

### FEATURES

Can select a optimal bur type from among 4 types of burs. Lined up various kinds of bur shapes allow good selection of the shape fitted for the work.

Our developed unique bur shapes prevent the burs from accidentally cutting into the objects to be cut carelessly at high speed of rotation and enhance the capacity of smooth processing.

### BUR TYPES

#### Double Cut (W)



Most widely used and excellent in cutting and finishing.

#### Single Cut (S)



Quality finishing attained by sharp-edged cutting.

#### Diamond Cut (D)



Chips are most minute and optimum for materials hard to cut.

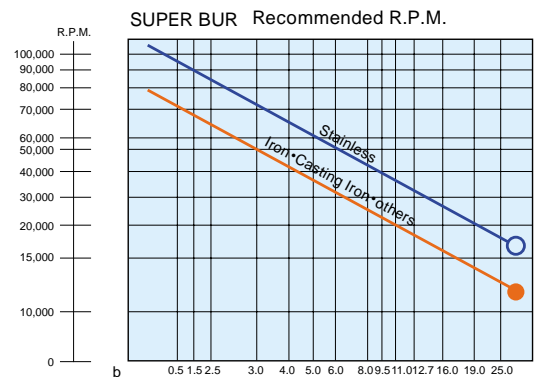
#### Aluminum Cut (A)



Optimum for non-ferrous and light metals, mainly for aluminum.

### Cutting types for Materials

Material Cut	Aluminum	Brass/Copper	Fiber Glass	Casting Iron	Plastics	Iron	Stainless	Titanium Alloy
Double Cut		●		●		●	●	●
Single Cut		●		●		●	●	●
Diamond Cut			●			●		
Aluminum Cut	●				●			



Smoother and secure cutting operation is attained with the above mentioned conditions of blade diameters and rotations per min.

### Example of uses for bur shapes

Please select an optimum shape from among the following shapes for uses.

Titanium coated products(TIN·TICN coating)in 10 unit are provided to use the burs for a longer time on request.

**SB1 Cylindrical Shape**

**SB1-E Cylindrical End Cut Shape**

**SB2 Cylindrical Ball Nose Shape**

**SB3 Round Nose Tree Shape**

**SB4 Pointed Tree Shape**

**SB5 Pointed Cone Shape**

**SB6 Egg Shape**

**SB7 Tapered Shape**

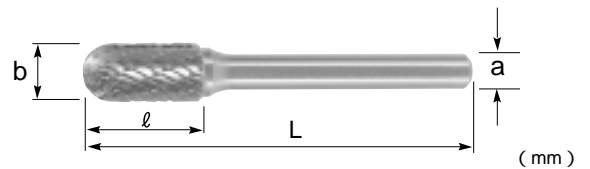
**SB8 Ball Shape**

**SB49 Pointed Cone Shape 90°**

**SB50 Pointed Cone Shape 60°**

**SB51 Flame Shape**

**SB52 Reverse Cone Shape**



**a 3mm All carbide**

Shapes	Item No. ( W.cut )	Item No. ( S.cut )	b	ℓ	L	
	SB1A01	SB1A01S	1.5	6	38	
	SB1A02	SB1A02S	2.5	11	38	
	SB1A03	SB1A03S	3.0	14	38	
	SB1A01E	SB1A01ES	3.0	14	38	
	SB2A01	SB2A01S	2.5	11	38	
	SB2A02	SB2A02S	3.0	14	38	
	SB3A01	SB3A01S	3.0	12.7	38	
	SB3A02	SB3A02S	3.0	6	38	
	SB4A01	SB4A01S	3.0	9.5	38	
	SB4A02	SB4A02S	3.0	6	38	
	SB4A03	SB4A03S	3.0	12.7	38	
	SB5A01	SB5A01S	3.0 <sup>7°</sup>	16	38	
	SB5A02	SB5A02S	3.0 <sup>12°</sup>	8.9	38	
	SB5A03	SB5A03S	3.0 <sup>14°</sup>	11	38	
	SB6A01	SB6A01S	3.0	5.5	38	
	SB7A01	SB7A01S	3.0 <sup>8°</sup>	12.7	38	
	SB7A02	SB7A02S	3.0 <sup>8°</sup>	9.5	38	
	SB8A01	SB8A01S	2.5	2.3	38	
	SB8A02	SB8A02S	3.0	2.5	38	
	SB49A01	SB49A01S	3.0 <sup>90°</sup>	1.5	38	
	SB50A01	SB50A01S	3.0 <sup>60°</sup>	2.5	38	
	SB51A01	SB51A01S	3.0	6.3	38	
	SB52A01	SB52A01S	3.0 <sup>10°</sup>	4	38	

**a 3mm All carbide**

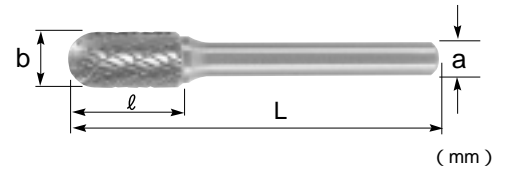
Shapes	Item No. ( W.cut )	Item No. ( S.cut )	b	ℓ	L	
	SB1D01	SB1D01S	4.0	12.7	38	
	SB1D02	SB1D02S	5.0	12.7	38	
	SB2D03	SB2D03S	4.0	12.7	38	
	SB2D04	SB2D04S	5.0	12.7	38	
	SB3D08	SB3D08S	5.0	12.7	38	
	SB4D09	SB4D09S	5.0	12.7	38	
	SB5D12	SB5D12S	5.0 <sup>16°</sup>	12.7	38	
	SB6D07	SB6D07S	5.0	7.1	38	
	SB7D11	SB7D11S	5.0 <sup>14°</sup>	12.7	38	
	SB8D05	SB8D05S	4.0	3.4	38	
	SB8D06	SB8D06S	5.0	4.7	38	
	SB51D10	SB51D10S	5.0	9.5	38	
	SB52D13	SB52D13S	5.0 <sup>10°</sup>	6.3	38	

**a 3mm b 6.3mm**

	SB1B01	SB1B01S	6.3	12.7	50	
	SB1B02E	SB1B02ES	6.3	4.7	43	
	SB2B03	SB2B03S	6.3	12.7	50	
	SB3B06	SB3B06S	6.3	12.7	50	
	SB4B07	SB4B07S	6.3	12.7	50	
	SB5B08	SB5B08S	6.3 <sup>22°</sup>	12.7	54	
	SB6B05	SB6B05S	6.3	9.5	47	
	SB8B04	SB8B04S	6.3	5.0	44	
	SB52B09	SB52B09S	6.3 <sup>10°</sup>	6.0	44	

MICRO AIR GRIDERS & TIPPED TOOLS

a 6mm = All carbide



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB1C01	SB1C01S	3.0	12.7	60
SB1C02	SB1C02S	4.0	16	50
SB1C03	SB1C03S	5.0	16	50
SB1C04	SB1C04S	6.0	16	50
SB1C05	SB1C05S	8.0	19	63
SB1C06	SB1C06S	9.5	19	63
SB1C07	SB1C07S	11.0	25	69
SB1C08	SB1C08S	12.7	25	69
SB1C09	SB1C09S	16.0	25	69
SB1C10	SB1C10S	19.0	25	69



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB1C01E	SB1C01ES	3.0	12.7	60
SB1C02E	SB1C02ES	4.0	16	50
SB1C03E	SB1C03ES	5.0	16	50
SB1C04E	SB1C04ES	6.0	16	50
SB1C05E	SB1C05ES	8.0	19	63
SB1C06E	SB1C06ES	9.5	19	63
SB1C07E	SB1C07ES	11.0	25	69
SB1C08E	SB1C08ES	12.7	25	69
SB1C09E	SB1C09ES	16.0	25	69
SB1C10E	SB1C10ES	19.0	25	69



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB2C01	SB2C01S	3.0	16	60
SB2C02	SB2C02S	4.0	16	50
SB2C03	SB2C03S	5.0	16	50
SB2C04	SB2C04S	6.0	16	50
SB2C05	SB2C05S	8.0	19	63
SB2C06	SB2C06S	9.5	19	63
SB2C07	SB2C07S	11.0	25	69
SB2C08	SB2C08S	12.7	25	69
SB2C09	SB2C09S	16.0	25	69
SB2C10	SB2C10S	19.0	25	69



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB3C01	SB3C01S	3.0	12.7	56
SB3C02	SB3C02S	6.0	16	50
SB3C03	SB3C03S	9.5	19	63
SB3C04	SB3C04S	11.0	25	69
SB3C05	SB3C05S	12.7	25	69
SB3C06	SB3C06S	16.0	25	69
SB3C07	SB3C07S	19.0	25	69



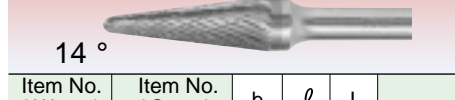
Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB4C01	SB4C01S	6.0	16	50
SB4C02	SB4C02S	8.0	19	63
SB4C03	SB4C03S	9.5	19	63
SB4C04	SB4C04S	12.7	25	69
SB4C05	SB4C05S	16.0	25	69
SB4C06	SB4C06S	19.0	25	69



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB5C01	SB5C01S	6.0 <sup>22°</sup>	12.7	50
SB5C02	SB5C02S	6.0 <sup>14°</sup>	19	50
SB5C03	SB5C03S	6.0 <sup>10°</sup>	25	50
SB5C04	SB5C04S	9.5 <sup>28°</sup>	16	63
SB5C05	SB5C05S	12.7 <sup>28°</sup>	22	69
SB5C06	SB5C06S	16.0 <sup>31°</sup>	25	73



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB6C01	SB6C01S	6.0	9.5	50
SB6C02	SB6C02S	9.5	16	60
SB6C03	SB6C03S	12.7	22	66
SB6C04	SB6C04S	16.0	25	69
SB6C05	SB6C05S	19.0	25	69



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB7C01	SB7C01S	6.0	16	50
SB7C02	SB7C02S	8.0	22	69
SB7C03	SB7C03S	9.5	27	74
SB7C04	SB7C04S	12.7	28	76
SB7C05	SB7C05S	16.0	30	77
SB7C06	SB7C06S	19.0	38	85



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB8C01	SB8C01S	3.0	2.5	50
SB8C02	SB8C02S	5.0	4	50
SB8C03	SB8C03S	6.0	5	50
SB8C04	SB8C04S	8.0	6.4	50
SB8C05	SB8C05S	9.5	8	52
SB8C06	SB8C06S	11.0	9.5	54
SB8C07	SB8C07S	12.7	11	55
SB8C08	SB8C08S	16.0	14	58
SB8C09	SB8C09S	19.0	16	62



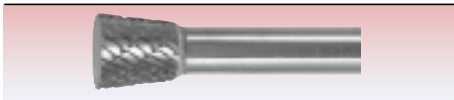
Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB49C01	SB49C01S	6.0	3	50
SB49C02	SB49C02S	9.5	4.7	52
SB49C03	SB49C03S	12.7	6.3	54
SB49C04	SB49C04S	16.0	8	57
SB49C05	SB49C05S	19.0	9.5	58



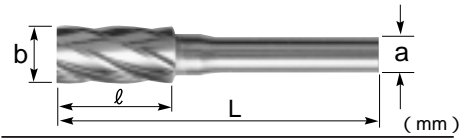
Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB50C01	SB50C01S	6.0	4	50
SB50C02	SB50C02S	9.5	8	55
SB50C03	SB50C03S	12.7	11	58
SB50C04	SB50C04S	16.0	14.5	61
SB50C05	SB50C05S	19.0	17.5	65



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB51C01	SB51C01S	8.0	19	63
SB51C02	SB51C02S	12.7	32	76
SB51C03	SB51C03S	16.0	36	80
SB51C04	SB51C04S	19.0	41	85



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB52C01	SB52C01S	6.0 <sup>10°</sup>	8	50
SB52C02	SB52C02S	9.5 <sup>13°</sup>	9.5	53
SB52C03	SB52C03S	12.7 <sup>28°</sup>	12.7	57
SB52C04	SB52C04S	16.0 <sup>18°</sup>	19	63
SB52C05	SB52C05S	19.0 <sup>30°</sup>	16	60



**a 6mm Aluminum cut =All carbide**

Item No.( S.cut )	b	ℓ	L
SB1C01SA	6.0	19	50
SB1C02SA	9.5	19	63
SB1C03SA	12.7	25	69
SB1C04SA	16.0	25	69
SB1C05SA	19.0	25	69

Item No.( S.cut )	b	ℓ	L
SB2C01SA	6.0	19	50
SB2C02SA	9.5	19	63
SB2C03SA	12.7	25	69
SB2C04SA	19.0	25	69

Item No.( S.cut )	b	ℓ	L
SB3C01SA	6.0	19	50
SB3C02SA	9.5	19	63
SB3C03SA	12.7	25	69
SB3C04SA	16.0	25	69
SB3C05SA	19.0	32	76

Item No.( S.cut )	b	ℓ	L
SB6C01SA	9.5	16	60
SB6C02SA	12.7	22	66
SB6C03SA	16.0	25	69
SB6C04SA	19.0	25	69

Item No.( S.cut )	b	ℓ	L
SB7C01SA	9.5	27	74
SB7C02SA	12.7	28	76
SB7C03SA	16.0	30	77
SB7C04SA	19.0	38	85

Item No.( S.cut )	b	ℓ	L
SB8C01SA	6.0	5	50
SB8C02SA	9.5	8	52
SB8C03SA	12.7	11	55
SB8C04SA	16.0	14	58
SB8C05SA	19.0	16	62

**a 6mm Diamond cut**

Item No.	b	ℓ	L
SB1C01D	9.5	19	63

Item No.	b	ℓ	L
SB2C02D	9.5	19	63

Item No.	b	ℓ	L
SB3C03D	9.5	19	63

**a 6mm Long Shank**

⚠ Please use after speeding down in rotation.



Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB1C04L	SB1C04SL	6.0	12.7	163
SB1C06L	SB1C06SL	9.5	19	169
SB1C08L	SB1C08SL	12.7	25	175

Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB2C04L	SB2C04SL	6.0	12.7	163
SB2C06L	SB2C06SL	9.5	19	169
SB2C08L	SB2C08SL	12.7	25	175

Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB3C02L	SB3C02SL	6.0	12.7	163
SB3C03L	SB3C03SL	9.5	19	169
SB3C05L	SB3C05SL	12.7	25	175

Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB4C01L	SB4C01SL	6.0	12.7	163
SB4C03L	SB4C03SL	9.5	19	169
SB4C04L	SB4C04SL	12.7	25	175

Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB6C01L	SB6C01SL	6.0	9.5	160
SB6C02L	SB6C02SL	9.5	16	166
SB6C03L	SB6C03SL	12.7	22	172

Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB7C01L	SB7C01SL	6.0	16	166
SB7C03L	SB7C03SL	9.5	27	177
SB7C04L	SB7C04SL	12.7	28	178

Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB8C03L	SB8C03SL	6.0	5	155
SB8C05L	SB8C05SL	9.5	8	158
SB8C07L	SB8C07SL	12.7	11	161

Item No. (W.cut)	Item No. (S.cut)	b	ℓ	L
SB51C01L	SB51C01SL	8.0	19	169
SB51C02L	SB51C02SL	12.7	32	182

**a 3mm·6mm(W.cut) 10PCE-SET**

**SB3S a 3mm(W.Cut)**



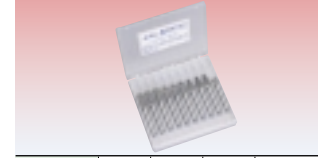
Item No.	b	ℓ	L	Quantity
SB1A01	1.5	6	38	1
SB1A03	3.0	14	38	1
SB2A01	2.5	11	38	1
SB2A02	3.0	14	38	1
SB3A01	3.0	12.7	38	1
SB4A01	3.0	9.5	38	1
SB5A01	3.0 <sup>7°</sup>	16	38	1
SB5A03	3.0 <sup>14°</sup>	11	38	1
SB7A01	3.0 <sup>8°</sup>	12.7	38	1
SB8A02	3.0	12.5	38	1

**SB6S1 a 6mm(W.Cut)**



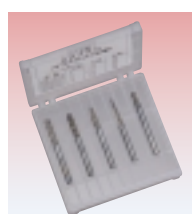
Item No.	b	ℓ	L	Quantity
SB1C06	9.5	19	63	2
SB2C06	9.5	19	63	2
SB3C03	9.5	19	63	2
SB4C03	9.5	19	63	1
SB5C04	9.5 <sup>28°</sup>	16	63	1
SB7C03	9.5 <sup>14°</sup>	27	74	1
SB8C05	9.5	8	52	1

**SB6S2 a 6mm(W.Cut)**

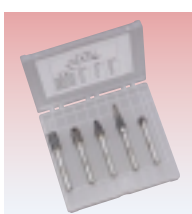


Item No.	b	ℓ	L	Quantity
SB1C06	9.5	19	63	3
SB2C06	9.5	19	63	3
SB3C03	9.5	19	63	3
SB8C05	9.5	8	52	1

**a 3mm·6mm(W.cut) 5PCE-SET**



Item No.	b	ℓ	L	Quantity
SB1A03	3.0	14	38	1
SB2A02	3.0	14	38	1
SB3A01	3.0	12.7	38	1
SB5A01	3.0 <sup>7°</sup>	16	38	1
SB8A02	3.0	12.5	38	1



Item No.	b	ℓ	L	Quantity
SB1C06	9.5	19	63	1
SB2C06	9.5	19	63	1
SB3C03	9.5	19	63	1
SB7C03	9.5 <sup>14°</sup>	27	74	1
SB8C05	9.5	8	52	1