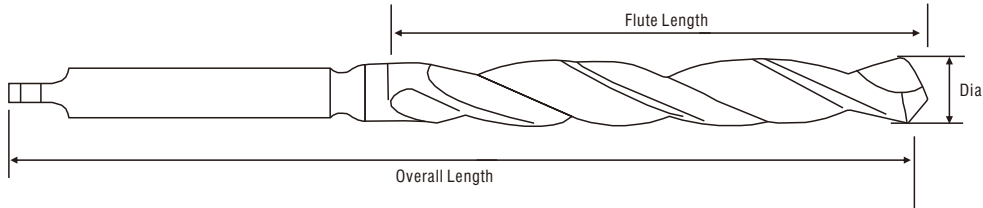


230PC

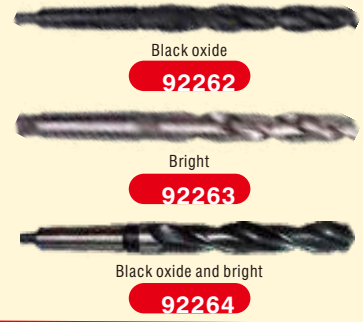
92261

3/64"-1/2"

H.S.S. MORSE TAPER SHANK TWIST DRILL



Type of finish

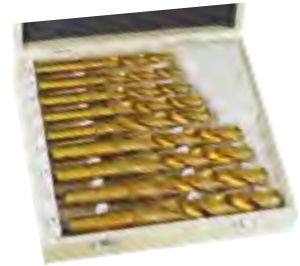


9PC TAPER DRILL SET

14.5, 16, 18, 20, 22, 24, 26, 28, 30



92265
Black



92266

10PC TAPER DRILL SETS

14.5, 15, 16, 17, 18, 19, 20, 21, 22, 23mm



92267
Black



92268
Bright

Dia. to (incl.) mm	DIN 345			DIN 346			DIN 341			DIN 1870 Extra length twist drills					
	Overall Length	Flute Length	Morse Taper	Overall Length	Flute Length	Morse Taper	Overall Length	Flute Length	Morse Taper	series 1			series 2		
										Overall Length	Flute Length	Morse Taper	Overall Length	Flute Length	Morse Taper
mm	mm		mm	mm		mm	mm		mm	mm		mm	mm		
6.00	138	57	1				161	80	1						
6.70	144	63	1				167	86	1						
7.50	150	69	1				174	93	1						
8.50	156	75	1				181	100	1	265	165	1	330	210	1
9.50	162	81	1				188	107	1	275	175	1	345	220	1
10.60	168	87	1	185*	87*	2*	197	116	1	285	185	1	360	235	1
11.80	175	94	1	192*	94*	2*	206	125	1	300	195	1	375	250	1
13.20	182	101	1	199	101	2	215	134	1	310	205	1	395	260	1
14.00	189	108	1	206	108	2	223	142	1	325	220	1	410	275	1
15.00	212	114	2	235*	114*	3*	245	147	2	340	220	2	425	275	2
16.00	218	120	2	241*	120*	3*	251	153	2	355	230	2	445	295	2
17.00	223	125	2	246*	125*	3*	257	159	2	355	230	2	445	295	2
18.00	228	130	2	251*	130*	3*	263	165	2	370	245	2	465	310	2
19.00	233	135	2	256	135	3	269	171	2	370	245	2	465	310	2
20.00	238	140	2	261	140	3	275	177	2	385	260	2	490	325	2
21.20	243	145	2	266	145	3	282	184	2	385	260	3	490	325	3
22.40	248	150	2	271	150	3	289	191	2	405	270	3	515	345	3
23.02	253	155	2	276	155	3	296	198	2	405	270	3	515	345	3
23.60	276	155	3	304*	155*	4*	319	198	3	425	270	3	535	345	3
25.00	281	160	3	309*	160*	4*	327	206	3	440	290	3	555	365	3
26.50	286	165	3	314*	165*	4*	335	214	3	440	290	3	555	365	3
28.00	291	170	3	319	170	4	343	222	3	460	305	3	580	385	3
30.00	296	175	3	324	175	4	351	230	3	460	305	3	580	385	3
31.50	301	180	3	329	180	4	360	239	3	480	320	3	610	410	3
31.75	306	185	3	334	185	4	369	248	3	480	320	3	610	410	3
33.50	334	185	4	372*	185*	5*	397	248	4	505	320	4	635	410	4
35.50	339	190	4	377*	190*	5*	406	257	4	530	340	4	665	430	4
37.50	344	195	4	382*	195*	5*	416	267	4	530	340	4	665	430	4
40.00	349	200	4	387*	200*	5*	426	277	4	555	360	4	695	460	4
42.50	354	205	4	392	205	5	436	287	4	555	360	4	695	460	4
45.00	359	210	4	397	210	5	447	298	4	585	385	4	735	490	4
47.50	364	215	4	402	215	5	459	310	4	585	385	4	735	490	4
50.00	369	220	4	407	220	5	470	321	4	605	405	4	765	510	4
50.80	374	225	4	412	225	5									
53.00	412	225	5	479*	225*	6*									
56.00	417	230	5	484*	230*	6*									
60.00	422	235	5	489*	235*	6*									
63.00	427	240	5	494*	240*	6*									
67.00	432	245	5	499	245	6									
71.00	437	250	5	504	250	6									
75.00	442	255	5	509	255	6									
76.50	447	260	5	514	260	6									
80.00	514	260	6												
85.00	519	265	6												
90.00	524	270	6												
95.00	529	275	6												
100.00	534	280	6												
106.00	539*	285*	6*												



1/2" REDUCED SHANK DRILL

Type of finish



92269

Metric

Dia.	Flute Length (mm)	Overall Length
13.0	82	140
13.5	82	140
14.0	82	140
14.5	82	140
15.0	82	140
15.5	82	140
16.0	82	140
16.5	82	140
17.0	82	140
17.5	82	140
18.0	82	140
18.5	82	140
19.0	82	140
19.5	82	140
20.0	82	140
20.5	82	140
21.0	82	140
21.5	82	140
22.0	82	140
22.5	82	140
23.0	82	140
23.5	82	140
24.0	82	140
25.0	82	140
25.5	82	140
26.0	82	140
26.8	82	140
27.0	82	140
27.5	82	140
28.0	82	140
28.5	82	140
29.0	82	140
29.5	82	140
30.0	82	140
30.5	82	140
31.0	82	140
31.5	82	140
32.0	82	140
32.5	82	140
33.0	82	140
33.5	82	140
34.0	82	140
34.5	82	140
35.0	82	140

Imperial

Dia.	Flute Length (mm)	Overall Length
33/64"	3"	6"
17/32"	3"	6"
35/64"	3"	6"
9/16"	3"	6"
37/64"	3"	6"
19/32"	3"	6"
39/64"	3"	6"
5/8"	3"	6"
41/64"	3"	6"
21/32"	3"	6"
43/64"	3"	6"
11/16"	3"	6"
45/64"	3"	6"
23/32"	3"	6"
47/64"	3"	6"
3/4"	3"	6"
49/64"	3"	6"
25/32"	3"	6"
51/64"	3"	6"
13/16"	3"	6"
53/64"	3"	6"
27/32"	3"	6"
55/64"	3"	6"
7/8"	3"	6"
57/64"	3"	6"
29/32"	3"	6"
59/64"	3"	6"
15/16"	3"	6"
61/64"	3"	6"
31/32"	3"	6"
63/64"	3"	6"
1"	3"	6"
1.1/64"	3"	6"
1.1/32"	3"	6"
1.3/64"	3"	6"
1.1/16"	3"	6"
1.5/64"	3"	6"
1.3/32"	3"	6"
1.7/64"	3"	6"
1.1/8"	3"	6"
1.9/64"	3"	6"
1.5/32"	3"	6"
1.11/64"	3"	6"
1.3/16"	3"	6"
1.13/64"	3"	6"
1.7/32"	3"	6"
1.15/64"	3"	6"
1.1/4"	3"	6"
1-17/64"	3"	6"
1.9/32"	3"	6"
1.19/64"	3"	6"
1.5/16"	3"	6"
1.21/64"	3"	6"
1.11/32"	3"	6"
1.23/64"	3"	6"
1.3/8"	3"	6"
1.25/64"	3"	6"
1.13/32"	3"	6"
1.27/64"	3"	6"
1.7/16"	3"	6"
1.29/64"	3"	6"
1.15/32"	3"	6"
1.31/64"	3"	6"
1.1/2"	3"	6"

1/2" SHANK DRILL SETS



5PC
92270
14, 16, 19, 22, 25mm



5PC
92271
9/16", 5/8", 3/4", 7/8", 1"

1/2" SHANK DRILL SETS



6PC
92272
14, 16, 18, 20, 22, 25mm

8PC
92273
9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

1/2" SHANK DRILL SETS



8PC
92274
9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"



8PC
92275
14, 15, 16, 18, 19, 20, 22, 25mm

1/2" SHANK DRILL SETS



17PC

92276

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



17PC

92277

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



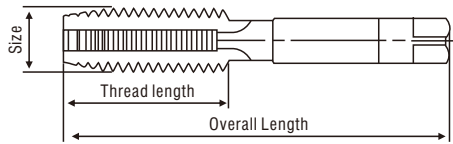
33PC

92278

1/2", 33/64", 17/32", 35/64", 9/16", 37/64", 19/32", 39/64", 5/8", 41/64", 21/32", 43/64", 11/16", 45/64", 23/32", 47/64", 3/4", 49/64", 25/32", 51/64", 13/16", 53/64", 27/32", 55/64", 7/8", 57/64", 29/32", 59/64", 15/16", 61/64", 31/32", 63/64", 1"

TAPS

A tap cuts a thread on the inside surface of a hole, creating a female surface which functions like a nut.



3PC TAP SET

- ▶ DIN352
- ▶ Set of equal-diameter or unequal-diameter.
- ▶ Straight flute
- ▶ Tolerance: H4
- ▶ Coarse thread
- ▶ Right hand cutting

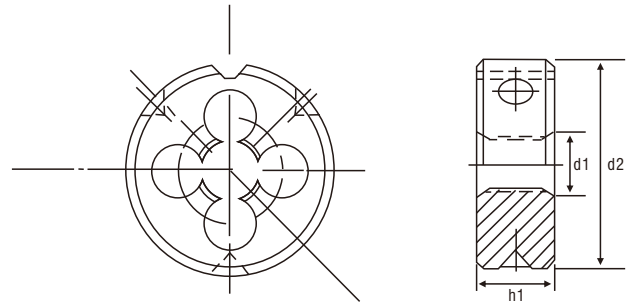


92279

Size	Pitch (mm)	Thread Length(mm)	Overall Length (mm)
M1	0.25	5.5	32
M1.1	0.25	5.5	32
M1.2	0.25	5.5	32
M1.4	0.30	7	32
M1.6	0.35	8	32
M1.7	0.35	8	32
M1.8	0.35	8	32
M2	0.40	8	36
M2.2	0.45	9	36
M2.3	0.45	9	36
M2.5	0.45	9	40
M2.6	0.45	9	40
M3	0.50	10	40
M3.5	0.60	12	45
M4	0.70	12	45
M4.5	0.75	14	50
M5	0.80	14	50
M5.5	0.90	16	50
M6	1.00	16	50
M7	1.00	18	50
M8	1.25	22	56
M9	1.25	22	63
M10	1.50	24	70
M11	1.50	24	70
M12	1.75	29	75
M14	2.00	30	80
M16	2.00	32	80
M18	2.50	40	95
M20	2.50	40	95
M22	2.50	40	100
M24	3.00	50	110
M27	3.00	50	110
M30	3.50	56	125
M33	3.50	56	125
M36	4.00	63	150
M39	4.00	63	150
M42	4.50	63	150
M45	4.50	70	160
M48	5.00	75	180
M52	5.00	75	180
M56	5.50	85	200
M60	5.50	85	200
M64	6.00	90	220
M68	6.00	90	220

ROUND DIES

- ▶ DIN223
- ▶ Right hand direction
- ▶ For machine and hand use
- ▶ For external threading of rods, bolts, studs etc.



92280

Size(d1)	Outside(d2 X h1)
M1x0.25	16x5mm
M1.1x0.25	16x5mm
M1.2x0.25	16x5mm
M1.4x0.30	16x5mm
M1.6x0.35	16x5mm
M1.7x0.35	16x5mm
M1.8x0.35	16x5mm
M2x0.40	16x5mm
M2.2x0.45	16x5mm
M2.3x0.45	16x5mm
M2.5x0.45	16x5mm
M2.6x0.45	16x5mm
M3x0.50	20x5mm
M3.5x0.60	20x5mm
M4x0.70	20x5mm
M4.5x0.75	20x7mm
M5x0.80	20x7mm
M5.5x0.90	20x7mm
M6x1.00	20x7mm
M7x1.00	25x9mm
M8x1.25	25x9mm
M9x1.25	25x9mm
M10x1.50	30x11mm
M11x1.50	30x11mm
M12x1.75	38x14mm
M14x2.00	38x14mm
M16x2.00	45x18mm
M18x2.50	45x18mm
M20x2.50	45x18mm
M22x2.50	55x22mm
M24x3.00	55x22mm
M27x3.00	65x18mm
M30x3.50	65x25mm
M33x3.50	65x25mm
M36x4.00	65x25mm
M39x4.00	75x30mm
M42x4.50	75x30mm
M45x4.50	90x36mm
M48x5.00	90x36mm
M52x5.00	90x36mm
M56x5.50	105x36mm
M60x5.50	105x36mm
M64x6.00	120x36mm
M68x6.00	120x36mm

22 METAL WORKING

25MM OUTSIDE DIAMETER ROUND DIES

- ▶ DIN223B
- ▶ Right hand cutting



92281

Size(d1 mm)	Pitch(mm)	Outside(d2 X h1 mm)
M3	0.50	25x9
M4	0.70	25x9
M5	0.80	25x9
M6	1.00	25x9
M8	1.25	25x9
M10	1.50	25x9
M12	1.75	25x9

T-HANDLE TAP WRENCHES

- ▶ Ideal for holding square shank
- ▶ Sliding "T" handle with spring tension
- ▶ Split-collet chuck provides positive grip
- ▶ For holding taps, drills, reamers and other small hand turning tools
- ▶ Center hole in body for use with lathe centers or upright drilling machines



92283

92284

For Taps

Size	Metric	Imperial	Length(mm)
1#	M3-M8	1/8-5/16"	70
2#	M5-M10	7/32-3/8"	80
3#	M6-M12	1/4-1/2"	90

Imperial

Size	Length
1/16-3/16	2
7/32-7/16	2.1/2
1/4-1/2	3.1/2

T-HANDLE RACHET TYPE TAP WRENCHES



92286

Size	For Taps	Length(mm)
1#	M3-M10	85x100
2#	M5-M12	100x120
10"	M3-M10	250x100
20"	M5-M12	300x120

Imperial

Fractional Capacity	Mach/Screw Capacity	Handle Length
5/32-1/4	#0-#14	3.1/2
1/4-1/2	#12-#14	4.1/4

ADJUSTABLE TAP & REAMER WRENCHES

- ▶ DIN1814
- ▶ Ideal for hand tapping
- ▶ Straight design provides improved leverage when working with larger diameter taps



92282

For Taps

Size	Metric	UNC/UNF	Pipe	Length(mm)
0#	M1-M8	1/16-5/16	-	125
1#	M3-M10	1/8-3/8	-	180
1.1/2#	M3-M12	1/8-1/2	G1/8	200
2#	M4-M12	3/16-5/8	G1/8-G3/8	280
3#	M5-M20	1/4-3/4	G1/8-G1/2	375
4#	M10-M27	3/8-1.11	G1/8-G3/4	500
5#	M14-M33	5/8-1.1/4	G1/4-G1.11	750
6#	M18-M42	3/4-1.1/2	G1/4-G1.1/4	1000
7#	M25-M52	7/8-2.11	G5/8-G2.1/4	1250

DIE STOCKS

- ▶ DIN225
- ▶ Ideal for short or medium-run threading of shafts
- ▶ One piece body construction
- ▶ Can be used safely on lathes, milling machines, tapping heads, etc.
- ▶ Main body: 1.1/2" dia. x 1" length, counterbored for chip clearance



92285

For Dies

Size	Metric	UNC/UNF	Pipe	Length(mm)
16x5	M1-M2.6	1/16-3/32	-	160
20x5	M3-M4	1/8-5/32	-	200
20x7	M4.5-M6	3/16-1/4	-	200
25x9	M7-M9	5/16	G1/16	224
30x11	M10-M11	3/8-7/16	G1/8	280
38x14	M12-M14	1/2-9/16	-	315
45x18	M16-M20	5/8-3/4	5/8-3/4	450
55x22	M22-M24	7/8-1.11	-	560
65x25	M27-M36	1.1/8-1.3/8	-	630
75x30	M39-M42	1.1/2-1.5/8	-	800
90x36	M45-M52	1.3/4-2.11	-	900
105x22	M55-M62	-	G1.3/4-G2.11	1000

Imperial

Takes Dies Out Dia.	Overall Length
5/8	6
13/16	6.1/4
1	9
1.1/2	12
2	15
2.1/2	19
3	22
4.1/2	24
4	29

DIE STOCKS

ANSI STANDARD



92287

1", 1.1/2", 2"

TAP & DIE SETS



12PC

92288



16PC

92289



16PC

92290



20PC

92291



40PC

92292

Injection mould case



24PC

92293



32PC

92294



32PC

92295



32PC

92296



27PC

92297



40PC

92298

Blowing mould case



45PC

92299

Metric size



60PC

92300



65PC

92301

Metric size



86PC

92302

TiN coating
Hexagon dies



110PC

92303

Metric size



110PC

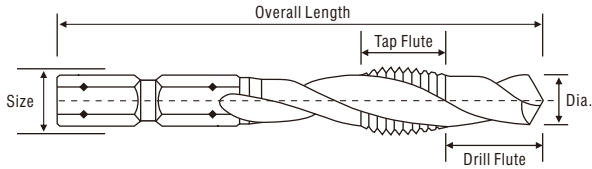
92304

Metric size

24 METAL WORKING

COMBINED MACHINE TAP DRILLS

- ▶ The combined machine tap is suitable for sheet metal working with right/left handed rotation cordless drilling machines.
- ▶ The tool incorporates a twist drill before the thread-tapping part.
- ▶ The machine tap consists of heavy-duty H.S.S.



92305

Size	Dia. of drill (mm)	Drill Flute (mm)	Tap Flute (mm)	Overall Length (mm)
M3x0.5	2.5	4.0	13.0	66.0
M4x0.7	3.3	5.0	14.0	67.0
M5x0.8	4.2	6.0	15.0	68.0
M6x1.0	5.0	7.0	16.0	69.0
M8x1.25	6.8	9.0	18.0	71.0
M10x1.5	8.5	11.0	20.0	73.0

ANSI STANDARD

Size	Drill Size (Inch)	Thread Length (Inch)	Drill Length (Inch)	Overall Length (Inch)
No. 6-32unc	0.109	0.354	0.317	2.06
No. 8-32unc	0.136	0.354	0.34	2.06
No. 10-24unc	0.152	0.472	0.34	2.23
No. 10-32unf	0.161	0.472	0.35	2.23
No. 12-24unc	0.177	0.472	0.35	2.25
1/4- 20unc	0.201	0.551	0.381	2.28
5/16-18	0.257	0.472	0.825	3.12
3/8-16	0.313	0.172	0.825	3.12

5PC TAP DRILL SET



92306

M3, M4, M5, M6, M8

6PC TAP DRILLS WITH A BIT HOLDER

- M3x0.5
- M4x0.7
- M5x0.8
- M6x1.0
- M8x1.25
- M10x1.5
- 1PC 1/4" bit holder



92307

3 IN 1 COMBINED TAP DRILLS



92308

For Thread	Pitch	Dia. of Countersink (mm)	Drill Flute Length (mm)	Thread Length (mm)	Dia. of Drill (mm)	Overall Length (mm)
M3	0.50	7.2	5.0	6.0	2.5	36.0
M4	0.70	7.2	6.0	8.0	3.3	39.0
M5	0.80	7.2	7.0	9.0	4.2	41.0
M6	1.00	7.2	8.0	11.0	5.0	44.0
M8	1.25	8.8	11.0	14.0	6.8	51.0
M10	1.50	11.0	15.0	15.0	8.5	59.0

25PC THREAD REPAIR KIT

M5, M6, M8, M10, M12



92309

88PC THREAD REPAIR KIT

M6-M10



92310

131PC THREAD REPAIR KIT

M5-M12



92311

300PC THREAD REPAIR KIT

M5-M12



92312

8PC THREAD REPAIR KIT

M24x1.50, M24x2.00, M22x1.00, M22x1.50, M20x1.50, M20x1.25, 13/16"x20, 3/4"x20.



92313

10PC THREAD REPAIR KIT

M4, M5, M6, M8, M10, M12, M14, M16, M18-20, M22



92314

15PC THREAD REPAIR KIT

- ▶ 7PC: metric duplicate thread dies and taps same Size: 6, 8x1.25, 10x1.25, 10x1.5, 12x1.25, 12x1.5, 12x1.75
- ▶ 1PC: double-ended burr



92315

42PC THREAD REPAIR KIT

M8-M12



92316

H.S.S. SPOT WELD DRILLS

► Application: The spot weld drill bit is suitable for automobile sheetmetal working, grinding operation.



92317

Diameter (mm)	Flute length (mm)	Overall Length (mm)
6.0	25.0	66.0
7.0	28.0	74.0
8.0	30.0	79.0
10.0	34.0	89.0
6.5	15.0	40.0
8.0	15.0	40.0
8.0	17.0	44.0
10.0	17.0	45.0



3PC

92318

► Titanium coating
► Size: 6.5, 8, 10mm

SPOT WELD DRILLS



92319

3/8"(9.5mm), 5/16"(8mm)



9PC

92320

H.S.S. CENTER DRILLS

► DIN333

► Designed with spiral flutes and lengths and forms to give high quality centre holes that suit most applications 60° inclusive angle.



Type A

92321

Flute Dia. (mm)	Shank Dia.	Flute Length	Overall Length
1.0	3.15	1.9	31.5
1.25	3.15	2.2	31.5
1.6	4.0	2.8	35.5
2.0	5.0	3.3	40.0
2.5	6.3	4.1	45.0
3.15	8.0	4.9	50.0
4.0	10.0	6.2	56.0
5.0	12.5	7.5	63.0
6.3	18.0	9.2	71.0
8.0	20.0	11.5	80.0
10.0	25.0	14.2	100.0



Type B

92322

Flute Dia. (mm)	Shank Dia.	Shank Dia.	Flute Length	Overall Length
1.0	4.0	2.12	1.9	35.5
1.25	5.0	2.65	2.2	40.0
1.6	6.3	3.35	2.8	45.0
2.0	8.0	4.25	3.3	50.0
2.5	10.0	5.3	4.1	56.0
3.15	11.2	6.7	4.9	60.0
4.0	14.0	8.5	6.2	67.0
5.0	18.0	10.6	7.5	75.0
6.3	20.0	13.2	9.2	80.0
8.0	25.0	17.0	11.5	100.0
10.0	31.5	21.2	14.2	125.0

EXTERNAL DEBURRING CHAMFER TOOL

New



92323

3-20mm



92324

3-20mm



92325

3-20mm



92326

3-20mm



92327

8-22mm

EXTERNAL DEBURRING CHAMFER TOOL

Excl.



92328

8-22mm



92329

8-22mm



92330

8-22mm



92331

8-22mm



92332

8-22mm

3PC SCREW REMOVER SETS



92333

92334

Size	Dia.(mm)	Overall Length
#1	5	50
#2	7	50
#3	8	50

4PC SCREW REMOVER SET



92335

4PC X2#

5PC SS DAMAGED SCREW REMOVER SET



92336

HSS 4241

5PC SCREW EXTRACTOR SET

►Material: Carbon steel



92337

SCREW EXTRACTOR SETS



4PC

92338

S2

4PC

92339

HSS 4341



4PC

92340

TiN coating

Size: #1, #2, #3, #4



5PC

92341

TiN coating

Size: #0, #1, #2, #3, #4



5PC

92342

Size: #0, #1, #2, #3, #4

SCREW EXTRACTOR SETS



4PC

92343

Screw extractor #1, #2, #3
Screw remover #2



4PC

92344

M6, M8, M10, M12



6PC

92345

TiN coating

Size: #0, #1, #2, #2, #3, #4



18PC

92346

8PC Drill & Extractor: 1-8#
Adp. & Bit holder

New

SCREW EXTRACTOR SETS



22PC

92347

10PC Drill & Extractor: 1-10#
Adp. & Bit holder



22PC

92348

Drill: 1-10
Extractor: 1-10
Adp.

25PC

92349

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"

26PC

92350

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", 17/32",
9/16", 19/32", 5/8", 21/32", 11/16", 23/32", 3/4",
25/32", 13/16", 27/32", 7/8"
1PC 1/2"-3/8" adapter, 1PC 3/8" hex adapter

SCREW EXTRACTORS



92351

Size	Metric Screw	Inch Screw
#1	M3-M6	1/8"-1/4"
#2	M6-M8	1/4"-5/16"
#3	M8-M11	5/16"-7/16"
#4	M11-M14	7/16"-9/16"
#5	M14-M18	9/16"-3/4"
#6	M18-M24	3/4"-1"
#7	M24-M30	1"-1.3/16"
#8	M30-M40	1.3/16"-1.37/64"

SCREW EXTRACTOR SETS

► Material: CrMo



5PC

92352

1-5#



5PC

92353

1-5#

Black finish



5PC

92354

1-5#

8PC

92355

1-8#

SCREW EXTRACTORS



92356

Size	Metric Screw	Inch Screw
#1	M3-M6	1/8"-1/4"
#2	M6-M8	1/4"-5/16"
#3	M8-M11	5/16"-7/16"
#4	M11-M14	7/16"-9/16"
#5	M14-M18	9/16"-3/4"
#6	M18-M24	3/4"-1"
#7	M24-M30	1"-1.3/16"
#8	M30-M40	1.3/16"-1.37/64"

SCREW EXTRACTOR SETS

► Material: Carbon steel



5PC

92357

1-5#



6PC

92358

1-6#



8PC

92359

1-8#

SCREW EXTRACTORS



Hex shank

92360

#1, #2, #3, #4, #5

10PC SCREW EXTRACTOR WITH DRILL SETS

► Screw extractors: #1, #2, #3, #4, #5



Spiral flute

92361

Drill size: 5/64", 7/64", 5/32", 1/4", 19/64"

Straight flute

92362

Drill size: 5/64", 7/64", 5/32", 1/4", 19/64"

CrMo

92363

Drill size: 3/32", 1/8", 3/16", 1/4", 5/16"

Carbon steel

92364

Drill size: 3/32", 1/8", 3/16", 1/4", 5/16"



92365

Drill size: 3/32", 1/8", 3/16", 1/4", 5/16"

SCREW EXTRACTOR WITH WRENCH SETS



5pc

92366

#1, #2, #3, #4



6pc

92367

#1, #2, #3, #4, #5

PIPE EXTRACTOR SETS



92368

90mm/100mm



92369

1/2"



92370

3/4"



92371

1/2"



92372

3/4"

BOLT EXTRACTOR

STUD REMOVER

NUT SPLITTER SET

3/8" DRIVE BOLT REMOVER SETS



92373

- ▶ 1/2" (12.7mm)
- ▶ M5-M18mm

92374

- ▶ 3/8", 6-12mm

4PC

92375

- ▶ 1# (9-12mm), 2# (12-16mm), 3# (16-22mm), 4# (22-27mm)



10PC

92376

- ▶ Hex size: 9-19mm
- ▶ Height: 27mm

10PC

92377

- ▶ Hex size: 16-27mm
- ▶ Height: 1-4# 9.7mm
- ▶ 5-8# 13mm
- ▶ 9-10# 16mm

10PC

92378

- ▶ 1/4", 5/16" (8mm), 3/8", 10mm, 7/15" (11mm), 9/16" (14mm), 13mm, 12mm, 1/2", 3/8" (16mm), 17mm, 11/16", 3/8" (19mm)

3/8" DRIVE BOLT REMOVER SETS

11PC

92379

- ▶ 8, 10, 11, 12, 13, 14, 15, 16, 17, 19mm
- ▶ 1PC 3" (80mm) rod

11PC

92380

- ▶ 9, 10, 11, 12, 13, 14, 15, 16, 17, 19mm
- ▶ 1PC 3/8" adapter

13PC

92381

- ▶ 1/2", 15mm, 9/16" (14mm), 5/8" (16mm), 12mm, 7/16" (11mm), 10mm, 3/8", 17mm, 3/4" (19mm)

13PC

92382

- ▶ 1/4", 5/16" (8mm), 3/8", 10mm, 7/16" (11mm), 12mm, 1/2", 13mm, 9/16" (14mm), 5/8" (16mm), 17mm, 11/16", 3/4" (19mm)
- ▶ Material: 40CrMo

1/2" DRIVE BOLT REMOVER SETS



5PC

92383

- ▶ 17, 19, 21, 22mm
- ▶ Material: 40CrMo

11PC

92384

- ▶ 9, 10, 11, 12, 13, 14, 15, 16, 17, 19mm
- ▶ 1PC 4" (100mm) rod

15PC

92385

- ▶ 6, 8, 10, 11, 12, 13, 14, 15, 17, 19, 21, 24, 27mm

16PC

92386

- ▶ 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24, 27mm

DRIVE BOLT REMOVER SETS

26PC

92387

- ▶ 5PC twist drill: 9/32", 1/4", 5/32", 1/8", 3/32"
- ▶ 5PC screw extractor: 1-5#
- ▶ 13PC drive bolt remover: 7/16" (11mm), 9/16" (14mm), 5/8" (16mm), 17mm, 11/16", 3/4" (19mm), 12mm, 1/2", 13mm, 10mm, 3/8", 5/16" (8mm), 1/4"
- ▶ 1PC 1/4"-3/8" hex adapter
- ▶ 2PC nut splitter: 2# (12-16mm), 3# (16-22mm)

26PC

92388

- ▶ 6PC twist drill bits: 5/54", 1/8", 5/32", 1/4", 9/32", 3/8", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 7/16" (11mm), 1/2" 12mm, 13mm, 9/16" (14mm), 5/8" (16mm), 17mm
- ▶ 1PC 1/4"-3/8" adapter
- ▶ 6PC screw extractor: 1# (3-6mm), 2# (6-8mm), 3# (8-11mm), 4# (11-15mm), 5# (14-18mm), 6# (17-21mm)

35PC

92389

- ▶ 13PC drive bolt remover: 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"
- ▶ 6PC screw extractor: 1-6#
- ▶ 16PC twist drill bit: 5/64", 7/64", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 19/64", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"

49PC

92390

- ▶ 13PC drive bolt remover: 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"
- ▶ 6PC screw extractor: 1-6#
- ▶ 16PC twist drill bit: 5/64", 7/64", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 19/64", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"
- ▶ 13PC bolt extractor: 3/4", 11/16", 17mm, 5/8", 9/16", 13mm, 1/2", 7/16", 3/8", 5/16", 1/4"
- ▶ 1PC 1/4" adapter

HSS BI-METAL HOLE SAWS

Cutting depth:
30mm(1.3/16")
38mm(1.1/2")
47mm(1.7/8")



92391

Metric(mm)	Imperial
14	9/16"
16	5/8"
17	11/16"
19	3/4"
20	25/32"
21	13/16"
22	7/8"
24	15/16"
25	1"
27	1.1/16"
29	1.1/8"
30	1.3/16"
32	1.1/4"
33	1.5/16"
35	1.3/8"
38	1.1/2"
40	1.9/16"
44	1.3/4"
48	1.7/8"
51	2"
54	2.1/8"
57	2.1/4"
60	2.3/8"
64	2.1/2"
67	2.5/8"
70	2.3/4"
73	2.7/8"
76	3"
79	3.1/8"
89	3.1/2"
92	3.5/8"
95	3.3/4"
98	3.7/8"
102	4"
108	4.1/4"
111	4.3/8"
114	4.1/2"
121	4.3/4"
127	5"
140	5.1/2"
152	6"
160	6.19/64"
165	6.1/2"
168	6.5/8"
200	7.7/8"

BI-METAL HOLE SAW SETS



8PC

92392

- ▶ 6PC hole saw: 22, 35, 44, 51, 68, 83mm
- ▶ 2PC arbor: HEX 5/8-18UNF, HEX 1/2-20UNF



9PC

92393

- ▶ 6PC hole saw: 22, 29, 35, 44, 67, 73mm
- ▶ 2PC arbor: 3/8", 7/16"
- ▶ 1PC adapter: 1/2-20UNF



9PC

92394

- ▶ 6PC hole saw: 22, 29, 38, 44, 57, 67mm
- ▶ 2PC arbor: 1/4", 7/16"
- ▶ 1PC adapter: 1/2-20UNF

BI-METAL HOLE SAW SETS



9PC

92395

- ▶ 6PC hole saw: 19, 22, 29, 38, 44, 57mm
- ▶ 2PC arbor: 1/4", 7/16"
- ▶ 1PC adapter: 1/2-20UNF



10PC

92396

- ▶ 6PC hole saw: 22, 29, 35, 44, 51, 64mm
- ▶ 2PC arbor: 7/16", 1/4"
- ▶ 1PC adapter: 1/2-20UNF
- ▶ 1PC hex key: 4mm



16PC

92397

- ▶ 10PC hole saw: 19, 22, 29, 35, 38, 44, 51, 54, 57, 64mm
- ▶ 1PC pilot drill, adapter: 1/2-20UNF
- ▶ 2PC arbor: 3/8", 7/16"
- ▶ 2PC hex key

BI-METAL HOLE SAW SETS



14PC

92398

- ▶ 9PC hole saw: 19, 22, 29, 35, 38, 44, 51, 57, 64mm
- ▶ 2PC arbor: HEX 5/8-18UNF, HEX 1/2-20UNF
- ▶ 2PC pilot drill: 6.35x75mm
- ▶ 1PC adapter: 1/2-20UNF



14PC

92399

- ▶ 11PC hole saw: 19, 22, 25, 29, 35, 38, 44, 51, 57, 64, 76mm
- ▶ 2PC arbor: 3/8", 7/16"
- ▶ 1PC extension bar: 300mm(12")

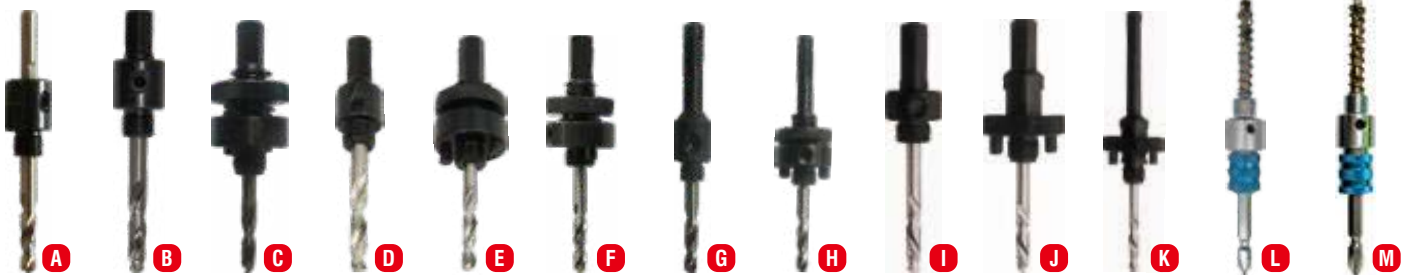


20PC

92400

- ▶ 13PC hole saw: 19, 20, 22, 25, 29, 32, 35, 38, 44, 51, 57, 64, 76mm
- ▶ 2PC arbor: 3/8", 7/16", hex key, pilot drill: 35, 75mm
- ▶ 1PC extension bar: 300mm(12")

ARBORS FOR BI-METAL HOLE SAW



Model	No.	Shank Size	Thread Size	Metric(mm)	Imperial
A	92401	1/4" Round	1/2-20UNF	14-30	9/16"-1.3/16"
B	92402	3/8" Hex	1/2-20UNF	14-30	9/16"-1.3/16"
C	92403	3/8" Hex	5/8-18UNF	32-210	1.1/4"-8.17/64"
D	92404	7/16" Hex	1/2-20UNF	14-30	9/16"-1.3/16"
E	92405	7/16" Hex	5/8-18UNF	32-210	1.1/4"-8.17/64"
F	92406	5/8" Hex	5/8-18UNF	32-210	1.1/4"-8.17/64"
G	92407	SDS Plus	1/2-20UNF	14-30	9/16"-1.3/16"
H	92408	SDS Plus	5/8-18UNF	32-210	1.1/4"-8.17/64"
I	92409	7/16" Hex	5/8-18UNF	32-210	1.1/4"-8.17/64"
J	92410	7/16" Hex	5/8-18UNF	32-210	1.1/4"-8.17/64"
K	92411	SDS Plus	5/8-18UNF	32-210	1.1/4"-8.17/64"
L	92412	SDS Plus	1/2-20UNF	14-30	9/16"-1.3/16"
M	92413	SDS Plus	5/8-18UNF	32-210	1.1/4"-8.17/64"

PILOT DRILLS

6.35x75mm
6.35x102mm
6x52mm
6x80mm



92414

30 METAL WORKING

CARBIDE HOLE SAWS

- ▶ Applied for stainless steel and nonferrous metal with thickness above 5mm.
- ▶ Diameter: 15-100mm.



92415



92416

HSS HOLE SAWS

- ▶ Applied on sheet metal, thin circular tube.
- ▶ Diameter: 15-100mm.



92417



92418

CARBIDE HOLE SAW SETS



7PC

92419

- ▶ Cutting depth: 25mm
- ▶ 6PC hole saw: 20mmx3, 25mmx2, 32mmx1
- ▶ 1PC hex wrench



8PC

92420

- ▶ Cutting depth: 25mm
- ▶ 5PC hole saw: 16, 18, 18, 20, 22mm
- ▶ 2PC pilot drills
- ▶ 1PC hex wrench



12PC

92421

- ▶ Cutting depth: 25mm
- ▶ 10PC hole saw: 16, 18, 20, 22, 25, 30, 35, 45, 50, 55mm
- ▶ 2PC hex wrench



12PC

92422

- ▶ Cutting depth: 20mm
- ▶ 10PC hole saw: 16, 18, 20x2, 30, 32, 35, 45, 50, 55mm
- ▶ 2PC hex wrench

ANNULAR CUTTER

Material: H.S.S., Tungsten Carbide Steel
Cutting Dia.: 12-65mm
Cutting Depth: 30, 55, 75, 100mm



92423

Weldon



92424

ONE-touch



92425

Quick Change



92426

Inner Thread



92427

T.C.T tip



92428

T.C.T tip

Types of finish



92429

Bright surface



92430

TiAlN Coating



92431

Amber



92432

TiN Coating

7PC ANNULAR CUTTER SET

14, 16, 18, 20, 22, 24mm+Pin



92433

- ▶ Cutting depth: 30mm
- ▶ Steel box



92434

- ▶ Cutting depth: 50mm
- ▶ Aluminum box

ACCESSORIES



Adaptor

92435



Pilot pin

92436



Arbor

92437

H.S.S. SAW BLADES

- 22x0.8x6.35mm
- 25x0.8x6.35mm
- 32x0.8x6.35mm
- 35x0.8x6.35mm
- 44x0.8x6.35mm
- 50x0.8x6.35mm
- 60x0.8x6.35mm



Arbor: 3.17mm/6mm

- 4PC Saw blades:
- 2PC: 50x0.8x6.35mm
- 2PC: 44x0.8x6.35mm
- 2PC Arbor: 3.17mm/6mm



92440

6PC

6PC H.S.S. SAW BLADE SETS

- 5PC Saw blades: 22x0.4x6.35mm, 25x0.5x6.35mm, 32x0.6x6.35mm, 35x0.7x6.35mm, 44x0.8x6.35mm
- 1PC Arbor: 3.17mm/6mm



92441

Bright



92442

Hex Shank



92443

Black

3PC CUTTING BLADE SET

- HSS saw blade: 54.8x11.1mmx30T
- Diamond cutting wheel: 54.8x11.1mm
- TCT saw blade: 54.8x11.1mmx18T



92444

7PCS H.S.S. SAW BLADE SETS

- 6PC Saw blades: 22mm(7/8"), 25mm(1"), 32mm(1.1/4"), 35mm(1.1/2"), 44mm(1.3/4"), 50mm(2")
- 1PC Arbor: 3.17mm/6mm



92445

Bright



92446

Black



92447

8PC H.S.S. SAW BLADE SETS

- 6PC Saw blades: 22x0.4x6.35mm, 25x0.5x6.35mm, 32x0.6x6.35mm, 35x0.7x6.35mm, 44x0.8x6.35mm
- 2PC Arbor: 3.17mm, 6mm



92448

Bright



92449

Black



92450

TIN coating

METAL SHEET NIBBLER CUTTER

- Cutting iron plate 1.8mm max. stainless steel plate 1.2mm max.
- Cutting copper, aluminum plate, plastic and plywood 2.0mm max.



92451

METAL SHEET NIBBLER CUTTER SET

- 1PC double-headed cutter.
- 1PC combination hex key.
- 1PC 6-35mm spiral flute step drill.
- 1PC 5" automatic center punch.



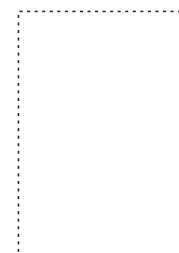
92452

New



DRILL SHEAR

- Maximum shearing capacity:
- Iron sheet 0.3-1.2mm
- Steel plate 0.8-1mm
- Copper plate 1.5mm
- Aluminum plate 1.5mm



92453

SAW CUTTER



- 1PC double-headed cutter
- 1PC mounting screw
- 1PC handle
- 1PC hex key
- 1PC 15cm saw blade

92454

MULTI-PURPOSE SAW CUTTER



- Cutting or sawing metal sheet, metal rods and slices, plastic, fiberglass, woods, etc.
- Cutting or sawing any thin metal into any shape.

92455

SAW CUTTER

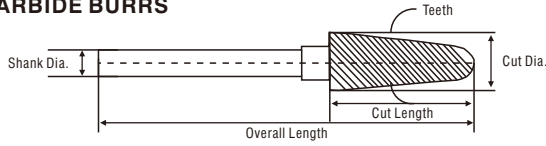


92456

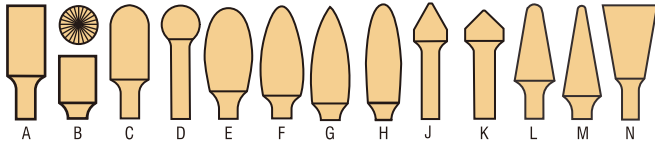


TIPS

CARBIDE BURRS



TIP: How to order



CYLINDER SHAPE WITHOUT ENDUCT

Type A



Single Blade



Double Blade



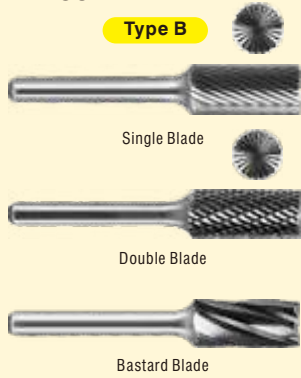
Bastard Blade

92457

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
A0313M03	3	13	3	38/50
A0413M04	4	13	4	50
A0413M03	4	13	3	40
A0513M03	5	13	3	40
A0613M03	6	13	3	48
A0616M06	6	16	6	56
A0820M06	8	20	6	60
A1020M06	10	20	6	60
A1225M06	12	25	6	65
A1425M06	14	25	6	65
A1625M06	16	25	6	65
A1825M06	18	25	6	65
A2025M06	20	25	6	65
A2525M06	25	25	6	65

CYLINDER SHAPE WITH ENDCUT

Type B



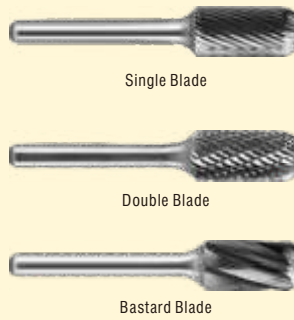
Bastard Blade

92458

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
B0313M03	3	13	3	38/50
B0413M04	4	13	4	50
B0413M03	4	13	3	40
B0513M03	5	13	3	40
B0613M03	6	13	3	48
B0616M06	6	16	6	56
B0820M06	8	20	6	60
B1020M06	10	20	6	60
B1225M06	12	25	6	65
B1425M06	14	25	6	65
B1625M06	16	25	6	65
B1825M06	18	25	6	65
B1825M06	19	25	6	65
B2525M06	25	25	6	65

BALL NOSED CYLINDER

Type C



Bastard Blade

92459

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
C0313M03	3	13	3	38/50
C0413M04	4	13	4	50
C0413M03	4	13	3	40
C0513M03	5	13	3	40
C0613M03	6	13	3	48
C0616M06	6	16	6	56
C0820M06	8	20	6	60
C1020M06	10	20	6	60
C1225M06	12	25	6	65
C1425M06	14	25	6	65
C1625M06	16	25	6	65
C1825M06	18	25	6	65
C2025M06	20	25	6	65
C2525M06	25	25	6	65

BALL SHAPE

Type D



Bastard Blade

92460

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
D0303M03	3	3	3	38/50
D0403M04	4	3	4	50
D0403M03	4	3	3	40
D0504M03	5	4	3	40
D0605M03	6	5	3	48
D0605M06	6	5	6	45
D0807M06	8	7	6	47
D1009M06	10	9	6	49
D1210M06	12	10	6	51
D1412M06	14	12	6	52
D1614M06	16	14	6	54
D1816M06	18	16	6	56
D2018M06	20	18	6	56
D2523M06	25	23	6	56

OVAL SHAPE

Type E



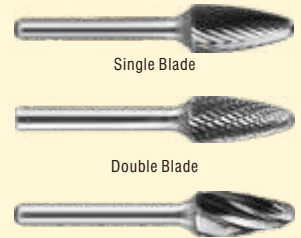
Bastard Blade

92461

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
E0303M03	3	7	3	38/50
E0407M03	4	7	3	40
E0508M03	5	8	3	40
E0610M03	6	10	3	48
E0610M06	6	10	6	50
E0813M06	8	13	6	53
E1016M06	10	16	6	56
E1220M06	12	20	6	60
E1425M06	14	22	6	62
E1625M06	16	25	6	65
E1925M06	20	25	6	65

TREE SHAPE WITH RADIUS END

Type F



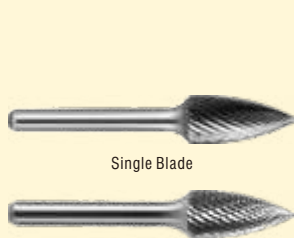
Bastard Blade

92462

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
F0313M03	3	13	3	38/50
F0413M04	4	13	3	40
F0513M03	5	13	3	40
F0613M03	6	13	3	48
F0618M03	6	18	6	50
F0820M06	8	20	6	58
F1020M06	10	20	6	58
F1225M06	12	25	6	60
F1425M06	14	25	6	65
F1625M06	16	25	6	65
F1925M06	19	25	6	65
F1938M06	19	38	6	65

POINTED TREE SHAPE

Type G



Double Blade

92463

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
G0313M03	3	13	3	38/50
G0413M04	4	13	3	40
G0513M03	5	13	3	40
G0613M03	6	13	3	48
G0618M03	6	18	6	50
G0817M06	8	17	6	58
G1020M06	10	20	6	57
G1225M06	12	25	6	60
G1425M06	14	25	6	65
G1625M06	16	25	6	65
G1825M06	19	25	6	65
G1938M06	19	38	6	65

FLAME SHAPE

Type H



Single Blade



Double Blade

92464

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
H0307M03	3	7	3	38/50
H0413M04	4	13	3	40
H0513M03	5	13	3	40
H0613M03	6	13	3	48
H0820M06	8	20	6	65
H1025M06	10	25	6	65
H1232M06	12	32	6	65
H1636M06	16	36	6	65
H1941M06	19	41	6	65

60° CONE SHAPE

Type J



Single Blade



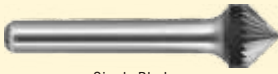
Double Blade

92465

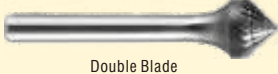
Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
J0605M06	6	5	6	50
J0807M06	8	7	6	52
J1008M06	10	8	6	53
J1210M06	12	10	6	55
J1613M06	16	13	6	56
J1917M06	19	17	6	65
J2523M06	25	23	6	65

90° CONE SHAPE

Type K



Single Blade



Double Blade

92466

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
K0603M06	6	3	6	50
K0804M06	8	4	6	52
K1005M06	10	5	6	53
K1206M06	12	6	6	55
K1608M06	16	8	6	56
K1910M06	19	10	6	65
K2512M06	25	12	6	65

TAPER SHAPE WITH RADIUS

Type L



Single Blade



Double Blade

92467

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
L0313M03	3	13	3	50
L0413M04	4	13	4	40
L0412M03	4	13	3	40
L0513M03	5	13	3	48
L0613M03	6	13	3	56
L0616M06	6	16	6	62
L0822M06	8	22	6	65
L1025M06	10	25	6	68
L1633M06	12	28	6	73

CONE SHAPE

Type M



Single Blade



Double Blade

92468

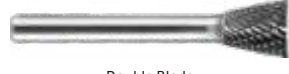
Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
M0313M03	3	13	3	38/50
M0413M04	4	13	4	50
M0413M03	4	13	3	40
M0513M03	5	13	3	40
M0613M03	6	13	3	48
M0618M06	6	16	6	58
M0817M06	8	17	6	57
M1020M06	10	20	6	60
M1225M06	12	25	6	65
M1425M06	14	25	6	65
M1625M06	16	25	6	65

INVERTED CONE SHAPE

Type N



Single Blade



Double Blade

92469

Model No.	Cut Dia. (mm)	Cut Length (mm)	Shank Dia. (mm)	Overall Length (mm)
N0305M03	3	5	3	38/50
N0406M03	4	6	3	40
N0507M03	5	7	3	40
N0607M03	6	7	3	48
N0607M06	6	7	6	58
N0807M06	8	7	6	57
N1005M06	10	5	6	60
N1205M06	12	5	6	65
N1213M06	14	13	6	65
N1606M06	16	6	6	65
N1616M06	16	16	6	65

CARBIDE BURR SET

4PC

92470

Type F, C, D

8PC

92471

Type A, C, D, F

10PC

92472

Type A, C, D, E, F, G, H, L, M, N

10PC

92473

Type A, C, F, D, L, E, H

CARBIDE BURR SET



5PC

92474

Type G, L, B, F, C



5PC
Alu. Use

92475

Type A, C, D, E, F



10PC

92476

Type L, G, F, E, C, B, D



8PC

92477

Type B, C, E, F, D, G, L, H



10PC

92478

Type N, M, L, H, G, F, E, D, C, B

34 METAL WORKING

FOUR FLUTES SINGLE END MILLS

DIN844



92479

Size (mm)	Shank Dia.	Standard Size		Long Length Size	
		Flute Length	Overall Length	Flute Length	Overall Length
3.0	6.0	8	52	12	56
4.0	6.0	11	55	19	63
5.0	6.0	13	57	24	68
6.0	6.0	13	57	24	68
7.0	10.0	16	66	30	80
8.0	10.0	19	69	38	88
9.0	10.0	19	69	38	88
10.0	10.0	22	72	45	95
11.0	12.0	22	79	45	102
12.0	12.0	26	83	53	110
14.0	12.0	26	83	53	110
16.0	16.0	32	92	63	123
18.0	16.0	32	92	63	123
20.0	20.0	38	104	75	141
22.0	20.0	38	104	75	141
25.0	25.0	45	121	90	166
28.0	25.0	45	121	90	166
30.0	25.0	45	121	90	166
32.0	32.0	53	133	106	186
36.0	32.0	53	133	106	186
40.0	40.0	63	155	125	217
45.0	40.0	63	155	125	217
50.0	50.0	75	177	150	252
56.0	50.0	75	177	150	252
63.0	63.0	90	202	180	292

TWO FLUTES SINGLE END MILLS

DIN327



92480

Size (mm)	Shank Dia.	Standard Size		Long Length Size	
		Flute Length	Overall Length	Flute Length	Overall Length
3.0	6.0	5.0	49	8	52
4.0	6.0	7.0	51	11	55
5.0	6.0	8.0	52	13	57
6.0	6.0	8.0	52	13	57
7.0	10.0	10.0	60	16	66
8.0	10.0	11.0	61	19	69
9.0	10.0	11.0	61	19	69
10.0	10.0	13.0	63	22	72
11.0	12.0	13.0	70	22	79
12.0	12.0	16.0	73	26	83
14.0	12.0	16.0	73	26	83
16.0	16.0	19.0	79	32	92
18.0	16.0	19.0	79	32	92
20.0	20.0	22.0	88	38	104
22.0	20.0	22.0	88	38	104
25.0	25.0	26.0	102	45	121
26.0	25.0	26.0	102	45	121
28.0	25.0	26.0	102	45	121
30.0	25.0	26.0	102	45	121
32.0	32.0	32.0	112	53	133

THREE FLUTES SINGLE END MILLS

DIN844B



92481

Cutting Dia. (mm)	Shank Dia.	Flute Length	Overall Length
3.0	6.0	8	52
4.0	6.0	11	55
5.0	6.0	13	57
6.0	6.0	13	57
8.0	10.0	19	69
10.0	10.0	22	72
12.0	12.0	26	83
14.0	12.0	26	83
16.0	16.0	32	92
18.0	16.0	32	92
20.0	20.0	38	104

SINGLE FLUTE END MILLS



92482

Cutting Dia. (mm)	Shank Dia.	Flute Length	Overall Length
3.0	8.0	12	60
4.0	8.0	12	60
5.0	8.0	14	60
6.0	8.0	14	60
8.0	8.0	14	80
10.0	8.0	14	80

10PC END MILL SET



92483

1/4", 3/8", 1/2", 5/8", 3/4"

92484

6, 8, 10, 12, 14mm
2 & 4 flutes 5 pcs each

10PC END MILL SET



92485

3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

92486

3, 4, 5, 6, 8, 10, 12, 14, 16, 20mm

12PC END MILL SET



92487

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

92488

4, 5, 6, 8, 10, 12mm
2 & 4 flutes 6 pcs each

20PC END MILL SET



92489

1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 9/16", 5/8", 11/16", 3/4"

92490

3, 4, 5, 6, 8, 10, 12, 14, 18, 20mm
2 & 4 flutes 10 pcs each

20PC END MILL SET



92491

3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

92492

4, 5, 6, 8, 10, 12, 14, 16, 18, 20mm
2 & 4 flutes 10 pcs each

20PC END MILL SET



92493

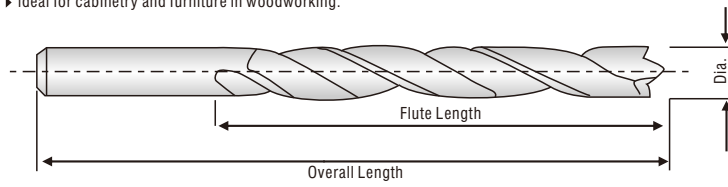
1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 9/16", 5/8", 11/16", 3/4"

92494

3, 4, 5, 6, 8, 10, 12, 14, 18, 20mm
2 & 4 flutes 10 pcs each

WOOD WORKING DRILLS

- ▶ Drilling accurate and clean holes.
- ▶ Extra wide flutes for fast wood chip removal.
- ▶ Ideal for cabinetry and furniture in woodworking.



92495

WOOD DRILL WITH SCREW HEAD



92496

REDUCED SHANK WOOD DRILL BIT



92497



92498

Edge polish



92499

Double flutes

Dia. (mm)	Flute Length (mm)	Overall Length (mm)
3.0	32	60
4.0	43	75
5.0	51	85
6.0	54	92
7.0	60	100
8.0	71	115
9.0	71	115
10.0	82	120
11.0	90	140
12.0	90	140
13.0	95	150
14.0	95	150
15.0	100	160
16.0	100	160
18.0	115	170
20.0	130	180
22.0	150	200
24.0	150	200
26.0	170	250
28.0	170	250
30.0	180	260
32.0	195	280
34.0	200	285
36.0	205	290
38.0	210	295
40.0	215	300

H.S.S. WOOD DRILL BIT



92500

Dia. (mm)	Flute Length (mm)	Overall Length (mm)
3.0	33	74
4.0	43	88
5.0	52	100
6.0	57	107
8.0	75	117

5PC WOOD DRILL SETS

4, 5, 6, 8, 10mm



92501



92502

Edge polish



92503



92504

Edge polish

WOOD DRILL SETS



3PC

92505

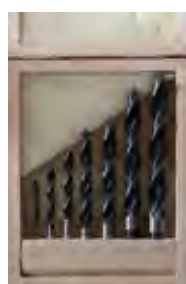
6, 8, 10mm with stop collar



6PC

92506

3, 4, 5, 6, 7, 8mm



7PC

92507

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



8PC

92508

Edge polish 3, 4, 5, 6, 7, 8, 9, 10mm



8PC

92509

3, 4, 5, 6, 7, 8, 9, 10mm



8PC

92510

3, 4, 5, 6, 7, 8, 9, 10mm



8PC

92511

3, 4, 5, 6, 7, 8, 9, 10mm

WOOD DRILL SETS



9PC

924512

3, 4, 5, 6, 7, 8, 9, 10, 12mm



15PC

92513

3, 3, 3, 3.5, 3.5, 4, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 10mm

47PC DOWEL & DRILL BIT SET



92514

3PC wood drill: 6, 8, 10mm
44PC dowel pins: 6mmx18PC, 8mmx14PC, 10mmx12PC

50PC DOWEL PIN & DRILL



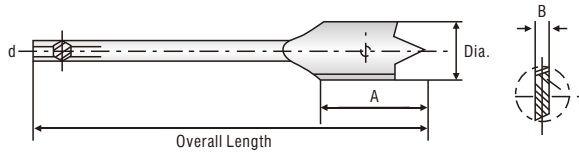
92515

1PC: 8mm drill bit
50PC: 8x40mm fluted wood

36 WOOD WORKING

WOOD FLAT DRILL BITS

- ▶ Cutting straight or angled holes in hardwood and softwood.
- ▶ Precision ground on all surfaces for accurate wood drilling.
- ▶ Overall length: 150, 300, 400mm



Types of cutting edge

I	Flat cutting edge	
II	Flat cutting edge II	
III	Extended cutting spurs	
IV	Grooved cutting edge	

mm	Dia.		A (mm)	B (mm)	d (mm)
	Inch				
6.0	1/4		32	2.2	5.0
7.0	9/32		32	2.2	5.0
8.0	5/16		32	2.2	6.5
9.0	11/32		35	2.2	6.5
10.0	3/8		35	2.4	6.5
11.0	7/16		35	2.4	7.0
12.0	15/32		38	2.4	7.0
14.0	9/16		38	2.4	7.0
16.0	5/8		38	2.5	7.0
18.0	11/16		38	2.5	7.0
20.0	2/32		38	2.6	7.0
22.0	7/8		38	2.6	7.0
25.0	1		45	2.6	7.0
28.0	1.1/8		45	2.8	7.0
32.0	1.1/4		54	2.8	8.0
35.0	1.3/8		54	2.8	8.0
40.0	1.9/16		54	2.8	8.0

Types of finish

	Polishing	92516
	Black	92517
	TiN coating	92518

WOOD FLAT BIT EXTENSION BAR

	92519
	92520

152, 305mm hex shank

6PC WOOD FLAT BIT SETS

3/8", 1/2", 5/8", 3/4", 7/8", 1"



92521

92522

6PC WOOD FLAT BIT SETS

10, 12, 16, 18, 20, 25mm



92523

92524

WOOD FLAT DRILL SETS



7PC

92525

10, 12, 16, 19, 22, 25, 32mm



8PC

92526

10, 12, 14, 16, 18, 20, 22, 25mm

WOOD FLAT DRILL BIT SETS



8PC

92527

- ▶ 12, 16, 18, 20, 22, 25, 28, 32mm
- ▶ 152mm shank for longer life tapering to 1/4" hex.

10PC

92528

6, 10, 13, 16, 19, 22, 25, 32mm



13PC

92529

6, 8, 10, 12, 13, 14, 16, 18, 20, 22, 25, 30, 35mm



16PC

92530

6, 8, 10, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 32, 35, 38mm

DRILL & BIT SETS



31PC

92531



40PC

92532



52PC

92533

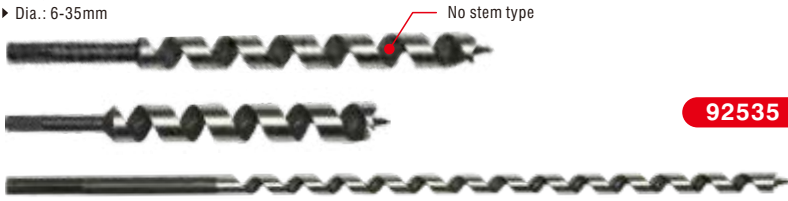


53PC

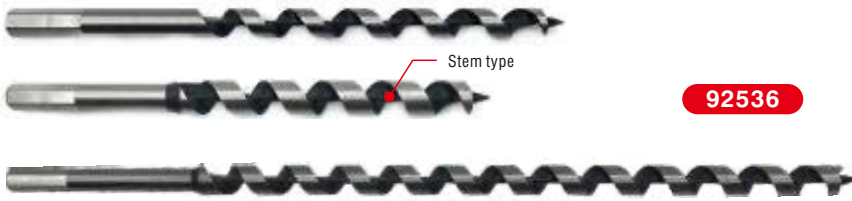
92534

WOOD AUGER DRILL BITS

- ▶ Single wing cutting edge makes faster, discharging quicker, smoother while in drilling.
- ▶ The drilling is accurate, simple, quick and easy. Hexagon auger bit.
- ▶ Length: 230mm-460mm
- ▶ Dia.: 6-35mm



92535



92536

Types of finish



MUSHROOM DRILL



8.5, 12, 12.5, 12.7mm

AUGER BIT



Overall length: 160mm
Diameter: 26mm

6PC AUGER BIT SETS



92544

(10, 12, 14, 16, 18, 20)x230mm



92545

(10, 12, 14, 16, 18, 20)x230mm
SDS-plus shank



92546

(10, 12, 14, 16, 18, 20)x460mm



92547

(10, 12, 14, 16, 18, 20)x460mm

AUGER BIT SETS



7PC

92548

(10, 12, 14, 16, 18, 20, 22)x230mm



8PC

92549

(6, 8, 10, 12, 14, 16, 18, 20)x230mm



8PC

92550

(10, 12, 14, 16, 18, 20, 22, 24)x230mm



8PC

92551

(10, 12, 14, 16, 18, 20, 22, 24)x460mm

WOOD AUGER DRILL BITS



92552

Three flutes



92553

Four flutes



WOOD AUGER DRILL BITS



9PC

92554

- ▶ (10, 12, 14, 16, 18, 20, 22, 25mm)x165mm
- ▶ Ext. Adapter 300mm



11PC

92555

- ▶ Dia.: (10, 12, 14, 16, 18, 20, 22, 25mm)x165mm
- ▶ 1PC 200mm extension rod
- ▶ 1PC extension rod head, 1PC conversion head

COUNTERSINK BIT SET

- ▶ Drill material: steel #45
- ▶ Chamfer body material: steel #45.
- ▶ Countersink drill bits in woodworking.

Size (mm)	Chamfer Dia. (mm)	Overall Length
3	15.8	60
4	15.8	75
5	15.8	85
6	15.8	93
7	15.8	100
8	15.8	110
10	15.8	120



4PC
92556



7PC
92557

4PC COUNTERSINK BIT SET

- ▶ Drill material: HSS
- ▶ Chamfer body material: steel #45.
- ▶ Countersink drill bits in woodworking.

No.	Size (mm)	Overall Length
#6	2.38	55
#8	2.78	60
#10	3.175	63
#12	3.56	65



92558

5PC COUNTERSINK BIT SET

- ▶ Drill material: HSS (Tin-coated).
- ▶ Chamfer body material: steel #45.
- ▶ Countersink drill bits in woodworking.

No.	Size (mm)	Overall Length
#6	2.38	54
#8	2.78	54
#10	3.175	54
#12	3.56	54
#14	3.97	54

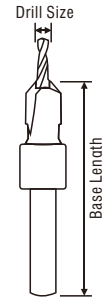


92559

COUNTERSINK DRILLS

- ▶ Drill material: HSS

Drill Size (mm)	Base Length (mm)
2.0	55
2.4	55
2.8	55
3.2	55
3.5	55
4.0	55
4.5	55



92560

4PC COUNTERSINK DRILL BIT SET



92561
3, 4, 5, 6mm

7PC COUNTERSINK DRILL BIT SET



92562
3, 3.5, 4, 4.5, 5, 5.5, 6mm

92563
1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32"

4PC COUNTERSINK DRILL BIT SET

- ▶ Taper drill material: HSS
- ▶ Chamfer body material: #45 steel
- ▶ Countersink drill bits in wood working.



92564

No.	Size (mm)	Overall Length
#6	3.0	65
#10	3.5	70
#13	4.0	80
#16	4.5	90

SCREW PILOT DRILLS



92565

2.0, 2.4, 2.8, 3.2, 3.5, 4.0, 4.5mm



92566

2.8, 3.0, 3.2, 3.5, 3.0, 3.5, 4.0, 4.5mm

180° STEP DRILLS

DIN8376



92567

For Thread	Step Dia. (mm)	Countersinker Dia. (mm)	Step Length (mm)	Flute Length (mm)	Overall Length (mm)
M3	3.4	6.0	9.0	57.0	93.0
M4	4.5	8.0	11.0	75.0	117.0
M5	5.5	10.0	13.0	87.0	133.0
M6	6.6	11.5	15.0	94.0	142.0
M8	9.0	15.0	19.0	142.0	169.0
M10	11.0	19.0	23.0	135.0	191.0

Screw size	Minor Dia.	Major Dia.	Step Length	Flute Length	Overall Length
1/4"	9/32"	13/32"	11/16"	3.7/8"	5.1/4"
5/18"	11/32"	1/2"	3/4"	4.1/2"	6"
3/8"	13/32"	19/32"	7/8"	5.3/16"	7.1/8"
7/16"	15/32"	11/16"	1"	5.5/8"	7.5/8"
1/2"	17/32"	25/32"	1"	3.1/4"	5.1/8"
5/8"	21/32"	31/32"	1"	3.7/8"	5.7/8"

90° STEP DRILLS

DIN8374



92568

For Thread	Step Dia. (mm)	Countersinker Dia. (mm)	Step Length (mm)	Flute Length (mm)	Overall Length (mm)
M3	3.2	6.0	9.0	57.0	93.0
M4	4.3	8.0	11.0	75.0	117.0
M5	5.3	10.0	13.0	87.0	133.0
M6	6.4	11.5	15.0	94.0	142.0
M8	8.4	15.0	19.0	142.0	169.0
M10	10.5	19.0	23.0	135.0	198.0

Screw size	Minor Dia.	Major Dia.	Step Length	Flute Length	Overall Length
1/4"	9/32"	13/32"	11/16"	3.7/8"	5.1/4"
5/18"	11/32"	1/2"	3/4"	4.1/2"	6"
3/8"	13/32"	19/32"	7/8"	5.3/16"	7.1/8"
7/16"	15/32"	11/16"	1"	5.5/8"	7.5/8"
1/2"	17/32"	25/32"	1"	3.1/4"	5.1/8"
5/8"	21/32"	31/32"	1"	3.7/8"	5.7/8"

FORSTNER DRILL BITS

Suitable for carpentry to open holes.



92569

- ▶ 10-50mm
- ▶ Single teeth

92570

- ▶ 6-54mm
- ▶ Multi-teeth

FORSTNER DRILL BIT SETS



5PC

92571

- ▶ 15, 20, 25, 30, 35mm
- ▶ Single teeth



Blow case
92572

Alu. case
92573

92573

- ▶ 15, 20, 25, 30, 35mm
- ▶ Multi-teeth



5PC

92574

- ▶ 15, 20, 25, 30, 35mm
- ▶ Multi-teeth

7PC

92575

- ▶ 6, 10, 12, 16, 19, 22, 25mm

92576

- ▶ 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1"



10PC

92577

- ▶ 10, 15, 20, 25, 30, 35, 40mm
- ▶ 1PC SDS plus to hex adaptor
- ▶ 1PC 1/2" to hex adaptor
- ▶ 1PC hex extension

New

TCT FORSTNER BITS



92578

- ▶ 10-50mm

92579

- ▶ Hex Shank

92580

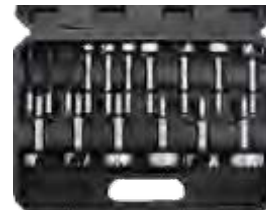
- ▶ 35mm
- ▶ with stop

16PC FORSTNER BIT SETS



92581

- ▶ 6, 10, 12, 16, 18, 22, 25, 28, 32, 35, 38, 41, 45, 48, 51, 54mm



92582

- ▶ 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1.1/8", 1.1/4", 1.3/8", 1.1/2", 1.5/8", 1.3/4", 1.7/8", 2", 2.1/8"

5PC TCT FORSTNER BIT SETS

- ▶ 15, 20, 25, 30, 35mm



92583



92584

- ▶ With scale and deep stop

4PC PLUG CUTTER DRILL BITS

- ▶ 1/4", 3/8", 1/2", 5/8"
- ▶ 6, 10, 13, 16mm

92585

92586

CIRCLE HOLE CUTTER SET

- ▶ 30-200mm, 20-250mm, 30-300mm



92587

- ▶ SDS type



92588

- ▶ Flat type (tri-angle type)

- ▶ 1PC tape measure, 1PC pen
- ▶ 1PC hex key wrench: 4mm
- ▶ 1PC Positioning center drill: 8x72
- ▶ 1PC dust cover, 2PC blade
- ▶ 5PC solid center bit: 5, 6, 8, 10mm
- ▶ 5PC Masonry drill set: 5, 6, 8, 10mm

TCT HOLE CUTTER SET

- ▶ 1PC Delta shank adapter: 182mm
- ▶ 2PC SDS extension rod: 92, 182mm
- ▶ 1PC Positioning center drill: 6x100mm
- ▶ 1PC spanner, 1PC shield: 120mm

92589

- ▶ 75, 95, 150mm

HOLLOW MORTISE DRILL SETS

- ▶ Great for drilling square holes in wood.
- ▶ More efficient for accurate and clean cut on wood.



5PC

92590

- ▶ 6, 10, 13, 16mm

5PC

92591

- ▶ 1/4", 5/16", 3/8", 1/2", 5/8"

ADJUSTABLE PLANE TYPE HOLE CUTTER



30-300mm

30-200mm

30-120mm

92592

- ▶ H.S.S. blade, black finish



40-300mm

40-200mm

40-120mm

92593

- ▶ Carbide blade, black finish



40-300mm

40-200mm

40-120mm

92594

- ▶ Carbide blade, zinc coated

40 WOOD WORKING

4CLAW LOCK INSTALLATION KIT

- ▶ 4Claw
- ▶ Hole cutter size: 48mm, 54mm
- ▶ Auger drill bit: 22mm, 54mm



92595

HINGE WOOD DRILL BIT

- ▶ Works equally well on metal, wood or plastic.
- ▶ Change bits without re-chucking.



92596

4PC: 5/64", 7/64", 9/64", 11/64"



92597

7PC: 5/64", 7/64", 9/64", 11/64", 13/64", 5mm, 1/4"

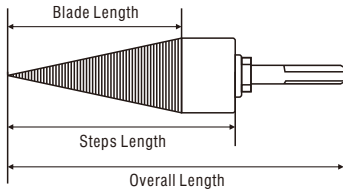
DOOR LOCK INSTALLATION KIT

- ▶ Suitable for doors with a 35-45mm thickness
- ▶ 2 standard backset capacities of 60 or 70mm



92598

CHOPPING WOOD DRILL



92599

Size (mm)	Blade Length	Steps Length	Overall Length
32	71	98	146
38	77	111	159
42	80	110	158
45	83	120	168
50	88	115	164



92600

Quick Change Hex Shank

92601

Hex Shank

92602

SDS Plus Shank

92603

SDS Plus Shank

ADJUSTABLE BI-METAL HOLE SAW SET



92604

19-127mm

CUTTING DRILL BITS H.S.S.



92605



92606

TiN-coating

Size(mm)	Flute Length	Overall Length
3	37	60
4	40	70
5	45	80
6	53	85
7	55	87
8	59	95
9	65	100
10	75	110

CUTTING DRILL BIT SETS

3, 5, 6, 8mm



4PC

92607



4PC

92608

6PC COMBINED DRILL SET

- ▶ Routing drill: 6mm
- ▶ Step drill: 4-12mm
- ▶ Countersink: 12,16,19mm
- ▶ Adaptor: 1/4"

New



92609

CUTTING DRILL BIT SETS

3, 4, 5, 6, 6.5, 8mm



6PC

926010



6PC

92611

Hex shank



6PC

92612

7PC COMBINED DRILL SET

- ▶ Cutting drill: 6, 8, 10mm
- ▶ Step drill: 4-12x5, 4-12 x9, 4-20 x9mm
- ▶ Countersink: 20.5mm



92613

4PC SCREW REMOVER SET

- ▶ Cutting drill: 8mm
- ▶ Screw remover: #1, #2, #3



92614

WOOD HOLE SAW



92615

- ▶ Cutting depth 25mm: 19-152mm
- ▶ Cutting depth 40mm: 25-83mm



1/4"Shank 3/8"Shank

92616

MULTI-BLADE HOLE SAWS



Cutting depth: 25mm
7PC

92617

- 1"(26mm), 1.1/4"(32mm), 1.1/2"(38mm), 1.3/4"(45mm), 2"(50mm), 2.1/4"(56mm), 2.1/2"(63mm)

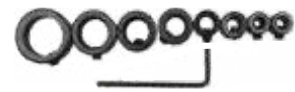


Cutting depth: 50mm
7PC

92618

8+1PC STOP COLLAR SET

- ▶ Stop collars size: 3, 4, 5, 6, 8, 10, 12, 16mm
- ▶ 1PC hex key



92619

8PC DOWEL CENTER TRANSFER PLUGS SET

- ▶ A. 1/4", 5/16", 3/8" and 1/2"diameter x 2
- ▶ B. 4, 6, 8, 10mm x 2



92620

HOLE SAW SETS

New



3PC

92621

- ▶ 54mm
- ▶ 1PC wood flat bit: 22mm
- ▶ 1PC arbor



3PC

92622



4PC

92623

- ▶ 22, 25, 54mm
- ▶ 1PC arbor



5PC

92624

- ▶ 32, 38, 44, 54mm
- ▶ 1PC arbor



5PC

92625

- ▶ 32, 38, 51, 54mm
- ▶ 1PC arbor



6PC

92626

- ▶ 32, 38, 51, 54mm
- ▶ 1PC arbor, 1PC hex key

6PC

92627

- ▶ 32, 38, 51, 54mm
- ▶ 1PC hex key: 2.5mm
- ▶ 1PC arbor

HOLE SAW SETS



7PC

92628

- ▶ 76, 88, 102, 127mm
- ▶ 1PC arbor, 1PC hex key wrench
- ▶ 1PC drive plate



7PC

92629

- ▶ 32, 38, 44, 54mm
- ▶ 2PC wood flat bit: 20, 22mm
- ▶ 1PC arbor



8PC

92630

- ▶ 32, 38, 44, 54mm
- ▶ 3PC wood flat bit: 13, 19, 25mm
- ▶ 1PC arbor



9PC

92631

- ▶ 51, 60, 65, 72, 75, 86mm
- ▶ 1PC arbor, 1PC hex key wrench
- ▶ 1PC drive plate



9PC

92632

- ▶ 22, 41, 54, 57, 60, 65, 67mm
- ▶ 2PC arbor

HOLE SAW SETS

8PC

92633

- ▶ 5PC hole saw: 64, 76, 89, 102, 127mm
- ▶ 1PC arbor
- ▶ 1PC hex key wrench
- ▶ 1PC drive plate

9PC

92634

- ▶ 2"(51mm), 2.3/8"(60mm), 2.1/2"(65mm), 2.3/8"(72mm), 3"(75mm), 3.3/8"(86mm)
- ▶ 1PC arbor, 1PC hex key wrench
- ▶ 1PC drive plate

11PC

92635

- ▶ 8PC hole saw: 19-64mm
- ▶ 2PC arbor
- ▶ 1PC hex key wrench

12PC

92636

- ▶ 9PC hole saw: 19, 22, 29, 38, 44, 51, 60, 67, 82mm
- ▶ 2PC arbor
- ▶ 1PC hex key wrench

16PC

92637

- ▶ 12PC hole saw: 19-127mm
- ▶ 2PC arbor
- ▶ 1PC hex key wrench
- ▶ 1PC drive plate

42 WOOD WORKING

WOOD BURR ROTARY FILE SETS

Shank size: 6mm
Working length: 30-35mm



5PC

92638

Sandblasted



5PC

92639

Black



10PC

92640

6PC WOOD BURR ROTARY FILE SET



92641

H.S.S.

WOOD RASPS

New



M10: 40mm
M14: 25, 30, 40mm

92642

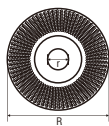


M10: 20, 25, 30mm
M14: 20, 25, 30mm

92643

WOOD RASP DISCS

R: 85, 100, 110, 125mm
r: 16, 22.25, 22mm



92644

Flat



92645

Cambered



92646

Beveled



92647



92648

WOOD RASP DISCS

R: 85, 100, 110, 125mm
r: 16, 22.25, 22mm



92649



92650



92651



92652

Size: 125x22mm



92653

Size: 65x16mm

WOOD SHAPING DISCS



92654

Size: 90x16mm



92655

Size: 90x16mm



92656

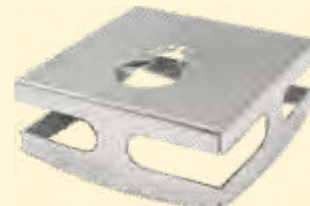
Size: 90x16mm

SQUARE SLOT CUTTERS



92657

Size: 95x60mm



92658

Size: 95x95mm

ROUTER BIT SETS



5PC

92659



6PC

92660



8PC

92661



12PC

92662



12PC

92663

ROUTER BIT SETS



15PC

92664



18PC

92665



24PC

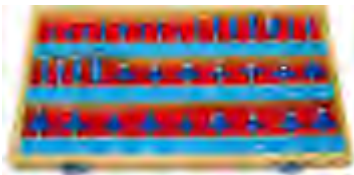
92666



24PC

92667

ROUTER BIT SETS



35PC

92668



35PC

92669



40PC

92670



50PC

92671

ROUTER BIT SETS



72PC

92672

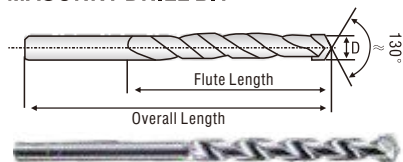


100PC

92673

44 CONSTRUCTION TOOLS

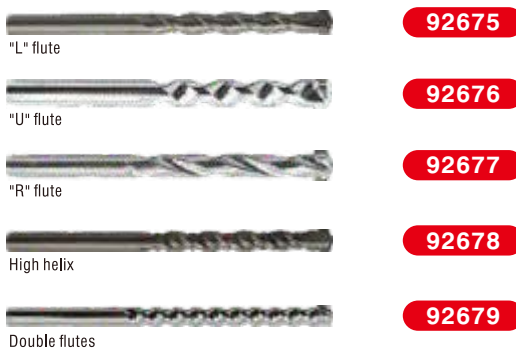
MASONRY DRILL BIT



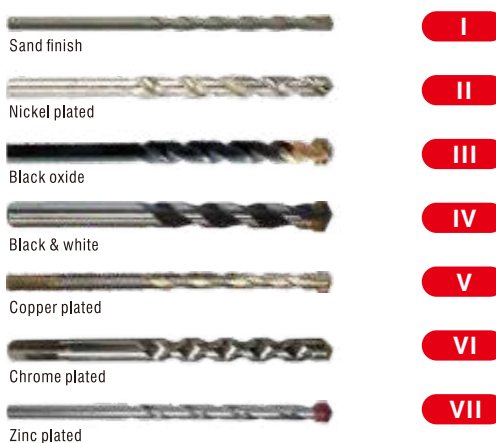
92674

Diameter	Flute Length (mm)	Overall Length (mm)
3	36	60
4	45	75
5	51	85
6	60	100
7	60	100
8	72	120
9	72	120
10	72	120
12	90	150
13	90	150
14	90	150
16	90	200
6	120	200
8	120	200
10	120	200
12	120	200
14	120	200
16	120	200
18	120	200
6	180	300
8	180	300
10	180	300
12	180	300
14	180	300
16	180	300
18	180	300
6	240	400
8	240	400
10	240	400
12	240	400
14	240	400
16	240	400
18	240	400

Type of flute



Types of finish



5PC MASONRY DRILL BITS

4, 5, 6, 8, 10mm



92680

92681

6PC MASONRY DRILL BITS



92682

3, 4, 5, 6, 7, 8mm

92683

3, 3.5, 4, 5, 6, 6.5mm

8PC MASONRY DRILL BITS

3, 4, 5, 6, 7, 8, 9, 10mm



92684

92685

92686

MASONRY DRILL BITS



11PC

92687

3, 3, 4, 4, 5, 5, 6, 6, 8, 8, 10mm



15PC

92688

3, 3, 3, 4, 4, 4, 5, 5, 5, 6, 6, 8, 8, 10, 10mm

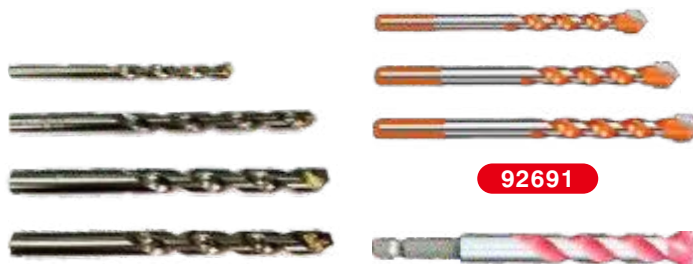
MASONRY DRILL BIT HEX SHANK



92689

Dia. (mm)	Overall Length (mm)
4.0	88
5.0	99
6.0	114
7.0	118
8.0	120
10.0	120

MULTIPURPOSE DRILLS



92691

92690

92692

Hex shank

Dia. (mm)	Overall Length (mm)
3.0	64
4.0	64
5.0	69
6.0	69
8.0	72
10.0	72
12.0	76
14.0	93
16.0	96
6.0	101
8.0	104
10.0	123
12.0	124

SDS-PLUS HAMMER DRILL BITS



"U" flute

92693



"L" flute

92694



Double flutes

92695

Blade types



Single Tip



Cross Tip



W Tip

Overall Length	110	160	210	260	310	350	400	450	500	600	800	1000
Flute Length	50	100	150	200	250	290	340	390	440	540	740	940
Diameter												
4		●										
5	●	●	●	●								
6	●	●	●	●	●	●	●	●				
8	●	●	●	●	●	●	●	●	●	●	●	
10	●	●	●	●	●	●	●	●	●	●	●	●
12	●	●	●	●	●	●	●	●	●	●	●	●
14		●	●	●	●	●	●	●	●	●	●	●
16		●	●	●	●	●	●	●	●	●	●	●
18		●	●	●	●	●	●	●	●	●	●	●
20		●	●	●	●	●	●	●	●	●	●	●
22		●	●	●	●	●	●	●	●	●	●	●
24			●	●	●	●	●	●	●	●	●	●
25			●	●	●	●	●	●	●	●	●	●
26			●	●	●	●	●	●	●	●	●	●
28			●	●	●	●	●	●	●	●	●	●
30			●	●	●	●	●	●	●	●	●	●
32			●	●	●	●	●	●	●	●	●	●

SDS-MAX HAMMER DRILL BITS



"L" flute

92696



"U" flute

92697



Double flutes

92698

Blade types



Single Tip



Cross Tip



W tip

Overall Length	280	320	340	400	505	540	600	700	800	920	1000
Flute Length	160	200	220	280	385	420	480	580	680	800	880
Diameter											
8	●										
10	●			●							
12	●		●	●		●					
14	●		●	●	●	●	●	●	●		
15			●	●		●					
16	●	●	●	●	●	●	●	●	●	●	●
18	●	●	●	●	●	●	●	●	●	●	●
20	●	●	●	●	●	●	●	●	●	●	●
22	●	●	●	●	●	●	●	●	●	●	●
24		●	●	●	●	●	●	●	●	●	●
25	●	●	●	●	●	●	●	●	●	●	●
26		●	●	●	●	●	●	●	●	●	●
28	●	●	●	●	●	●	●	●	●	●	●
30		●	●	●	●	●	●	●	●	●	●
32		●	●	●	●	●	●	●	●	●	●
35		●	●	●	●	●	●	●	●	●	●
36		●	●	●	●	●	●	●	●	●	●
38		●	●	●	●	●	●	●	●	●	●
40			●	●	●	●	●	●	●	●	●

SDS PLUS POINT CHISELS



92699

Round shank



92700

Hex shank

Diameter (mm)	Overall Length (mm)
14	250
14	350
14	400

SDS PLUS FLAT CHISELS



92701

Round shank



92702

Hex shank

Diameter (mm)	Blade Width (mm)	Overall Length (mm)
14	20	250
14	20	350
14	20	400

SDS PLUS WIDE FLAT CHISELS



92703

Round shank



92704

Hex shank

Diameter (mm)	Blade Width (mm)	Overall Length (mm)
14	40	250
14	50	250
14	40	400
14	50	400

SDS PLUS GOUGE CHISELS



92705

Round shank



92706

Hex shank

Diameter (mm)	Overall Length (mm)
14	250
17	280
18	280

HEX SHANK POINT CHISELS



92707

Round shank



92708

Hex shank

Diameter (mm)	Overall Length (mm)
17	280
17	350
17	400
17	450

HEX SHANK FLAT CHISELS



92709

Hex shank



92710

Round shank

Diameter (mm)	Blade Width (mm)	Overall Length (mm)
17	25	250
17	25	350
17	25	400
17	25	450

SDS MAX POINT CHISELS



92711

SDS MAX FLAT CHISELS



92712

Diameter (mm)	Overall Length (mm)
18	280
18	350
18	400
18	450
18	500
18	600
18	800

STONE CARVING CHISELS WITH TEETH



92713

Hex shank
17x250x50mm



92714

SDS shank
14x130x30mm

STONE CARVING CHISELS



92715

SDS, Hex shank
17x280x24, 17x280x36, 17x280x48mm



92716

SDS, Hex shank
17x280x38, 14x300x38, 17x300x38, 18x300x38mm

HEX SHANK CHISELS

PH65 x 450mm



92717



92718



92719

FLOOR SCRAPERS



92720

Diameter (mm)	Blade Width (mm)	Overall Length (mm)
17	25	280
17	50	280
17	75	280
17	100	280
17	150	280

FLOOR SCRAPER

PH65 shank



92721

150, 520mm

SDS PLUS WINGED CHANNEL CHISEL



92722

14, 22, 250mm

SELF-SHARPENING POINTED CHISEL



92723

14, 250mm

SDS PLUS DRILL SETS



3PC

92724

5, 6x110mm
8x160mm

Cuttingcraft



4PC

92727

5, 6, 8, 10x160mm



4PC

92728

5, 6, 8, 10x160mm

Cuttingcraft

5PC

92729

5, 6x110mm
6, 8, 10x160mm



5PC

92730

5, 6x110mm
6, 8, 10x160mm



5PC

92731

6, 8, 10, 12, 14x160mm



5PC

92732

6, 8, 10x160mm
Point chisel: 14x250x20mm
Flat chisel: 14x250x20mm



2PC

92733

Point chisel: 14x150mm
Flat chisel: 14x150mm



5PC

92738

10, 12, 16, 22, 25x600mm



3PC

92739

12, 16, 24x1000mm



5PC

92734

5, 6, 6, 8, 10x160mm



6PC

92735

6, 8, 10x110mm
6, 8, 10x160mm



7PC

92736

5, 6, 8x110mm
6, 8, 10, 12x160mm



5PC

92737

10, 12, 16, 18, 20x450mm



8PC

92740

5, 6, 8, 10x160mmx2



8PC

92741

5, 6, 8, 10x110mm
6, 8, 10, 12x160mm

Cuttingcraft

8PC

92742

5, 6, 8x110mm, 6, 8, 10, 12x160mm
8x210mm



10PC

92743

5, 5, 6, 8, 10x110mm
5, 5, 6, 8, 10x160mm

48 CONSTRUCTION TOOLS

SDS DRILL BIT SETS



10PC

92744

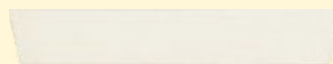
- ▶ 5x110mm, 6x160mm, 8, 10x210mm
12, 14, 16, 18x450mm
- ▶ 2PC chisels



10PC

92745

- ▶ 5, 6x110mm, 10, 12x160mm
12, 14, 16, 20x300mm
- ▶ Wide flat chisel: 14x20x250mm
- ▶ Flat chisel: 14x40x250mm



10PC

92746

- ▶ 5, 6x110mm, 6, 8, 10x160mm
10, 12, 14, 20x450mm, 20x300mm



11PC

92747

- ▶ 5, 6, 7, 8, 10x50x110mm,
6, 8, 10, 12x100x160mm
- ▶ Spade chisel: 250mm
- ▶ Point chisel: 250mm



11PC

92748

- ▶ 5, 6x110mm, 6, 8, 10x160mm, 10, 12x210mm,
10, 12, 16, 20x450mm

Celtigerart

11PC

92749

- ▶ 5, 6x110mm, 6, 8, 10x160mm, 10, 12x210mm,
10, 12, 16, 20x450mm



12PC

92750

- ▶ 5, 6x110mm, 6, 8, 10x160mm, 14, 16x210mm,
18x300mm, 22x450mm
- ▶ 3PC chisels

12PC

92751

- ▶ 5, 6x110mm, 8, 10, 12x160mm, 14, 16x210mm,
18x300mm, 20x450mm
- ▶ Point chisel: 14x250mm
- ▶ Wide flat chise: 14x250x20mm, 14x250x40mm



13PC

92752

- ▶ 6, 8x110mm, 10x160mm, 8, 10, 12x210mm,
10, 12, 14x260mm
- ▶ 4PC chisels

13PC

92753

- ▶ 6, 8x110mm, 10x160mm, 8, 10, 12x210mm,
10, 12, 14x260mm
- ▶ 4PC chisels

13PC

92754

- ▶ 5, 6, 7, 8x110 mm
6, 7, 8, 10, 12, 14, 16x160mm
- ▶ Point chisel: 14x250x20mm
- ▶ Flat chisel: 14x250x20mm

17PC

92755

- ▶ 5.5, 6x110mm, 5, 5.5, 6, 6.5, 7, 8, 10x160mm,
14x210mm, 10, 12, 16x260mm
- ▶ 4PC chisels



17PC

92756

- ▶ 5, 6, 8, 10x110mm, 6, 8, 10, 12x160mm, 8, 10x210mm,
12, 14x260mm
- ▶ Pointed chisels: 14x143mm, 14x250mm
- ▶ Flat chisels: 14x143x20mm, 14x250x20mm, 14x250x40mm

17PC

92757

- ▶ 8, 10, 12x160mmx2PC, 16x210mmx2PC
12, 16, 20, 24x450mm
- ▶ 6PC chisels

18PC

92758



20PC

92759

- ▶ 5, 6, 8x110mm, 6, 8, 8, 10, 10, 12, 12x160mm
8, 10, 14, 16x210mm, 16x250mm, 14x260mm
10, 12, 18, 20x450mm

GLASS DRILLS



Size	Round shank length (mm)	Hex shank length (mm)
3.0	60	60
4.0	60	60
5.0	70	65
6.0	75	75
7.0	80	80
8.0	80	80
9.0	100	85
10.0	100	85
12.0	100	100
14.0	100	100

GLASS DRILL SETS



3PC
92769
3, 4, 6mm



5PC
92770
3, 4, 6, 8, 10mm



5PC
92771
4, 5, 6, 8, 10mm



5PC
92772
▶ 4, 5, 6, 8, 10mm
▶ Hex shank



6PC
92773
3, 4, 5, 6, 8, 10mm



8PC
92774
3, 4, 5, 6, 7, 8, 9, 10mm

TCT CORE DRILL BITS



92775

Diameter (mm)	Blades	Diameter (mm)	Blades
30	4	82	10
35	4	85	10
40	5	90	10
45	5	95	12
50	6	100	12
55	6	105	12
60	7	110	14
65	8	115	14
68	8	120	14
70	8	125	14
75	10	130	14
80	10	150	14

TCT CORE DRILL BITS ARBOR WITH PILOT DRILL



SDS plus
M16/22
92776
110, 160, 250, 300, 350, 450, 500, 1000mm



SDS max
M22
92777
160, 200, 300, 350, 450, 500, 600, 1000mm

TCT CORE DRILL SETS



4PC
92778

- ▶ 2PC hole saw: 65, 80mm
- ▶ 2PC arbors: SDS plus adapter M22x300mm Hex shank 80mm



8PC
92779

- ▶ 5PC hole saw: 40, 60, 65, 80, 100mm
- ▶ 1PC SDS plus adapter M22x300mm
- ▶ 1PC SDS max adapter M22x300mm
- ▶ 1PC SDS plus adapter M22x110mm



9PC
92780

- ▶ 5PC hole saw: 30, 40, 65, 80, 10mm
- ▶ 2PC arbors: SDS plus 22x300mm SDS max 22x300mm
- ▶ 2PC drill bit: 110mm



3PC
92781

- ▶ 2PC hole saw: 68, 80mm
- ▶ 1PC SDS plus connecting rod 110mm

50 CONSTRUCTION TOOLS

SDS MAX BREAKING THROUGH BIT



92782



Diameter (mm)	Length (mm)
40	280
40	320
40	550
40	1000
45	280
45	320
45	550
45	600
50	280
50	600
50	700
50	1000
55	280
55	320
55	550
55	700
55	1000
60	280
60	600
60	700
60	800
65	280
65	320
65	550
65	600
65	700
68	280
68	550
68	1000
72	600
72	700
72	800
72	1000

TAMPER SHANK JACK HAMMER



92783

400x150x150mm



92784

450mm



92785

450mm

HOLE ADAPTERS



92786



92787



92788



SDS BUSHING BIT FOR ROTARY HAMMER



92789

18x240x45mm
18x240x60mm



BUSHING HAMMER BITS WITH ALLOY TIPS



92790

Square: 195x35mmx16teeth



92791

Round: 200x35mmx12teeth



92792

Square: 258x40mmx25teeth

SDS-PLUS DRILL BIT WITH STOP



92793

SDS-PLUS STOP BIT



92794

overall length: 110mm
OD: 20mm



92795

overall length: 110mm
OD: 20mm

ADAPTERS



92796

SDS plus to SDS max



92797

SDS max to SDS plus



92798

SDS max to SDS plus



92799

3/8" to SDS plus

ADAPTERS



92800

SDS plus to drill chucks



92801

Length: 60mm, 80mm



92802

SDS to hex shank



92803

SDS to hex shank

EXTENSION POWER BARS FOR SDS PLUS CHUCK



1/2"



3/8"



1/4"

92804

DRY VACUUM BRAZED DIAMOND CORE HOLE DRILLS

- ▶ Ceramic tiles, marble, granite
- ▶ All kinds of Hardness stone
- ▶ Hex shank 8.3mm
- ▶ Grit: #40/50



92805

Dia (mm)	Diamond width	Working Length	Total Length
5	10	3	65
6	10	35	65
7	10	40	80
8	10	40	80
10	10	40	80
12	10	40	80
14	10	40	80
15	10	40	80



92806

1/4" Double R gap

92807

R gap

Dia (mm)	Diamond width	Working Length	Total Length
5	10	35	65
6	10	35	65
8	10	35	65
10	10	35	65
12	10	35	65
14	10	35	65

COMBINATION HEX SHANK DIAMOND HOLE DRILL SET



5PC

92808

- ▶ 4PC diamond hole drill: 6, 8, 10, 12mm
- ▶ 1/4" Hex shank
- ▶ 1PC drill guide

DIAMOND CORE BIT SETS



5PC

92809

- ▶ Size A: 5, 6, 8, 10, 12mm
- ▶ Size B: 6, 8, 10, 12, 14mm

DIAMOND CORE BIT SETS



5PC

92810

6, 6.5, 8, 10, 12mm



5PC

92811

6, 8, 10, 12, 14mm



5PC

92812

- ▶ Tile drill size: 6mm
- ▶ Diamond drill size: 6, 8, 10, 12mm

VACUUM BRAZED DIAMOND MILLING DRUM WHEEL

- ▶ 5/8"-11 or M14 thread
- ▶ Grit: #30/40, #50/60, #80/100



92813

Size: 50, 75, 100mm

VACUUM BRAZED DIAMOND CORE BITS

- ▶ Application: Ceramic tiles, marble, granite, etc.
- ▶ Grit: #40/50



92814

Dia (mm)	Diamond width	Working Length	Total Length
5	10	35	60
6	10	35	60
8	10	35	60
10	10	35	60
12	10	35	60
14	10	35	60
15	10	35	60

DIAMOND CORE BIT SETS



6PC

92815

Dia.: 5, 6, 8, 10, 12, 14mm



4PC

92816

Dia.: 6, 8, 10, 12mm

VACUUM BRAZED DIAMOND MILLING ROD

- ▶ 5/8"-11 or M14 thread
- ▶ Grit: #40/50



92817

Size: D5-L12, D6-L25, D6-L30, D8-L30, D8-L100mm

VACUUM BRAZED DIAMOND MILLING BITS

- ▶ 5/8"-11 or M14 thread
- ▶ Grit: #30/40
- ▶ Dia.: 10mm, 1/2"BSP + M14 thread
- ▶ Dia.: 15, 20, 25mm, 5/8"-11 or M14 thread
- ▶ Grit: #30/40, #50/60



92818

Dia.: 10, 15, 20, 25mm



92819

Dia.: 10, 15, 20, 25mm

DIAMOND COUNTERSINK DRILL BITS



92820

- ▶ Size: 35, 38, 48, 50mm
- ▶ Grit: #40/50, #70/80
- ▶ 5/8"-11 or M14 thread

92821

- ▶ Size: 35, 50mm
- ▶ Grit: #40/50, #70/80



92822

- ▶ Size: 20-48, 35-75, 27-82mm
- ▶ Grit: #40/50, #70/80
- ▶ 5/8"-11 or M14 thread

VACUUM BRAZED DIAMOND CORE BITS

- ▶ Application: Ceramic tiles, marble, granite, etc.
- ▶ Diamond width: 10mm
- ▶ M14 thread Shank
- ▶ Grit: #35/40



92823

Dia (mm)	Working Length	Total Length	Dia (mm)	Working Length	Total Length
20	40	60-62	65	40	60-62
22	40	60-62	68	40	60-62
25	40	60-62	70	40	60-62
28	40	60-62	72	40	60-62
30	40	60-62	75	40	60-62
32	40	60-62	80	40	60-62
35	40	60-62	85	40	60-62
38	40	60-62	90	40	60-62
40	40	60-62	100	40	60-62
43	40	60-62	105	40	60-62
45	40	60-62	110	40	60-62
50	40	60-62	125	40	60-62
55	40	60-62	135	40	60-62
60	40	60-62	150	40	60-62

VACUUM BRAZED DIAMOND CORE BITS

- ▶ BOSCH X quick connection
- ▶ Grit: #40/50



92824

Dia.: 25, 35, 50mm

Dia (mm)	Diamond width	Working Length	Total Length
20	10	35	55
25	10	35	55
32	10	35	55
35	10	35	55

ADAPTERS



5/8"-11 or M14 thread



5/8"-11 to SDS Plus



M14 thread to SDS Plus

92825

Dia.: 22mm

DIAMOND CORE BIT SETS

- ▶ M14 Thread Shank



5PC

92826

- ▶ Size A: 20, 27, 35, 55, 65mm
- ▶ Size B: 20, 35, 38, 43, 50mm



5PC

92827

- ▶ Size A: 20, 35, 45, 55, 72mm
- ▶ Size B: 35, 38, 43, 50, 60mm



5PC

92828

Dia.: 7, 15, 35, 65, 80mm



7PC

92829

Dia.: 6, 8, 10, 12, 20, 27, 35mm

DIAMOND CORE BIT SETS

- ▶ M14 Thread Shank



7PC

92830

- ▶ Dia.: 6, 8, 20, 35, 45, 68mm
- ▶ Locator



8PC

92831

- ▶ Dia.: 10, 15, 20, 25, 65mm
- ▶ Hex adaptor: D25-L50mm
- ▶ D20 cutter



9PC

92832

- ▶ Dia.: 25, 35, 45, 65, 75mm
- ▶ 1PC 20mm milling bit, beveling chamfer bits
- ▶ 2PC 125mm blade



10PC

92833

- ▶ Dia.: 6, 8, 10, 20, 35, 50, 68mm
- ▶ Hex adaptor, 125mm diamond blade
- ▶ D20 cutter

DIAMOND CORE BIT SETS

- ▶ M14 Thread Shank



12PC

92834

- ▶ Dia.: 6, 8, 10, 16, 20, 25, 32, 50mm
- ▶ 1PC SDS plus adpater, 1PC 10mm milling bit
- ▶ 1PC contour gauge 5"
- ▶ 2PC 125mm blade



12PC

92835

- ▶ Dia.: 6, 8, 10, 12, 20, 25, 28, 35, 45, 50, 68mm
- ▶ 1PC hex adpater

DIAMOND GRINDING BLADES

New



92836

- ▶ Dia.: 100, 115, 125mm
- ▶ 5/8"-11 or M14 thread
- ▶ Grit: #30/40, #50/60



92837

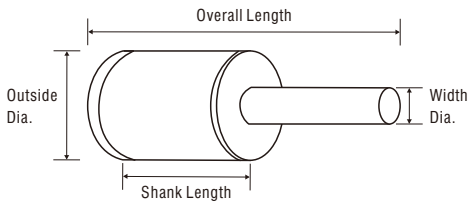
- ▶ Size: 100, 115, 125, 150, 180, 230, 300, 350mm
- ▶ Grit: #30/40

CARBIDE BLADE

92838

- ▶ Size: 125, 230, 300, 350, 400mm
- ▶ Grit: #30/40

DIAMOND HOLE DRILLS



Suitable for ceramics, marble, granite and other materials drilling operation.



92839

M14 thread



92840

Size: 4-120mm
Hex shank



92841

Grit: 80#

O.DØ (mm)	W.DØ (mm)	S.L (mm)	O.L (mm)
5	4.3	25	55
6	5.3	25	55
8	6.5	25	55
10	6.5	25	55
12	6.5	25	55
14	6.5	25	55
16	6.5	25	55
18	8	25	55
20	8	25	55
22	8	25	55
25	8	25	55
28	9.5	25	55
30	9.5	25	55
32	9.5	25	55
35	9.5	25	55
40	9.5	25	55
45	9.5	25	55
50	9.5	25	55
55	9.5	25	55
60	9.5	25	55
65	9.5	25	55
68	9.5	25	55
70	9.5	25	55
75	9.5	25	55
80	9.5	25	55
90	9.5	25	55
100	9.5	25	55
105	9.5	25	55
110	9.5	25	55
115	9.5	25	55
120	9.5	25	55
125	9.5	25	55



92842

Grit: 46#

O.DØ (mm)	W.DØ (mm)	S.L (mm)	O.L (mm)
5	7.8	30	65
6	7.8	30	65
8	7.8	30	65
10	7.8	30	65
12	7.8	30	65
14	7.8	30	65
16	7.8	30	65
18	9.5	30	65
20	9.5	30	65
22	9.5	30	65
25	9.5	30	65
28	9.5	30	65
30	9.5	30	65
32	9.5	30	65
35	9.5	30	65
40	9.5	30	65
45	9.5	30	65
50	9.5	30	65
55	9.5	30	65
60	9.5	30	65
65	9.5	30	65
68	9.5	30	65
70	9.5	30	65
75	9.5	30	65
80	9.5	30	65
90	9.5	30	65
100	9.5	30	65
120	9.5	30	65



92843

Grit: 46#

O.DØ (mm)	W.DØ (mm)	S.L (mm)	O.L (mm)
16	9.5	30	70
18	9.5	30	70
20	9.5	30	70
22	9.5	30	70
25	9.5	30	70
28	9.5	30	70
30	9.5	30	70
32	9.5	30	70
35	9.5	30	70
40	9.5	30	70
45	9.5	30	70
50	9.5	30	70
55	9.5	30	70
60	9.5	30	70
65	9.5	30	70
68	9.5	30	70
70	9.5	30	70
75	9.5	30	70
80	9.5	30	70
90	9.5	30	70
100	9.5	30	70
105	9.5	30	70
110	9.5	30	70
115	9.5	30	70
120	9.5	30	70

With drill bit

DIAMOND HOLE SAW SETS



5PC

92844

4, 6, 8, 10, 12mm



5PC

92845

20, 22, 30, 35, 40mm



10PC

92847

3, 4, 5, 6, 8, 10, 12, 18, 32, 50mm

6PC

92846

38, 44, 53, 65, 67, 83mm

DIAMOND HOLE DRILL WITH SUCTION CUP SET



9PC

92848

► Size: 4, 5, 6, 7, 8, 10, 12mm
► 1PC drill guide, 1PC cooling system

DIAMOND HOLE SAW SETS

10PC

92849

► Size: 14, 16, 18, 20, 26, 32, 38, 45, 50mm
► 1PC drill guide

8PC

92850

► Size: 4, 5, 6, 7, 8, 10, 12mm
► 1PC drill guide

9PC

92851

► Size: 20, 22, 29, 35, 45, 65mm
► 1PC pilot drill, 1PC L wrench: 3mm

OPENING LOCATORS



92852

Clamping Range: 4-12mm

HOLE SAW LOCATORS



92853

Clamping Range: 4-75mm

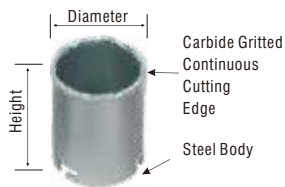
92854

Clamping Range: 4-80mm

92855

Clamping Range: 4-90mm

CARBIDE GRITTED HOLE SAW



92856

Metric(mm)	Imperial
33	1.1/4"
43	1.3/4"
53	2.1/8"
67	2.5/8"
73	2.7/8"
83	3.1/4"
103	4"
113	4.1/2"

5PC CARBIDE GRITTED HOLE SAW SETS

- ▶ Hole saw size: 33, 53, 67, 73mm
- ▶ Locating Plate & Pilot Drill



92857



92858

2PC PILOT DRILL SET



92859

- ▶ Aluminum cap: 33-83mm
- ▶ Drill size: 10x140mm

CARBIDE GRITTED HOLE SAW SETS



7PC

92860

- ▶ Hole saw size: 33, 53, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill



5PC

92861

- ▶ Hole saw size: 33, 53, 83mm
- ▶ 2PC Pilot drill



7PC

92862

- ▶ Hole saw size: 33, 53, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill



7PC

92863

- ▶ Hole saw size: 33, 53, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill

CARBIDE GRITTED HOLE SAW SETS



8PC

92864

- ▶ Hole saw size: 33, 53, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill
- ▶ File: 250mm(10")

8PC

92865

- ▶ Hole saw size: 33, 53, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill
- ▶ File: 250mm(10")

8PC

92866

- ▶ Hole saw size: 33, 53, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill
- ▶ File: 250mm(10")

9PC

92867

- ▶ Hole saw size: 33, 43, 53, 63, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill

10PC CARBIDE GRITTED HOLE SAW SET

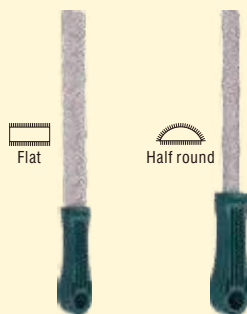
- ▶ Hole saw size: 33, 43, 53, 63, 67, 73, 83mm
- ▶ Locating Plate & Pilot Drill
- ▶ File: 250mm(10")



92868

CARBIDE GRITTED FILES

- 150mm(6"), 200mm(8"), 250mm(10")



Flat

Half round

92869

92870

ROD SAW BLADES

- 150mm(6"), 250mm(10"), 300mm(12")



92871

CARBIDE GRITTED KNIVES



92872

92873

H.S.S.TOOL BITS

Round Tool Bit



92874

Square Tool Bit



92875

Rectangle Tool Bit



92876

92874

Metric	Inch
1.0x100	1/8x8"
3.0x100	3/16x8"
3.0x100	1/4x8"
4.0x100	5/16x8"
5.0x200	3/8x8"
6.0x200	1/2x8"
7.0x200	5/8x8"
8.0x200	3/4x8"
9.0x200	7/8x8"
10.0x200	
11.0x200	
12.0x200	
13.0x200	
14.0x200	
15.0x200	
16.0x200	
18.0x200	
20.0x200	

92875

Metric	Inch
3.0x3.0	1/8x1/8
4.0x4.0	3/16x3/16
5.0x5.0	1/4x1/4
6.0x6.0	5/16x5/16
8.0x8.0	3/8x3/8
10.0x10.0	1/2x1/2
12.0x12.0	5/8x5/8
14.0x14.0	3/4x3/4
16.0x16.0	7/8x7/8
18.0x18.0	1x1
20.0x20.0	
22.0x22.0	
25.0x25.0	
28.0x28.0	
30.0x30.0	

92876

Metric	Inch
3x8x200	1/8x5/16x8"
5x8x200	3/16x5/16x8"
6x8x200	1/4x5/16x8"
3x10x200	1/8x3/8x8"
5x10x200	3/16x3/8x8"
6x10x200	1/4x3/8x8"
8x10x200	5/16x3/8x8"
5x12x200	1/4x1/2x8"
8x12x200	5/16x1/2x8"
10x12x200	3/8x1/2x8"
5x16x200	3/16x5/8x8"
6x16x200	1/4x5/8x8"
8x16x200	5/16x5/8x8"
12x16x200	1/2x5/8x8"
6x20x200	1/4x5/8x8"
8x20x200	5/16x3/4x8"
10x12x200	3/8x3/4x8"
12x20x200	1/2x1/4x8"

ANGLE DRIVER ATTACHMENTS

► Fits 1/4" hex shank bits

- Constructed of heavy duty steel with heat treated steel shank
- Equipped with keyless chuck
- Can be used with any 3/8" and larger drill



New

92877



92878



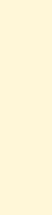
92879



92880



92881



92882

ANGLE DRILL ATTACHMENT

- Shaft fits with a 3/8" chuck or larger
- Can be used left hand or right hand
- Drill in tight corners or at awkward angles

ANGLE DRILL SETS

92883

92884

23PC
92885

52PC
92886

95PC
92887

HEX OFFSET ANGLE DRIVERS

- 1/4" hex
- 105 angle



92888



92889



6 Bits

92890

DRILL GAUGE

- Quickly and conveniently identifies drill bit diameter
- 29-Hole sizes remain constant, providing precision accurate
- Hole sizes of 1/16" to 1/2" by 64ths
- Painted and etched on each side



92891

92892

6PC COUNTERBORE SET

- Size: 3, 4, 5, 6, 8, 10, 12mm
- 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



92893

56 OTHER TOOLS AND DRILL SETS

DRILL BIT SHARPENERS



92894

- ▶ No motor, work with electric drill
- ▶ Sharpening size: 3-10mm



92895

Sharpening size: 2-12.5mm

ELECTRIC DRILL BIT SHARPENERS



92896

- ▶ Input power: 95W
- ▶ Max. speed: 1600RPM (No Load)
- ▶ Sharpening size: 3-12mm



92897

- ▶ Input power: 70W
- ▶ Max. speed: 1600RPM (No Load)
- ▶ Sharpening size: 3-10mm



92898

- ▶ Volt/Frequency: 110V/60Hz, or 230V/50Hz
- ▶ Power: 70W, Max. Speed: 1600RPM
- ▶ Sharpening size: 3-10mm and 8-16mm

ELECTRIC DRILL BIT SHARPENERS

- ▶ Volt/Frequency: 110V/60Hz, or 230V/50Hz
- ▶ Input power: 80W
- ▶ Max. Speed: 4200RPM, or 4800RPM
- ▶ Sharpening size: 4/32"-17/32"(3mm-13mm)
- ▶ Knife, scissor, chisel & plane sharpener
- ▶ Max. Wheel Diameter: 3/8"(10mm)
- ▶ Drill diameter: 7/64"-3/8"(3mm-10mm)
- ▶ Sharpens straight edge chisel and plane blades size 1/4"-2" wide(6mm-51mm)



92899



MULTI TASK

92900

MINI BENCH DRILL

- ▶ Clamping diameter: Ø0.6-6.5mm
- ▶ Input power: 340W
- ▶ Max spindle travel: 25mm
- ▶ No-load speed: I: 0-8000r/min, II: 0-11000r/min, III: 0-16000r/min



92901

KEYLESS MINI DRILL CHUCK ADAPTORS

- ▶ 0.3-3.6mm
- ▶ 0.3-6.5mm



92902



92903



92904



92905

BITS



92906

BIT HOLDERS



92907

BIT HOLDERS



92908



3PC
92909



3PC
92910

10PC
92911
65mm

10PC
92912
110mm

BIT SETS



14PC

92913

18PC

92914

25PC

92915

28PC

92916

BIT SETS

New

New



29PC

92917

31PC

92918

32PC

92919

35PC

92920

BIT SETS



36PC

92921



37PC

92922



42PC

92923



42PC

92924

BIT SETS

New

New

New



45PC

92925

45PC

92926

50PC

92927

50PC

92928

58 OTHER TOOLS AND DRILL SETS

BIT SETS

New



55PC

92929

60PC

92930

New



100PC

92931

100PC

92932

BIT SETS

New



111PC

92933

142PC

92934

DRILL & BIT SETS

New



16PC

92935

- ▶ Twist drill: 2, 3, 4, 5, 6, 8mm
- ▶ Masonry drill: 4, 5, 6, 8, 10mm
- ▶ Wood drill: 4, 5, 6, 8, 10mm

17PC

92936

- ▶ 2x1.5mm, 2x2mm, 2.5, 3, 3.2, 3.5, 4, 4.5, 4.8, 5, 5.5, 6, 6.5mm, 7, 8mm

DRILL & BIT SETS

New



18PC

92937

- ▶ 9PC masonry drill: 3, 3, 4, 4, 5, 5, 6, 8, 10mm
- ▶ 9PC wood drill: 3, 3, 4, 4, 5, 5, 6, 8, 10mm

18PC

92938

- ▶ 9PC masonry drill: 3, 3, 4, 4, 5, 5, 6, 8, 10mm
- ▶ 9PC wood drill: 3, 3, 4, 4, 5, 5, 6, 8, 10mm

19PC

92939



20PC

92940

DRILL & BIT SETS

New



20PC

92941

- ▶ 11PCS twist drill: 1.5, 2, 2.5, 3, 3.2, 3.5, 4, 4.5, 5, 6, 8mm
- ▶ 1PC Magnetic bits holder, C45#
- ▶ 9PCS-25mm Screwdriver bits, CRV6150: 3PC SLOTTED: 5, 6, 7mm, 3PC PHILLIPS: #1, #2, #3, 3PC POZI: #1, #2, #3

21PC

92942



21PC

92943

- ▶ 11PCS Masonry drill: 3, 3, 4, 4, 5, 5, 6, 6, 7, 8, 10mm
- ▶ 1PC Magnetic bits holder, C45#
- ▶ 9PCS-25MM Screwdriver bits, CRV6150: 3PC SLOTTED: 5, 6, 7MM, 3PC PHILLIPS: #1, #2, #3, 3PC POZI: #1, #2, #3



21PC

92944

- ▶ 11PCS Wood drill: 3, 3, 4, 4, 5, 5, 6, 6, 7, 8, 10mm
- ▶ 1PC Magnetic bits holder, C45#
- ▶ 9PCS-25MM Screwdriver bits, CRV6150: 3PC PHILLIPS: #1, #2, #3, 6PC HEX: 2, 2.5, 3, 4, 5, 6mm

DRILL & BIT SETS

New



35PC

92946



40PC

92948

23PC

92945

40PC

92947

DRILL & BIT SETS

New



41PC

92949



41PC

92950



41PC

92951



46PC

92952

DRILL & BIT SETS



49PC

92953



50PC

92954



50PC

92955



50PC

92956

DRILL & BIT SETS

New



50PC

92957



50PC

92958

50PC

92959

50PC

92960

60 OTHER TOOLS AND DRILL SETS

DRILL & BIT SETS



51PC
92961



55PC
92962



58PC
92963

66PC
92964

DRILL & BIT SETS



70PC
92965



75PC
92966

New

76PC
92967



78PC
92968

DRILL & BIT SETS



81PC
92969



90PC
92970



90PC
92971



96PC
92972

DRILL & BIT SETS

New

104PC
92973

109PC
92974

120PC
92975



110PC
92976

DRILL & BIT SETS



128PC

92977



223PC

92979

150PC

92978

For more detail please e-mail us: orders@cuttingcraft.com

DRILL & BIT SETS



246PC

92980



271PC

92981

SELF-CENTERING DOWELING JIG



92982

- ▶ Material: 6061 aluminum alloy + steel (drill bushing) + metal (nut)
- ▶ Surface treatment: anodic oxidation treatment
- ▶ Drill bushing material: HRC50 steel
- ▶ Positioning pin: 6/8/10mm
- ▶ Working size: 17-50mm

QUICK DOWELING & POCKET HOLE JIG



92983

- ▶ It is versatile and durable for use as a wood doweling jig or pocket hole jig
- ▶ For use with materials from 1" to 1.1/2" thick
- ▶ Wood-chip relief holes to keep drill bit clear of excess wood chips
- ▶ Removable drill guide for bench top and portable use

DOWELING JIG

1/4", 3/8", 1/2"



92984

- ▶ Made to last with 3/16" thick acrylic faces and hardened steel drill guides
- ▶ Precisely etched centerline for the joint plus center lines for two dowels

ALUMINUM DRILL BLOCK



92985

- ▶ V-grooves allow for usage on corners and even cylindrical surfaces
- ▶ Centerlines ensure accurate alignment when drilling into various surfaces
- ▶ Suitable for drill sizes: 5, 6, 8, 9, 10mm

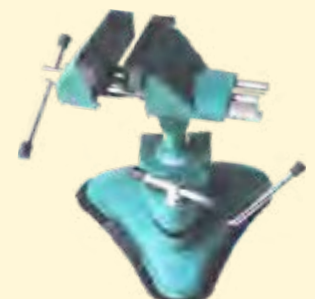
MANUL EDGE TRIMMING TOOLS



92986

- ▶ Blade made of high-quality hardened steel and can be easily replaced when worn out
- ▶ Cuts on both sides smoothly
- ▶ Cutting range from 1/2" to 1"
- ▶ First cutter will cut straight, while the second one can be adjusted for a tapering cut

VACUUM BASE VICE

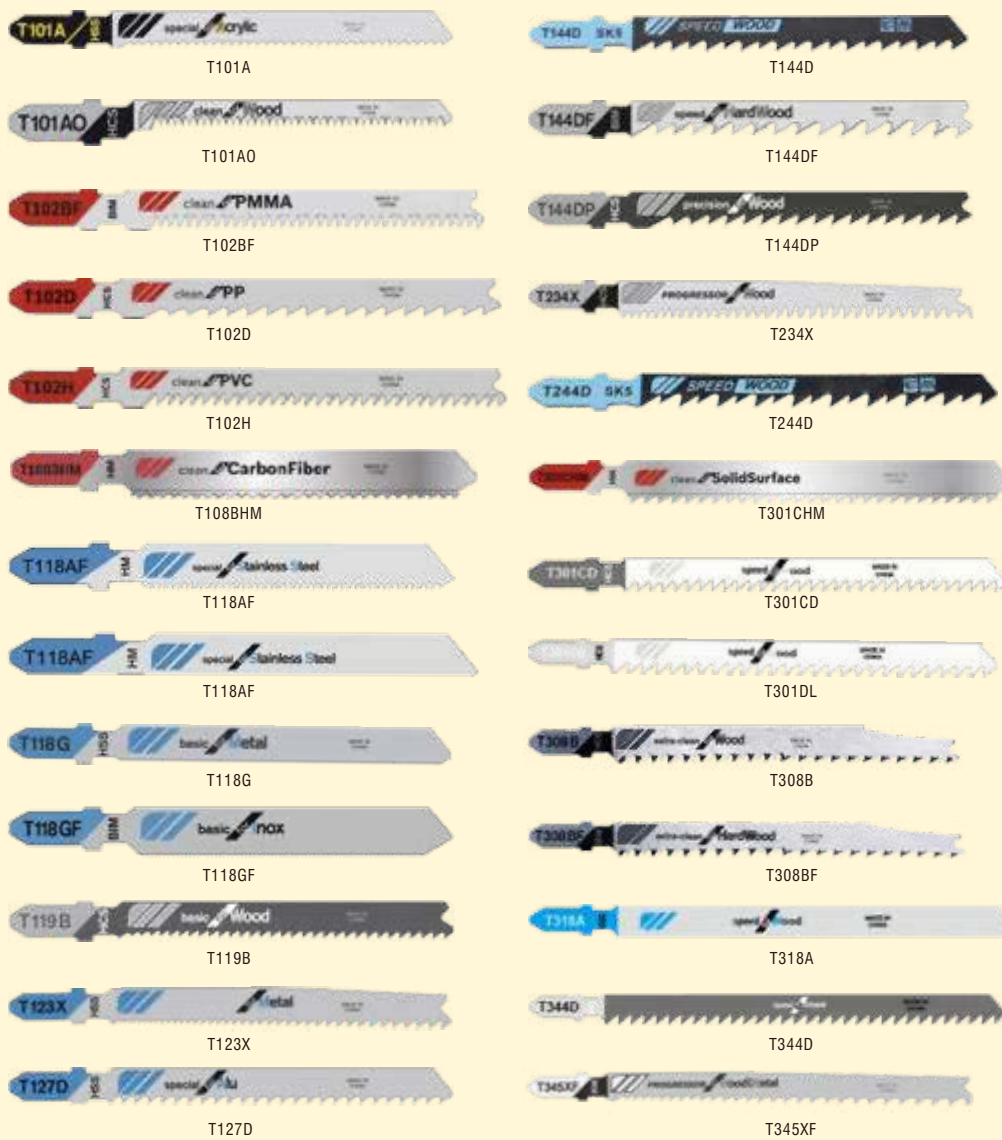


92987

- ▶ Size: Jaw Width 70mm
- ▶ Opening: 70mm
- ▶ Swivels: 360°

62 OTHER TOOLS AND DRILL SETS

JIG SAWS



Material								
HCS	●							
HSS		●						
Bi-metal	●	●	●	●				
HM (TC)	●	●	●	●	●			●

- HCS** Carbon steel for use in wood, plastic-coated hard board and plastics.
- HSS** Fully-hardened super-speed steel for use in metal, aluminium and non-ferrous metals.
- Bi-metal** The Bi-metal is flexible with great rigid which has long life for cutting both wood and metal materials.
- HM (TC)** The TC teeth bite through glass-fibre reinforced plastic, asbestos cement or aerated concrete, brick.

Type	Material	Overall Length (mm)	Working Length (mm)	Tooth Distance (mm)
T101A	HSS	100	74	2.0
T101AO	HCS	83	76	1.4
T102BF	BIM	91	65	1.8
T102D	HCS	100	74	4.0
T102H	HCS	100	74	2.3
T108BHM	HM	100	74	2.2
T118AF	BIM	76	51	1.1
T118AF	BIM	91	65	1.1X1.5
T118G	HSS	76	51	0.8
T118GF	BIM	76	51	0.8
T119B	HCS	91	65	1.9X2.3
T123X	HSS	100	74	1.2-2.6
T127D	HSS	100	74	3.0
T144D	HCS	100	74	4-5.2
T144DF	BIM	100	74	4-5.2
T144DP	HCS	100	74	4.0
T234X	HCS	117	91	2-3
T244D	HCS	100	74	4
T301CD	HCS	116	90	3.0
T301DL	HCS	132	106	4.0
T301CHM	HM	117	91	3.3
T308B	HCS	116	90	2-3
T308BF	BIM	116	90	2-3
T318A	HSS	132	106	1.2
T344D	HCS	152	126	4.0
T345XF	BIM	132	106	2.4-5

SAW BLADES



THE SHOWS WE ATTENDED



Canton Fair
Oct., 2013



Canton Fair
Apr., 2014



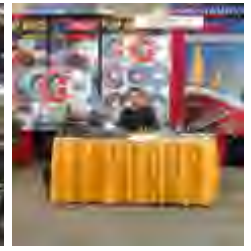
Canton Fair
Oct., 2014



Canton Fair
Apr., 2015



Canton Fair
Oct., 2015



Las Vegas, U.S.A
May., 2015



MITEK, Moscow
Nov., 2015



Canton Fair
Apr., 2016



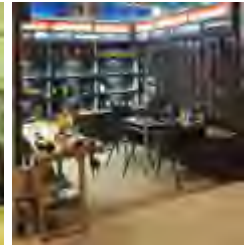
Canton Fair
Oct., 2016



IMTS Chicago
Sep., 2016



MITEK, Moscow
Nov., 2016



Canton Fair
Apr., 2017



Canton Fair
Oct., 2017



MITEK, Moscow
Nov., 2017



Canton Fair
Apr., 2018



Canton Fair
Oct., 2018



National Hardware Show, Las Vegas
May., 2018



MITEK, Moscow
Nov., 2018



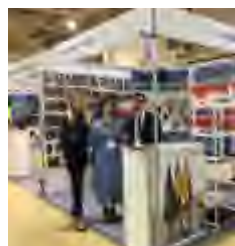
Feicon Batmiat
Apr., 2019



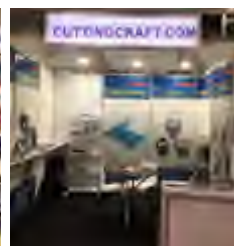
Canton Fair
Apr., 2019



Canton Fair
Oct., 2019



MITEK, Moscow
Nov., 2019



METALEX, Bangkok
Nov., 2019



Canton Fair
Oct., 2021



Canton Fair
Apr., 2023



Guadalajara, Mexico
Sep., 2023



Canton Fair
Oct., 2023



Las Vegas, USA
Nov., 2023



Moscow, Russia
Nov., 2023



Buenos Aires, Argentina
Nov., 2023

THE
NEWEST
IN



PRO TOOLS

HERRAMIENTAS Y TECNOLOGIA INDUSTRIAL

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