

无限白金Plus涂层 高硬度钢材高效率加工用小径3刃长颈球头铣刀

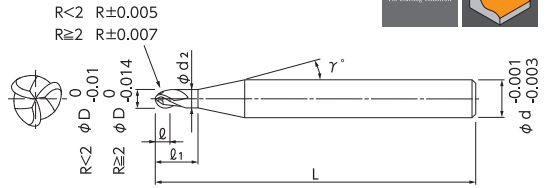
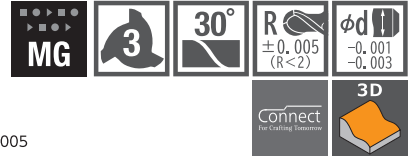
共有31种规格

MUGEN COATING PREMIUM Plus High Efficient 3-Flute Small-Diameter Long Neck Ball End Mill for Hardened Steel

Total 31 sizes

## 提升刀刃刚性和排屑性能， 进而实现“高效率·高精度”的模具加工

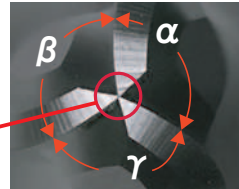
High efficiency high-precision die machining with improved cutting edge rigidity and chip evacuation



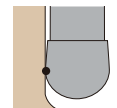
- 优化了中心刃形状，可实现高切深的高效3刃球头铣刀。
- 对60 ~ 70HRC的高硬度钢材也兼具锋利度和耐磨损性，可实现延长刀具寿命、高效率加工。
- 柄径公差为-0.001mm至-0.003mm的高精度规格。
- High-efficiency 3-flute ball end mill optimizes a shape of central edge and enables high depth of cutting.
- Even hardened steel of 60 to 70HRC can be machining with long tool life and high efficiency.
- Shank diameter tolerance, high accuracy type, is - 0.001 ~ - 0.003.

高进给加工时也可抑制振刀  
现象的不等分割造型  
Unequal spacing suppresses chattering  
even high feed rate machining

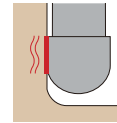
$$\alpha \neq \beta \neq \gamma$$



优化了中心形状，可实现高进给  
和高切深的刀刃形状  
Optimizes center edge shape  
enables high depth of cut and high  
feed machining



单点切削，不易振刀！  
Suppress chattering by point milling



普通铣刀  
General End Mill



单位 [规格: mm / 价格: 日元]  
Unit [Size: mm / Retail Price: JPY]

### ◆ 新增规格

产品代码 Code No.	(R)球头半径 Radius	(ℓ1)颈长 Under Neck Length	(ℓ)刃长 Length of Cut	(D)外径 Dia.	(d2)颈径 Neck Dia.	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price	相对于工件斜度的有效长 Actual effective length depending on inclined angle of workpiece				
										30°	1°	1°30'	2°	3°
08-00634-01003	R0.1	0.3	0.15	0.2	0.18	12°	4	45	10,500	0.35	0.36	0.38	0.39	0.42
08-00634-01005		0.5	0.15	0.2	0.18	12°	4	45	10,500	0.56	0.58	0.61	0.63	0.69
08-00634-01505	R0.15	0.5	0.2	0.3	0.28	12°	4	45	10,400	0.56	0.58	0.60	0.62	0.67
08-00634-01506		0.6	0.2	0.3	0.28	12°	4	45	10,400	0.66	0.69	0.71	0.74	0.81
08-00634-01507		0.75	0.2	0.3	0.28	12°	4	45	10,400	0.82	0.85	0.88	0.92	1.01
08-00634-01510		1	0.2	0.3	0.28	12°	4	45	10,400	1.08	1.12	1.17	1.22	1.34
08-00634-02005	R0.2	0.5	0.3	0.4	0.37	12°	4	45	7,100	0.58	0.60	0.62	0.64	0.69
08-00634-02008		0.8	0.3	0.4	0.37	12°	4	45	7,100	0.89	0.93	0.96	1.00	1.09
08-00634-02010		1	0.3	0.4	0.37	12°	4	45	7,100	1.1	1.14	1.19	1.24	1.35
08-00634-02510	R0.25	1	0.35	0.5	0.46	12°	4	45	7,100	1.13	1.16	1.21	1.26	1.37
08-00634-02515		1.5	0.35	0.5	0.46	12°	4	45	7,100	1.65	1.71	1.78	1.85	2.03
08-00634-03010	R0.3	1	0.45	0.6	0.56	12°	4	45	6,100	1.12	1.16	1.20	1.25	1.35
08-00634-03015		1.5	0.45	0.6	0.56	12°	4	45	6,100	1.64	1.71	1.77	1.84	2.02
08-00634-03020		2	0.45	0.6	0.56	12°	4	45	6,100	2.17	2.25	2.34	2.44	2.68
08-00634-05020	R0.5	2	0.75	1	0.95	12°	4	45	5,700	2.18	2.26	2.34	2.43	2.65
08-00634-05025		2.5	0.75	1	0.95	12°	4	45	5,700	2.7	2.80	2.91	3.03	3.31
08-00634-05030	R0.75	3	0.75	1	0.95	12°	4	45	5,700	3.22	3.35	3.48	3.63	3.97
08-00634-07503		3	1.1	1.5	1.45	12°	4	45	6,500	3.21	3.33	3.45	3.58	3.89
08-00634-07504		4	1.1	1.5	1.45	12°	4	45	6,500	4.26	4.41	4.59	4.78	5.22
08-00634-10003	R1	3	1.5	2	1.94	12°	4	45	5,100	3.23	3.33	3.44	3.56	3.85
08-00634-10004		4	1.5	2	1.94	12°	4	45	5,100	4.27	4.42	4.58	4.76	5.17
08-00634-10006		6	1.5	2	1.94	12°	4	45	5,100	6.36	6.60	6.86	7.15	7.83
◆ 08-00634-15006	R1.5	6	2.5	3	2.85	12°	6	60	7,000	6.56	6.78	7.03	7.31	7.95
◆ 08-00634-15008		8	2.5	3	2.85	12°	6	60	7,000	8.64	8.96	9.31	9.70	10.6
◆ 08-00634-15010		10	2.5	3	2.85	12°	6	60	7,000	10.73	11.14	11.59	12.09	13.26
◆ 08-00634-20008	R2	8	3	4	3.8	12°	6	65	7,400	8.74	9.05	9.38	9.74	10.6
◆ 08-00634-20010		10	3	4	3.8	12°	6	65	7,400	10.83	11.22	11.66	12.14	13.25
◆ 08-00634-20012		12	3	4	3.8	12°	6	65	7,400	12.91	13.40	13.94	14.53	15.91
◆ 08-00634-30010	R3	10	6	6	5.7	-	6	65	8,800	Free	Free	Free	Free	Free
◆ 08-00634-30015		15	6	6	5.7	-	6	65	8,800	Free	Free	Free	Free	Free
◆ 08-00634-30020		20	6	6	5.7	-	6	65	8,800	Free	Free	Free	Free	Free

订购方法  
How to Order

请指定MRBSH330 球头半径 (R)×颈长 (ℓ1)。  
When you order, indicate MRBSH330(R)×(ℓ1).

※(γ)为参考值。  
※(γ) is reference value.

加工案例  
Machining Case

M-024, M-026

球头  
Long Neck  
Ball  
涂层  
Coating

高硬度钢~65  
Hardened Steel HRC H

高硬度钢~70  
Hardened Steel HRC H

常规系列  
无限白金Plus涂层  
Regular Line  
MUGEN PREMIUM Plus