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

Japanese tradition of manufacturing excellence

STAR·M 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, craftmen 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.

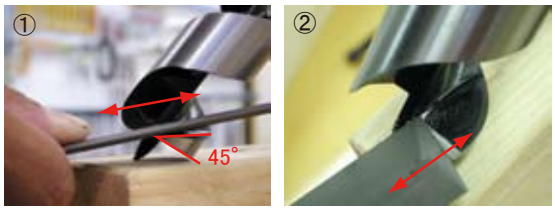
Special tools

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.

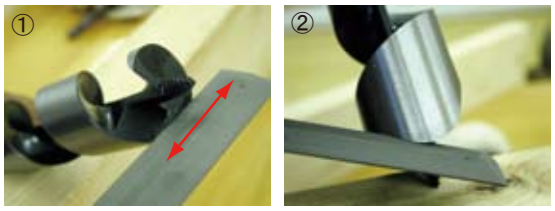
Set the screw point of the auger down on a piece of wood with the other end pointing up at approximately 45°.
The wood protects the screw point from being damaged while the bit is being sharpened.

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

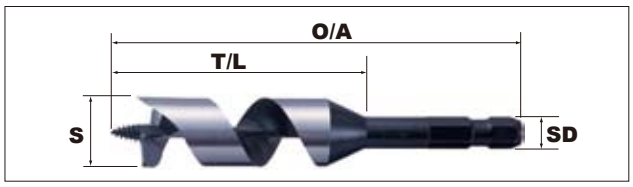
ROUND SHANK | HEXAGON SHANK | THREE FLATS

(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.

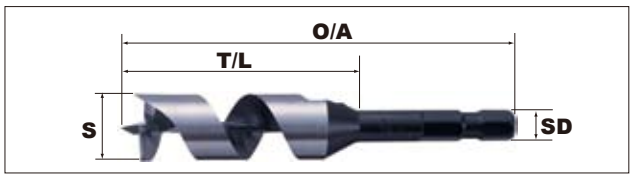
NO.5A
Combination Short Auger Bit

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

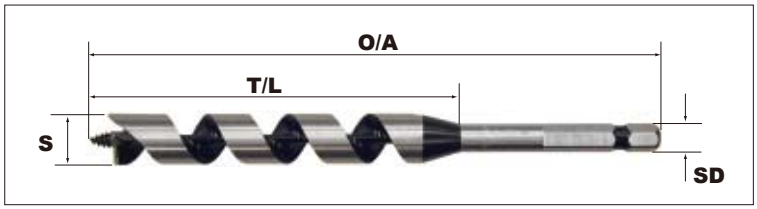
FOR GENERAL USE

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)

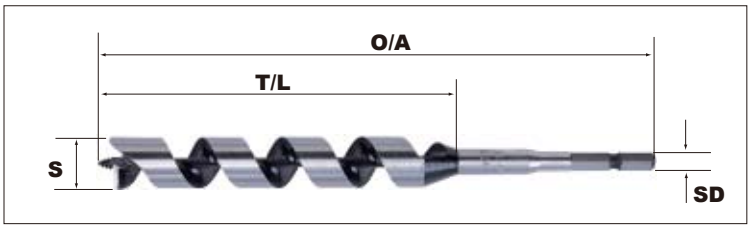
Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz	Size	O/A Length	Twist Length	Shank-Dia	WT.kg/doz
3	110	60	6.35	0.20	27 (1-1/16)	210	140	10	3.74
4	120	70	6.35	0.24	28	210	140	10	4.20
5	140	90	6.35	0.28	29 (1-1/8)	210	140	10	4.21
6 (1/4)	160	100	6.35	0.39	30 (1-3/16)	210	140	10	4.32
7	170	100	6.35	0.52	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.

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.



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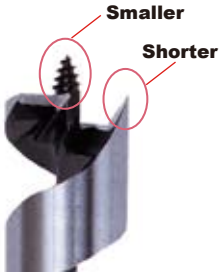
Differences

Combination Auger Bit

Impact Bit



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

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

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

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