

PRECISION TOOLS



®

<http://www.starminfo.com>



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PRECISION TOOLS



®

BEST LINEUP INTRODUCTION

FOR GENERAL USE

FOR POWER TOOLS

SETS

FOR MANUAL USE

POWER TOOL ACCESSORIES

FOR ELECTRICIANS

FOR SPECIAL USES

FOR CONSTRUCTION WORK

FOR DOOR LOCKS

FOR FURNITURE

FOR COUNTERSINK

FOR CULTIVATION
OF MUSHROOM

FOR SPECIAL FIELDS HORTICULTURE

FOR D.I.Y. USES

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THE REPUTATION OF STAR-M HAS BEEN ENHANCED BY UNTIRING AND AGGRESSIVE TECHNICAL INNOVATION.

Japanese tradition of manufacturing excellence

 CORPORATION has consistently endeavored to innovate with woodworking augers ever since its establishment in 1923. The STAR-M, with about 100 skilled workers in its factory in Miki (Japan), is specialized in the production of drill bits for woodworking of the highest quality, suitable for the industry, craftsmen and DIY' s. Today Miki City' s 2000 - year - old hardware industry is based on modern mass - production techniques. Even though the factory is well mechanized, the completion process is done by workman' s skill.



The skilled workers grind the spur and cutting lip by hand, one by one and confirm the portion of sharpness. We offer a full line of high quality wood boring and drilling accessories designed for the professional. At present we are blessed with the status of leading manufacturer of tools, satisfying 80% of domestic demand and exporting to more than 25 countries all over the world.



Stricter quality controls

We are endeavoring to stabilize our products by using various exclusive machines designed and manufactured to make it possible to perform with high efficiency and high precision. Moreover, we check and inspect all our products, aiming at further improvements in quality.

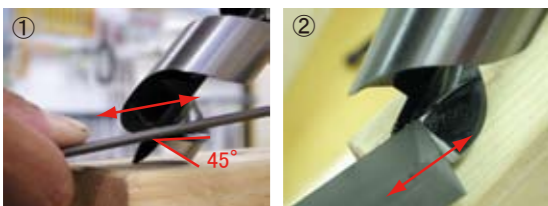
Special tools

In addition to the standard drill bits shown in our catalog, we are specialized in "Special Tools" produced according to any drawing, sketch or sample per your requirements. We have set up a structure which enables us to meet your requests for changes in sizes and shapes and for special uses.

CARE REQUIRED FOR LONG-LASTING USE OF STAR-M PRODUCTS.

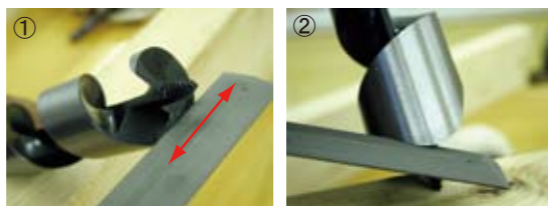
Set the screw point of the auger down on a piece of wood with the other end pointing up at approximately 45°. The wood protects the screw point from being damaged while the bit is being sharpened.

How to grind the cutting lip



- ① Top surface and slanting surface create primary cutting edge.
- ② Grind the slanting surface until cutting edge becomes smooth.

How to grind the spur



- ① Grind the inner surface of the spur until wear part has been gone.
- ② Grind the spur to be round shape and remove burr by grinding outer of the spur.

IN THE CATALOG DIRECTIONS FOR USE ARE INDICATED BY THESE MARKINGS.



ELECTRIC DRILLS



IMPACT DRILLS



DRILLING MACHINES



MANUAL



HAND BRACES



ROUND SHANK



HEXAGON SHANK



THREE FLATS

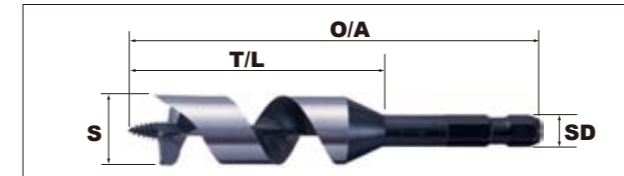
(Two of the above-mentioned markings are omitted.)

BE CAREFUL TO FOLLOW THE RIGHT DIRECTIONS FOR USE AND USE THE REQUIRED MATERIAL, OTHERWISE THE AUGER BIT WILL BE DAMAGED.

FOR GENERAL USE

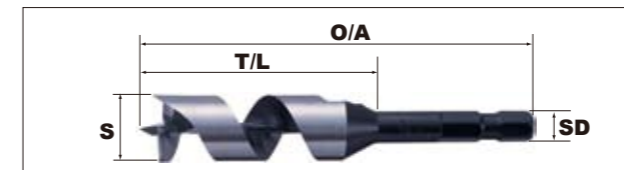
NO.5A Combination Short Auger Bit

Usable with an electric drill, this auger bit is suitable when you require speedy and accurate shallow boring.



NO.5B Combination Short Auger Bit with Brad Point

Convenient for woodworking machines such as drilling machines. Brad point provides accurate positioning for starting the hole. The most suitable for shallow blind holes without penetration.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia					Unit mm (inch)				
Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz	Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
3	80	45	6.35	0.23	21 (13/16)	130	80	10	1.56
4	80	45	6.35	0.25	22 (7/8)	130	80	10	1.68
5	90	50	6.35	0.27	23	130	80	10	1.72
6 (1/4)	90	50	6.35	0.30	24 (15/16)	130	80	10	1.88
7	90	50	6.35	0.32	25 (1")	130	80	10	1.96
8 (5/16)	90	50	6.35	0.38	26	130	80	10	2.00
9	100	60	6.35	0.42	27 (1-1/16)	130	80	10	2.14
10 (3/8)	100	60	6.35	0.46	28	130	80	10	2.20
11 (7/16)	100	60	6.35	0.50	29 (1-1/8)	130	80	10	2.26
12	100	60	6.35	0.52	30 (1-3/16)	130	80	10	2.42
13 (1/2)	120	70	6.35	0.70	31	140	90	12	3.20
14 (9/16)	120	70	6.35	0.72	32 (1-1/4)	140	90	12	3.32
15	120	70	6.35	0.80	33	140	90	12	3.44
16 (5/8)	120	70	6.35	0.88	34	140	90	12	3.60
17	120	70	6.35	0.90	35 (1-3/8)	140	90	12	3.64
18 (11/16)	120	70	6.35	1.04	36	140	90	12	3.96
19 (3/4)	120	70	6.35	1.10	37 (1-7/16)	140	90	12	3.84
20	130	80	10	1.46	38 (1-1/2)	140	90	12	3.96

FOR GENERAL USE

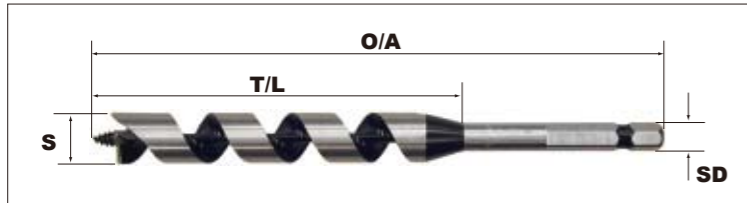
NO.6 Combination Auger Bit

As contrasted to the bits used in the past, this bit is equipped with an axis usable with an electric drill and is handy for people who require speed.



Size 39m/m ~

For reduced the drilling resistance.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz	Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
3	110	60	6.35	0.20	27 (1-1/16)	210	140	10	3.74
4	120	70	6.35	0.24	28	210	140	10	4.20
5	140	90	6.35	0.28	29 (1-1/8)	210	140	10	4.21
6 (1/4)	160	100	6.35	0.39	30 (1-3/16)	210	140	10	4.32
7	170	100	6.35	0.52	31	210	140	12	5.04
8 (5/16)	170	100	6.35	0.57	32 (1-1/4)	210	140	12	5.16
9	180	110	6.35	0.65	33	210	140	12	5.52
10 (3/8)	190	120	6.35	0.76	34	210	140	12	5.64
11 (7/16)	190	120	6.35	0.81	35 (1-3/8)	210	140	12	5.76
12	190	120	6.35	0.97	36	210	140	12	6.24
13 (1/2)	190	120	6.35	1.10	37 (1-7/16)	210	140	12	6.36
14 (9/16)	200	130	10	1.46	38 (1-1/2)	210	140	12	6.48
15	200	130	10	1.56	39	210	140	12	6.60
16 (5/8)	200	130	10	1.70	40	210	140	12	6.72
17	200	130	10	1.72	41 (1-5/8)	210	140	12	6.84
18 (11/16)	200	130	10	1.86	42	210	140	12	6.96
19 (3/4)	200	130	10	1.98	43	210	140	12	7.08
20	210	140	10	2.56	44 (1-3/4)	210	140	12	7.44
21 (13/16)	210	140	10	2.78	45	210	140	12	7.56
22 (7/8)	210	140	10	2.90	46	210	140	12	7.68
23	210	140	10	3.04	47	210	140	12	8.04
24 (15/16)	210	140	10	3.26	48 (1-7/8)	210	140	12	9.00
25 (1")	210	140	10	3.40	49	210	140	12	9.36
26	210	140	10	3.62	50 (2")	210	140	12	9.60

NO.5005 Drill Stopper (P.41)

Can be used with the Augers and to adjust the exact drilling depth.

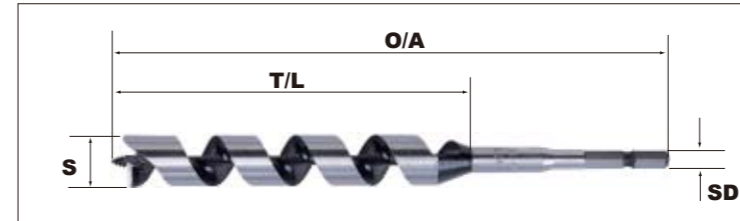


FOR GENERAL USE

NO.7 Impact Bit



For Impact Driver. This one has a long battery life. Also, the longlasting tool life by heat treatment of Hexagon Shank. For optimum safety, use a drill at 2,500 rpm or less.

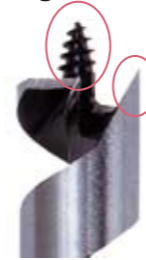


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Differences

Combination Auger Bit

Impact Bit



It can pro-long the battery life with reduced drilling resistance.

Middle Type

Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia
3	110	60	6.35
4	120	70	6.35
5	140	90	6.35
6 (1/4)	160	100	6.35
7	170	100	6.35
8 (5/16)	170	100	6.35
9	180	110	6.35
10 (3/8)	190	120	6.35
11 (7/16)	190	120	6.35
12	190	120	6.35
13 (1/2)	190	120	6.35
15	200	130	6.35
16 (5/8)	200	130	6.35
18 (11/16)	200	130	6.35
20	205	135	6.35
21 (13/16)	205	135	6.35
22 (7/8)	205	135	6.35
23	205	135	6.35
24 (15/16)	205	135	6.35
25 (1")	205	135	6.35

Short Type

Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia
3	80	45	6.35
4	80	45	6.35
5	90	50	6.35
6 (1/4)	90	50	6.35
7	90	50	6.35
8 (5/16)	90	50	6.35
9	100	60	6.35
10 (3/8)	100	60	6.35
11 (7/16)	100	60	6.35
12	100	60	6.35
13 (1/2)	120	70	6.35
14	120	70	6.35
15	120	70	6.35
16 (5/8)	120	70	6.35
17	120	70	6.35
18 (11/16)	120	70	6.35
19	120	70	6.35
20	130	80	6.35
21 (13/16)	130	80	6.35
22 (7/8)	130	80	6.35
23	130	80	6.35
24 (15/16)	130	80	6.35
25 (1")	130	80	6.35

Long Type

Unit mm (inch)

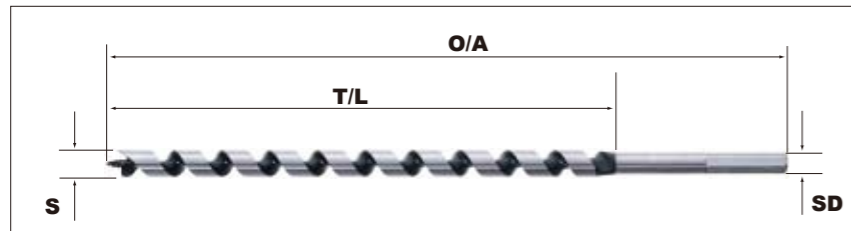
Size	O/A Length	Twist Length	Shank-Dia
3	185	125	6.35
4	190	130	6.35
5	210	150	6.35
6 (1/4)	210	150	6.35
8 (5/16)	225	165	6.35
9	240	180	6.35
10 (3/8)	250	190	6.35
11 (7/16)	250	190	6.35
12	270	195	6.35
13 (1/2)	270	195	6.35
15	280	205	6.35
16 (5/8)	280	205	6.35
18 (11/16)	310	235	6.35
19	310	235	6.35
20	310	235	6.35
21 (13/16)	310	235	6.35

FOR POWER TOOLS

NO.4 Power Drill Auger Bit



This is an item of the highest grade which withstands high speeds. It maintains high precision, and eliminates lateral vibration.

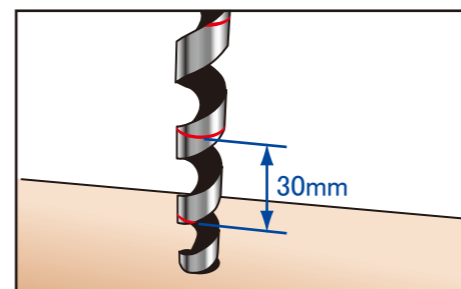
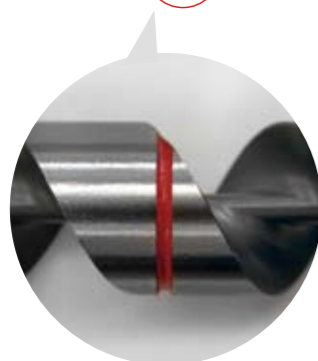


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz	Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
3	150	100	2.8	0.20	21 (13/16)	330	240	12	4.80
4	180	130	3.8	0.25	22 (7/8)	330	240	12	4.98
5	200	150	4.7	0.35	23	330	240	12	5.04
6 (1/4)	210	150	5.7	0.47	24 (15/16)	330	240	12	5.58
7	225	165	6.7	0.64	25 (1")	330	240	12	6.00
8 (5/16)	225	165	7	0.74	26	330	240	12	6.30
9	240	180	7	0.82	27 (1-1/16)	330	240	12	6.48
10 (3/8)	250	190	7	1.02	28	330	240	12	6.72
11 (7/16)	250	190	7	1.13	29 (1-1/8)	330	240	12	7.32
12	270	195	10	1.56	30 (1-3/16)	330	240	12	7.45
13 (1/2)	270	195	10	1.77	31	330	240	12	8.04
14 (9/16)	290	210	10	2.08	32 (1-1/4)	330	240	12	8.22
15	290	210	10	2.30	33	330	240	12	8.64
16 (5/8)	290	210	10	2.62	34	330	240	12	9.30
17	330	240	10	3.02	35 (1-3/8)	330	240	12	9.36
18 (11/16)	330	240	10	3.34	36	330	240	12	10.30
19 (3/4)	330	240	10	3.64	37 (1-7/16)	330	240	12	11.48
20	330	240	12	4.20	38 (1-1/2)	330	240	12	11.58

NO.4R Power Drill Auger Bit with depth marking

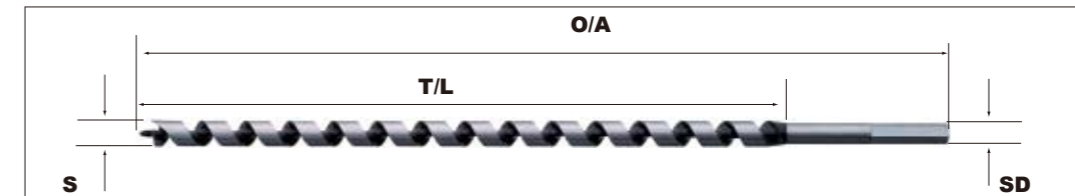


FOR POWER TOOLS

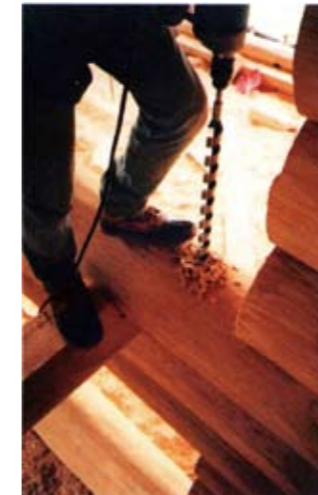
NO.4L Extra Long Power Auger Bit



This is an auger for deep boring which maintains high precision, and eliminates lateral vibration. When deep boring over 240mm is required, use this long Power Auger Bit.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia



OVERALL LENGTH 500L

Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
9	500	400	9	2.20
10 (3/8)	500	400	10	2.38
11 (7/16)	500	400	10	2.74
12	500	400	10	2.86
13 (1/2)	500	400	10	3.12
14 (9/16)	500	400	12	4.02
15	500	400	12	4.96
16 (5/8)	500	400	12	5.16
17	500	400	12	5.28
18 (11/16)	500	400	12	5.40
19 (3/4)	500	400	12	5.62
20	500	400	12	5.86
21 (13/16)	500	400	12	6.72
22 (7/8)	500	400	12	7.92
23	500	400	12	8.20
24 (15/16)	500	400	12	8.64
25 (1")	500	400	12	9.48
26	500	400	12	10.10
27 (1-1/16)	500	400	12	10.32
28	500	400	12	11.04
29 (1-1/8)	500	400	12	11.76
30 (1-3/16)	500	400	12	12.48

OVERALL LENGTH 400L

Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
9	400	300	9	1.72
10 (3/8)	400	300	10	1.98
11 (7/16)	400	300	10	2.24
12	400	300	10	2.44
13 (1/2)	400	300	10	2.55
14 (9/16)	400	300	12	3.12
15	400	300	12	3.42
16 (5/8)	400	300	12	3.96
17	400	300	12	4.05
18 (11/16)	400	300	12	4.32
19 (3/4)	400	300	12	4.52
20	400	300	12	4.76
21 (13/16)	400	300	12	4.92
22 (7/8)	400	300	12	6.36
23	400	300	12	6.70
24 (15/16)	400	300	12	7.08
25 (1")	400	300	12	7.68
26	400	300	12	8.22
27 (1-1/16)	400	300	12	8.76
28	400	300	12	8.82
29 (1-1/8)	400	300	12	8.88
30 (1-3/16)	400	300	12	9.60

OVERALL LENGTH 600L

Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
9	600	500	9	2.28
10 (3/8)	600	500	10	2.84
11 (7/16)	600	500	10	3.12
12	600	500	10	3.44
13 (1/2)	600	500	10	3.96
14 (9/16)	600	500	12	4.14
15	600	500	12	4.68
16 (5/8)	600	500	12	6.00
17	600	500	12	6.20
18 (11/16)	600	500	12	6.48
19 (3/4)	600	500	12	6.68
20	600	500	12	6.92
21 (13/16)	600	500	12	8.76
22 (7/8)	600	500	12	9.00
23	600	500	12	9.85
24 (15/16)	600	500	12	10.62
25 (1")	600	500	12	11.04
26	600	500	12	11.90
27 (1-1/16)	600	500	12	12.72
28	600	500	12	13.70
29 (1-1/8)	600	500	12	13.92
30 (1-3/16)	600	500	12	14.28

POWER TOOL ACCESSORIES

NO.7-SH Hollow Square Mortise Chisels and Bits

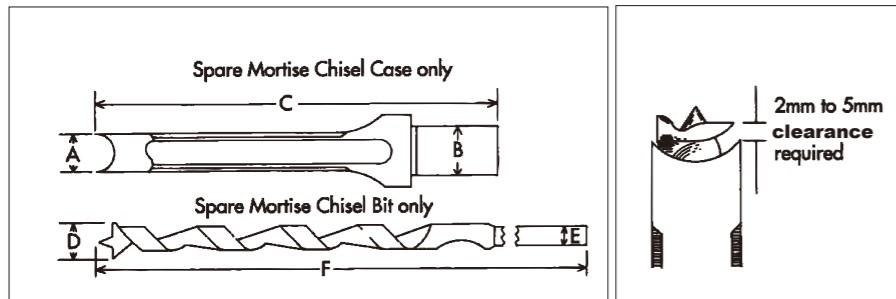


Available sizes: 1/4" to 1" dia.

Makes neat, quick square holes in wood. Chisels are finely ground and polished with honed cutting edges. Individually cartoned.

European Spec.13/16" chisel shank dia. American Spec.3/4" chisel shank dia.

High Carbon steel, precise cutting, guaranteed quality for professional use.



EUROPEAN SPEC. (13/16" Shank Dia.)

Size	A	B	C	D	E	F
1/4	6.4	20.6	133	6.4	4.3	246
5/16	8.0	20.6	138	7.8	4.3	250
3/8	9.5	20.6	138	9.3	6.3	250
7/16	11.0	20.6	138	10.8	6.3	250
1/2	12.7	20.6	138	12.5	9.52	250
9/16	14.0	20.6	138	13.8	9.52	250
5/8	15.9	20.6	160	15.7	12.7	272
11/16	17.5	20.6	160	17.5	12.7	272
3/4	19.0	30.1	190	19.2	12.7	302
7/8	22.2	30.1	190	22.4	12.7	302
1"	25.4	30.1	190	25.6	12.7	302

AMERICAN SPEC. (3/4" Shank Dia.)

Size	A	B	C	D	E	F
1/4	6.4	19.0	133	6.2	4.4	213
5/16	8.0	19.0	138	7.8	5.9	218
3/8	9.5	19.0	138	9.3	6.9	218
7/16	11.0	19.0	138	10.8	8.4	218
1/2	12.7	19.0	138	12.5	9.8	218
9/16	14.0	19.0	138	13.8	10.5	218
5/8	15.9	19.0	160	15.7	12.7	240
11/16	17.5	19.0	160	17.5	13.0	240
3/4	19.0	28.5	190	19.2	13.0	275
7/8	22.2	28.5	190	22.4	13.0	275
1"	25.4	28.5	190	25.6	13.0	275

JAPANESE SPEC. (3/4" Shank Dia.)

Size A	B	C	D	E	F
6.4 ~ 14.0	Same as American Spec.				
15.0	19.0	160	14.8	11.6	240
16.5	19.0	160	16.5	13.0	240
18.0	28.5	190	18.2	13.0	275
21.0	28.5	190	21.2	13.0	275
24.0	28.5	190	24.3	13.0	275
27.0	28.5	190	27.3	13.0	275
30.0	28.5	190	30.4	13.0	277

SETS

Auger Bit Set



NO.6-A
Combination Auger Bit 13pcs.Set

Assorted sizes

6. 8. 9. 11. 12. 13. 15. 16. 18
20. 21. 24. 25mm



NO.6-B
Combination Auger Bit 7pcs.Set

Assorted sizes

6. 9. 12. 15. 18. 21. 25mm



NO.6-D
Combination Auger Bit 5pcs.Set

Assorted sizes

6. 8. 9. 11. 12mm



NO.5
Combination Short Auger Bit A Set

Assorted sizes 6.9.12mm



NO.5
Combination Short Auger Bit B Set

Assorted sizes 3.4.5mm



NO.5
Combination Short Auger Bit C Set

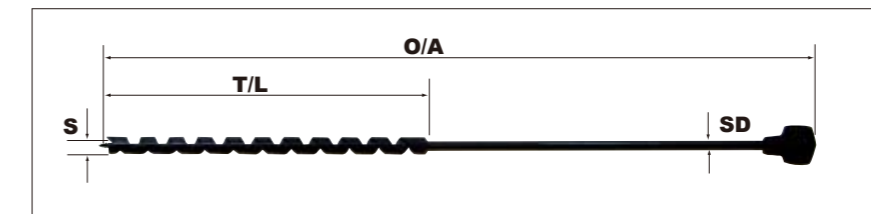
Assorted sizes 6.8.10mm

FOR MANUAL USE

NO.1 LONG TWIST RING AUGER



Among manually worked augers, this type can perform the deepest boring operation with even light pressure and smoothness.
Parkerizing finish for long lasting rust prevention.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

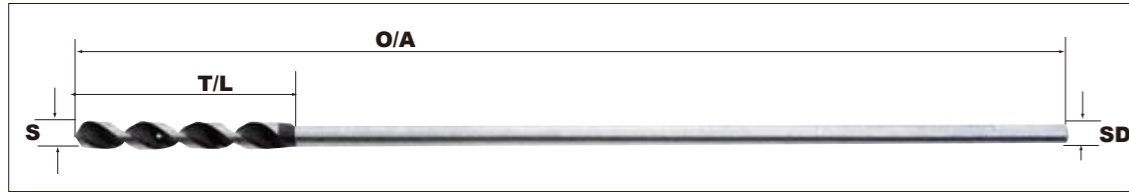
Unit mm (inch)

Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz	Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
6 (1/4)	410	160	6	1.46	20	590	300	10	6.97
8 (5/16)	455	190	7	1.96	21 (13/16)	590	300	10	8.16
9	480	210	7	2.01	22 (7/8)	590	300	10	9.12
10 (3/8)	500	225	7	2.16	24 (15/16)	600	310	13	10.60
11 (7/16)	500	225	7	2.48	25 (1")	600	310	13	10.98
12	520	240	7	2.77	27 (1-1/16)	600	310	13	12.00
13 (1/2)	520	240	7	3.20	29 (1-1/8)	600	310	13	13.16
14 (9/16)	560	270	10	4.80	30 (1-3/16)	600	310	13	13.80
16 (5/8)	560	270	10	5.40	32 (1-1/4)	600	310	13	14.40
17	590	300	10	5.75	35 (1-3/8)	600	310	16	18.24
18 (11/16)	590	300	10	6.34	37 (1-7/16)	600	310	16	18.84
19 (3/4)	590	300	10	6.44	38 (1-1/2)	600	310	16	19.68

FOR ELECTRICIANS

NO.100 Bell Hanger Bit

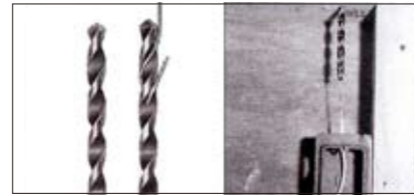
This bits are designed for installation of all types of small wire systems, including computer, security, phone, cable etc.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Unit inch (mm)

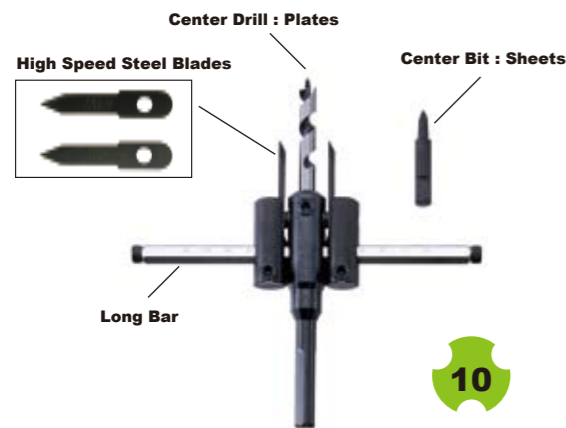
Size	O/A Length	Twist Length	Shank-Dia
1/4 (6)	18 (457)	4 (102)	(6.2)
5/16 (8)	18 (457)	4 (102)	(6.8)
3/8 (10)	18 (457)	4 (102)	(6.8)
7/16 (11)	18 (457)	4 (102)	(9.8)
1/2 (13)	18 (457)	4 (102)	(9.8)
9/16 (14)	18 (457)	4 (102)	(9.8)
5/8 (16)	18 (457)	4 (102)	(9.8)
11/16 (18)	18 (457)	4 (102)	(9.8)
3/4 (19)	18 (457)	4 (102)	(9.8)



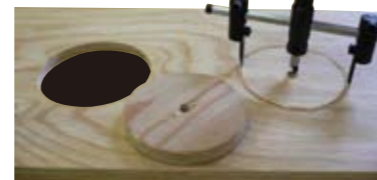
Pulling hole in flute for small wire installations.

NO.36 Adjustable Circle Cutter

Devised with technology to our company, it makes the most of the characteristics of two edges. From the rotation of the center bit, the two edges perform the same function as that of a saw set, producing a fine finish and giving outstanding cutting quality.



Cutting Range : 30mm - 120mm
Cutting Depth: One side 25mm
Both side 50mm



with safety cover (P.13)

	Size	Shank-Dia
Set	30mmX120mm	10
H.S.S. Blades	Set of 2 Spare Blades	
Center Drill	For plates	8
	For sheets	8
Long Bar	200mm	8
	300mm	8

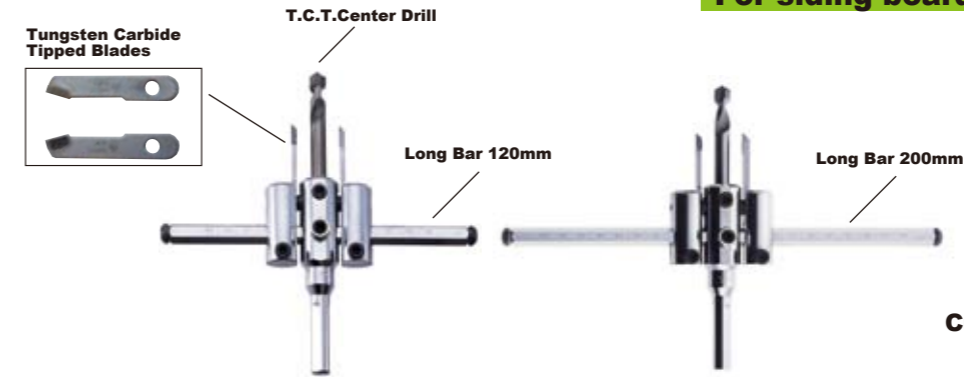
Unit mm

FOR ELECTRICIANS

NO.36T/TL T.C.T. Adjustable Circle Cutter (with Long Bar 200mm)



For siding board, hard wood

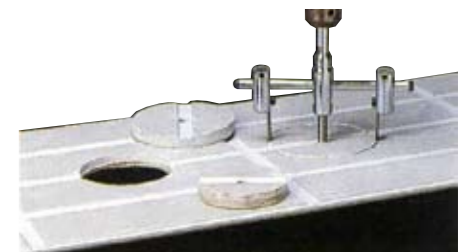


10

Cutting Range : 30mm - 120mm
30mm - 200mm
Cutting Depth: One side 25mm
Both side 50mm

	Size	Shank-Dia
Set	30mmX120mm	10
T.C.T. Blades	Set of 2 Spare Blades	
Center Drill		8
Long Bar	200mm	9
	300mm	9
Long Bar Set	30mmX200mm	10

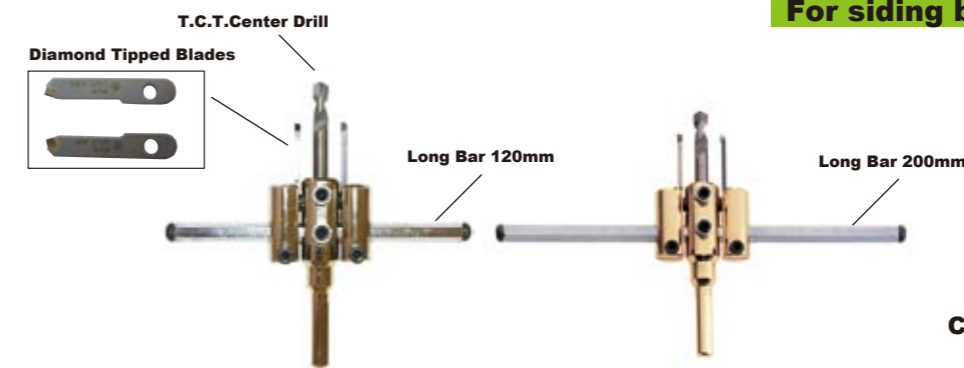
Unit mm



NO.36D/DL Diamond Adjustable Circle Cutter (with Long Bar 200mm)



For siding board



10

Cutting Range : 30mm - 120mm
30mm - 200mm
Cutting Depth: One side 25mm
Both side 50mm

	Size	Shank-Dia
Set	30mmX120mm	10
Diamond Tipped Blades	Set of 2 Spare Blades	
Center Drill		8
Long Bar	200mm	9
Long Bar Set	30mmX200mm	10

Unit mm



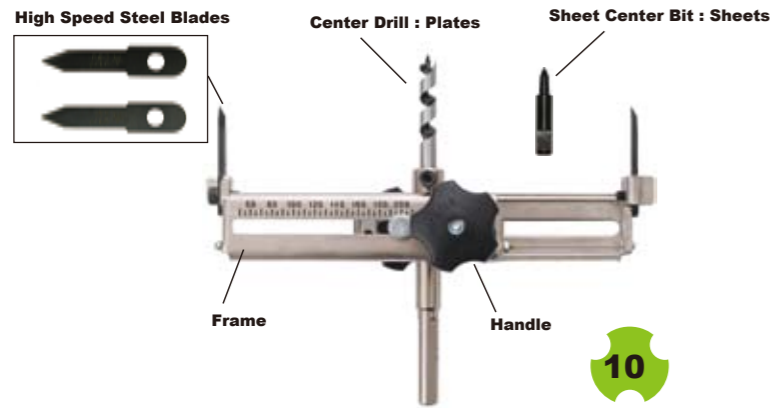
FOR ELECTRICIANS

NO.5010 Quick Adjustable Circle Cutter

Quick adjusting system with simultaneously sliding measurement frames of both blades yields an extremely easy to use product.



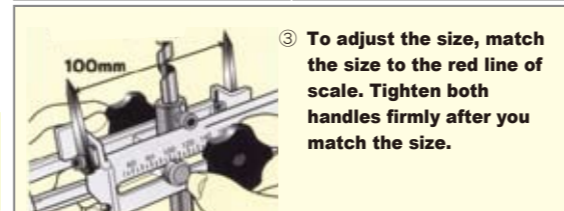
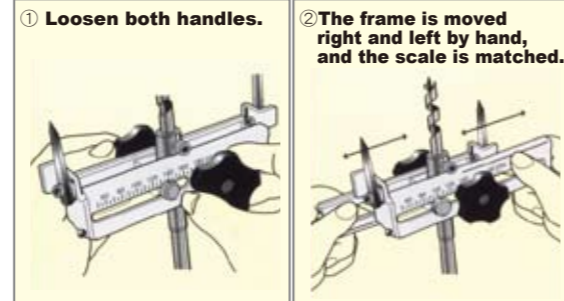
Cutting Range : 60mm - 200mm
Cutting Depth: One side 30mm
Both side 60mm



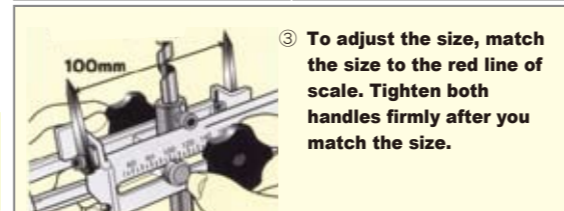
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	Size	Shank-Dia
Set	60mmX200mm	10
H.S.S. Blades	Set of 2 Spare Blades	
Center Drill	For plates	8
	For sheets	8

HOW TO USE



NO.5010T T.C.T.Quick Adjustable Circle Cutter



10

	Size	Shank-Dia
Set	60mmX200mm	10
T.C.T. Blades	Set of 2 Spare Blades	
Center Drill		8

Cutting Range : 60mm - 200mm
Cutting Depth: One side 25mm
Both side 50mm



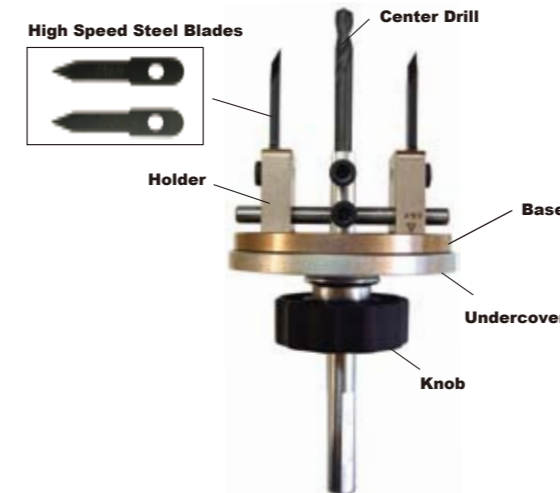
FOR ELECTRICIANS

NO.5010S Plumbing Circle Cutter

Perfect for smaller diameter holes.



Cutting Range : 25mm - 65mm
Cutting Depth: One side 30mm
Both side 60mm



10

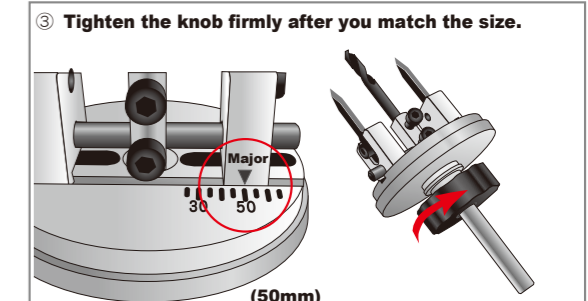
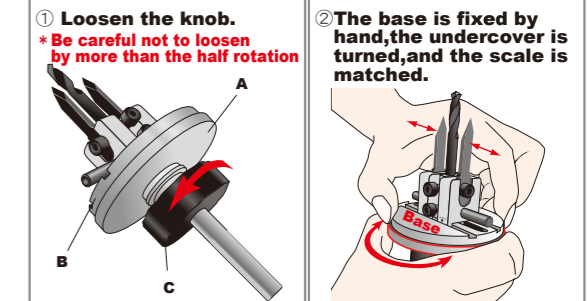
	Size	Shank-Dia
Set	25mmX65mm	10
H.S.S. Blades	Set of 2 Spare Blades	
Center Drill		8



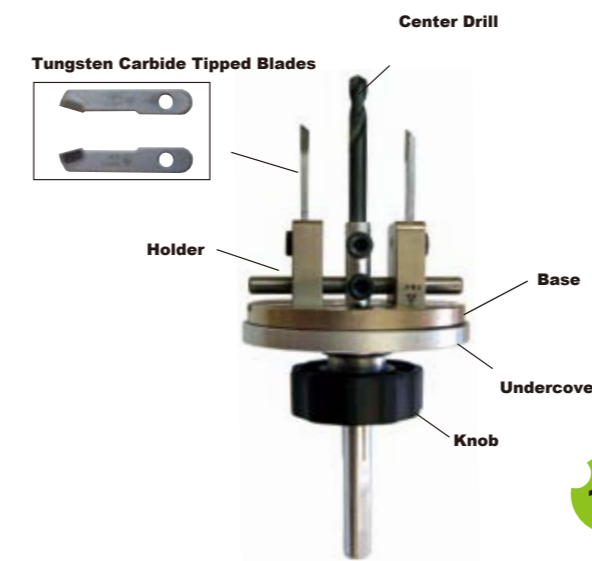
Easy-to-use adjustments.

A:Undercover B:Base C:Knob

HOW TO USE



NO.5010ST Plumbing Circle Cutter



10

	Size	Shank-Dia
Set	25mmX65mm	10
T.C.T. Blades	Set of 2 Spare Blades	
Center Drill		8

Cutting Range : 25mm - 65mm
Cutting Depth: One side 30mm
Both side 60mm

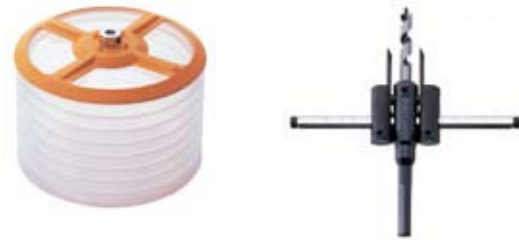


FOR ELECTRICIANS

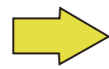
NO.5006A-36 Adjustable Circle Cutter with Safety Cover



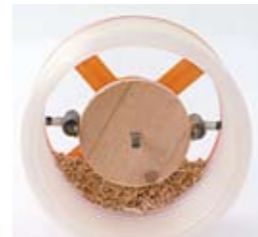
For use with most transparent safety cover to retain woodchips while drilling.
Especially useful when drilling ceilings etc.



For those difficult ceiling jobs.



Woodchip will not be scattered away.



For a tidy work environment.

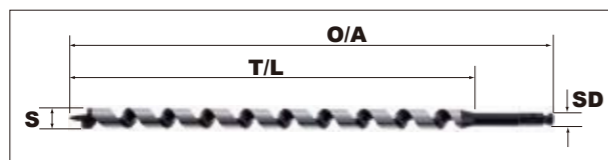
NO.10 Extension Bar



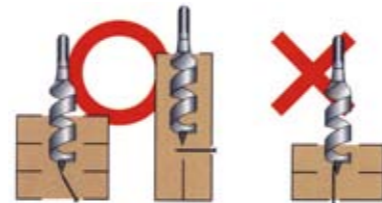
Unit inch (mm)

O/A Length	Shank-Dia
9" (220)	1/2(12.5)
18" (457)	1/2(12.5)
24" (610)	1/2(12.5)

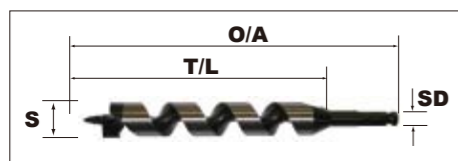
NO.8 Long Ship Auger



S=Size O/A=Overall Length 18" (457) T/L=Twist Length 15" (381)
SD=Shank-Dia 1/2" (12.5) OAL HARDENED



NO.7A Short Ship Auger



S=Size O/A=Overall Length 7-1/2" (190) T/L=Twist Length 5-5/16" (135)
SD=Shank-Dia 1/2" (12.5) OAL HARDENED

Unit inch (mm)

Available Size for NO.8 & NO.7A							
3/8"	(10)	7/16"	(11)	1/2"	(13)	9/16"	(14)
5/8"	(16)	11/16"	(18)	3/4"	(19)	13/16"	(21)
7/8"	(22)	15/16"	(24)	1"	(25)	1-1/16"	(27)
1-1/8"	(29)	1-3/16"	(30)	1-1/4"	(32)		
1-3/8"	(35)	1-1/2"	(38)				

FOR SPECIAL USES

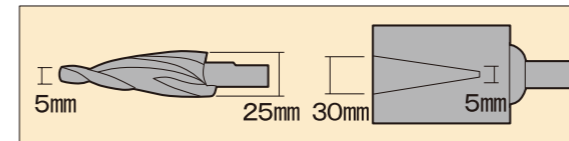
NO.4950 Knot Remover



A set capable of easily regenerating dead knots and missing knots.
Available from 5mm — 25mm.



- ① Shave with a taper drill along the diameter of the knot.
- ② Shave with a wooden plug under a branch a little thicker than the hole of the knot.
- ③ Drive a wooden plug coated with a bonding agent into the hole made in the knot with a taper drill.
- ④ Cut off the projecting part of the wooden plug, plane sand finish to it, and it will turn into a beautiful live knot instantly.



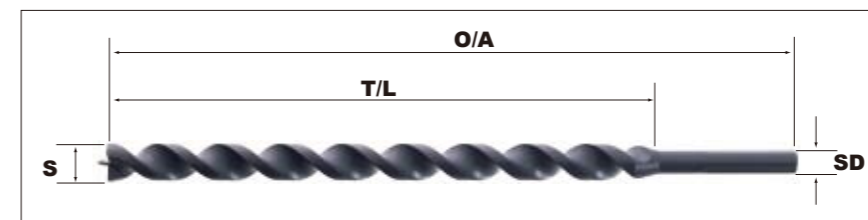
Unit mm

Set	Shank-Dia
Taper Drill	10
Dowel Cutter	10

NO.82 Double Spur Drill



The screw point is made of High Speed Steel and is replaceable.
Long tool life is ensured.
Wood chip ejection is quite smooth because of the Teflon Coated process.



Tungsten Carbide Tips

S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Unit mm

Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
12	350	280	10	19	350	280	12
13	350	280	10	20	350	280	12
15	350	280	12	21	350	280	12
16	350	280	12	22	350	280	12
18	350	280	12	24	350	280	12



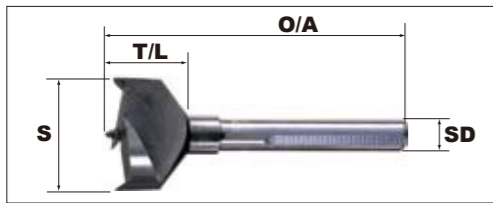
FOR SPECIAL USES

NO.13 Hinge Bit

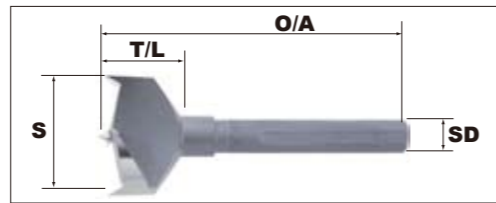


- NO.13A Hinge Bit Screw Point Type
- NO.13B Hinge Bit Square Point Type

- NO.13C H.S.S. Hinge Bit Screw Point Type
- NO.13C H.S.S. Hinge Bit Square Point Type



10



10

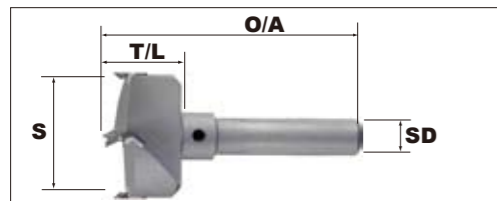
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size	O/A Length	Twist Length	Shank-Dia
25	95	25	10
26	95	25	10
30	95	25	10
35	95	25	10
40	95	25	10

S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size	O/A Length	Twist Length	Shank-Dia
26	95	25	10
30	95	25	10
35	95	25	10
40	95	25	10

- NO.13D Adjustable Hinge Bit T.C.T.Square Point Type



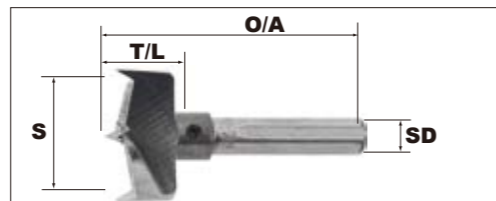
10

S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size	O/A Length	Twist Length	Shank-Dia
26	70	20	10
30	70	20	10
35	70	20	10
40	70	20	10

Replacement inner drill (3.0 *60L straight type)

- NO.13F Adjustable Hinge Bit

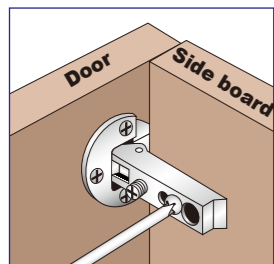


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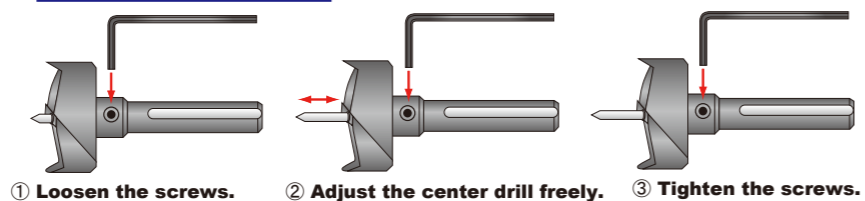
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size	O/A Length	Twist Length	Shank-Dia
25	70	17	10
26	70	17	10
30	70	17	10
35	70	17	10
40	70	17	10

Replacement inner drill (3.0 *60L straight type)

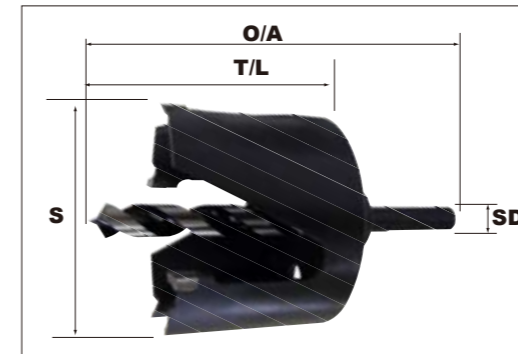


NO.13D / NO.13F



FOR SPECIAL USES

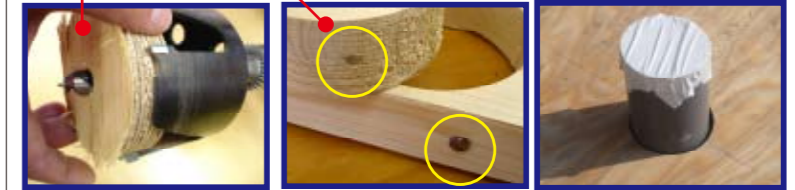
NO.5020 Hole Saw



13

Easy to take out works

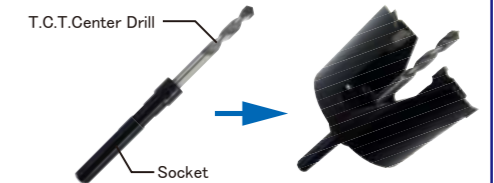
Ability to cut embedded nails



T.C.T.teeth



If you change to T.C.T.Center Drill with socket, it is available for siding boards.



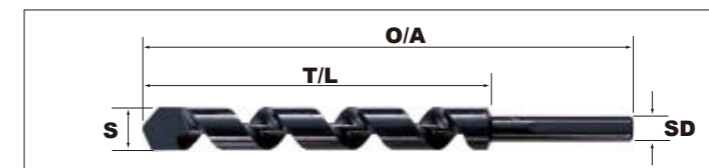
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Saw Diameter	Cutting Diameter	O/A Length	Twist Length	Shank-Dia
65	67	180	50	13
95	97	180	50	13
110	112	180	50	13
Center Drill	8	90		
Socket for T.C.T.Center Drill		100		



NO.25 Plastic Bit

Multi-purpose bit for boring holes in wood, plastic, aluminum, PVC, etc.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
3	80	45	3	11	140	100	7
4	100	60	4	12	140	100	7
5	100	60	5	13	140	100	7
6	120	80	6	14	140	100	7
7	120	80	7	15	140	100	7
8	120	80	7	16	140	100	7
9	140	100	7	17	140	100	7
10	140	100	7	18	140	100	7



FOR SPECIAL USES

NO.99/99X Corrugated Sheet Bit



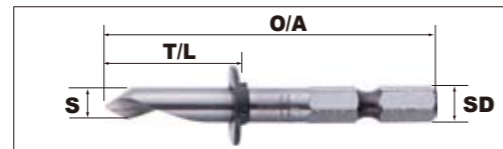
NO.99
Corrugated Sheet Bit for manual use



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length
5.5	120	25
6.5	120	25

NO.99X
Corrugated Sheet Bit with hexagon shank

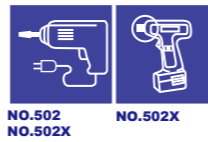


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

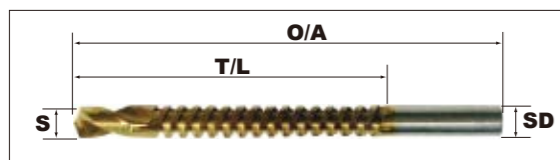
Size	O/A Length	Twist Length	Shank-Dia
5.5	65	25	6.35
6.5	65	25	6.35

NO.502/502X Drill Saw

The drill shaft has sharp teeth which allow cuts to be made in any direction to any shape.



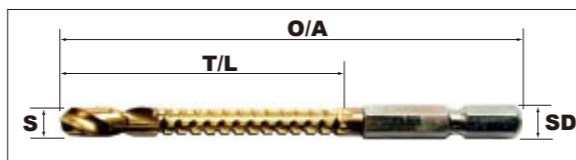
NO.502
Drill Saw with round shank



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
6	95	68	6

NO.502X
Drill Saw with hexagon shank



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
5	102	63	6.35
6	102	63	6.35
7	102	63	6.35



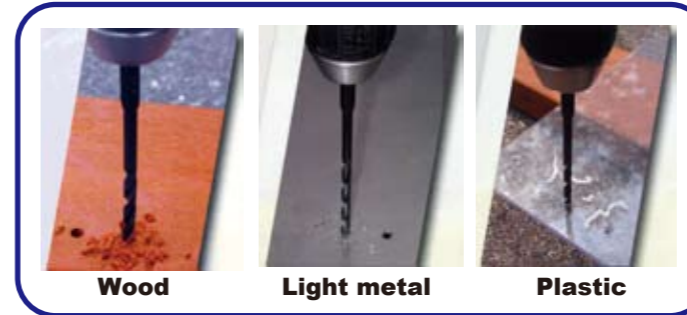
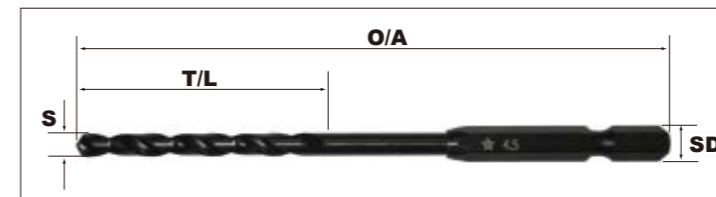
For enlarging existing holes.



For cutting out odd shapes.

FOR SPECIAL USES

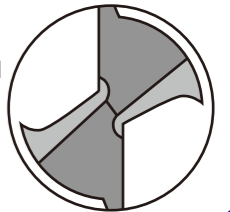
NO.5000 H.S.S.Auger Bit



Split point web thinning

The cutting performance near the center is satisfactory, and the point in the chisel portion minimizes load concentration.

Cutter head

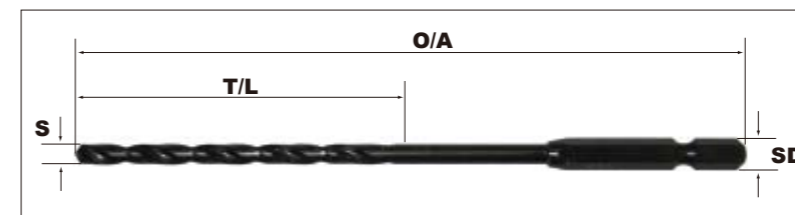


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Unit mm

Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
2	87	23	6.35	8	115	70	6.35
3	103	32	6.35	9	115	70	6.35
4	113	42	6.35	10	115	70	6.35
5	122	51	6.35	11	115	70	6.35
6	127	56	6.35	12	115	70	6.35
7	115	70	6.35	13	115	70	6.35

NO.5002 H.S.S.Long Auger Bit



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

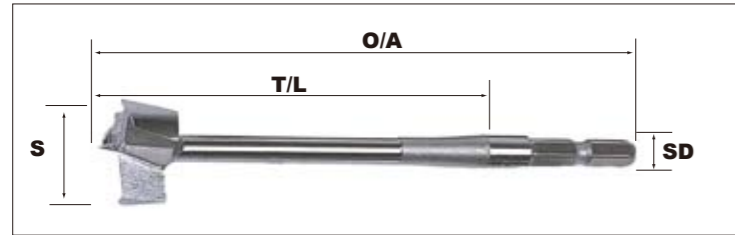
Unit mm

Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
2.5	150	65	6.35	4.2	150	70	6.35
3	150	65	6.35	4.5	150	70	6.35
3.2	150	65	6.35	5	150	75	6.35
3.5	150	65	6.35	5.5	175	90	6.35
3.8	150	70	6.35	6	175	90	6.35
4	150	70	6.35	6.5	175	90	6.35

FOR SPECIAL USES

NO.5008 Triple Cutter

Three edges for light and quick chip ejection.



- ① Flat-bottom holes
- ② Curved holes
- ③ Through holes
- ④ Overlapped holes
- ⑤ Semicircular holes
- ⑥ Angled pocket holes



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

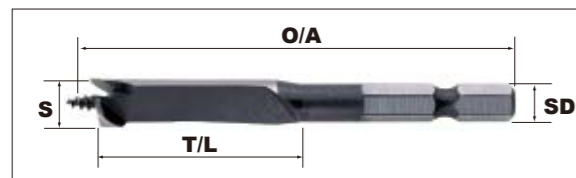
Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
10	130	28	6.35	23	130	28	6.35
12	130	28	6.35	24	130	28	6.35
13	130	28	6.35	25	130	28	6.35
15	130	28	6.35	26	130	28	8
16	130	28	6.35	27	130	28	8
18	130	28	6.35	28	130	28	8
19	130	28	6.35	30	130	28	8
20	130	28	6.35	32	130	28	9
21	130	28	6.35	33	130	28	9
22	130	28	6.35	35	130	28	9

FOR CONSTRUCTION WORK

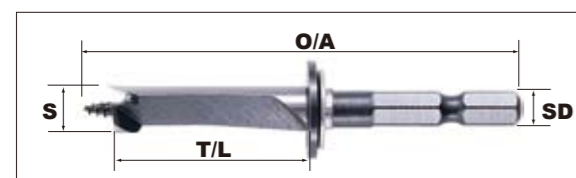
NO.72/72-S Form-Tie Bit / with Stopper



NO.72 Form-Tie Bit



NO.72-S Form-Tie Bit with Stopper

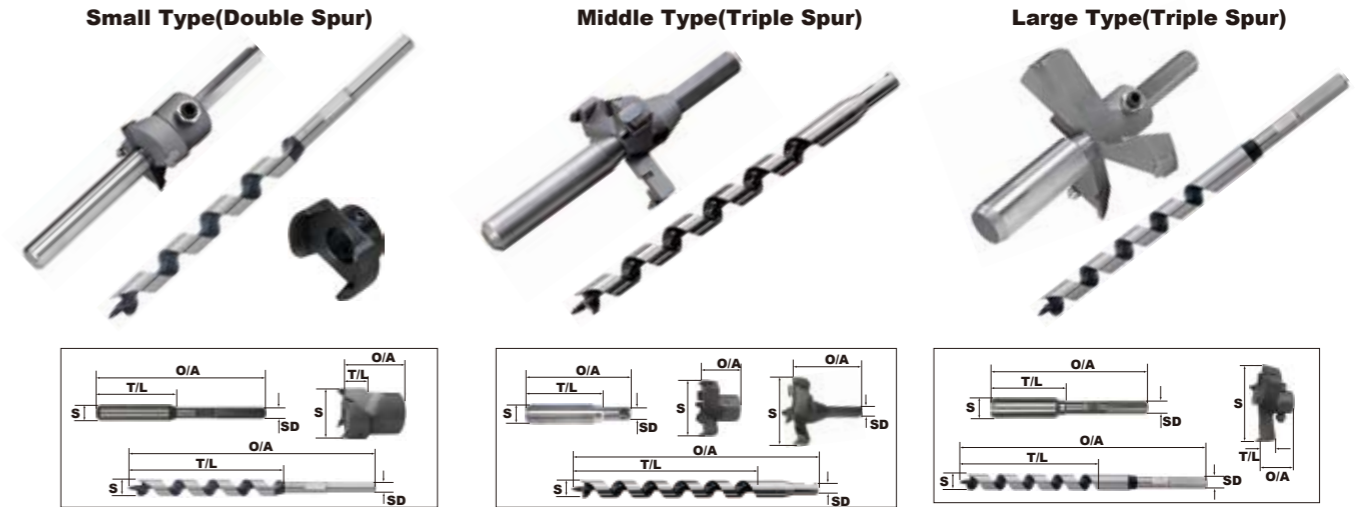


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size	O/A Length	Twist Length	Shank-Dia
8	82	37	6.35
8.5	82	37	6.35
9	82	37	6.35
10	82	37	6.35
10.5	83	37	6.35
12	84	37	6.35
13.5	84	37	6.35
15	85	37	6.35

FOR CONSTRUCTION WORK

NO.28 T.C.T.Bolt Filling Bit



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size (Guide X Cutter)	Size (Guide X Cutter)	Size (Guide X Cutter)
9X24	12X24	15X30
9X27	12X30	15X35
9X30	12X33	15X36
	12X35	15X40
	12X36	15X45
	12X40	21X45
	12X45	

Unit mm

Size	O/A Length	Twist Length	Shank Dia
9 Guide	150	70	8
9 Drill	200	120	8
24 Cutter	36		
27 Cutter	36		
30 Cutter	36		

Unit mm

Size	O/A Length	Twist Length	Shank Dia
12 Guide	150	70	10
12 Drill	220	140	10
15 Guide	150	70	10
15 Drill	220	140	10
21 Guide	150	70	10
21 Drill	220	140	10
24 Cutter	36		
30 Cutter	36		
33 Cutter	36		
35 Cutter	36		
36 Cutter	36		
40 Cutter	36		
45 Cutter	36		

Unit mm

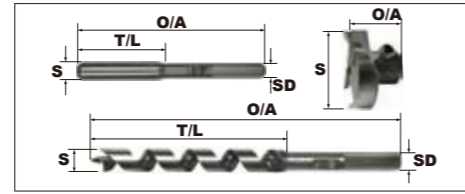
Size	O/A Length	Twist Length	Shank Dia
15 Guide	82	60	10
15 Drill	222	170	10
18 Guide	82	60	10
18 Drill	222	170	10
21 Guide	82	60	10
21 Drill	222	170	10
24 Guide	82	60	10
24 Drill	222	170	10
50 Cutter	36		
55 Cutter	65		11
60 Cutter	65		11
65 Cutter	65		11

Unit mm

Size	O/A Length	Twist Length	Shank Dia
18 Guide	150	70	13
18 Drill	280	170	13
21 Guide	150	70	13
21 Drill	280	170	13
75 Cutter	40		
80 Cutter	40		
85 Cutter	40		
90 Cutter	40		
95 Cutter	40		

FOR CONSTRUCTION WORK

NO.28H H.S.S.Bolt Filling Bit



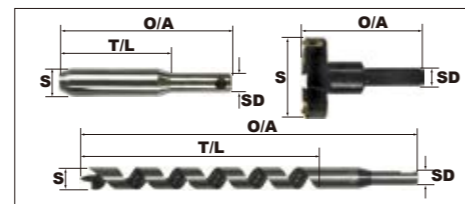
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Size	O/A Length	Twist Length	Shank Dia
15 Guide Drill	150	70	12
18 Guide Drill	150	70	12
21 Drill	210	135	12
55 Cutter	40		
60 Cutter	40		
65 Cutter	40		

Unit mm

Size (Guide X Cutter)	
15X55	18X55
15X60	18X60
15X65	18X65
21X65	

NO.29 H.S.S.Bolt Filling Bit with Replaceable Blades

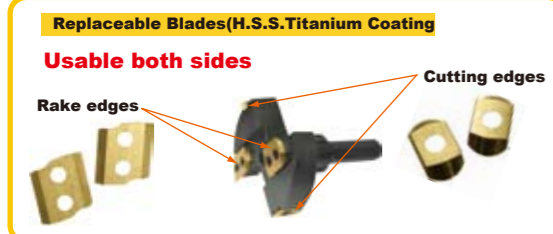


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Size	O/A Length	Twist Length	Shank Dia
15 Guide Drill	92	60	10
18 Guide Drill	232	170	10
55 Cutter	85		12
60 Cutter	85		12
65 Cutter	85		12

Unit mm

Size (Guide X Cutter)	
15X55	18X60
15X60	18X65
15X65	

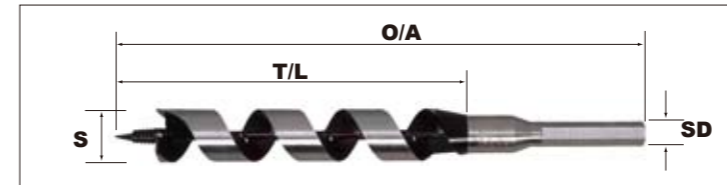


FOR CONSTRUCTION WORK

NO.88 Angle Bit



Particular screw points dig in to prevent "Sliding" or "Slipping" that ruins workpieces.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia



No slip by particular screw shape.

Short Type

Unit mm

Size	O/A Length	Twist Length	Shank-Dia
18	120	70	10
19	120	70	10
19.5	130	80	10
20	130	80	10
21	130	80	10
22	130	80	10
23	130	80	10
24	130	80	10
25	130	80	10
26	130	80	10
30	130	80	10
32	140	90	12
33	140	90	12
34	140	90	12
35	140	90	12

Middle Type

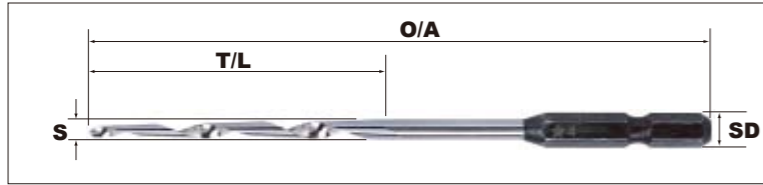
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
18	200	130	10
19	200	130	10
19.5	210	140	10
20	210	140	10
21	210	140	10
22	210	140	10
24	210	140	10
30	210	140	10
32	210	140	12
33	210	140	12
34	210	140	12
35	210	140	12

FOR CONSTRUCTION WORK

NO.75B Taper Point Bit

Ideals for pre-hole of nail and wood screw.



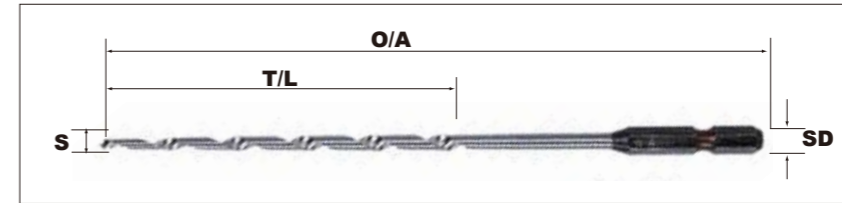
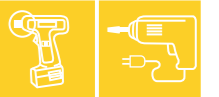
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	Contents of Set	O/A Length	Twist Length	Shank-Dia
A set	3 · 4 · 5mm			6.35
B set	4 · 5 · 6mm			6.35
3mm		110	45	6.35
4mm		125	60	6.35
5mm		135	70	6.35
6mm		135	70	6.35



FOR CONSTRUCTION WORK

NO.75L Long Taper Point Bit

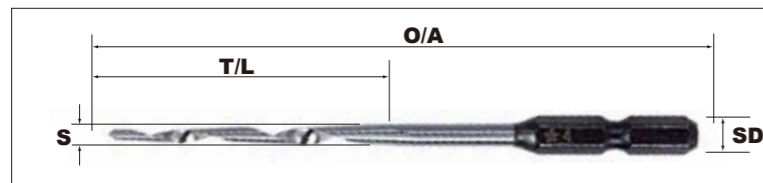


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
4mm	165	100	6.35
5mm	180	115	6.35
6mm	180	115	6.35



NO.75S Short Taper Point Bit



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	Contents of Set	Shank-Dia
A set	3 · 4 · 5mm	6.35
B set	4 · 5 · 6mm	6.35

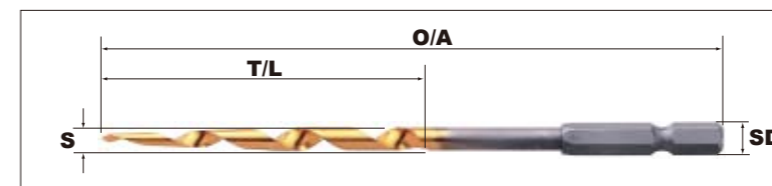
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
3mm	90	35	6.35
4mm	105	50	6.35
5mm	115	60	6.35
6mm	115	60	6.35



NO.75HT H.S.S.Taper Point Bit (Titanium Coating)

Perfect for Hard Wood. High Durability.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

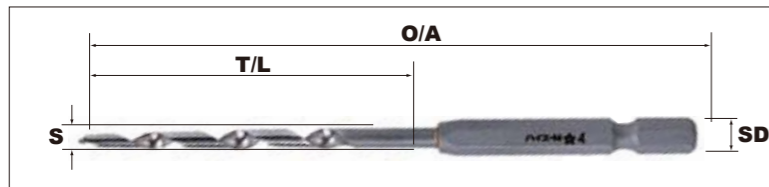
Size	Contents of Set	O/A Length	Twist Length	Shank-Dia
A set	3 · 4 · 5mm			6.35
B set	4 · 5 · 6mm			6.35
3mm		110	45	6.35
4mm		125	60	6.35
5mm		135	70	6.35
6mm		135	70	6.35



FOR CONSTRUCTION WORK

NO.75-HSM H.S.S.Taper Point Bit - M

Applicable for Hard Wood.

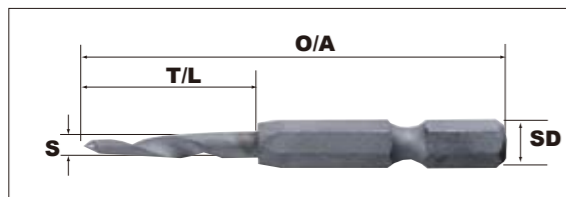


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	Contents of Set	O/A Length	Twist Length	Shank-Dia
A set	3 · 4 · 5mm			6.35
3mm		105	40	6.35
4mm		120	55	6.35
5mm		130	65	6.35



NO.75-Mi H.S.S.Taper Point Bit "MINI"



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
3mm	60	20	6.35
4mm	60	20	6.35
5mm	60	20	6.35



Series of Taper Point Bit

- No75B
Taper Point Bit
- No.75-S
Short Taper Point Bit
- No.75L
Long Taper Point Bit
- No.75HT
H.S.S.Taper Point Bit (Tin-Coated)
- No.75-Mi
H.S.S.Taper Point Bit "MINI"
- No.75-HSM
H.S.S.Taper Point Bit - M

In case of using the
wood screw directly



In case of using our
Taper Point Bit

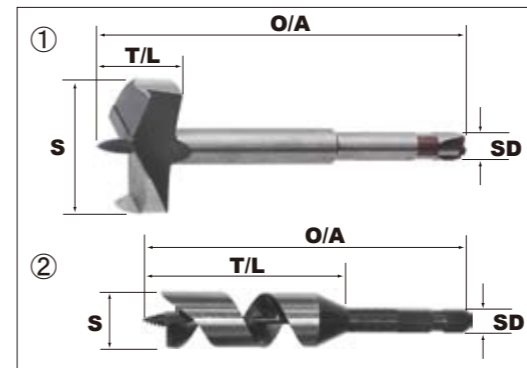
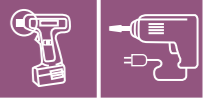


Prevent wood from breaking and easy to hit the nail

FOR DOOR LOCKS

NO.11 Lock Auger

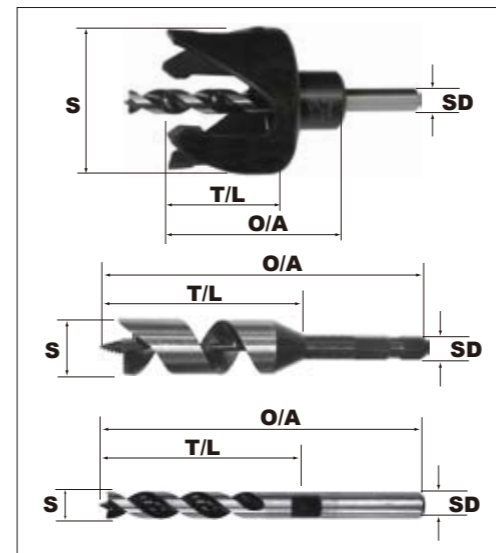
Used exclusively for fixing door locks in entrance halls or in rooms.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
54	160	30	12
22	130	80	10

NO.12 Cup Type Lock Auger



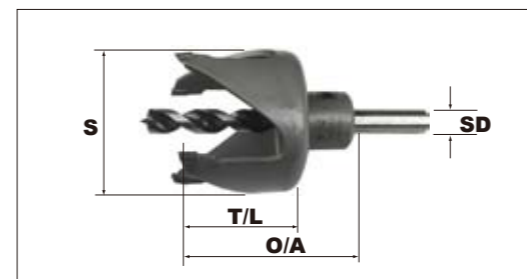
NO.12A Cup Type Lock Auger Set



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
54	60	40	9
22	130	80	10
Center Drill 9	110	55	9

NO.12T T.C.T.Cup Type Lock Auger



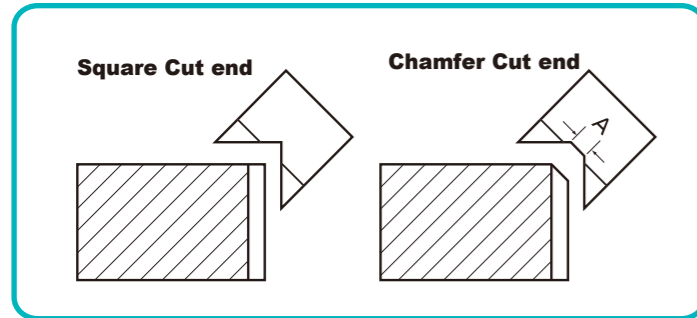
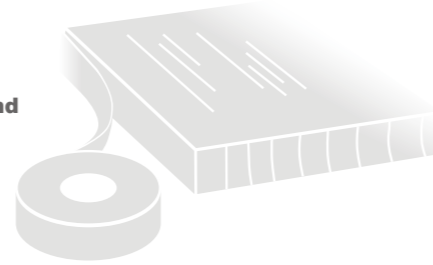
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
54	60	40	9

FOR FURNITURE

NO.4951 Steel Type Edge Trimmer

This cutter is used for cutting off the excess dressing tape on furniture and furnishings, and has excellent cutting quality. Compact size, it can be used easily in narrow spaces. PAT.NO.1987802



Re-sharpenable cutting edge



Unit mm

Size	
Square Cut	15.5x60x20
Chamfer Cut (1.0)	15.5x60x20
Chamfer Cut (0.6)	15.5x60x20

NO.4953 Ceramic Type Edge Trimmer



Unit mm

Size	
Square Cut	22x76x30
Chamfer Cut (1.0)	22x76x30
Chamfer Cut (0.6)	22x76x30
Chamfer Cut (0.3)	22x76x30

NO.4960 Grip Type Edge Trimmer

Re-sharpenable cutting edge



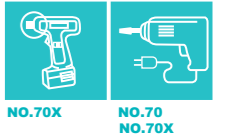
Unit mm

Size	
Square Cut	25x80x45
Chamfer Cut (1.0)	25x80x45
Chamfer Cut (0.6)	25x80x45

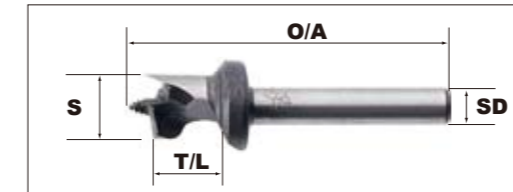
FOR FURNITURE

NO.70/70X Dowel Bit

Holes of a fixed depth are available when boring in wood or shelving, or when hiding a nail.



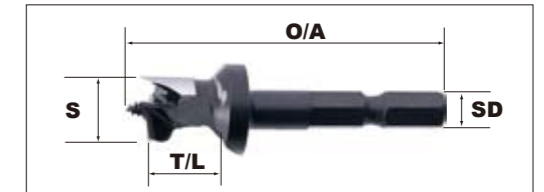
NO.70 Dowel Bit with Round Shank



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	Cutting Diameter	O/A Length	Twist Length	Shank-Dia
8	7.5	54	8	6.5
9	8.5	55	9	6.5
10	9.5	56	10	6.5
11	10.5	57	11	6.5
12	11.5	58	12	6.5

NO.70X Dowel Bit with Hexagon Shank



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

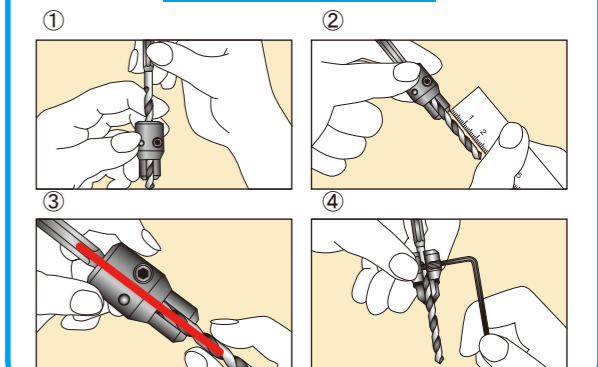
Size	Cutting Diameter	O/A Length	Twist Length	Shank-Dia
6	5.5	52	6	6.35
8	7.5	54	8	6.35
9	8.5	55	9	6.35
10	9.5	56	10	6.35
11	10.5	57	11	6.35
12	11.5	58	12	6.35

FOR COUNTERSINK

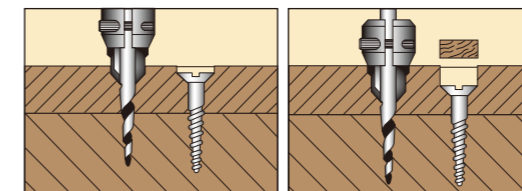
NO.501 Adjustable Countersink with Carbide-tipped



HOW TO USE



- Put the inner drill into countersink
- Adjust depth of pre-hole.
- Match between cutting edges and center of inner drills.
- Tighten the screw on both sides.



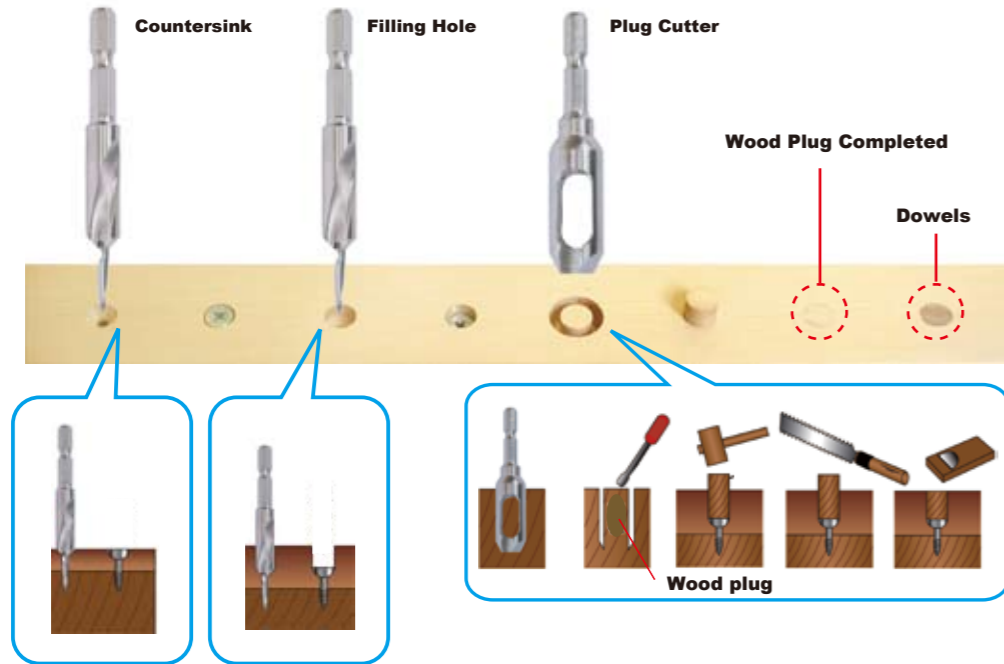
Unit mm

Size of inner drill	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.2
Size of countersink	11.0	11.5	12.0	12.5	13.0	13.5	14.0	15.0	16.0

FOR COUNTERSINK

NO.58S Countersink & Plug Cutter

Precision tools for countersinking and hiding wood screws from view. Recommended for covering fastener holes in furniture, cabinetry, floors, decks, and other woodworking projects by same materials. Drills screw holes in one operation.



Countersink Drill with hexagon shank (Taper Shape Type)

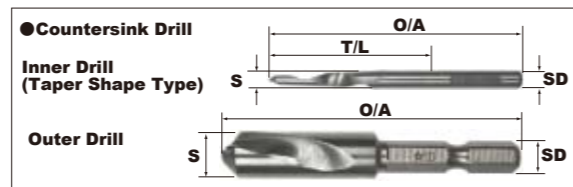
Size	Shank-Dia
3X8	6.35
3X9	6.35
3.5X10	6.35
4X10.5	6.35
4X12	6.35

Plug Cutter with hexagon shank

Size	O/A Length	Twist Length	Shank-Dia
8	74	25	6.35
9	74	25	6.35
10	74	25	6.35
10.5	74	25	6.35
12	74	25	6.35

Set

Size	Contents of Set	Shank-Dia
3X8	Countersink Drill 3X8 & Plug Cutter 8mm	6.35
3X9	Countersink Drill 3X9 & Plug Cutter 9mm	6.35
3.5X10	Countersink Drill 3.5X10 & Plug Cutter 10mm	6.35
4X10.5	Countersink Drill 4X10.5 & Plug Cutter 10.5mm	6.35
4X12	Countersink Drill 4X12 & Plug Cutter 12mm	6.35



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Inner Drill (Taper Shape Type)

Size	O/A Length	Twist Length	Shank-Dia
3	48	20	3
3.5	48	20	3.5
4	48	20	4

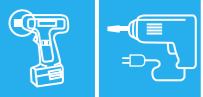
Outer Drill

Size	O/A Length	Twist Length	Shank-Dia
8	64	20	6.35
9	64	20	6.35
10	64	20	6.35
10.5	64	20	6.35
12	64	20	6.35

FOR COUNTERSINK

NO.58X H.S.S.Countersink & Plug Cutter

Countersink drill can easily make the pre-hole for countersink of a wood screw. Also, the plug cutter is the most suitable for processing of wood plugs (dowel wood). Separate sales for replaceable H.S.S. inner drill. Long tool life.



H.S.S.Countersink Drill with hexagon shank (Taper Shape Type)

Size	Shank-Dia
3X9	6.35
3.5X10	6.35
4X10.5	6.35

H.S.S.Countersink Drill with hexagon shank (Straight Shape Type)

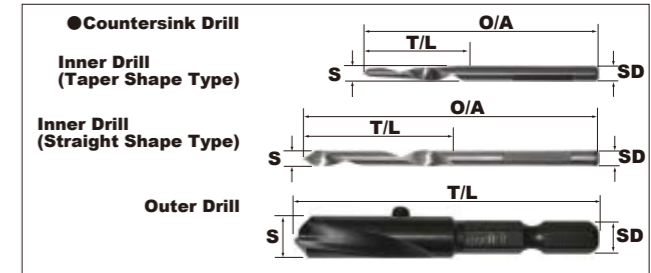
Size	Shank-Dia
3X9	6.35
3.5X10	6.35
4X10.5	6.35

H.S.S.Plug Cutter with hexagon shank

Size	O/A Length	Twist Length	Shank-Dia
9	74	25	6.35
10	74	25	6.35
10.5	74	25	6.35

Set

Size	Contents of Set	Shank-Dia
3X9	Countersink Drill 3X9 & Plug Cutter 9mm	6.35
3.5X10	Countersink Drill 3.5X10 & Plug Cutter 10mm	6.35
4X10.5	Countersink Drill 4X10.5 & Plug Cutter 10.5mm	6.35



Inner Drill (Taper Shape Type)

Size	O/A Length	Twist Length	Shank-Dia
3	48	20	3
3.5	48	20	3.5
4	48	20	4

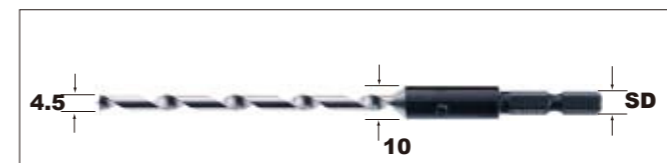
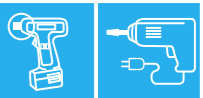
Inner Drill (Straight Shape Type)

Size	O/A Length	Twist Length	Shank-Dia
3	58	30	3
3.5	58	30	3.5
4	58	30	4

Outer Drill

Size	O/A Length	Twist Length	Shank-Dia
9	64	20	6.35
10	64	20	6.35
10.5	64	20	6.35

NO.58XW H.S.S.Countersink & Plug Cutter for Wood Deck



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia

Size	Screw Size	Shank-Dia
4.5x10x60L	35L x 5.5	6.35
4.5x10x70L	45L x 5.5	6.35
4.5x10x80L	55L x 5.5	6.35
4.5x10x90L	65L x 5.5	6.35
4.5x10x100L	75L x 5.5	6.35
4.5x10x115L	90L x 5.5	6.35

Inner Drill (Straight Shape Type)

Size (O/A Length)	Twist Length	Shank-Dia
4.5 (60L)	40	4.5
4.5 (70L)	50	4.5
4.5 (80L)	60	4.5
4.5 (90L)	70	4.5
4.5 (100L)	80	4.5
4.5 (115L)	95	4.5

Outer Drill

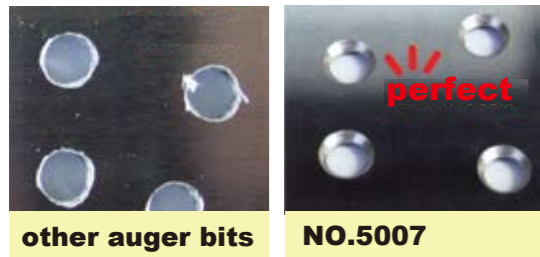
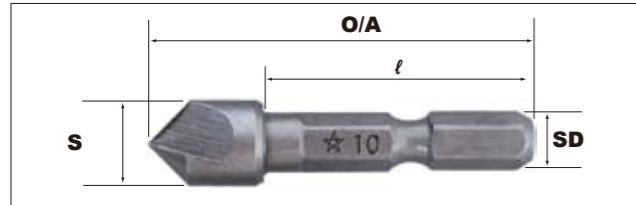
Size	O/A Length	Maximum Depth	Shank-Dia
10	64	20	6.35



FOR COUNTERSINK

NO.5007 H.S.S.Countersink

High speed steel countersink are milled and precisely ground for countersinking on metal, wood, aluminium.

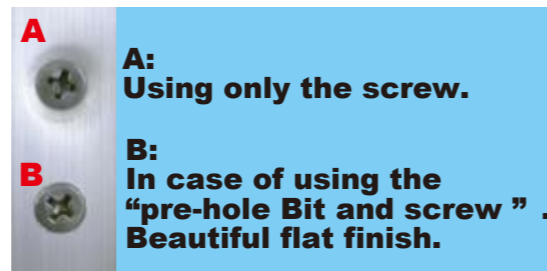


S=Size O/A=Overall Length l=Shank Length SD=Shank-Dia
Unit mm

Size	O/A Length	Shank Length	Shank-Dia
6	42	32	6.35
8	44	32	6.35
10	46	32	6.35
12	48	32	6.35
16	52	32	6.35

NO.5009 Pre-hole Bit

Set of pre-hole bit and screw



S=Size O/A=Overall Length SD=Shank-Dia
Unit mm

Size	Bit size	O/A Length	Shank-Dia
⊕ #1	1.5	65	6.35
⊕ #2	1.5	65	6.35

FOR COUNTERSINK

NO.14 Adjustable Countersink / Bores



Regular wood drills have a straight shape - despite that screws are tapered. This drill has a taper shape (like a screw) and each drill comes with an adjustable Stop Collar and Countersink/Counterbore.

In one operation you can completely prepare the wood for the threads and screw heads. These bits feature a single twist design that ejects chips more efficiently and resists clogging. Sets include tapered drills, countersinks and stop collars.

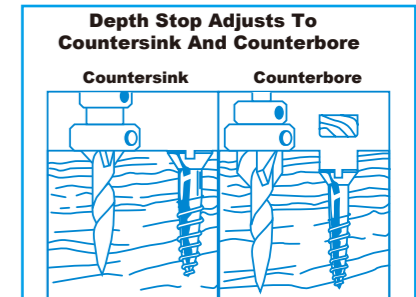
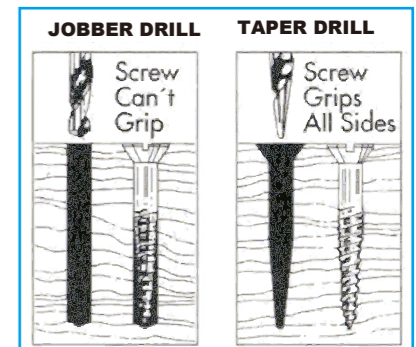


Complete 7 pcs. Set



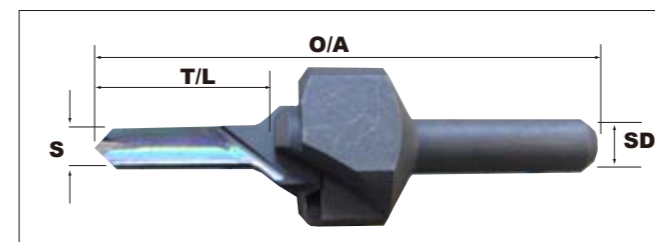
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit inch (mm)

Wood Screw NO.	Taper Drill	Countersink/bore	Depth Stop
#5 Screws	1/8 (3.2)	3/8 (9.5)	3/8 (9.5)
#6 Screws	9/64 (3.6)	3/8 (9.5)	3/8 (9.5)
#7 Screws	5/32 (4.0)	3/8 (9.5)	3/8 (9.5)
#8 Screws	11/64 (4.4)	3/8 (9.5)	3/8 (9.5)
#9 Screws	3/16 (4.8)	3/8 (9.5)	3/8 (9.5)
#10 Screws	13/64 (5.2)	7/16 (11)	7/16 (11)
#12 Screws	7/32 (5.6)	1/2 (12.7)	1/2 (12.7)
#14 Screws	1/4 (6.4)	1/2 (12.7)	1/2 (12.7)



NO.14T T.C.T.Countersink

Drill screw holes in one operation in fiber board and similar hard abrasive materials.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

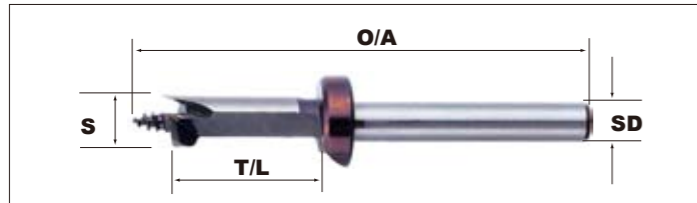
Size	O/A Length	Twist Length	Shank-Dia
9	49	11	6.35
18	49	11	6.35

FOR CULTIVATION OF MUSHROOM

NO.41 Mushroom Bit with Round Shank



- ☆ Fixed depth by stopper.
- ☆ Less than 6,000/rpm.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia				Unit mm			
Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
8	75	25	6.5	9.5	75	25	6.5
8.3	75	25	6.5	10	75	25	6.5
8.5	75	25	6.5	12	75	25	6.5
8.6	75	25	6.5	12.5	75	25	6.5
8.8	75	25	6.5	12.7	75	25	6.5
9	75	25	6.5	13.5	75	25	6.5
9.2	75	25	6.5	15	75	25	6.5

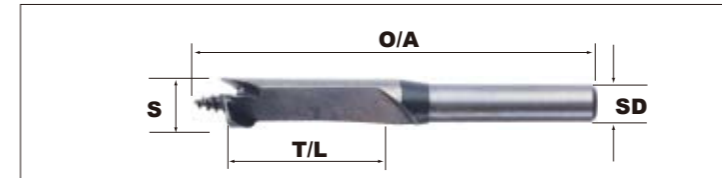


FOR CULTIVATION OF MUSHROOM

NO.42 Mushroom Bit (Crescentic Type)



- ☆ For shallow holes.
- ☆ Less than 6,000/rpm.

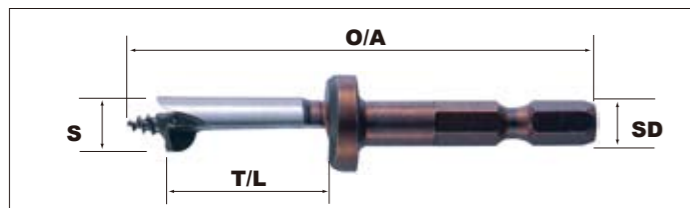


S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia				Unit mm			
Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
8	70	25	6.5	9.5	70	25	6.5
8.3	70	25	6.5	10	70	25	6.5
8.5	70	25	6.5	12	75	25	6.5
8.6	70	25	6.5	12.5	75	25	6.5
8.8	70	25	6.5	12.7	75	25	6.5
9	70	25	6.5	13.5	75	25	6.5
9.2	70	25	6.5	15	75	25	6.5

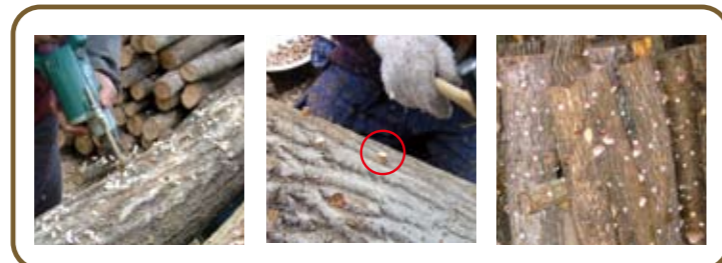
NO.41X Mushroom Bit with Hexagon Shank



- ☆ Fixed depth by stopper.
- ☆ Less than 2,400/rpm.



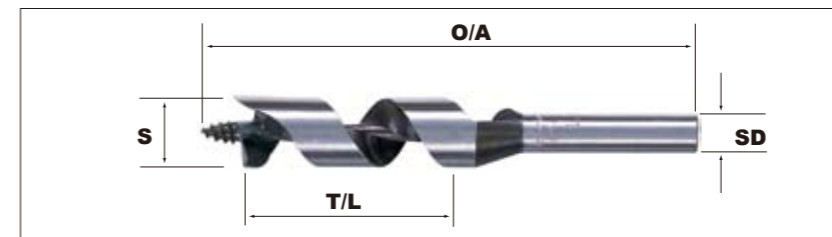
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia				Unit mm			
Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
8	75	25	6.35				
8.5	75	25	6.35				
9	75	25	6.35				
9.2	75	25	6.35				
12	75	25	6.35				



NO.45/45H Mushroom Bit (Spiral Type) / H.S.S. Mushroom Bit



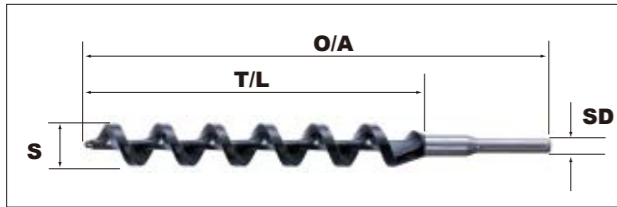
- ☆ For deep holes.
- ☆ Less than 6,000/rpm (NO.45).
- ☆ Less than 10,000/rpm (NO.45H).



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia				Unit mm			
Size	O/A Length	Twist Length	Shank-Dia	Size	O/A Length	Twist Length	Shank-Dia
8	80	35	6.5	9.5	80	35	6.5
8.3	80	35	6.5	10	80	35	6.5
8.5	80	35	6.5	12	85	35	6.5
8.6	80	35	6.5	12.5	85	35	6.5
8.8	80	35	6.5	12.7	85	35	6.5
9	80	35	6.5	13.5	85	35	6.5
9.2	80	35	6.5	15	85	35	6.5

FOR SPECIAL FIELDS HORTICULTURE

NO.30 Earth Drill



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
15	330	240	10
20	330	240	10
25	330	240	10
30	330	240	10

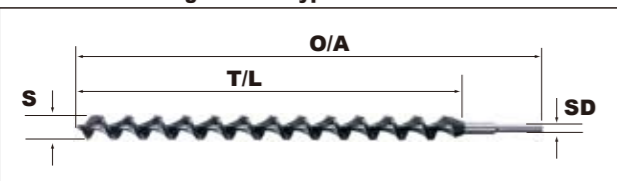
Exclusive Brace Handle



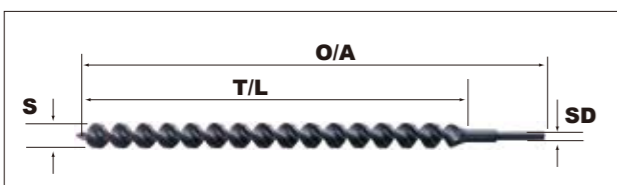
NO.31A Earth Drill Single Twist Type NO.31B Earth Drill Double Twist Type



NO.31A (For sandy soil)
Earth Drill Single Twist Type



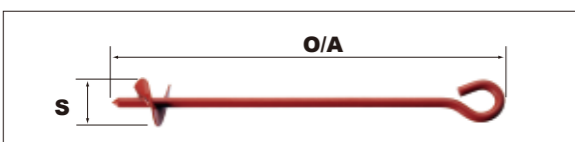
NO.31B (For clay soil)
Earth Drill Double Twist Type



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Twist Length	Shank-Dia
20	600	500	10
25	600	500	10
30	600	500	10
35	600	500	10

NO.39 Soil Auger



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length
65	500

FOR D.I.Y. USES

NO.33 Wood Screw Bit

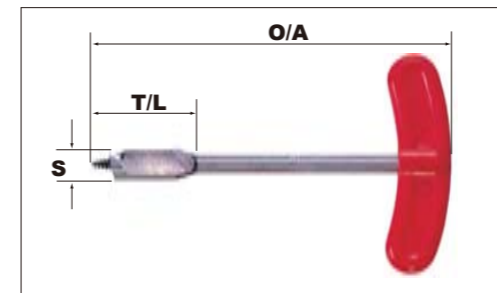


Unit mm

Size
3
4
5
6



NO.34 Mini Bit



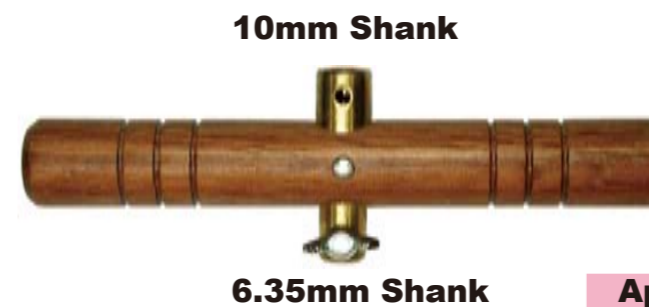
S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia Unit mm

Size	O/A Length	Twist Length	Size	O/A Length	Twist Length
6	140	30	15	140	40
8	140	40	16	140	40
9	140	40	18	140	40
10	140	40	19	140	40
12	140	40	21	140	40
13	140	40	24	140	40



NO.38 Wooden Handle

Applicable for 6.35mm Hex Shank and 10mm Hex Shank drill for manual use.



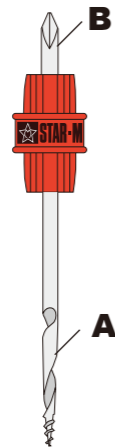
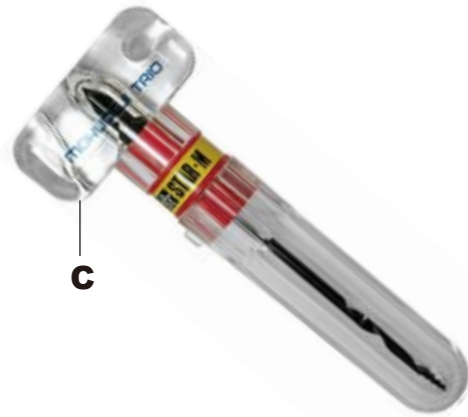
Application

NO.5 Combination Short Auger Bit	3mm ~ 30mm
NO.6 Combination Auger Bit	3mm ~ 30mm

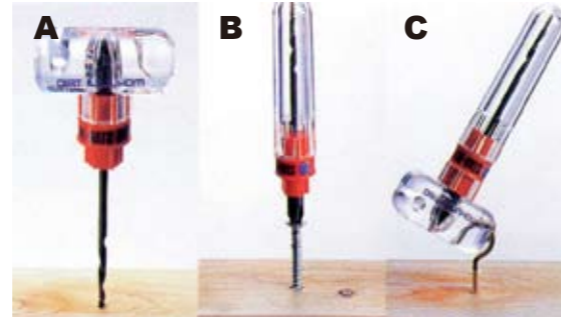
FOR D.I.Y. USES

NO.35 Wood Screw Bit Kit "TRIO"

- A: Wood Screw Bit
- B: Driver
- C: Hook Rotator



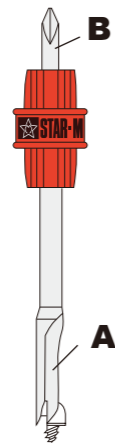
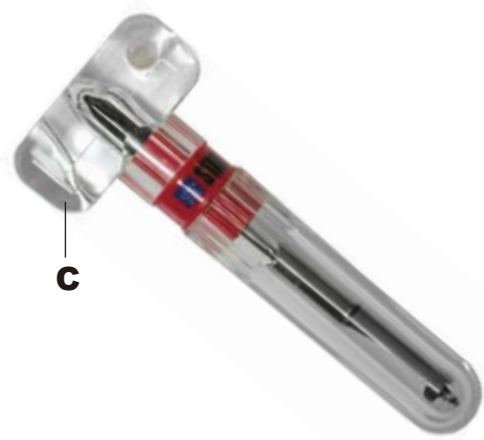
Set of Wood-Screw Work



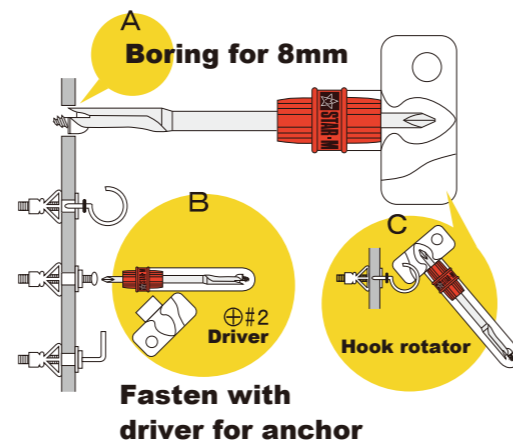
Unit mm	
Size (Dia of wood screw)	
S (2.1-2.7mm)	⊕ #1
M (3.1-4.5mm)	⊕ #2
L (5.1-5.8mm)	⊕ #3

NO.35K Anchor "TRIO"

- A: Mini Bit
- B: Driver
- C: Hook Rotator



Set of Wood-Anchor Work



Unit mm	
Size (Dia of wood screw)	
8mm	⊕ #2

FOR D.I.Y. USES

NO.63900 Hand Brace Bit Set (Handle and 7 pcs. of Drill bits)

The double bevel bits with pre-cutters and fine screw tips stay perfectly true during use and cut clean, tear-out-free holes.



Contents of set

- Straight Drill Bits 3,4,5,6,8mm
- Taper Drill Bit for plastics 6mm
- Taper Drill Bit for making pilot holes 3mm
- Small Hand Brace



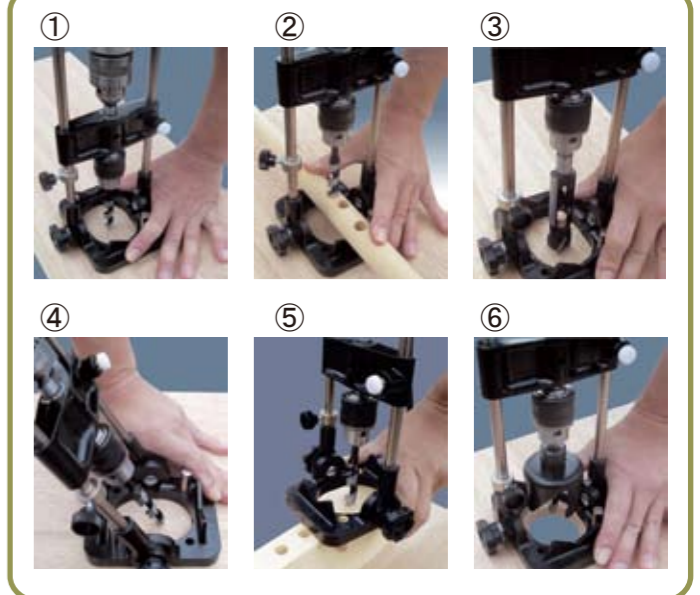
ATTACHMENT

NO.50A Drill Stand

For your accurate angle drilling. Applicable for right angle to 45-degree.
Max Application: O/A 210mm
Shank Dia: 1.5mm - 13mm



Unit mm	
Base Diameter	Effective Length
54	150



- ① Right angle drilling.
- ② V-guides on round wood bar.
- ③ The hole to make wood plug.
- ④ Angle drilling from 90 Degree to 45 Degree.
- ⑤ Center drilling and doweling.
- ⑥ The hole to install door knob.

ATTACHMENT

NO.503 Hinge Drill Set

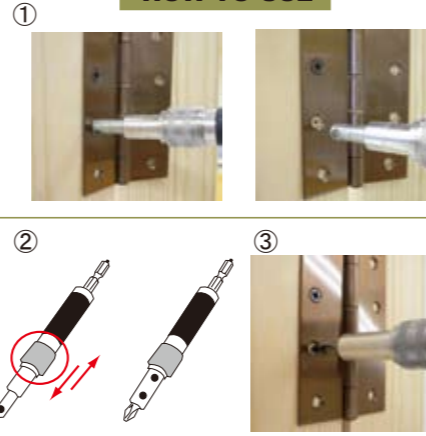
This Hinge Drill Set comes in handy when installing door hinges.



S=Size O/A=Overall Length T/L=Twist Length SD=Shank-Dia
Unit mm

Size	O/A Length	Hinge Bit	Driver Size	Shank-Dia
S	150	2.4	⊕ #1	6.35
M	150	2.8	⊕ #2	6.35
L	150	3.2	⊕ #2	6.35

HOW TO USE

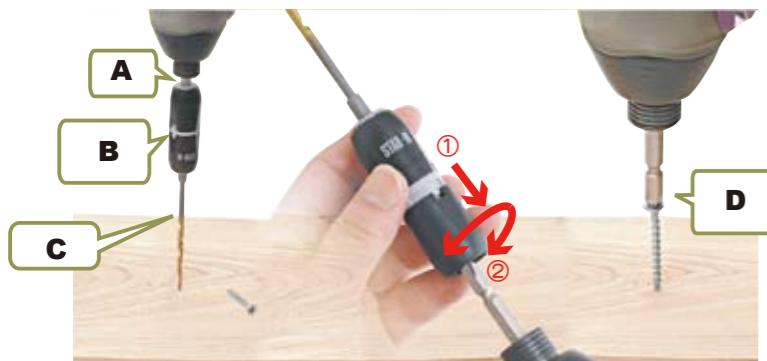


- ① Drill a pre-hole of a screw. It always drills accurately in the center of the hinge hole.
- ② Pull the quick chuck and change the Hinge Bit to the driver.
- ③ Tighten the screw with the driver.

NO.5004 Double Socket

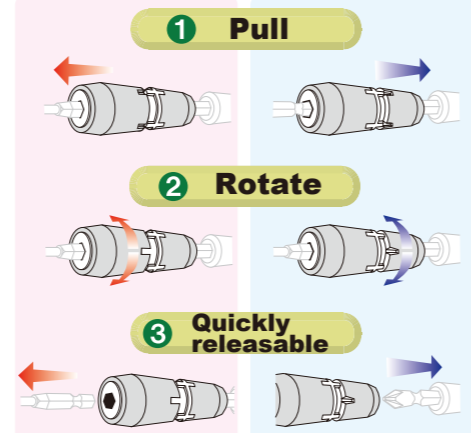


①&② You just pull and rotate the Double Socket.



- A: Driver
B: Double Socket
C: Taper Point Bit
D: Right after you remove the Double Socket, you can get started the screw work.

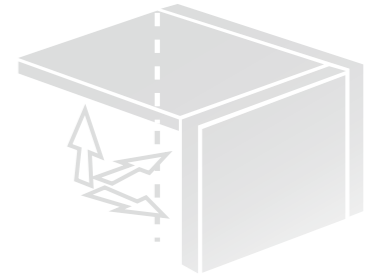
HOW TO USE



ATTACHMENT

NO.5003 Corner Strong

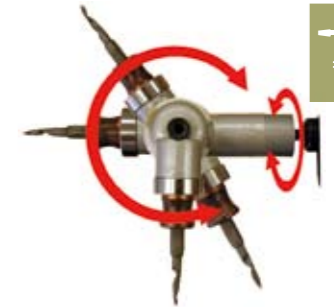
- ☆ Right Angle Drill Attachment.
- ☆ Easy to handle with prolonged body, and easy access to awkward places.
- ☆ Applicable up to 21mm of NO.7. (Impact Driver Bit Middle Type)



	Unit mm
Maximum torque	300kg.fcm
Shank-Dia	6.35

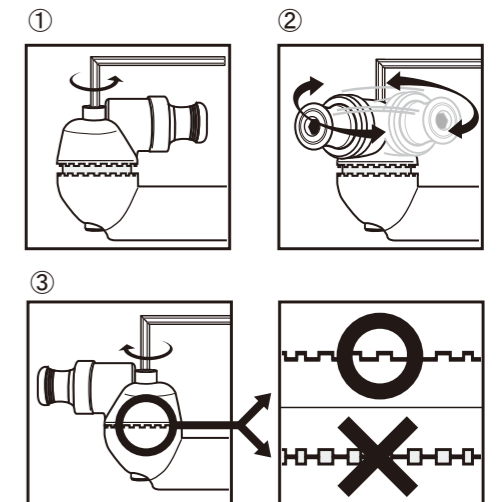
NO.5003C Multi Corner Strong

- ☆ Features free angle adjustment with 360° pivot positioning.
- ☆ Available up to 21mm of NO.7. (Impact Driver Bit Middle Type)



	Unit mm
Maximum torque	300kg.fcm
Shank-Dia	6.35

HOW TO USE



- ① Loosen the bolt.
- ② Adjust the angle.
- ③ Tighten the bolt firmly after you match the interlocking.

ATTACHMENT

NO.5005 Drill Stopper

Perfect for a half through drilling holes.
With the use of this "Drill Stopper", it enables you to stop at your desired depth.



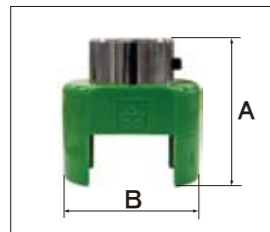
For wood auger



Steel drill



Concrete drill



Unit mm

Size	A	B
3	25	22
4	25	22
5	25	22
6	25	22
8	28	26
9	28	26
10	28	26
10.5	31	30
11	31	30
12	31	30
13	41	38
13.5	41	38
15	41	38
16	43	46
18	43	46
21	51	52
24	54	57
27	64	63
30	68	68



①

Start drilling with a "Drill Stopper".



②

One it reaches an adjusted depth, the auger bit stops drilling.



③

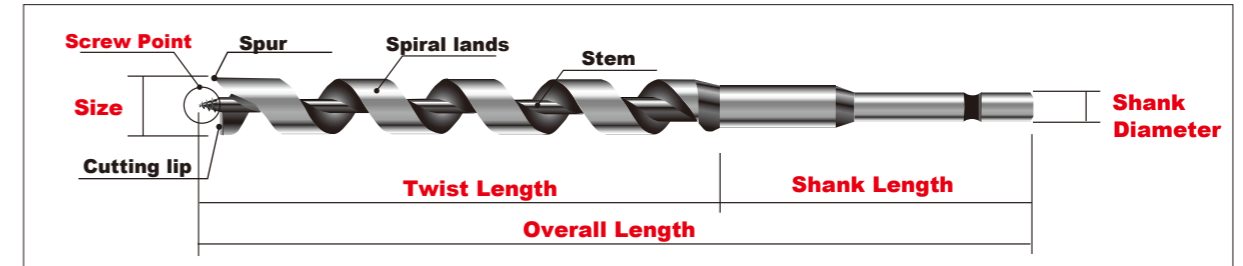
No scratches, and beautifully finish half way holes.

FOR CUSTOMIZED

In order to design a customized drill to specifically meet your applications demands, please answer the following questionnaire.

1. Please describe your drilling application including material.
2. If not previously mentioned above, what type of drill(s) & bit(s) are you currently using?
Ex. For CNC, Power Drill, Drill Press, etc.
3. What are the dimensions of the drill bit you are seeking?

NAMES OF AUGER BIT PARTS



■ Size : mm

■ Overall Length : mm

■ Twist Length : mm

■ Shank Length : mm

■ Shank Diameter : mm

■ Screw Point (y/n) :

■ Brad Point (y/n) :

■ Shank Type :
(Round, Hex, 3 flats)

■ Other (Please specify) :

4. What problems, if any, are you currently experiencing when drilling?

5. What are the most important features you are looking for in a drill bit?

6. Other comments / concerns

We will provide a quote for an auger designed to meet your specific needs.
Contact Star-M at 81 - (0)794 - 82 - 3411 tel / +81 - (0) -794 -83 - 0373 fax