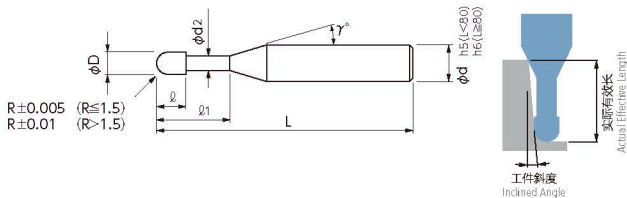


MRB230

无限涂层 长颈球头铣刀（深沟加工用）

MUGEN-COATING 2-Flute Long Neck Ball End Mill



- 适用于深沟加工的长颈避空型。
- 可用于深沟精密3D低速~高速加工。
- 共有282种规格！
- It is very suitable for cutting on narrow and deep rib by long neck end mill.
- It is possible to have deep and precision three-dimensional cutting in the low to high speed range.
- Total 282 sizes!



硬质合金
MG

无限
涂层

2

螺旋角
30

~55
HRC

加工材料 Work Material

碳素钢 Carbon Steels	合金钢・工具钢 Alloy Steels・Tool Steels	预硬钢・调质钢 Prehardened Steels	淬火钢 Hardened Steels		不锈钢 Stainless Steels	钛合金 Titanium Alloy	铝合金 Aluminum	铜合金 Copper	树脂 Plastic
			~55HRC	55HRC~					
◎	◎	◎	◎	◎	◎	○	◎	◎	◎

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

产品代码 Code No.	(R)球头半径 Radius	(L1)有效长 Effective 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.	(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°
08-00520-20051	R0.05	0.3	0.07	0.1	0.085	12°	4	45	10,200	0.34	0.36	0.37	0.39	0.42
08-00520-20052		0.5	0.07	0.1	0.085	12°	4	45	11,000	0.55	0.57	0.60	0.63	0.69
08-00520-40075	R0.075	0.3	0.1	0.15	0.13	12°	4	45	11,800	0.36	0.37	0.39	0.40	0.44
08-00520-40076		0.5	0.1	0.15	0.13	12°	4	45	12,500	0.57	0.59	0.61	0.64	0.70
08-00520-40077	R0.1	1	0.1	0.15	0.13	12°	4	45	13,000	1.09	1.13	1.18	1.24	1.37
08-00520-00101		0.5	0.15	0.2	0.18	12°	4	45	7,100	0.57	0.59	0.62	0.64	0.70
08-00521-00101	R0.15	0.5	0.15	0.2	0.18	12°	6	50	9,900	0.57	0.59	0.62	0.64	0.70
08-00520-10101		0.75	0.15	0.2	0.18	12°	4	45	7,100	0.83	0.87	0.90	0.94	1.04
08-00520-00102	R0.1	1	0.15	0.2	0.18	12°	4	45	7,100	1.09	1.14	1.19	1.24	1.37
08-00521-00102		1	0.15	0.2	0.18	12°	6	50	9,900	1.09	1.14	1.19	1.24	1.37
08-00520-10102	R0.15	1.25	0.15	0.2	0.18	12°	4	45	7,700	1.36	1.41	1.47	1.54	1.70
08-00520-00103		1.5	0.15	0.2	0.18	12°	4	45	7,700	1.62	1.68	1.76	1.84	2.03
08-00521-00103	R0.1	1.5	0.15	0.2	0.18	12°	6	50	10,700	1.62	1.68	1.76	1.84	2.03
08-00520-10103		1.75	0.15	0.2	0.18	12°	4	45	8,500	1.88	1.96	2.04	2.14	2.36
08-00520-00104	R0.15	2	0.15	0.2	0.18	12°	4	45	8,500	2.14	2.23	2.33	2.44	2.70
08-00521-00104		2	0.15	0.2	0.18	12°	6	50	11,600	2.14	2.23	2.33	2.44	2.70
08-00520-00105	R0.1	2.5	0.15	0.2	0.18	12°	4	45	9,300	2.66	2.77	2.90	3.04	3.36
08-00520-00106		3	0.15	0.2	0.18	12°	4	45	10,000	3.18	3.32	3.47	3.64	4.02
08-00520-40151	R0.15	0.5	0.2	0.3	0.28	12°	4	45	7,000	0.56	0.58	0.60	0.63	0.68
08-00520-10151		0.6	0.2	0.3	0.28	12°	4	45	7,000	0.68	0.70	0.73	0.75	0.82
08-00520-40152	R0.1	0.75	0.2	0.3	0.28	12°	4	45	7,000	0.82	0.86	0.89	0.93	1.01
08-00520-00151		1	0.2	0.3	0.28	12°	4	45	7,000	1.09	1.14	1.18	1.23	1.35
08-00521-00151	R0.15	1	0.2	0.3	0.28	12°	6	50	9,500	1.09	1.14	1.18	1.23	1.35
08-00520-30153		1.25	0.2	0.3	0.28	12°	4	45	7,500	1.34	1.39	1.45	1.52	1.67
08-00520-10152	R0.1	1.5	0.2	0.3	0.28	12°	4	45	7,500	1.61	1.68	1.75	1.83	2.02
08-00521-00152		1.5	0.2	0.3	0.28	12°	6	50	10,400	1.61	1.68	1.75	1.83	2.02
08-00520-30154	R0.15	1.75	0.2	0.3	0.28	12°	4	45	7,500	1.86	1.94	2.02	2.12	2.33
08-00520-00152		2	0.2	0.3	0.28	12°	4	45	7,500	2.14	2.22	2.32	2.43	2.68
08-00521-00153	R0.1	2	0.2	0.3	0.28	12°	6	50	10,400	2.14	2.22	2.32	2.43	2.68
08-00520-30155		2.25	0.2	0.3	0.28	12°	4	45	7,700	2.38	2.48	2.59	2.71	3.00
08-00520-10153	R0.15	2.5	0.2	0.3	0.28	12°	4	45	7,700	2.66	2.77	2.89	3.03	3.34
08-00520-30156		2.75	0.2	0.3	0.28	12°	4	45	7,700	2.91	3.03	3.16	3.31	3.66

订购方法

请指定MRB230 球头半径(R)×有效长(L1)×柄径(d)。
When you order, indicate MRB230 (R)×(L1)×(d).

※(γ)为参考值。
※(γ) is reference value.

● 切削参数表记载于第E-042页

● Recommended Milling Conditions are shown on page E-042.

CBN 铣刀
Cubic Boron Nitride

钻石 铣刀
Diamond

平底 铣刀
Square

长颈 平底
Long Neck Square

球头 铣刀
Ball

长颈 球头
Long Neck Ball

圆鼻 铣刀
Radius

长颈 圆鼻
Long Neck Radius

锥形 铣刀
Taper Ball

锥形 球头
Taper Ball

锥形 圆鼻
Taper Radius

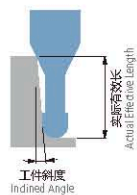
钻头
Drilling

螺纹 铣刀
Thread milling

倒角 刀
Chamfering

MRB230

无限涂层 长颈球头铣刀 (深沟加工用)
MUGEN-COATING 2-Flute Long Neck Ball End Mill



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

产品代码 Code No.	(R)球头半径 Radius	(L1)有效长 Effective 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.	(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°
08-00520-10154	R0.15	3	0.2	0.3	0.28	12°	4	45	7,700	3.18	3.31	3.46	3.63	4.01
08-00520-30157		3.5	0.2	0.3	0.28	12°	4	45	7,700	3.69	3.85	4.02	4.21	4.65
08-00520-20151		4	0.2	0.3	0.28	12°	4	45	8,000	4.21	4.39	4.59	4.81	5.32
08-00520-30158		4.5	0.2	0.3	0.28	12°	4	45	8,000	4.73	4.94	5.16	5.41	5.98
08-00520-20152		5	0.2	0.3	0.28	12°	4	45	9,000	5.25	5.48	5.73	6.01	6.65
08-00520-40201	R0.2	0.5	0.3	0.4	0.37	12°	4	45	4,800	0.59	0.60	0.62	0.64	0.69
08-00520-10201		0.75	0.3	0.4	0.37	12°	4	45	4,800	0.85	0.88	0.92	0.95	1.04
08-00520-00201		1	0.3	0.4	0.37	12°	4	45	4,800	1.12	1.16	1.20	1.25	1.37
08-00521-00201		1	0.3	0.4	0.37	12°	6	50	7,000	1.12	1.16	1.20	1.25	1.37
08-00520-00204		1.5	0.3	0.4	0.37	12°	4	45	4,900	1.64	1.70	1.77	1.85	2.03
08-00521-00202		1.5	0.3	0.4	0.37	12°	6	50	7,100	1.64	1.70	1.77	1.85	2.03
08-00520-00202		2	0.3	0.4	0.37	12°	4	45	5,000	2.16	2.25	2.34	2.45	2.70
08-00521-00203		2	0.3	0.4	0.37	12°	6	50	7,300	2.16	2.25	2.34	2.45	2.70
08-00520-00205		2.5	0.3	0.4	0.37	12°	4	45	5,200	2.68	2.79	2.91	3.05	3.36
08-00521-00204		2.5	0.3	0.4	0.37	12°	6	50	7,500	2.68	2.79	2.91	3.05	3.36
08-00520-00203		3	0.3	0.4	0.37	12°	4	45	5,500	3.20	3.34	3.48	3.64	4.02
08-00521-00205		3	0.3	0.4	0.37	12°	6	50	8,000	3.20	3.34	3.48	3.64	4.02
08-00520-10202		3.5	0.3	0.4	0.37	12°	4	45	6,000	3.72	3.88	4.05	4.24	4.69
08-00520-00206		4	0.3	0.4	0.37	12°	4	45	6,000	4.24	4.42	4.62	4.84	5.35
08-00520-10203		4.5	0.3	0.4	0.37	12°	4	45	6,300	4.76	4.97	5.19	5.44	6.01
08-00520-10207	R0.25	5	0.3	0.4	0.37	12°	4	45	6,300	5.29	5.51	5.76	6.04	6.68
08-00520-10204		5.5	0.3	0.4	0.37	12°	4	45	7,300	5.81	6.06	6.33	6.64	7.34
08-00520-10205		6	0.3	0.4	0.37	12°	4	45	7,300	6.33	6.60	6.90	7.23	8.00
08-00520-30251		1	0.35	0.5	0.46	12°	4	45	4,800	1.13	1.16	1.21	1.26	1.37
08-00520-10251		1.5	0.35	0.5	0.46	12°	4	45	4,800	1.65	1.71	1.78	1.85	2.03
08-00521-00251		1.5	0.35	0.5	0.46	12°	6	50	7,000	1.65	1.71	1.78	1.85	2.03
08-00520-00251		2	0.35	0.5	0.46	12°	4	45	4,800	2.17	2.25	2.35	2.45	2.69
08-00521-00252		2	0.35	0.5	0.46	12°	6	50	7,000	2.17	2.25	2.35	2.45	2.69
08-00520-10252		2.5	0.35	0.5	0.46	12°	4	45	4,800	2.69	2.80	2.92	3.05	3.36
08-00520-10253		3	0.35	0.5	0.46	12°	4	45	4,800	3.21	3.34	3.49	3.65	4.02
08-00520-10254		3.5	0.35	0.5	0.46	12°	4	45	4,800	3.73	3.89	4.06	4.25	4.69
08-00520-00252		4	0.35	0.5	0.46	12°	4	45	4,800	4.25	4.43	4.63	4.85	5.35
08-00521-00253		4	0.35	0.5	0.46	12°	6	50	7,000	4.25	4.43	4.63	4.85	5.35
08-00520-10255		4.5	0.35	0.5	0.46	12°	4	45	4,900	4.78	4.98	5.20	5.44	6.01
08-00520-00255		5	0.35	0.5	0.46	12°	4	45	4,900	5.30	5.52	5.77	6.04	6.68
08-00521-00254		5	0.35	0.5	0.46	12°	6	50	7,100	5.30	5.52	5.77	6.04	6.68
08-00520-10256	R0.3	5.5	0.35	0.5	0.46	12°	4	45	5,000	5.82	6.07	6.34	6.64	7.34
08-00520-00253		6	0.35	0.5	0.46	12°	4	45	5,000	6.34	6.61	6.91	7.24	8.00
08-00521-00255		6	0.35	0.5	0.46	12°	6	50	7,300	6.34	6.61	6.91	7.24	8.00
08-00520-10257		7	0.35	0.5	0.46	12°	4	45	6,000	7.38	7.70	8.05	8.44	9.33
08-00520-00254		8	0.35	0.5	0.46	12°	4	45	6,000	8.42	8.79	9.19	9.63	10.66
08-00521-00256		8	0.35	0.5	0.46	12°	6	50	8,400	8.42	8.79	9.19	9.63	10.66
08-00521-30251		9	0.35	0.5	0.46	12°	6	55	7,000	9.47	9.88	10.33	10.83	11.99
08-00521-30252		10	0.35	0.5	0.46	12°	6	55	7,700	10.51	10.97	11.47	12.03	13.31

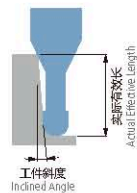
订购方法

请指定MRB230 球头半径(R)×有效长(L1)×柄径(d)。
When you order, indicate MRB230 (R)×(L1)×(d).

※(γ)为参考值。
※(γ) is reference value.

●切削参数表记载于第E-042页

●Recommended Milling Conditions are shown on page E-042.

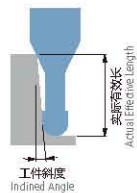


产品代码 Code No.	(R)球头半径 Radius	(L)有效长 Effective Length	(L)刃长 Length of Cut	(D)刃径 Dia.	(d2)颈径 Neck Dia.	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price	相对于工件斜度的有效长 Actual effective length depending on inclined angle of workpiece:				
										30°	1°	1° 30'	2°	3°
08-00520-40301	R0.3	1	0.45	0.6	0.56	12°	4	45	4,100	1.13	1.17	1.21	1.25	1.36
08-00520-10301		1.5	0.45	0.6	0.56	12°	4	45	3,700	1.64	1.71	1.77	1.84	2.02
08-00520-00301		2	0.45	0.6	0.56	12°	4	45	3,700	2.17	2.25	2.34	2.44	2.68
08-00521-00301		2	0.45	0.6	0.56	12°	6	50	5,600	2.17	2.25	2.34	2.44	2.68
08-00520-10302		2.5	0.45	0.6	0.56	12°	4	45	3,800	2.69	2.79	2.91	3.04	3.34
08-00520-00305		3	0.45	0.6	0.56	12°	4	45	3,800	3.21	3.34	3.48	3.64	4.01
08-00521-00302		3	0.45	0.6	0.56	12°	6	50	5,700	3.21	3.34	3.48	3.64	4.01
08-00520-10303		3.5	0.45	0.6	0.56	12°	4	45	3,900	3.73	3.88	4.05	4.24	4.67
08-00520-00302		4	0.45	0.6	0.56	12°	4	45	3,900	4.25	4.43	4.62	4.84	5.33
08-00521-00303		4	0.45	0.6	0.56	12°	6	50	5,900	4.25	4.43	4.62	4.84	5.33
08-00520-10304		4.5	0.45	0.6	0.56	12°	4	45	3,900	4.77	4.97	5.19	5.43	6.00
08-00520-00306		5	0.45	0.6	0.56	12°	4	45	3,900	5.23	5.40	5.59	5.79	6.23
08-00520-10305		5.5	0.45	0.6	0.56	12°	4	45	3,900	5.82	6.06	6.33	6.63	7.32
08-00520-00303		6	0.45	0.6	0.56	12°	4	45	3,900	6.34	6.61	6.90	7.23	7.99
08-00521-00304		6	0.45	0.6	0.56	12°	6	50	5,900	6.34	6.61	6.90	7.23	7.99
08-00520-10306		6.5	0.45	0.6	0.56	12°	4	45	4,400	6.86	7.15	7.47	7.83	8.65
08-00520-00307		7	0.45	0.6	0.56	12°	4	45	4,400	7.38	7.70	8.04	8.43	9.31
08-00520-10307		7.5	0.45	0.6	0.56	12°	4	45	5,200	7.90	8.24	8.61	9.02	9.98
08-00520-00304		8	0.45	0.6	0.56	12°	4	45	5,200	8.42	8.79	9.18	9.62	10.64
08-00521-00305		8	0.45	0.6	0.56	12°	6	50	7,500	8.42	8.79	9.18	9.62	10.64
08-00520-10308		8.5	0.45	0.6	0.56	12°	4	45	5,500	8.94	9.33	9.76	10.22	11.31
08-00520-10309		9	0.45	0.6	0.56	12°	4	45	5,500	9.47	9.88	10.33	10.82	11.97
08-00520-10310	R0.35	9.5	0.45	0.6	0.56	12°	4	45	5,500	9.99	10.42	10.90	11.42	12.63
08-00520-10311		10	0.45	0.6	0.56	12°	4	45	5,300	10.51	10.97	11.47	12.02	13.30
08-00521-00306		10	0.45	0.6	0.56	12°	6	50	8,000	10.40	10.75	11.13	11.54	12.45
08-00520-10312		11	0.45	0.6	0.56	12°	4	45	6,000	11.55	12.06	12.61	13.21	14.62
08-00520-10313	R0.4	12	0.45	0.6	0.56	12°	4	45	6,000	12.59	13.14	13.75	14.41	15.95
08-00520-40351		2	0.5	0.7	0.66	12°	4	45	3,700	2.17	2.25	2.34	2.44	2.67
08-00520-40352		4	0.5	0.7	0.66	12°	4	45	3,900	4.25	4.43	4.62	4.84	5.33
08-00520-40353		6	0.5	0.7	0.66	12°	4	45	3,900	6.34	6.61	6.91	7.23	8.00
08-00520-40354	R0.4	8	0.5	0.7	0.66	12°	4	45	3,900	8.43	8.79	9.19	9.63	10.66
08-00520-00400		2	0.6	0.8	0.76	12°	4	45	3,700	2.16	2.24	2.33	2.42	2.65
08-00521-00401		2	0.6	0.8	0.76	12°	6	50	5,600	2.16	2.24	2.33	2.42	2.65
08-00520-10401		3	0.6	0.8	0.76	12°	4	45	3,900	3.20	3.33	3.47	3.62	3.97
08-00521-00402	R0.4	3	0.6	0.8	0.76	12°	6	50	5,900	3.20	3.33	3.47	3.62	3.97
08-00520-00401		4	0.6	0.8	0.76	12°	4	45	3,900	4.25	4.42	4.61	4.82	5.30
08-00521-00403		4	0.6	0.8	0.76	12°	6	50	5,900	4.25	4.42	4.61	4.82	5.30
08-00520-00405		5	0.6	0.8	0.76	12°	4	45	3,900	5.29	5.51	5.75	6.01	6.63
08-00520-00402		6	0.6	0.8	0.76	12°	4	45	3,900	6.33	6.60	6.89	7.21	7.96
08-00521-00404		6	0.6	0.8	0.76	12°	6	50	5,900	6.33	6.60	6.89	7.21	7.96
08-00520-00406		7	0.6	0.8	0.76	12°	4	45	3,900	7.29	7.53	7.79	8.07	8.70
08-00520-00403		8	0.6	0.8	0.76	12°	4	45	3,900	8.42	8.78	9.17	9.60	10.61
08-00521-00405	R0.4	8	0.6	0.8	0.76	12°	6	50	5,900	8.42	8.78	9.17	9.60	10.61
08-00520-30401		9	0.6	0.8	0.76	12°	4	45	5,200	9.46	9.87	10.31	10.80	11.94

CBN铣刀
Cubic Boron Nitride钻石铣刀
Diamond平底铣刀
Square长颈平底
铣刀
Long Neck Square球头铣刀
Ball长颈球头
铣刀
Long Neck Ball圆鼻铣刀
Radius长颈圆鼻
铣刀
Long Neck Radius锥形铣刀
Taper锥形球头
铣刀
Taper Ball锥形圆鼻
铣刀
Taper Radius钻头
Drilling螺纹铣刀
Thread milling倒角刀
Chamfering

MRB230

无限涂层 长颈球头铣刀 (深沟加工用)
MUGEN-COATING 2-Flute Long Neck Ball End Mill



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

产品代码 Code No.	(R)球头半径 Radius	(L1)有效长 Effective 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.	(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°
08-00520-00404	R0.4	10	0.6	0.8	0.76	12°	4	45	5,200	10.50	10.96	11.45	12.00	13.26
08-00521-00406		10	0.6	0.8	0.76	12°	6	50	7,500	10.40	10.74	11.12	11.52	12.42
08-00520-20401		12	0.6	0.8	0.76	12°	4	45	6,400	12.59	13.14	13.73	14.39	15.92
08-00520-40451	R0.45	2	0.65	0.9	0.86	12°	4	45	3,700	2.16	2.24	2.33	2.42	2.64
08-00520-40452		4	0.65	0.9	0.86	12°	4	45	3,900	4.25	4.42	4.61	4.82	5.30
08-00520-40453		6	0.65	0.9	0.86	12°	4	45	3,900	6.34	6.60	6.89	7.21	7.96
08-00520-40454	R0.45	8	0.65	0.9	0.86	12°	4	45	3,900	8.42	8.78	9.17	9.61	10.62
08-00520-40501		2	0.75	1	0.95	12°	4	45	3,100	2.19	2.26	2.35	2.44	2.65
08-00520-40502		2.5	0.75	1	0.95	12°	4	45	3,100	2.71	2.81	2.92	3.04	3.32
08-00520-00505	R0.5	3	0.75	1	0.95	12°	4	45	3,100	3.22	3.35	3.48	3.63	3.97
08-00521-00501		3	0.75	1	0.95	12°	6	50	4,900	3.22	3.35	3.48	3.63	3.97
08-00520-00506		4	0.75	1	0.95	12°	4	45	3,500	4.27	4.44	4.62	4.83	5.30
08-00521-00502	R0.5	4	0.75	1	0.95	12°	6	50	5,400	4.27	4.44	4.62	4.83	5.30
08-00520-00510		5	0.75	1	0.95	12°	4	45	3,500	5.24	5.41	5.59	5.78	6.21
08-00521-00503		5	0.75	1	0.95	12°	6	50	5,400	5.31	5.53	5.76	6.02	6.63
08-00520-00501	R0.5	6	0.75	1	0.95	12°	4	45	3,800	6.35	6.62	6.90	7.22	7.96
08-00521-00504		6	0.75	1	0.95	12°	6	50	5,700	6.35	6.62	6.90	7.22	7.96
08-00520-00511		7	0.75	1	0.95	12°	4	45	3,800	7.40	7.71	8.04	8.42	9.28
08-00520-00502	R0.5	8	0.75	1	0.95	12°	4	45	3,800	8.44	8.79	9.18	9.61	10.61
08-00521-00505		8	0.75	1	0.95	12°	6	50	5,700	8.44	8.79	9.18	9.61	10.61
08-00520-00512		9	0.75	1	0.95	12°	4	45	3,800	9.48	9.88	10.32	10.81	11.94
08-00520-00507	R0.5	10	0.75	1	0.95	12°	4	45	3,800	10.52	10.97	11.46	12.01	13.26
08-00521-00506		10	0.75	1	0.95	12°	6	50	5,700	10.41	10.76	11.13	11.53	12.42
08-00520-00504		12	0.75	1	0.95	12°	4	45	3,800	12.61	13.15	13.75	14.40	15.92
08-00521-00507	R0.5	12	0.75	1	0.95	12°	6	50	5,700	12.61	13.15	13.75	14.40	15.92
08-00520-40503		13	0.75	1	0.95	12°	4	45	4,400	13.66	14.25	14.90	15.62	17.29
08-00520-00513		14	0.75	1	0.95	12°	4	50	4,400	14.70	15.33	16.03	16.79	18.57
08-00520-00508	R0.5	16	0.75	1	0.95	12°	4	50	5,200	16.78	17.51	18.31	19.18	21.23
08-00521-00508		16	0.75	1	0.95	12°	6	60	7,500	16.78	17.51	18.31	19.18	21.23
08-00520-00514		18	0.75	1	0.95	12°	4	55	5,200	18.87	19.69	20.59	21.58	23.88
08-00520-00509	R0.5	20	0.75	1	0.95	12°	4	55	6,300	20.95	21.87	22.87	23.97	26.54
08-00521-00509		20	0.75	1	0.95	12°	6	60	8,900	20.95	21.87	22.87	23.97	26.54
08-00521-00510		22	0.75	1	0.95	12°	6	60	9,300	22.82	23.59	24.43	25.33	27.34
08-00520-40601	R0.6	2.4	0.9	1.2	1.15	12°	4	45	4,700	2.60	2.69	2.79	2.90	3.15
08-00520-20601		4	0.9	1.2	1.15	12°	4	45	4,700	4.26	4.43	4.61	4.81	5.27
08-00520-00600		6	0.9	1.2	1.15	12°	4	45	5,100	6.35	6.61	6.89	7.20	7.92
08-00521-00601	R0.6	6	0.9	1.2	1.15	12°	6	50	7,250	6.35	6.61	6.89	7.20	7.92
08-00520-00601		8	0.9	1.2	1.15	12°	4	45	5,100	8.43	8.79	9.17	9.59	10.58
08-00521-00602		8	0.9	1.2	1.15	12°	6	50	7,250	8.43	8.79	9.17	9.59	10.58
08-00520-00602	R0.6	10	0.9	1.2	1.15	12°	4	45	5,100	10.52	10.96	11.45	11.99	13.23
08-00521-00603		10	0.9	1.2	1.15	12°	6	50	7,250	10.41	10.75	11.12	11.51	12.40
08-00520-00603		12	0.9	1.2	1.15	12°	4	45	5,100	12.48	12.89	13.33	13.81	14.89
08-00521-00604	R0.6	12	0.9	1.2	1.15	12°	6	50	7,250	12.48	12.89	13.33	13.81	14.89
08-00520-10601		14	0.9	1.2	1.15	12°	4	50	5,500	14.69	15.32	16.01	16.77	18.54

订购方法

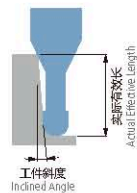
请指定MRB230 球头半径(R)×有效长(L1)×柄径(d)。
When you order, indicate MRB230 (R)×(L1)×(d).

※(γ)为参考值。

※(γ) is reference value.

●切削参数表记载于第E-042页

●Recommended Milling Conditions are shown on page E-042.

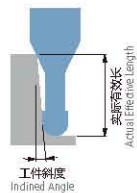


产品代码 Code No.	(R)球头半径 Radius	(L)有效长 Effective Length	(L)刃长 Length of Cut	(D)刃径 Dia.	(d2)颈径 Neck Dia.	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price	相对于工件斜度的有效长 Actual effective length depending on inclined angle of workpiece				
										30°	1°	1° 30'	2°	3°
08-00520-10602	R0.6	16	0.9	1.2	1.15	12°	4	50	6,000	16.78	17.50	18.29	19.17	21.20
08-00521-00605		16	0.9	1.2	1.15	12°	6	60	8,250	16.78	17.50	18.29	19.17	21.20
08-00520-20602		18	0.9	1.2	1.15	12°	4	55	6,500	18.86	19.68	20.58	21.56	23.85
08-00520-30601		20	0.9	1.2	1.15	12°	4	55	6,500	20.95	21.86	22.86	23.95	26.50
08-00520-20603		24	0.9	1.2	1.15	12°	4	60	8,500	25.12	26.22	27.42	28.74	Free
08-00520-30701	R0.7	8	1	1.4	1.35	12°	4	45	4,400	8.43	8.78	9.16	9.57	10.55
08-00520-30702		12	1	1.4	1.35	12°	4	50	4,400	12.60	13.13	13.72	14.36	15.85
08-00520-30703		16	1	1.4	1.35	12°	4	50	4,400	16.77	17.49	18.28	19.15	21.16
08-00520-30751	R0.75	3	1.1	1.5	1.45	12°	4	45	3,600	3.21	3.33	3.45	3.58	3.89
08-00520-20751		4	1.1	1.5	1.45	12°	4	45	3,600	4.26	4.41	4.59	4.78	5.22
08-00520-20752		6	1.1	1.5	1.45	12°	4	45	3,600	6.34	6.59	6.87	7.17	7.88
08-00520-00751		8	1.1	1.5	1.45	12°	4	45	3,800	8.43	8.77	9.15	9.56	10.53
08-00521-00751		8	1.1	1.5	1.45	12°	6	50	5,800	8.43	8.77	9.15	9.56	10.53
08-00520-00752		10	1.1	1.5	1.45	12°	4	45	4,100	10.51	10.95	11.43	11.96	13.18
08-00520-00753		12	1.1	1.5	1.45	12°	4	45	4,400	12.60	13.13	13.71	14.35	15.84
08-00521-00752		12	1.1	1.5	1.45	12°	6	50	6,600	12.60	13.13	13.71	14.35	15.84
08-00520-00754		14	1.1	1.5	1.45	12°	4	50	4,400	14.69	15.31	15.99	16.74	18.49
08-00520-00755		16	1.1	1.5	1.45	12°	4	50	4,400	16.77	17.49	18.27	19.14	21.15
08-00521-00755		16	1.1	1.5	1.45	12°	6	60	6,600	16.77	17.49	18.27	19.14	21.15
08-00520-00756		18	1.1	1.5	1.45	12°	4	55	4,400	18.86	19.67	20.55	21.53	23.80
08-00520-00757		20	1.1	1.5	1.45	12°	4	55	4,400	20.94	21.85	22.84	23.92	Free
08-00521-00757		20	1.1	1.5	1.45	12°	6	60	6,600	20.94	21.85	22.84	23.92	26.46
08-00520-10751		22	1.1	1.5	1.45	12°	4	55	4,400	23.03	24.02	25.12	26.32	Free
08-00520-20753		30	1.1	1.5	1.45	12°	4	70	7,200	31.37	32.74	34.24	35.89	Free
08-00520-20801	R0.8	4	1.2	1.6	1.55	12°	4	45	5,000	4.25	4.41	4.58	4.77	5.21
08-00520-00801		8	1.2	1.6	1.55	12°	4	45	5,100	8.43	8.77	9.14	9.55	10.51
08-00520-00803		12	1.2	1.6	1.55	12°	4	45	5,100	12.60	13.13	13.70	14.34	15.82
08-00520-00805		16	1.2	1.6	1.55	12°	4	50	5,100	16.77	17.48	18.27	19.13	21.13
08-00520-00807		20	1.2	1.6	1.55	12°	4	55	5,100	20.94	21.84	22.83	23.91	Free
08-00520-30901	R0.9	8	1.3	1.8	1.75	12°	4	45	4,400	8.42	8.76	9.13	9.53	10.48
08-00520-30902		12	1.3	1.8	1.75	12°	4	45	4,400	12.59	13.12	13.69	14.32	15.79
08-00520-30903		16	1.3	1.8	1.75	12°	4	50	4,400	16.76	17.47	18.25	19.11	21.10
08-00520-30904		20	1.3	1.8	1.75	12°	4	55	4,400	20.94	21.83	22.81	23.89	Free
08-00520-31001	R1	3	1.5	2	1.94	12°	4	45	3,100	3.23	3.33	3.44	3.56	3.85
08-00520-01000		4	1.5	2	1.94	12°	4	45	3,100	4.27	4.42	4.58	4.76	5.17
08-00521-01000		4	1.5	2	1.94	12°	6	50	4,900	4.27	4.42	4.58	4.76	5.17
08-00520-01001		6	1.5	2	1.94	12°	4	45	3,500	6.36	6.60	6.86	7.15	7.83
08-00521-01001		6	1.5	2	1.94	12°	6	50	5,300	6.36	6.60	6.86	7.15	7.83
08-00520-01002		8	1.5	2	1.94	12°	4	45	3,800	8.44	8.78	9.14	9.54	10.48
08-00521-01002		8	1.5	2	1.94	12°	6	50	5,700	8.44	8.78	9.14	9.54	10.48
08-00520-01003		10	1.5	2	1.94	12°	4	45	3,800	10.53	10.95	11.42	11.94	13.14
08-00521-01003		10	1.5	2	1.94	12°	6	50	5,700	10.53	10.95	11.42	11.94	13.14
08-00520-01004		12	1.5	2	1.94	12°	4	45	3,800	12.61	13.13	13.70	14.33	15.79
08-00521-01004		12	1.5	2	1.94	12°	6	50	5,700	12.61	13.13	13.70	14.33	15.79

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铣刀
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Ball长颈球头
铣刀
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铣刀
Taper Radius钻头
Drilling螺纹铣刀
Thread milling倒角刀
Chamfering

MRB230

无限涂层 长颈球头铣刀 (深沟加工用)
MUGEN-COATING 2-Flute Long Neck Ball End Mill



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

产品代码 Code No.	(R)球头半径 Radius	(L1)有效长 Effective 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.	(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°
08-00520-41001	R1	13	1.5	2	1.94	12°	4	45	3,800	13.66	14.23	14.86	15.55	17.16
08-00520-01005		14	1.5	2	1.94	12°	4	50	3,800	14.70	15.31	15.98	16.72	18.45
08-00520-01006		16	1.5	2	1.94	12°	4	50	3,800	16.78	17.49	18.27	19.12	Free
08-00521-01005		16	1.5	2	1.94	12°	6	60	5,700	16.78	17.49	18.27	19.12	21.10
08-00520-01007		18	1.5	2	1.94	12°	4	55	3,800	18.87	19.67	20.55	21.51	Free
08-00520-01008		20	1.5	2	1.94	12°	4	55	3,800	20.96	21.85	22.83	23.90	Free
08-00521-01008		20	1.5	2	1.94	12°	6	60	5,700	20.96	21.85	22.83	23.90	26.41
08-00520-01009		22	1.5	2	1.94	12°	4	60	5,200	23.04	24.03	25.11	26.30	Free
08-00520-01010		25	1.5	2	1.94	12°	4	65	5,300	26.17	27.30	28.53	29.89	Free
08-00521-01010		25	1.5	2	1.94	12°	6	80	7,500	26.17	27.30	28.53	29.89	33.04
08-00520-01011		30	1.5	2	1.94	12°	4	70	6,000	31.38	32.74	34.23	Free	Free
08-00521-01012		30	1.5	2	1.94	12°	6	80	8,500	31.38	32.74	34.23	35.87	Free
08-00520-11001		35	1.5	2	1.94	12°	4	70	8,200	36.60	38.19	39.93	Free	Free
08-00521-01014		35	1.5	2	1.94	12°	6	80	11,100	36.60	38.19	39.93	41.85	Free
08-00520-31002		40	1.5	2	1.94	12°	4	90	8,200	41.81	43.64	Free	Free	Free
08-00521-01015		40	1.5	2	1.94	12°	6	90	11,100	41.81	43.64	45.64	47.83	Free
08-00520-21251	R1.25	6	2.3	2.5	2.4	12°	4	45	4,100	6.44	6.68	6.93	7.21	7.87
08-00520-11251		10	2.3	2.5	2.4	12°	4	45	4,300	10.62	11.04	11.49	12.00	13.18
08-00520-11252		15	2.3	2.5	2.4	12°	4	50	5,100	15.83	16.48	17.20	17.98	Free
08-00520-11253		20	2.3	2.5	2.4	12°	4	55	6,000	21.04	21.93	22.90	Free	Free
08-00520-11254		25	2.3	2.5	2.4	12°	4	65	6,400	26.26	27.38	28.60	Free	Free
08-00520-11255		30	2.3	2.5	2.4	12°	4	70	6,400	31.47	32.82	Free	Free	Free
08-00520-21252		35	2.3	2.5	2.4	12°	4	70	7,400	36.69	38.27	Free	Free	Free
08-00520-31502	R1.5	6	2.5	3	2.85	12°	4	60	3,500	6.56	6.78	7.03	7.31	7.95
08-00520-31503		6	2.5	3	2.85	12°	6	60	3,800	6.56	6.78	7.03	7.31	7.95
08-00520-01500		8	2.5	3	2.85	12°	6	60	3,800	8.64	8.96	9.31	9.70	10.60
08-00520-01501		10	2.5	3	2.85	12°	6	60	4,400	10.73	11.14	11.59	12.09	13.26
08-00520-31504		12	2.5	3	2.85	12°	6	60	4,600	12.81	13.32	13.88	14.49	15.91
08-00520-31505		14	2.5	3	2.85	12°	6	60	5,100	14.90	15.50	16.16	16.88	18.57
08-00520-01503		15	2.5	3	2.85	12°	6	60	5,000	15.94	16.59	17.30	18.08	19.89
08-00520-31506		16	2.5	3	2.85	12°	6	60	5,100	16.98	17.68	18.44	19.27	21.22
08-00520-01505		20	2.5	3	2.85	12°	6	65	4,900	21.16	22.04	23.00	24.06	26.53
08-00520-01506		25	2.5	3	2.85	12°	6	65	4,900	26.37	27.48	28.70	30.04	Free
08-00520-01507		30	2.5	3	2.85	12°	6	70	5,600	31.58	32.93	34.40	36.03	Free
08-00520-01508		35	2.5	3	2.85	12°	6	80	7,100	36.80	38.38	40.11	42.01	Free
08-00520-11501		40	2.5	3	2.85	12°	6	90	8,800	42.01	43.83	45.81	Free	Free
08-00520-11751	R1.75	10	2.8	3.5	3.35	12°	6	60	5,600	10.72	11.12	11.56	12.05	13.18
08-00520-11752		15	2.8	3.5	3.35	12°	6	60	5,600	15.93	16.57	17.26	18.03	19.81
08-00520-11753		20	2.8	3.5	3.35	12°	6	65	6,000	21.14	22.01	22.96	24.01	Free
08-00520-11754		25	2.8	3.5	3.35	12°	6	65	6,000	26.36	27.46	28.67	29.99	Free
08-00520-11755		30	2.8	3.5	3.35	12°	6	70	6,400	31.57	32.91	34.37	35.98	Free
08-00520-11756		35	2.8	3.5	3.35	12°	6	80	7,700	36.79	38.36	40.07	Free	Free
08-00520-11757		40	2.8	3.5	3.35	12°	6	90	8,500	42.00	43.80	45.77	Free	Free
08-00520-11758		45	2.8	3.5	3.35	12°	6	90	9,300	47.22	49.25	Free	Free	Free

订购方法

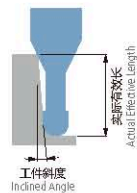
请指定MRB230 球头半径(R)×有效长(L1)×柄径(d)。
When you order, indicate MRB230 (R)×(L1)×(d).

※(γ)为参考值。

※(γ) is reference value.

●切削参数表记载于第E-042页

●Recommended Milling Conditions are shown on page E-042.



产品代码 Code No.	(R)球头半径 Radius	(L1)有效长 Effective 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.	(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°
08-00520-02000	R2	10	3	4	3.8	12°	6	65	3,900	10.83	11.22	11.66	12.14	13.25
08-00520-32001		12	3	4	3.8	12°	6	65	5,100	12.91	13.40	13.94	14.53	15.91
08-00520-32002		14	3	4	3.8	12°	6	65	5,100	15.00	15.58	16.22	16.92	18.56
08-00520-02001		15	3	4	3.8	12°	6	65	5,100	16.04	16.67	17.36	18.12	19.89
08-00520-32003		16	3	4	3.8	12°	6	65	5,100	17.09	17.76	18.50	19.32	21.22
08-00520-02003		20	3	4	3.8	12°	6	65	5,100	21.26	22.12	23.06	24.10	Free
08-00520-02004		25	3	4	3.8	12°	6	70	5,100	26.47	27.57	28.77	30.09	Free
08-00520-02005		30	3	4	3.8	12°	6	70	5,100	31.68	33.01	34.47	Free	Free
08-00520-02006		35	3	4	3.8	12°	6	80	5,900	36.90	38.46	40.17	Free	Free
08-00520-02007		40	3	4	3.8	12°	6	85	6,600	42.11	43.91	Free	Free	Free
08-00520-02008		45	3	4	3.8	12°	6	90	8,500	47.33	49.36	Free	Free	Free
08-00520-02009		50	3	4	3.8	12°	6	100	9,100	52.54	54.80	Free	Free	Free
08-00520-32501	R2.5	10	3.5	5	4.8	12°	6	70	6,000	10.81	11.18	11.59	12.04	Free
08-00520-12501		15	3.5	5	4.8	12°	6	70	8,500	16.02	16.63	17.29	Free	Free
08-00520-02501		20	3.5	5	4.8	12°	6	70	8,500	21.24	22.08	Free	Free	Free
08-00520-02502		25	3.5	5	4.8	12°	6	70	8,500	26.45	27.52	Free	Free	Free
08-00520-02503		30	3.5	5	4.8	12°	6	80	9,100	31.66	Free	Free	Free	Free
08-00520-02504		35	3.5	5	4.8	12°	6	80	9,100	36.88	Free	Free	Free	Free
08-00520-12502		40	3.5	5	4.8	12°	6	90	11,500	42.09	Free	Free	Free	Free
08-00520-12503		45	3.5	5	4.8	12°	6	100	12,000	47.31	Free	Free	Free	Free
08-00520-12504	R3	50	3.5	5	4.8	12°	6	100	13,000	52.52	Free	Free	Free	Free
08-00520-33001		10	6	6	5.8	-	6	70	6,400	Free	Free	Free	Free	Free
08-00520-43001		15	6	6	5.8	-	6	70	6,400	Free	Free	Free	Free	Free
08-00520-13001		20	6	6	5.8	-	6	70	6,400	Free	Free	Free	Free	Free
08-00520-13002		25	6	6	5.8	-	6	70	6,400	Free	Free	Free	Free	Free
08-00520-03001		30	6	6	5.8	-	6	80	6,600	Free	Free	Free	Free	Free
08-00520-13003		35	6	6	5.8	-	6	80	6,800	Free	Free	Free	Free	Free
08-00520-13004		40	6	6	5.8	-	6	90	7,200	Free	Free	Free	Free	Free
08-00520-13005		45	6	6	5.8	-	6	100	7,700	Free	Free	Free	Free	Free
08-00520-03003		50	6	6	5.8	-	6	120	7,800	Free	Free	Free	Free	Free

CBN铣刀
Cubic Boron Nitride钻石铣刀
Diamond平底铣刀
Square长颈平底
铣刀球头铣刀
Ball长颈球头
铣刀圆鼻铣刀
Radius长颈圆鼻
铣刀锥形铣刀
Taper锥形球头
铣刀锥形圆鼻
铣刀钻头
Drilling螺纹铣刀
Thread milling倒角刀
Chamfering