



MG

DIA
Coating

30

SD
0-0.005R
±0.005

D≤6

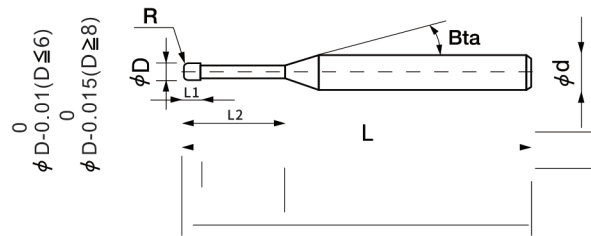
R
±0.01

D8~12

Highly recommend ★ ○ ○
/Recommend/Suggest

Specialty

- *4 flutes radius type end mills for graphite machining;
- *New diamond coating offers excellent resistance to wear and abrasion;
- *Ultra-fine diamond coating particles.



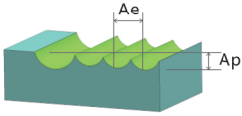
DIE STEEL	Grade
Carbon steels (S45C/S55C)	
Alloy steels (SK/SCM/SUS)	
Prehardened steels (NAK/HPM)	
Hardened steels (~55/~60/~70HRC)	
SPECIAL MATERIAL	
Aluminum alloys	
Graphite	★
Copper	
Plastics	
Carbon fiber	
Titanium alloys	
Heat resistant alloys	
Cemented carbide	
Hard brittle (non-metallic) material	

Total 42 models

Unit (mm)

Model Number	D Outside Diameter	L1 Length of Cut	L2 Effective Length	Radius	Bta Shank Taper Angle	L Overall Length	T Number of Flutes	d Shank Diameter	In Stock
GRASR4-0302100-60	3	10	-	0.2	15°	60	4	3/4	○
GRASR4-0302100-75	3	10	-	0.2	15°	75	4	3/4	○
GRASR4-0302100-100	3	10	-	0.2	15°	100	4	3/4	○
GRASR4-0305100-60	3	10	-	0.5	15°	60	4	3/4	○
GRASR4-0305100-75	3	10	-	0.5	15°	75	4	3/4	○
GRASR4-0305100-100	3	10	-	0.5	15°	100	4	3/4	○
GRASR4-04001120-60	4	12	-	0	-	60	4	4	○
GRASR4-04001120-75	4	12	-	0	-	75	4	4	○
GRASR4-04001120-100	4	12	-	0	-	100	4	4	○
GRASR4-04002120-60	4	12	-	0.2	-	60	4	4	○
GRASR4-04002120-75	4	12	-	0.2	-	75	4	4	○
GRASR4-04002120-100	4	12	-	0.2	-	100	4	4	○
GRASR4-04005120-60	4	12	-	0.5	-	60	4	4	○
GRASR4-04005120-75	4	12	-	0.5	-	75	4	4	○
GRASR4-04005120-100	4	12	-	0.5	-	100	4	4	○
GRASR4-06002200-60	6	20	-	0.2	-	60	4	6	○
GRASR4-06002200-75	6	20	-	0.2	-	75	4	6	○
GRASR4-06002250-100	6	25	-	0.2	-	100	4	6	○
GRASR4-06003200-60	6	20	-	0.3	-	60	4	6	○
GRASR4-06003200-75	6	20	-	0.3	-	75	4	6	○

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Total 42 models

Unit (mm)

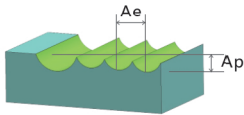
Model Number	D Outside Diameter	L1 Length of Cut	L2 Effective Length	Radius	Bta Shank Taper Angle	L Overall Length	T Number of Flutes	d Shank Diameter	In Stock
GRASR4-06003250-100	6	25	-	0.3	-	100	4	6	○
GRASR4-06005200-60	6	20	-	0.5	-	60	4	6	○
GRASR4-06005200-75	6	20	-	0.5	-	75	4	6	○
GRASR4-06005250-100	6	25	-	0.5	-	100	4	6	○
GRASR4-08005250-75	8	25	-	0.5	-	75	4	8	○
GRASR4-08005300-100	8	30	-	0.5	-	100	4	8	○
GRASR4-08005350-150	8	35	-	0.5	-	150	4	8	○
GRASR4-08010250-75	8	30	-	1	-	75	4	8	○
GRASR4-08010300-100	8	30	-	1	-	100	4	8	○
GRASR4-08010350-150	8	35	-	1	-	150	4	8	○
GRASR4-10005250-75	10	25	-	0.5	-	75	4	10	○
GRASR4-10005300-100	10	30	-	0.5	-	100	4	10	○
GRASR4-10005400-150	10	40	-	0.5	-	150	4	10	○
GRASR4-10010250-75	10	25	-	1	-	75	4	10	○
GRASR4-10010300-100	10	30	-	1	-	100	4	10	○
GRASR4-10010400-150	10	40	-	1	-	150	4	10	○
GRASR4-12005400-100	12	40	-	0.5	-	100	4	12	○
GRASR4-12005500-150	12	50	-	0.5	-	150	4	12	○
GRASR4-12005500-180	12	50	-	0.5	-	180	4	12	○
GRASR4-12010400-100	12	40	-	1	-	100	4	12	○
GRASR4-12010500-150	12	50	-	1	-	150	4	12	○
GRASR4-12010500-180	12	50	-	1	-	180	4	12	○

*New size added from this series.

*Stocked items.

4 Flutes

Radius



Work Material		Graphite							
(mm) Diameter /Radius	(mm) Overhang	Roughing				Finishing			
		(min-1) Speed	(mm/min) Feed	Ap(mm)	Ae(mm)	(min-1) Speed	(mm/min) Feed	Ap(mm)	Ae(mm)
3R0.2	12↔24	15000↔12000	3000↔2500	0.3	1.8	15000↔12000	3000↔2500	0.12	0.12
3R0.2	24↔42	12000↔6000	2500↔1500	0.2	1.8	12000↔6000	2500↔1500	0.12	0.12
3R0.2	42↔70	6000↔4000	1500↔1000	0.15	1.8	6000↔4000	1500↔1000	0.12	0.12
3R0.5	12↔24	15000↔12000	3000↔2500	0.3	1.8	15000↔12000	3000↔2500	0.12	0.12
3R0.5	24↔42	12000↔6000	2500↔1500	0.2	1.8	12000↔6000	2500↔1500	0.12	0.12
3R0.5	42↔70	6000↔4000	1500↔1000	0.15	1.8	6000↔4000	1500↔1000	0.12	0.12
4R0.1	18↔24	14000↔12000	3000↔2500	0.3	2	14000↔12000	3000↔2500	0.08	0.12
4R0.1	24↔42	12000↔6000	2500↔1500	0.3	2	12000↔6000	2500↔1500	0.08	0.12
4R0.1	42↔70	6000↔4000	1500↔1000	0.2	2	6000↔4000	1500↔1000	0.08	0.12
4R0.2	18↔24	14000↔12000	3000↔2500	0.3	2	14000↔12000	3000↔2500	0.12	0.12
4R0.2	24↔42	12000↔6000	2500↔1500	0.3	2	12000↔6000	2500↔1500	0.12	0.12
4R0.2	42↔70	6000↔4000	1500↔1000	0.2	2	6000↔4000	1500↔1000	0.12	0.12
6R0.5	18↔24	14000↔12000	3000↔2500	0.3	2	14000↔12000	3000↔2500	0.12	0.12
6R0.5	24↔42	12000↔6000	2500↔1500	0.3	2	12000↔6000	2500↔1500	0.12	0.12
6R0.5	42↔70	6000↔4000	1500↔1000	0.2	2	6000↔4000	1500↔1000	0.12	0.12
6R0.2	18↔30	12000↔9000	4000↔3500	1	2.4	12000↔9000	4000↔3500	0.1	0.12
6R0.2	30↔42	9000↔7000	3500↔2500	1	2.4	9000↔7000	3500↔2500	0.1	0.12
6R0.2	42↔70	7000↔4000	25000↔1500	0.6	2.4	7000↔4000	25000↔1500	0.1	0.12
6R0.3	18↔30	12000↔9000	4000↔3500	1	2.4	12000↔9000	4000↔3500	0.12	0.12
6R0.3	30↔42	9000↔7000	3500↔2500	1	2.4	9000↔7000	3500↔2500	0.12	0.12
6R0.3	42↔70	7000↔4000	25000↔1500	0.6	2.4	7000↔4000	25000↔1500	0.12	0.12
8R0.5	18↔30	12000↔9000	4000↔3500	1.5	3.6	12000↔9000	4000↔3500	0.15	0.12
8R0.5	30↔42	9000↔7000	3500↔2500	1.2	3.6	9000↔7000	3500↔2500	0.15	0.12
8R0.5	42↔70	7000↔4000	25000↔1500	1.2	3.6	7000↔4000	25000↔1500	0.15	0.12
8R0.5	24↔32	10000↔8000	4000↔3500	1.8	4.8	10000↔8000	4000↔3500	0.18	0.12
8R0.5	32↔56	8000↔5000	3500↔2000	1.8	4.8	8000↔5000	3500↔2000	0.18	0.12
8R0.5	56↔110	5000↔2000	2000↔1000	1.8	4.8	5000↔2000	2000↔1000	0.18	0.12
10R1	24↔32	10000↔8000	4000↔3500	1.8	4.8	10000↔8000	4000↔3500	0.18	0.12
10R1	32↔56	8000↔5000	3500↔2000	1.8	4.8	8000↔5000	3500↔2000	0.18	0.12
10R1	56↔110	5000↔2000	2000↔1000	1.8	4.8	5000↔2000	2000↔1000	0.18	0.12
10R0.5	24↔40	10000↔8000	4000↔3500	2	6	10000↔8000	4000↔3500	0.18	0.12
10R0.5	40↔70	8000↔5000	3500↔2000	2	6	8000↔5000	3500↔2000	0.18	0.12
10R0.5	70↔110	5000↔2000	2000↔1000	2	6	5000↔2000	2000↔1200	0.18	0.12
R1	24↔40	10000↔8000	4000↔3500	2	6	10000↔8000	4000↔3500	0.18	0.12
R1	40↔70	8000↔5000	3500↔2000	2	6	8000↔5000	3500↔2000	0.18	0.12
10R1	70↔110	5000↔2000	2000↔1000	2	6	5000↔2000	2000↔1000	0.18	0.12
12R0.5	48↔72	7000↔5000	3500↔2500	3	8	7000↔5000	3500↔2500	0.18	0.12
12R0.5	72↔110	5000↔4000	2500↔1800	3	8	5000↔4000	2500↔1800	0.18	0.12
12R0.5	110↔150	4000↔2000	1800↔450	3	8	4000↔2000	1800↔1200	0.18	0.12
12R1	48↔72	7000↔5000	3500↔2500	3	8	7000↔5000	3500↔2500	0.18	0.12
12R1	72↔110	5000↔4000	2500↔1800	3	8	5000↔4000	2500↔1800	0.18	0.12
12R1	110↔150	4000↔2000	1800↔450	3	8	4000↔2000	1800↔1200	0.18	0.12