

MRBSH230SF

R0.05 ~ R3 全 83 规格

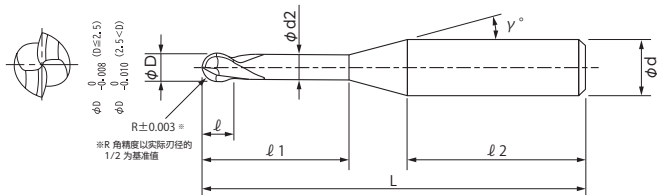


无限白金Plus涂层

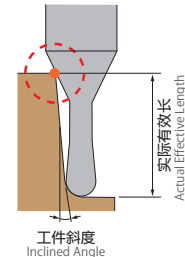
高硬度钢材高精度加工用2刃长颈球头铣刀可对应热缩刀柄的短柄造型

MUGEN COATING PREMIUM Plus 2-Flute Long Neck Ball End Mill with Short Shank for Hardened Steel

New



※R角精度以实际刃径的1/2为基准值
R accuracy is based on a half value of actual diameter



- 70HRC高硬度钢材也可实现长寿命稳定的切削性能。
- 新研发出无限白金Plus涂层，提升抗氧化性・耐磨耗性。
- 采用提升耐崩损性的新母材与减轻切削抵抗的刀刃设计。
- R角精度以实际刃径的1/2为基准值。
- 柄径公差为-0.001mm ~ -0.003mm, 2μm范围内的高精度设计。
- Realize stable cutting performance even for 70 HRC hardened steels.
- Developed new MUGEN COATING PREMIUM Plus to upgrade oxidation resistance and abrasion resistance.
- Adopt optimized new tool material and tool design to reduce cutting load.
- R accuracy is ±0.003mm (R accuracy is based on a half value of actual diameter).
- Shank diameter tolerance, high accuracy type, is -0.001 ~ -0.003.

加工材料 Work Material

高硬度钢材 Hardened Steels	
45 ~ 60 HRC	60 ~ 70 HRC
○	◎

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

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) 刃径 Dia.	(d2) 颈径 Neck Dia.	(γ) 颈角 Neck Taper Angle	(d) 柄径 Shank Dia.	(L2) 柄长 Shank Length	(L) 全长 Overall Length	标准价格 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°
08-00537-00052	R0.05	0.2	0.07	0.1	0.085	15°	4	27.4	35	9,000	0.23	0.24	0.24	0.25	0.27
08-00537-00053		0.3	0.07	0.1	0.085	15°	4	27.3	35	9,200	0.33	0.34	0.35	0.36	0.39
08-00537-00055		0.5	0.07	0.1	0.085	15°	4	27.1	35	9,900	0.54	0.56	0.57	0.59	0.64
08-00537-00072	R0.075	0.3	0.1	0.15	0.13	15°	4	27.4	35	9,500	0.34	0.35	0.36	0.37	0.40
08-00537-00073		0.5	0.1	0.15	0.13	15°	4	27.2	35	9,900	0.55	0.56	0.58	0.60	0.65
08-00537-00101	R0.1	0.3	0.15	0.2	0.18	15°	4	27.5	35	7,200	0.34	0.35	0.36	0.37	0.39
08-00537-00102		0.5	0.15	0.2	0.18	15°	4	27.3	35	7,200	0.55	0.56	0.58	0.60	0.64
08-00537-00103		0.75	0.15	0.2	0.18	15°	4	27.1	35	7,200	0.81	0.83	0.86	0.89	0.95
08-00537-00105		1	0.15	0.2	0.18	15°	4	26.8	35	7,200	1.06	1.10	1.13	1.17	1.26
08-00537-00150	R0.15	0.5	0.2	0.3	0.28	15°	4	27.5	35	7,100	0.55	0.56	0.57	0.59	0.63
08-00537-00151		0.6	0.2	0.3	0.28	15°	4	27.4	35	7,100	0.65	0.67	0.69	0.71	0.75
08-00537-00152		0.75	0.2	0.3	0.28	15°	4	27.3	35	7,100	0.80	0.83	0.85	0.88	0.94
08-00537-00153		1	0.2	0.3	0.28	15°	4	27.0	35	7,100	1.06	1.09	1.13	1.17	1.25
08-00537-00155	R0.2	1.5	0.2	0.3	0.28	15°	4	26.5	35	7,600	1.58	1.63	1.68	1.74	1.87
08-00537-00201		0.5	0.3	0.4	0.37	15°	4	27.7	35	5,200	0.56	0.58	0.59	0.60	0.64
08-00537-00202		0.8	0.3	0.4	0.37	15°	4	27.4	35	5,200	0.87	0.90	0.92	0.95	1.01
08-00537-00203		1	0.3	0.4	0.37	15°	4	27.2	35	5,200	1.08	1.11	1.14	1.18	1.26
08-00537-00204	R0.25	1.5	0.3	0.4	0.37	15°	4	26.7	35	5,400	1.60	1.65	1.70	1.75	1.88
08-00537-00205		2	0.3	0.4	0.37	15°	4	26.2	35	5,500	2.11	2.18	2.25	2.33	2.50
08-00537-00206		2.5	0.3	0.4	0.37	15°	4	25.7	35	5,700	2.63	2.72	2.81	2.90	3.13
08-00537-00252		1	0.35	0.5	0.46	15°	4	27.3	35	5,200	1.10	1.13	1.16	1.19	1.27
08-00537-00253	R0.3	1.5	0.35	0.5	0.46	15°	4	26.8	35	5,200	1.61	1.66	1.71	1.77	1.89
08-00537-00254		2	0.35	0.5	0.46	15°	4	26.3	35	5,200	2.13	2.20	2.27	2.34	2.51
08-00537-00255		2.5	0.35	0.5	0.46	15°	4	25.8	35	5,200	2.65	2.73	2.82	2.92	3.14
08-00537-00256		3	0.35	0.5	0.46	15°	4	25.3	35	5,200	3.16	3.27	3.38	3.49	3.76
08-00537-00300	R0.4	1	0.45	0.6	0.56	15°	4	27.5	35	4,500	1.10	1.12	1.15	1.19	1.26
08-00537-00301		1.5	0.45	0.6	0.56	15°	4	27.0	35	4,100	1.61	1.66	1.71	1.76	1.88
08-00537-00302		2	0.45	0.6	0.56	15°	4	26.5	35	4,100	2.13	2.19	2.26	2.34	2.50
08-00537-00303		2.5	0.45	0.6	0.56	15°	4	26.0	35	4,200	2.65	2.73	2.82	2.91	3.12
08-00537-00304		3	0.45	0.6	0.56	15°	4	25.5	35	4,200	3.16	3.26	3.37	3.49	3.75
08-00537-00305		3.5	0.45	0.6	0.56	15°	4	25.0	35	4,300	3.68	3.80	3.92	4.06	4.37
08-00537-00306	R0.5	4	0.45	0.6	0.56	15°	4	29.5	40	4,300	4.20	4.33	4.48	4.64	4.99
08-00537-00402		2	0.6	0.8	0.76	15°	4	26.9	35	4,100	2.13	2.19	2.25	2.32	2.48
08-00537-00403		3	0.6	0.8	0.76	15°	4	25.9	35	4,300	3.16	3.26	3.36	3.47	3.72
08-00537-00405		4	0.6	0.8	0.76	15°	4	24.9	35	4,300	4.19	4.33	4.47	4.62	4.97
08-00537-00406	R0.5	5	0.6	0.8	0.76	15°	4	28.9	40	4,300	5.23	5.40	5.58	5.77	6.21
08-00537-00501		2	0.75	1	0.95	15°	4	27.3	35	3,500	2.14	2.20	2.26	2.33	2.48
08-00537-00502		2.5	0.75	1	0.95	15°	4	26.8	35	3,500	2.66	2.73	2.82	2.90	3.10
08-00537-00503		3	0.75	1	0.95	15°	4	26.3	35	3,500	3.18	3.27	3.37	3.48	3.72
08-00537-00504		4	0.75	1	0.95	15°	4	25.3	35	3,900	4.21	4.34	4.48	4.63	4.97
08-00537-00505		5	0.75	1	0.95	15°	4	29.3	40	3,900	5.24	5.41	5.59	5.78	6.21
08-00537-00506		6	0.75	1	0.95	15°	4	28.3	40	4,300	6.28	6.48	6.69	6.93	7.45

订购方式

请指定MRBSH230SF 球头半径(R) × 颈长(L1)
When you order, indicate MRBSH230SF (R) × (L1).

※(γ)为参考值
※(γ) is reference value.

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

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) 刀径 Dia.	(d2) 颈径 Neck Dia.	(γ) 颈角 Neck Taper Angle	(d) 柄径 Shank Dia.	(ℓ2) 柄长 Shank Length	(L) 全长 Overall Length	标准价格 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°
08-00537-00602	R0.6	2.4	0.9	1.2	1.15	15°	4	27.2	35	5,100	2.55	2.62	2.69	2.77	2.95
08-00537-00603		4	0.9	1.2	1.15	15°	4	25.6	35	5,100	4.21	4.33	4.47	4.61	4.94
08-00537-00605		6	0.9	1.2	1.15	15°	4	28.6	40	5,600	6.27	6.47	6.68	6.91	7.43
08-00537-00606		8	0.9	1.2	1.15	15°	4	26.6	40	5,600	8.34	8.61	8.90	9.21	9.91
08-00537-00752	R0.75	3	1.1	1.5	1.45	15°	4	27.2	35	4,000	3.17	3.25	3.34	3.44	3.66
08-00537-00753		4	1.1	1.5	1.45	15°	4	26.2	35	4,000	4.20	4.32	4.45	4.59	4.91
08-00537-00754		6	1.1	1.5	1.45	15°	4	29.2	40	4,000	6.27	6.46	6.67	6.89	7.39
08-00537-00755		8	1.1	1.5	1.45	15°	4	27.2	40	4,200	8.34	8.60	8.88	9.19	9.88
08-00537-00756	R0.8	10	1.1	1.5	1.45	15°	4	25.2	40	4,500	10.40	10.74	11.10	11.49	12.36
08-00537-00805		8	1.2	1.6	1.55	15°	4	27.4	40	5,600	8.33	8.60	8.88	9.18	9.87
08-00537-01000	R1	3	1.5	2	1.94	15°	4	28.1	35	3,500	3.18	3.25	3.34	3.43	3.63
08-00537-01001		4	1.5	2	1.94	15°	4	27.1	35	3,500	4.21	4.32	4.45	4.58	4.87
08-00537-01002		6	1.5	2	1.94	15°	4	25.1	35	3,900	6.28	6.46	6.66	6.88	7.36
08-00537-01003		8	1.5	2	1.94	15°	4	28.1	40	4,200	8.35	8.60	8.88	9.18	9.84
08-00537-01004		10	1.5	2	1.94	15°	4	26.1	40	4,200	10.41	10.74	11.10	11.48	12.33
08-00537-01005		12	1.5	2	1.94	15°	4	29.1	45	4,200	12.48	12.88	13.31	13.77	14.82
08-00537-01252	R1.25	6	2.3	2.5	2.4	15°	4	26.0	35	5,200	6.35	6.53	6.72	6.92	7.39
08-00537-01253		8	2.3	2.5	2.4	15°	4	29.0	40	4,600	8.42	8.67	8.93	9.22	9.88
08-00537-01254		10	2.3	2.5	2.4	15°	4	27.0	40	5,500	10.48	10.81	11.15	11.52	12.36
08-00537-01256		15	2.3	2.5	2.4	15°	4	27.0	45	5,600	15.65	16.15	16.69	17.27	Free
08-00537-01500	R1.5	6	2.5	3	2.85	15°	6	33.1	45	4,200	6.44	6.61	6.79	7.00	7.45
08-00537-01501		8	2.5	3	2.85	15°	6	31.1	45	4,200	8.5	8.75	9.01	9.29	9.93
08-00537-01502		10	2.5	3	2.85	15°	6	29.1	45	4,800	10.57	10.89	11.23	11.59	12.42
08-00537-01503		12	2.5	3	2.85	15°	6	27.1	45	5,000	12.64	13.03	13.44	13.89	14.91
08-00537-01504		14	2.5	3	2.85	15°	6	30.1	50	5,600	14.71	15.17	15.66	16.19	17.39
08-00537-01505		16	2.5	3	2.85	15°	6	28.1	50	5,600	16.77	17.31	17.88	18.49	19.88
08-00537-01506	R2	20	2.5	3	2.85	15°	6	29.1	55	5,400	20.91	21.58	22.31	23.09	24.85
08-00537-02000		8	3	4	3.8	15°	6	32.8	45	4,300	8.58	8.81	9.06	9.33	9.93
08-00537-02001		10	3	4	3.8	15°	6	30.8	45	4,300	10.65	10.95	11.28	11.63	12.42
08-00537-02002		12	3	4	3.8	15°	6	28.8	45	5,600	12.72	13.09	13.49	13.93	14.90
08-00537-02004		15	3	4	3.8	15°	6	30.8	50	5,600	15.82	16.30	16.82	17.38	18.63
08-00537-02005		20	3	4	3.8	15°	6	30.8	55	5,600	20.99	21.65	22.36	23.13	Free
08-00537-02006	R2.5	25	3	4	3.8	15°	6	30.8	60	5,600	26.16	27.00	27.90	28.88	Free
08-00537-02502		10	3.5	5	4.8	15°	6	32.7	45	6,500	10.63	10.92	11.22	11.55	Free
08-00537-02503		15	3.5	5	4.8	15°	6	27.7	45	9,000	15.8	16.27	16.77	Free	Free
08-00537-02504		20	3.5	5	4.8	15°	6	27.7	50	9,100	20.97	21.62	Free	Free	Free
08-00537-03000	R3	10	6	6	5.7	—	6	34.4	45	7,000	Free	Free	Free	Free	Free
08-00537-03001		15	6	6	5.7	—	6	29.4	45	7,000	Free	Free	Free	Free	Free
08-00537-03002		20	6	6	5.7	—	6	29.4	50	7,000	Free	Free	Free	Free	Free
08-00537-03003		25	6	6	5.7	—	6	29.4	55	7,000	Free	Free	Free	Free	Free
08-00537-03004		30	6	6	5.7	—	6	29.4	60	7,200	Free	Free	Free	Free	Free

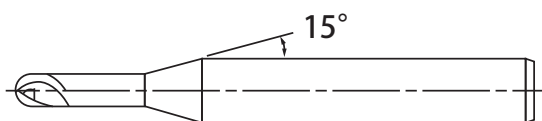
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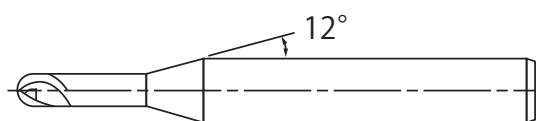
※(γ)为参考值
※(γ) is reference value.

● MRBSH230SF 颈角(γ) 为 15°。我公司其他产品也有颈角(γ) 12° 的产品。

● Neck taper angle (γ) of MRBSH230SF is 15°. Our other products have a neck taper angle (γ) of 12°.



MRBSH230SF



我公司其他产品也有颈角(γ) 12° 的产品

Our other products have a neck taper angle (γ) of 12°