



MG

HG
Coating

45

SD
0-0.003R
±0.005R
±0.007

D ≤ 6

D8 ~ 12

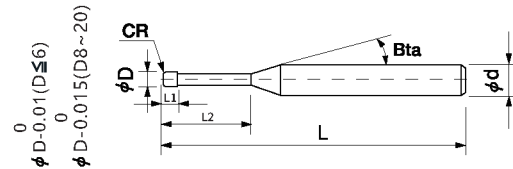
Highly recommend ★ ○ ○
/Recommend/Suggest

Specialty

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	

*4 Flutes Radius End Mills for Mold Steel;

*Unique flute design, excellent performance on flat surface and contour milling.



The shank taper angle shown is not an exact value and to avoid contact with the workpiece, we recommend the user controls the precise value of this angle. Shank taper angle should not make contact with the workpiece.

4 Flutes

Total 72 models

Unit (mm)

Model Number	D Outside Diameter	L1 Length Of Cut	L2 Effective Length	CR Radius	Bta Shank Taper Angle	L Overall Length	T Number Of Flutes	d Shank Diameter	In Stock
SHGSR4-01001030	1	1.5	3	R0.1	12°	50	4	4	○
SHGSR4-01002030	1	1.5	3	R0.2	12°	50	4	4	○
SHGSR4-01502045	1.5	2	4.5	R0.2	12°	50	4	4	○
SHGSR4-01503045	1.5	2	4.5	R0.3	12°	50	4	4	○
SHGSR4-01505045	1.5	2	4.5	R0.5	12°	50	4	4	○
SHGSR4-02002060	2	3	6	R0.2	12°	50	4	4	○
SHGSR4-02003060	2	3	6	R0.3	12°	50	4	4	○
SHGSR4-02005060	2	3	6	R0.5	12°	50	4	4	○
SHGSR4-02002060-6	2	3	6	R0.2	12°	60	4	6	○
SHGSR4-02003060-6	2	3	6	R0.3	12°	60	4	6	○
SHGSR4-02005060-6	2	3	6	R0.5	12°	60	4	6	○
SHGSR4-03002090	3	4.5	9	R0.2	12°	50	4	4	○
SHGSR4-03003090	3	4.5	9	R0.3	12°	50	4	4	○
SHGSR4-03005090	3	4.5	9	R0.5	12°	50	4	4	○
SHGSR4-03002090-6	3	4.5	9	R0.2	12°	60	4	6	○
SHGSR4-03003090-6	3	4.5	9	R0.3	12°	60	4	6	○
SHGSR4-03005090-6	3	4.5	9	R0.5	12°	60	4	6	○
SHGSR4-04002120	4	6	12	R0.2	-	50	4	4	○
SHGSR4-04003120	4	6	12	R0.3	-	50	4	4	○
SHGSR4-04005120	4	6	12	R0.5	-	50	4	4	○
SHGSR4-04002120-6	4	6	12	R0.2	12°	60	4	6	○
SHGSR4-04003120-6	4	6	12	R0.3	12°	60	4	6	○

Radius

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Total 72 models

Unit (mm)

Model Number	D Outside Diameter	L1 Length Of Cut	L2 Effective Length	CR Radius	Bta Shank Taper Angle	L Overall Length	T Number Of Flutes	d Shank Diameter	In Stock
SHGSR4-04005120-6	4	6	12	R0.5	12°	60	4	6	○
SHGSR4-04005120-75	4	8	12	R0.5	-	75	4	4	○
SHGSR4-04010120-75	4	8	12	R1	-	75	4	4	○
SHGSR4-05005150	5	7.5	15	R0.5	12°	60	4	6	○
SHGSR4-05010150	5	7.5	15	R1	12°	60	4	6	○
SHGSR4-06002200	6	9	20	R0.2	-	60	4	6	○
SHGSR4-06005200	6	9	20	R0.5	-	60	4	6	○
SHGSR4-06010200	6	9	20	R1	-	60	4	6	○
SHGSR4-06002200-75	6	12	20	R0.2	-	75	4	6	○
SHGSR4-06005200-75	6	12	20	R0.5	-	75	4	6	○
SHGSR4-06010200-75	6	12	20	R1	-	75	4	6	○
SHGSR4-06002200-100	6	12	20	R0.2	-	100	4	6	○
SHGSR4-06005200-100	6	12	20	R0.5	-	100	4	6	○
SHGSR4-06010200-100	6	12	20	R1	-	100	4	6	○
SHGSR4-08005240	8	12	24	R0.5	-	60	4	8	○
SHGSR4-08010240	8	12	24	R1	-	60	4	8	○
SHGSR4-08005240-75	8	12	24	R0.5	-	75	4	8	○
SHGSR4-08010240-75	8	12	24	R1	-	75	4	8	○
SHGSR4-08005240-100	8	16	24	R0.5	-	100	4	8	○
SHGSR4-08010240-100	8	16	24	R1	-	100	4	8	○
SHGSR4-08005240-150	8	16	24	R0.5	-	150	4	8	○
SHGSR4-08010240-150	8	16	24	R1	-	150	4	8	○
SHGSR4-10005300	10	15	30	R0.5	-	75	4	10	○
SHGSR4-10010300	10	15	30	R1	-	75	4	10	○
SHGSR4-10005300-100	10	20	30	R0.5	-	100	4	10	○
SHGSR4-10010300-100	10	20	30	R1	-	100	4	10	○
SHGSR4-10005300-150	10	20	30	R0.5	-	150	4	10	○
SHGSR4-10010300-150	10	20	30	R1	-	150	4	10	○
SHGSR4-12005360	12	18	36	R0.5	-	75	4	12	○
SHGSR4-12010360	12	18	36	R1	-	75	4	12	○
SHGSR4-12005360-100	12	24	36	R0.5	-	100	4	12	○
SHGSR4-12010360-100	12	24	36	R1	-	100	4	12	○
SHGSR4-12005360-150	12	24	36	R0.5	-	150	4	12	○
SHGSR4-12010360-150	12	24	36	R1	-	150	4	12	○
SHGSR4-14010420-100	14	21	42	R1	-	100	4	14	○
SHGSR4-14020420-100	14	21	42	R2	-	100	4	14	○
SHGSR4-14010420-150	14	28	42	R1	-	150	4	14	○
SHGSR4-14020420-150	14	28	42	R2	-	150	4	14	○

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Total 72 models

Unit (mm)

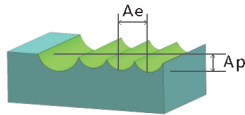
Model Number	D Outside Diameter	L1 Length Of Cut	L2 Effective Length	CR Radius	Bta Shank Taper Angle	L Overall Length	T Number Of Flutes	d Shank Diameter	In Stock
SHGSR4-16010480-100	16	24	48	R1	-	100	4	16	○
SHGSR4-16020480-100	16	24	48	R2	-	100	4	16	○
SHGSR4-16010480-150	16	32	48	R1	-	150	4	16	○
SHGSR4-16020480-150	16	32	48	R2	-	150	4	16	○
SHGSR4-18010540-100	18	27	54	R1	-	100	4	18	○
SHGSR4-18020540-100	18	27	54	R2	-	100	4	18	○
SHGSR4-18010540-150	18	36	54	R1	-	150	4	18	○
SHGSR4-18020540-150	18	36	54	R2	-	150	4	18	○
SHGSR4-20010600-100	20	30	60	R1	-	100	4	20	○
SHGSR4-20020600-100	20	30	60	R2	-	100	4	20	○
SHGSR4-20010600-150	20	40	60	R1	-	150	4	20	○
SHGSR4-20020600-150	20	40	60	R2	-	150	4	20	○

*New size added from this series.

○ Stocked items.

4 Flutes

Radius



Work Material	HRC30-45 Prehardened Steels		HRC45-55 Hardened Steels		HRC55-65 Hardened Steels	
(mm) Diameter /Radius	(min-1) Speed	(mm/min) Feed	(min-1) Speed	(mm/min) Feed	(min-1) Speed	(mm/min) Feed
D1 R0.2	15000	1000	12000	1000	10000	800
D1 R0.3	15000	1000	12000	1000	10000	800
D1.5 R0.2	14000	1500	12000	1200	10000	1000
D1.5 R0.3	14000	1500	12000	1200	10000	1000
D1.5 R0.5	14000	1500	12000	1200	10000	1000
D2 R0.2	14000	1500	12000	1500	10000	1200
D2 R0.3	14000	1500	12000	1500	10000	1200
D2 R0.5	14000	1500	12000	1500	10000	1200
D2 R0.2	14000	1800	12000	1800	10000	1200
D2 R0.3	14000	1800	12000	1800	10000	1200
D2 R0.5	14000	1800	12000	1800	10000	1200
D3 R0.2	13000	1800	11000	1800	9000	1200
D3 R0.3	13000	1800	11000	1800	9000	1200
D3 R0.5	13000	1800	11000	1800	9000	1200
D3 R0.2	13000	2000	11000	2000	9000	1400
D3 R0.3	13000	2000	11000	2000	9000	1400
D3 R0.5	13000	2000	11000	2000	9000	1400
D4 R0.2	12000	2000	10000	2000	7500	1300
D4 R0.3	12000	2000	10000	2000	7500	1300
D4 R0.5	12000	2000	10000	2000	7500	1300
D4 R0.2	12000	2200	10000	2000	7500	1500
D4 R0.3	12000	2200	10000	2000	7500	1500
D4 R0.5	12000	2200	10000	2000	7500	1500
D4 R0.5	12000	2000	10000	2000	7500	1300
D4 R1	12000	2000	10000	2000	7500	1300
D5 R0.5	12000	2200	10000	2200	7500	1500
D5 R1	12000	2200	10000	2200	7500	1500
D6 R0.2	11000	2400	9000	2400	7000	1800
D6 R0.5	11000	2400	9000	2400	7000	1800
D6 R1	11000	2400	9000	2400	7000	1800
D6 R0.2	11000	2400	9000	2400	7000	1800
D6 R0.5	11000	2400	9000	2400	7000	1800
D6 R1	11000	2400	9000	2400	7000	1800
D6 R0.2	11000	2400	9000	2400	7000	1800
D6 R0.5	11000	2400	9000	2400	7000	1800

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Work Material	HRC30-45 Prehardened Steels		HRC45-55 Hardened Steels		HRC55-65 Hardened Steels	
(mm) Diameter /Radius	(min-1) Speed	(mm/min) Feed	(min-1) Speed	(mm/min) Feed	(min-1) Speed	(mm/min) Feed
D6R1	11000	2400	9000	2400	7000	1800
D8R0.5	9000	2600	8000	2600	6000	2000
D8R1	9000	2600	8000	2600	6000	2000
D8R0.5	9000	2600	8000	2600	6000	2000
D8R1	9000	2600	8000	2600	6000	2000
D8R0.5	9000	2600	8000	2600	6000	2000
D8R1	9000	2600	8000	2600	6000	2000
D8R0.5	9000	2600	8000	2600	6000	2000
D8R1	9000	2600	8000	2600	6000	2000
D10R0.5	8000	2600	7000	2600	5500	2000
D10R1	8000	2600	7000	2600	5500	2000
D10R0.5	8000	2600	7000	2600	5500	2000
D10R1	8000	2600	7000	2600	5500	2000
D10R0.5	8000	2600	7000	2600	5500	2000
D10R1	8000	2600	7000	2600	5500	2000
D12R0.5	7500	3000	6500	2600	5000	2000
D12R1	7500	3000	6500	2600	5000	2000
D12R0.5	7500	3000	6500	2600	5000	2000
D12R1	7500	3000	6500	2600	5000	2000
D12R0.5	7500	3000	6500	2600	5000	2000
D12R1	7500	3000	6500	2600	5000	2000
D14R1	6500	3000	6000	2800	4500	1800
D14R2	6500	3000	6000	2800	4500	1800
D14R1	6500	3000	6000	2800	4500	1800
D14R2	6500	3000	6000	2800	4500	1800
D16R1	5500	3200	5000	2800	4000	1800
D16R2	5500	3200	5000	2800	4000	1800
D16R1	5500	3200	5000	2800	4000	1800
D16R2	5500	3200	5000	2800	4000	1800
D18R1	4500	3000	4000	2800	3500	1800
D18R2	4500	3000	4000	2800	3500	1800
D18R1	4500	3000	4000	2800	3500	1800
D18R2	4500	3000	4000	2800	3500	1800
D20R1	4000	2800	3500	2600	3000	1800
D20R2	4000	2800	3500	2600	3000	1800
D20R1	4000	2800	3500	2600	3000	1800
D20R2	4000	2800	3500	2600	3000	1800

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.

4 Flutes

Radius