



MG

HB
Coating

30

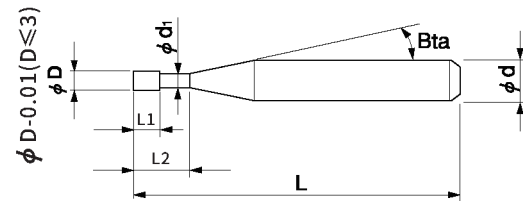
SD
0-0.003

Highly recommend ★ ○ ○
/Recommend/Suggest

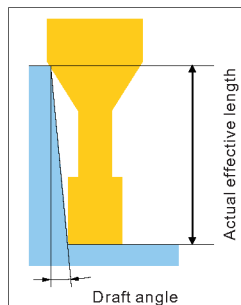
DIE STEEL	Grade
Carbon steels (S45C/S55C)	○
Alloy steels (SK/SCM/SUS)	○
Prehardened steels (NAK/HPM)	○
Hardened steels (~55/~60/~70HRC)	○
SPECIAL MATERIAL	
Aluminum alloys	○
Graphite	
Copper	○
Plastics	
Carbon fiber	
Titanium alloys	○
Heat resistant alloys	
Cemented carbide	
Hard brittle (non-metallic) material	

Specialty

*Unique U-shaped chip removal groove design can effectively reduce cutting load, have better chip removal performance, and obtain higher metal removal rate.
*Unique HB series coating for more wear resistance and higher heat resistance.
*Suitable for HRC28~52 die steel, stainless steel processing.



4 Flutes

Long Neck
Square

Total 24 models

Unit (mm)

Model Number	D Outside Diameter	L1 Length Of Cut	L2 Effective Length	Bta Shank Taper Angle	L Overall Length	T Number Of Flutes	d Shank Diameter	In Stock
SHBLS4-010040	1.0	1.5	4	12°	50	4	4	○
SHBLS4-010060	1.0	1.5	6	12°	50	4	4	○
SHBLS4-010080	1.0	1.5	8	12°	50	4	4	○
SHBLS4-010100	1.0	1.5	10	12°	50	4	4	○
SHBLS4-015040	1.5	2.3	4	12°	50	4	4	○
SHBLS4-015060	1.5	2.3	6	12°	50	4	4	○
SHBLS4-015080	1.5	2.3	8	12°	50	4	4	○
SHBLS4-015100	1.5	2.3	10	12°	50	4	4	○
SHBLS4-020060	2.0	3.0	6	12°	50	4	4	○
SHBLS4-020080	2.0	3.0	8	12°	50	4	4	○

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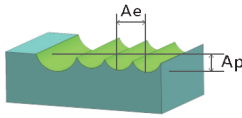
Model Number	D Outside Diameter	L1 Length Of Cut	L2 Effective Length	Bta Shank Taper Angle	L Overall Length	T Number Of Flutes	d Shank Diameter	In Stock
SHBLS4-020100	2.0	3.0	10	12°	50	4	4	○
SHBLS4-020120	2.0	3.0	12	12°	50	4	4	○
SHBLS4-020160	2.0	3.0	16	12°	50	4	4	○
SHBLS4-020200	2.0	3.0	20	12°	50	4	4	○
SHBLS4-030080	3.0	4.5	8	12°	50	4	4	○
SHBLS4-030100	3.0	4.5	10	12°	50	4	4	○
SHBLS4-030120	3.0	4.5	12	12°	50	4	4	○
SHBLS4-030160	3.0	4.5	16	12°	50	4	4	○
SHBLS4-030200	3.0	4.5	20	12°	50	4	4	○
SHBLS4-030080-6	3.0	4.5	8	12°	50	4	6	○
SHBLS4-030100-6	3.0	4.5	10	12°	50	4	6	○
SHBLS4-030120-6	3.0	4.5	12	12°	50	4	6	○
SHBLS4-030160-6	3.0	4.5	16	12°	50	4	6	○
SHBLS4-030200-6	3.0	4.5	20	12°	50	4	6	

*New size added from this series.

○ Stocked items.

4 Flutes

Long Neck Square



Work Material		Oxygen-free Copper Red Copper		HRC30-45 carbon steel and prehardened steel		HRC45-55 hardened steel	
(mm) Diameter	(mm) Effective Length	(min-1) Speed	(mm/min) Feed	(min-1) Speed	(mm/min) Feed	(min-1) Speed	(mm/min) Feed
D1.0	4	13000	1300	13000	1300	12000	1200
D1.0	6	11000	1000	11000	1000	10000	800
D1.0	8	10000	800	10000	800	8500	700
D1.0	10	9000	500	9000	500	7500	500
D1.5	4	13000	1400	13000	1400	13000	1200
D1.5	6	11000	1200	11000	1200	10000	1000
D1.5	8	10000	1000	10000	1000	9000	900
D1.5	10	9000	900	9000	900	8500	800
D2.0	6	12000	1500	12000	1500	10000	1200
D2.0	8	11000	1300	11000	1300	9000	1000
D2.0	10	10000	1200	10000	1200	8000	800
D2.0	12	9000	900	9000	900	7000	700
D2.0	16	7500	700	7500	700	6000	600
D2.0	20	7000	400	7000	400	5500	300
D3.0	8	8500	2000	8500	2000	8000	1800
D3.0	10	8500	2000	8500	2000	8000	1800
D3.0	12	8000	1800	8000	1800	7000	1600
D3.0	16	7000	1400	7000	1400	6000	1200
D3.0	20	6500	1200	6500	1200	5500	1000
D3.0	8	8500	2000	8500	2000	8000	1800
D3.0	10	8500	2000	8500	2000	8000	1800
D3.0	12	8000	1800	8000	1800	7000	1600
D3.0	16	7000	1400	7000	1400	6000	1200
D3.0	20	6500	1200	6500	1200	5500	1000

Note:

* Decrease both spindle speed and feed rate proportionally when the milling parameters exceed the machine's maximum spindle speed;

* Recommend oil coolant for Stainless Steels and Heat Resistance Alloys;

* Recommend using a non-contact measuring device to avoid damaging the precision tip point.