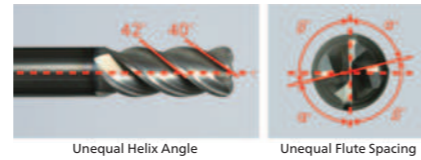
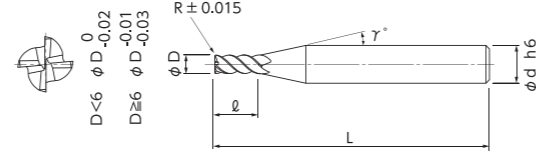
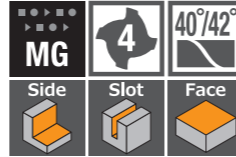


MUGEN COATING PREMIUM Power Radius End Mill

Total 19 sizes

Recommended Milling Conditions

For machining on stainless steels and heat resistant alloy.
High efficient machining with unequal flute spacing and unequal helix angle design to suppress chattering



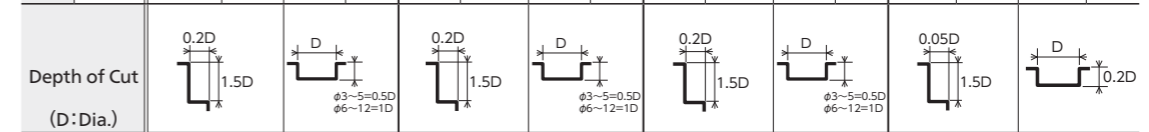
- Improved designs of unequal helix angle and flute spacing. Suppression from chattering to realize stable milling progression.
- Original spiral design at corner radius flutes improves cutting edge performance!
- Designed for high rigidity to suppress corner radius flute breakage even on rough milling stresses.
- Adopted MUGEN COATING PREMIUM for improvement heat resistance and cutting edge strength to protect from milling heat influence.

Unit : mm

Code No.	Dia. (D)	Corner Radius (R)	Length of Cut (ℓ)	Neck Taper Angle (γ)	Shank Dia. (d)	Overall Length (L)
08-00150-03003	3	R0.3	8	12°	6	60
08-00150-03005		R0.5	8	12°	6	60
08-00150-04003	4	R0.3	11	12°	6	60
08-00150-04005		R0.5	11	12°	6	60
08-00150-04010	5	R1	11	12°	6	60
08-00150-05003		R0.3	13	12°	6	60
08-00150-05005	5	R0.5	13	12°	6	60
08-00150-05010		R1	13	12°	6	60
08-00150-06005	6	R0.5	13	-	6	60
08-00150-06010		R1	13	-	6	60
08-00150-08005	8	R0.5	19	-	8	65
08-00150-08010		R1	19	-	8	65
08-00150-10005	10	R0.5	22	-	10	75
08-00150-10010		R1	22	-	10	75
08-00150-10020		R2	22	-	10	75
08-00150-10030		R3	22	-	10	75
08-00150-12005	12	R0.5	26	-	12	80
08-00150-12010		R1	26	-	12	80
08-00150-12020		R2	26	-	12	80

How to Order When you order, indicate MSXH440R (D)×(R). ※(γ) is reference value.

Work Material	Dia.	Corner Radius	Alloy Steels SKD·SCM				Stainless Steels SUS304				Titanium Alloy Ti-6Al-4V				Heat Resistance Alloy Inconel®718			
			Side Milling		Slotting		Side Milling		Slotting		Side Milling		Slotting		Side Milling		Slotting	
			Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed	Spindle Speed	Feed
3	0.3	0.5	17,600	1,430	8,600	700	6,000	750	6,000	600	5,600	750	5,600	600	3,600	250	2,500	140
			17,600	1,430	8,600	700	6,000	750	6,000	550	5,600	750	5,600	550	3,600	250	2,500	140
4	0.3	0.5	13,200	1,540	6,500	780	5,200	800	5,200	650	4,800	800	4,800	650	3,100	250	2,200	150
			13,200	1,540	6,500	780	5,200	800	5,200	600	4,800	800	4,800	600	3,100	250	2,200	150
5	0.3	0.5	10,500	1,650	5,500	760	4,600	900	4,600	700	4,200	900	4,200	700	2,600	300	1,900	160
			10,500	1,650	5,500	760	4,600	900	4,600	650	4,200	900	4,200	650	2,600	300	1,900	160
6	0.5	1	8,800	2,420	4,300	630	4,200	1,000	4,000	400	3,800	1,000	3,600	400	2,100	300	1,300	170
			8,800	2,420	4,300	630	4,200	1,000	4,000	350	3,800	1,000	3,600	350	2,100	300	1,300	170
8	0.5	1	6,600	1,980	3,300	560	3,600	850	3,200	350	3,200	850	2,800	350	1,700	300	1,100	170
			6,600	1,980	3,300	560	3,600	850	3,200	300	3,200	850	2,800	300	1,700	300	1,100	170
10	0.5	1	5,300	1,430	2,600	550	3,000	600	2,500	300	2,600	600	2,100	300	1,300	250	900	160
			5,300	1,430	2,600	550	3,000	600	2,500	250	2,600	600	2,100	250	1,300	250	900	160
	2	3	5,300	1,430	2,600	550	3,000	600	2,500	200	2,600	600	2,100	200	1,300	250	900	160
			5,300	1,430	2,600	550	3,000	600	2,500	200	2,600	600	2,100	200	1,300	250	900	160
12	0.5	1	4,400	1,100	2,200	480	2,500	500	2,000	200	2,100	500	1,600	200	900	200	700	150
			4,400	1,100	2,200	480	2,500	500	2,000	200	2,100	500	1,600	200	900	200	700	150
	2	4,400	1,100	2,200	480	2,500	500	2,000	150	2,100	500	1,600	150	900	200	700	150	



Notes

- ※1 Adjust milling condition conforming with machine rigidity and clamping condition.
- ※2 The recommended milling conditions are based on milling with water-soluble fluid.
- ※3 Adjust milling condition with caution for chip evacuation and smoke generation when milling with water-insoluble fluid.
- ※4 Use a rigid machine and holder.
- ※5 Overhang of end mill should be as short as possible from spindle nose.
(The recommended milling conditions are reference values under the overhang L/D: 5D(φ3~5), 4D(φ6~8), 3D(φ10~12)

Stainless Steel M

Titanium Alloy Heat Resistant Alloy S

Stainless Steel M

Titanium Alloy Heat Resistant Alloy S

Corner Radius Coating

Corner Radius Coating