



MG

DLC
Coating

37.5

SD
0-0.003R
±0.005R
±0.007

R≤3

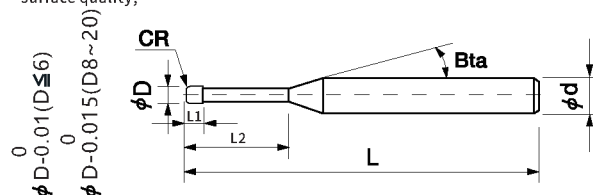
R4~10

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

- * Special geometry design, sharp cutting edge, highly efficient milling and chip evacuation;
- * The coating, with good thermal stability, makes it maintain the hardness and mechanical properties under high temperature;
- * Lower coefficient of friction reduces wear during cutting and provides better surface quality;



4 Flutes

Total 49 models

Unit (mm)

Model Number	D Outside Diameter	L1 Length Of Cut	CR Radius	Bta Shank Taper Angle	L Overall Length	T Number Of Flutes	d Shank Diameter	In Stock
SHDSR4-01001020	1	2	R0.1	12°	50	4	4	○
SHDSR4-01002020	1	2	R0.2	12°	50	4	4	○
SHDSR4-01501030	1.5	3	R0.1	12°	50	4	4	○
SHDSR4-01502030	1.5	3	R0.2	12°	50	4	4	○
SHDSR4-02001040	2	4	R0.1	12°	50	4	4	○
SHDSR4-02002040	2	4	R0.2	12°	50	4	4	○
SHDSR4-02003040	2	4	R0.3	12°	50	4	4	○
SHDSR4-02005040	2	4	R0.5	12°	50	4	4	○
SHDSR4-03001060	3	6	R0.1	12°	50	4	4	○
SHDSR4-03002060	3	6	R0.2	12°	50	4	4	○
SHDSR4-03003060	3	6	R0.3	12°	50	4	4	○
SHDSR4-03005060	3	6	R0.5	12°	50	4	4	○
SHDSR4-04001080	4	8	R0.1	-	50	4	4	○
SHDSR4-04002080	4	8	R0.2	-	50	4	4	○
SHDSR4-04003080	4	8	R0.3	-	50	4	4	○
SHDSR4-04005080	4	8	R0.5	-	50	4	4	○
SHDSR4-04005080-75	4	8	R0.5	-	75	4	4	○
SHDSR4-04005080-100	4	8	R0.5	-	100	4	4	○
SHDSR4-05002100	5	10	R0.2	12°	50	4	6	○
SHDSR4-05005100	5	10	R0.5	12°	50	4	6	○
SHDSR4-06002120	6	12	R0.2	12°	50	4	6	○
SHDSR4-06005120	6	12	R0.5	12°	50	4	6	○

Radius

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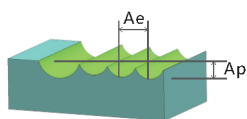
Total 49 models

Unit (mm)

Model Number	D Outside Diameter	L1 Length Of Cut	CR Radius	Bta Shank Taper Angle	L Overall Length	T Number Of Flutes	d Shank Diameter	In Stock
SHDSR4-06010120	6	12	R1	-	50	4	6	○
SHDSR4-06002120-75	6	12	R0.2	-	75	4	6	○
SHDSR4-06005120-75	6	12	R0.5	-	75	4	6	○
SHDSR4-06010120-75	6	12	R1	-	75	4	6	○
SHDSR4-06002120-100	6	12	R0.2	-	100	4	6	○
SHDSR4-06005120-100	6	12	R0.5	-	100	4	6	○
SHDSR4-06010120-100	6	12	R1	-	100	4	6	○
SHDSR4-08005160	8	16	R0.5	-	60	4	8	○
SHDSR4-08010160	8	16	R1	-	60	4	8	○
SHDSR4-08005160-75	8	16	R0.5	-	75	4	8	○
SHDSR4-08010160-75	8	16	R1	-	75	4	8	○
SHDSR4-08005200-100	8	20	R0.5	-	100	4	8	○
SHDSR4-08010200-100	8	20	R1	-	100	4	8	○
SHDSR4-08005200-150	8	20	R0.5	-	150	4	8	○
SHDSR4-08010200-150	8	20	R1	-	150	4	8	○
SHDSR4-10005200	10	20	R0.5	-	75	4	10	○
SHDSR4-10010200	10	20	R1	-	75	4	10	○
SHDSR4-10005250-100	10	25	R0.5	-	100	4	10	○
SHDSR4-10010250-100	10	25	R1	-	100	4	10	○
SHDSR4-10005250-150	10	25	R0.5	-	150	4	10	○
SHDSR4-10010250-150	10	25	R1	-	150	4	10	○
SHDSR4-12005240	12	24	R0.5	-	75	4	12	○
SHDSR4-12010240	12	24	R1	-	75	4	12	○
SHDSR4-12005300-100	12	30	R0.5	-	100	4	12	○
SHDSR4-12010300-100	12	30	R1	-	100	4	12	○
SHDSR4-12005300-150	12	30	R0.5	-	150	4	12	○
SHDSR4-12010300-150	12	30	R1	-	150	4	12	○

*New size added from this series.

○ Stocked items.



Work Material	Oxygen-free & Copper	
(mm) Diameter	(min-1) Speed	(mm/min) Feed
D1	15000	1000
D1	15000	1000
D1.5	14000	1500
D1.5	14000	1500
D2	14000	1500
D2	14000	1500
D2	14000	1500
D2	14000	1500
D3	13000	1800
D3	13000	1800
D3	13000	1800
D3	13000	1800
D4	12000	2000
D4	12000	2000
D4	12000	2000
D4	12000	2000
D4	12000	2000
D4	12000	2000
D5	12000	2200
D5	12000	2200
D6	11000	2400
D6	11000	2400
D6	11000	2400
D6	11000	2400
D6	11000	2400
D6	11000	2400
D6	11000	2400
D6	11000	2400
D6	11000	2400
D6	11000	2400
D8	9000	2600
D8	9000	2600
D8	9000	2600
D8	9000	2600
D8	9000	2600
D8	9000	2600
D8	9000	2600

4 Flutes

Radius

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Work Material	Oxygen-free & Copper	
(mm) Diameter	(min-1) Speed	(mm/min) Feed
D10	8000	2600
D10	8000	2600
D10	8000	2600
D10	8000	2600
D10	8000	2600
D10	8000	2600
D12	7500	3000
D12	7500	3000
D12	7500	3000
D12	7500	3000
D12	7500	3000
D12	7500	3000
D12	7500	3000

Note:

*The above milling parameters are calculated based on 3xD. Decrease both spindle speed and feed rate proportionally if the overhang length exceeds 3xD;

*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.

4 Flutes

Radius