

无限白金涂层  
高硬度钢用2刃长颈球头铣刀  
MUGEN COATING PREMIUM 2-Flute Long Neck Ball End Mill for Hardened Steel

共 334 种规格  
Total 334 sizes

可对应调质钢、高硬度钢(~65HRC)的2刃长颈球头铣刀  
丰富的尺寸规格增加至 共 334 种规格

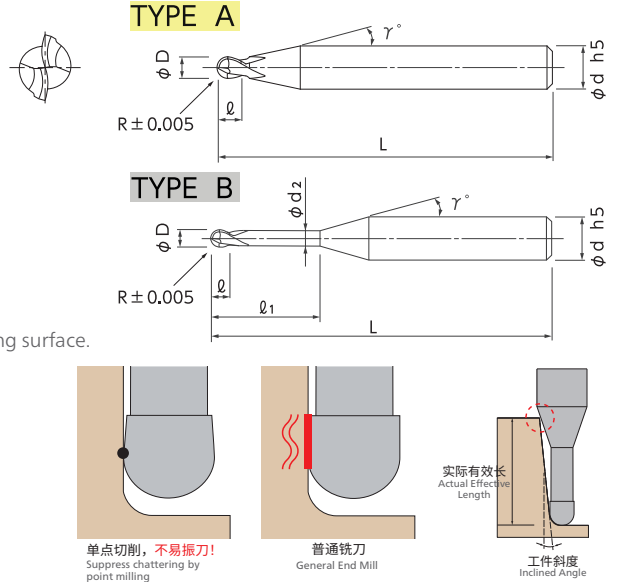
Long neck ball end mill supports machining from prehardened steels to hardened steels(~ 65HRC)  
Abundant size variations with total 334 sizes



- 采用高硬度钢用无限白金涂层与独创的新形状，耐崩刃性优异并可有效抑制振刀，从而提高了加工面的加工精度。
- 适用于至65HRC的高硬度钢。
- 共 334 种规格！
- MUGEN COATING PREMIUM for hardened steel and unique cutting edge realize excellent chipping resistance and suppress chattering to improve finishing surface.
- Support hardened steels up to 65HRC.
- Lineup to total 334 sizes.

加工材料 Work Material

调质钢 Prehardened Steel	P	高硬度钢 Hardened Steel	
		40~60HRC	~65HRC



◆ 2023年6月增加规格 ※Released in Jun, 2023.

R≥0.5可对应返修服务(柄长须在15mm以上.详情请咨询本公司.)

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

产品代码No. Code No.	(R) 球头半径 Radius	(L1) 颈长 Under Neck Length	(L) 刃长 Length of Cut	形状 Type	(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°
08-00527-00050	R0.05	0.2	0.07	B	0.1	0.085	12°	4	45	12,300	0.24	0.25	0.26	0.27	0.29
◆ 08-00527-00054		0.25	0.07	B	0.1	0.085	12°	4	45	10,800	0.29	0.30	0.31	0.33	0.36
08-00527-00051		0.3	0.07	B	0.1	0.085	12°	4	45	10,800	0.34	0.36	0.37	0.39	0.42
◆ 08-00527-00055		0.35	0.07	B	0.1	0.085	12°	4	45	10,800	0.39	0.41	0.43	0.45	0.49
◆ 08-00527-00052		0.4	0.07	B	0.1	0.085	12°	4	45	10,800	0.45	0.46	0.48	0.51	0.56
◆ 08-00527-00056		0.45	0.07	B	0.1	0.085	12°	4	45	10,800	0.50	0.52	0.54	0.57	0.62
08-00527-00053		0.5	0.07	B	0.1	0.085	12°	4	45	11,800	0.55	0.57	0.60	0.63	0.69
◆ 08-00527-00070	R0.075	0.25	0.1	B	0.15	0.13	12°	4	45	12,600	0.30	0.31	0.32	0.34	0.37
08-00527-00071		0.3	0.1	B	0.15	0.13	12°	4	45	12,600	0.35	0.37	0.38	0.40	0.43
◆ 08-00527-00076		0.35	0.1	B	0.15	0.13	12°	4	45	12,600	0.41	0.42	0.44	0.46	0.50
◆ 08-00527-00072		0.4	0.1	B	0.15	0.13	12°	4	45	12,600	0.46	0.48	0.49	0.52	0.56
◆ 08-00527-00077		0.45	0.1	B	0.15	0.13	12°	4	45	12,600	0.51	0.53	0.55	0.58	0.63
08-00527-00073		0.5	0.1	B	0.15	0.13	12°	4	45	13,300	0.56	0.58	0.61	0.64	0.70
◆ 08-00527-00074		0.6	0.1	B	0.15	0.13	12°	4	45	13,300	0.67	0.69	0.72	0.75	0.83
◆ 08-00527-00078		0.75	0.1	B	0.15	0.13	12°	4	45	13,300	0.82	0.86	0.89	0.93	1.03
08-00527-00075		1	0.1	B	0.15	0.13	12°	4	45	14,200	1.08	1.13	1.18	1.23	1.36
08-00527-00100	R0.1	0.3	0.15	B	0.2	0.18	12°	4	45	7,600	0.35	0.36	0.38	0.39	0.42
◆ 08-00527-00110		0.4	0.15	B	0.2	0.18	12°	4	45	7,600	0.46	0.47	0.49	0.51	0.56
08-00527-00101		0.5	0.15	B	0.2	0.18	12°	4	45	7,600	0.56	0.58	0.61	0.63	0.69
◆ 08-00527-00111		0.6	0.15	B	0.2	0.18	12°	4	45	7,600	0.67	0.69	0.72	0.75	0.82
08-00527-00102		0.75	0.15	B	0.2	0.18	12°	4	45	7,600	0.82	0.85	0.89	0.93	1.02
◆ 08-00527-00112		0.85	0.15	B	0.2	0.18	12°	4	45	7,600	0.93	0.96	1.00	1.05	1.15
08-00527-00103		1	0.15	B	0.2	0.18	12°	4	45	7,600	1.08	1.13	1.18	1.23	1.35
08-00528-00103		1	0.15	B	0.2	0.18	12°	6	50	11,200	1.08	1.13	1.18	1.23	1.35
08-00527-00104		1.25	0.15	B	0.2	0.18	12°	4	45	8,200	1.34	1.40	1.46	1.53	1.68
08-00527-00105		1.5	0.15	B	0.2	0.18	12°	4	45	8,200	1.60	1.67	1.75	1.83	2.02
08-00527-00106		1.75	0.15	B	0.2	0.18	12°	4	45	9,100	1.86	1.94	2.03	2.13	2.35
08-00527-00107		2	0.15	B	0.2	0.18	12°	4	45	9,100	2.13	2.22	2.32	2.43	2.68
◆ 08-00527-00113		2.25	0.15	B	0.2	0.18	12°	4	45	9,100	2.39	2.49	2.60	2.72	3.01
08-00527-00108		2.5	0.15	B	0.2	0.18	12°	4	45	10,000	2.65	2.76	2.89	3.02	3.34
◆ 08-00527-00114	2.75	0.15	B	0.2	0.18	12°	4	45	10,000	2.91	3.03	3.17	3.32	3.68	
08-00527-00109	3	0.15	B	0.2	0.18	12°	4	45	10,700	3.17	3.31	3.46	3.62	4.01	
◆ 08-00527-00164	R0.15	0.2*	0.2	A	0.3	-	12°	4	45	7,500	0.20	0.20	0.20	0.20	0.20
08-00527-00162		0.5	0.2	B	0.3	0.28	12°	4	45	7,500	0.56	0.58	0.60	0.62	0.67

订购方式  
How to Order

请指定MRBH230 球头半径(R)×颈长(L1)×柄径(d)。  
When you order, indicate MRBH230 (R)×(L1)×(d).

(γ)为参考值。  
(γ) is reference value.

\*全刃长类型 (TYPE A)  
Full cutting length type (TYPE A)

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

产品代码No. Code No.	(R)球头半径 Radius	(Q1)颈长 Under Neck Length	(Q)刃长 Length of Cut	形状 Type	(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°	
08-00527-00150	R0.15	0.6	0.2	B	0.3	0.28	12°	4	45	7,500	0.66	0.69	0.71	0.74	0.81	
08-00527-00163		0.75	0.2	B	0.3	0.28	12°	4	45	7,500	0.82	0.85	0.88	0.92	1.01	
08-00527-00151		1	0.2	B	0.3	0.28	12°	4	45	7,500	1.08	1.12	1.17	1.22	1.34	
08-00527-00152		1.25	0.2	B	0.3	0.28	12°	4	45	8,000	1.34	1.39	1.45	1.52	1.67	
08-00527-00153		1.5	0.2	B	0.3	0.28	12°	4	45	8,000	1.60	1.67	1.74	1.82	2.00	
08-00528-00153		1.5	0.2	B	0.3	0.28	12°	6	50	11,800	1.60	1.67	1.74	1.82	2.00	
08-00527-00154		1.75	0.2	B	0.3	0.28	12°	4	45	8,000	1.86	1.94	2.02	2.12	2.33	
08-00527-00155		2	0.2	B	0.3	0.28	12°	4	45	8,000	2.12	2.21	2.31	2.42	2.66	
08-00527-00156		2.25	0.2	B	0.3	0.28	12°	4	45	8,200	2.38	2.48	2.59	2.71	3.00	
08-00527-00157		2.5	0.2	B	0.3	0.28	12°	4	45	8,200	2.64	2.76	2.88	3.01	3.33	
08-00527-00159		3	0.2	B	0.3	0.28	12°	4	45	8,200	3.17	3.30	3.45	3.61	3.99	
08-00527-00160		3.5	0.2	B	0.3	0.28	12°	4	45	8,600	3.69	3.85	4.02	4.21	4.65	
08-00527-00161		4	0.2	B	0.3	0.28	12°	4	45	8,600	4.21	4.39	4.59	4.81	5.32	
◆ 08-00527-00165		4.5	0.2	B	0.3	0.28	12°	4	45	8,600	4.73	4.94	5.16	5.41	5.98	
◆ 08-00527-00200	R0.2	0.3※	0.3	A	0.4	-	12°	4	45	4,800	0.30	0.30	0.30	0.30	0.30	
08-00527-00211		0.5	0.3	B	0.4	0.37	12°	4	45	5,100	0.58	0.60	0.62	0.64	0.69	
◆ 08-00527-00213		0.65	0.3	B	0.4	0.37	12°	4	45	5,100	0.74	0.76	0.79	0.82	0.89	
08-00527-00201		0.8	0.3	B	0.4	0.37	12°	4	45	5,100	0.89	0.93	0.96	1.00	1.09	
08-00527-00202		1	0.3	B	0.4	0.37	12°	4	45	5,100	1.10	1.14	1.19	1.24	1.35	
08-00528-00202		1	0.3	B	0.4	0.37	12°	6	50	7,900	1.10	1.14	1.19	1.24	1.35	
◆ 08-00527-00214		1.25	0.3	B	0.4	0.37	12°	4	45	5,100	1.36	1.42	1.47	1.54	1.68	
08-00527-00203		1.5	0.3	B	0.4	0.37	12°	4	45	5,300	1.62	1.69	1.76	1.84	2.02	
◆ 08-00527-00215		1.75	0.3	B	0.4	0.37	12°	4	45	5,300	1.88	1.96	2.04	2.13	2.35	
08-00527-00204		2	0.3	B	0.4	0.37	12°	4	45	5,400	2.15	2.23	2.33	2.43	2.68	
08-00528-00204		2	0.3	B	0.4	0.37	12°	6	50	8,300	2.15	2.23	2.33	2.43	2.68	
◆ 08-00527-00216		2.25	0.3	B	0.4	0.37	12°	4	45	5,400	2.41	2.51	2.61	2.73	3.01	
08-00527-00205		2.5	0.3	B	0.4	0.37	12°	4	45	5,600	2.67	2.78	2.90	3.03	3.34	
◆ 08-00527-00217		2.75	0.3	B	0.4	0.37	12°	4	45	5,600	2.93	3.05	3.18	3.33	3.67	
08-00527-00206		3	0.3	B	0.4	0.37	12°	4	45	5,900	3.19	3.32	3.47	3.63	4.01	
08-00527-00207		3.5	0.3	B	0.4	0.37	12°	4	45	6,400	3.71	3.87	4.04	4.23	4.67	
08-00527-00208		4	0.3	B	0.4	0.37	12°	4	45	6,400	4.23	4.41	4.61	4.83	5.33	
08-00527-00209		4.5	0.3	B	0.4	0.37	12°	4	45	6,700	4.75	4.96	5.18	5.43	6.00	
08-00527-00210		5	0.3	B	0.4	0.37	12°	4	45	6,700	5.27	5.50	5.75	6.02	6.66	
◆ 08-00527-00218		5.5	0.3	B	0.4	0.37	12°	4	45	7,600	5.80	6.05	6.32	6.62	7.32	
08-00527-00212		6	0.3	B	0.4	0.37	12°	4	45	7,900	6.32	6.59	6.89	7.22	7.99	
◆ 08-00527-00265		R0.25	0.35※	0.35	A	0.5	-	12°	4	45	4,800	0.35	0.35	0.35	0.35	0.35
◆ 08-00527-00266			0.5	0.35	B	0.5	0.46	12°	4	45	5,100	0.60	0.62	0.64	0.66	0.70
◆ 08-00527-00267			0.75	0.35	B	0.5	0.46	12°	4	45	5,100	0.86	0.89	0.92	0.96	1.04
08-00527-00250			1	0.35	B	0.5	0.46	12°	4	45	5,100	1.13	1.16	1.21	1.26	1.37
◆ 08-00527-00268			1.25	0.35	B	0.5	0.46	12°	4	45	5,100	1.39	1.44	1.49	1.56	1.70
08-00527-00251			1.5	0.35	B	0.5	0.46	12°	4	45	5,100	1.65	1.71	1.78	1.85	2.03
◆ 08-00527-00269			1.75	0.35	B	0.5	0.46	12°	4	45	5,100	1.91	1.98	2.06	2.15	2.36
08-00527-00252	2		0.35	B	0.5	0.46	12°	4	45	5,100	2.17	2.25	2.35	2.45	2.69	
◆ 08-00527-00270	2.25		0.35	B	0.5	0.46	12°	4	45	5,100	2.43	2.53	2.63	2.75	3.03	
08-00527-00253	2.5		0.35	B	0.5	0.46	12°	4	45	5,100	2.69	2.80	2.92	3.05	3.36	
08-00527-00254	3		0.35	B	0.5	0.46	12°	4	45	5,100	3.21	3.34	3.49	3.65	4.02	
08-00527-00255	3.5		0.35	B	0.5	0.46	12°	4	45	5,100	3.73	3.89	4.06	4.25	4.69	
08-00527-00256	4		0.35	B	0.5	0.46	12°	4	45	5,100	4.25	4.43	4.63	4.85	5.35	
08-00527-00257	4.5		0.35	B	0.5	0.46	12°	4	45	5,300	4.78	4.98	5.20	5.44	6.01	
08-00527-00258	5		0.35	B	0.5	0.46	12°	4	45	5,300	5.30	5.52	5.77	6.04	6.68	
08-00527-00259	5.5		0.35	B	0.5	0.46	12°	4	45	5,400	5.82	6.07	6.34	6.64	7.34	
08-00527-00260	6		0.35	B	0.5	0.46	12°	4	45	5,400	6.34	6.61	6.91	7.24	8.00	
◆ 08-00527-00261	7		0.35	B	0.5	0.46	12°	4	45	5,900	7.38	7.70	8.05	8.44	9.33	
08-00527-00262	8		0.35	B	0.5	0.46	12°	4	45	6,400	8.42	8.79	9.19	9.63	10.66	
◆ 08-00527-00263	9		0.35	B	0.5	0.46	12°	4	45	7,200	9.47	9.88	10.33	10.83	11.99	
08-00527-00264	10	0.35	B	0.5	0.46	12°	4	45	8,100	10.51	10.97	11.47	12.03	13.31		
◆ 08-00527-00323	R0.3	0.45※	0.45	A	0.6	-	12°	4	45	4,200	0.45	0.45	0.45	0.45	0.45	
◆ 08-00527-00324		0.6	0.45	B	0.6	0.56	12°	4	45	4,400	0.71	0.72	0.75	0.77	0.82	
◆ 08-00527-00325		0.8	0.45	B	0.6	0.56	12°	4	45	4,400	0.91	0.94	0.97	1.01	1.09	
08-00527-00300		1	0.45	B	0.6	0.56	12°	4	45	4,400	1.12	1.16	1.20	1.25	1.35	

## 无限白金涂层 高硬度钢用2刀长颈球头铣刀

MUGEN COATING PREMIUM 2-Flute Long Neck Ball End Mill for Hardened Steel

◆ 2023年6月增加规格 ※Released in Jun, 2023.

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

R≥0.5可对应返修服务(柄长须在15mm以上.详情请咨询本公司.)

产品代码No. Code No.	(R)球头半径 Radius	(L1)颈长 Under Neck Length	(L)刃长 Length of Cut	形状 Type	(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°
◆ 08-00527-00326	R0.3	1.25	0.45	B	0.6	0.56	12°	4	45	4,400	1.38	1.43	1.49	1.55	1.68
08-00527-00301		1.5	0.45	B	0.6	0.56	12°	4	45	4,000	1.64	1.71	1.77	1.84	2.02
◆ 08-00527-00327		1.75	0.45	B	0.6	0.56	12°	4	45	4,000	1.91	1.98	2.06	2.14	2.35
08-00527-00302		2	0.45	B	0.6	0.56	12°	4	45	4,000	2.17	2.25	2.34	2.44	2.68
08-00528-00302		2	0.45	B	0.6	0.56	12°	6	50	6,400	2.17	2.25	2.34	2.44	2.68
◆ 08-00527-00328		2.25	0.45	B	0.6	0.56	12°	4	45	4,000	2.43	2.52	2.63	2.74	3.01
08-00527-00303		2.5	0.45	B	0.6	0.56	12°	4	45	4,100	2.69	2.79	2.91	3.04	3.34
◆ 08-00527-00329		2.75	0.45	B	0.6	0.56	12°	4	45	4,100	2.95	3.07	3.20	3.34	3.67
08-00527-00304		3	0.45	B	0.6	0.56	12°	4	45	4,100	3.21	3.34	3.48	3.64	4.01
08-00528-00304		3	0.45	B	0.6	0.56	12°	6	50	6,500	3.21	3.34	3.48	3.64	4.01
08-00527-00305		3.5	0.45	B	0.6	0.56	12°	4	45	4,200	3.73	3.88	4.05	4.24	4.67
08-00527-00306		4	0.45	B	0.6	0.56	12°	4	45	4,200	4.25	4.43	4.62	4.84	5.33
08-00528-00306		4	0.45	B	0.6	0.56	12°	6	50	6,700	4.25	4.43	4.62	4.84	5.33
08-00527-00321		4.5	0.45	B	0.6	0.56	12°	4	45	4,200	4.77	4.97	5.19	5.43	6.00
08-00527-00308		5	0.45	B	0.6	0.56	12°	4	45	4,200	5.29	5.52	5.76	6.03	6.66
08-00527-00322		5.5	0.45	B	0.6	0.56	12°	4	45	4,200	5.82	6.06	6.33	6.63	7.32
08-00527-00310		6	0.45	B	0.6	0.56	12°	4	45	4,200	6.34	6.61	6.90	7.23	7.99
◆ 08-00527-00311		6.5	0.45	B	0.6	0.56	12°	4	45	4,100	6.86	7.15	7.47	7.83	8.65
08-00527-00312		7	0.45	B	0.6	0.56	12°	4	45	4,700	7.38	7.70	8.04	8.43	9.31
◆ 08-00527-00313		7.5	0.45	B	0.6	0.56	12°	4	45	4,700	7.90	8.24	8.61	9.02	9.98
08-00527-00314	8	0.45	B	0.6	0.56	12°	4	45	5,600	8.42	8.79	9.18	9.62	10.64	
08-00527-00316	9	0.45	B	0.6	0.56	12°	4	45	5,900	9.47	9.88	10.33	10.82	11.97	
08-00527-00318	10	0.45	B	0.6	0.56	12°	4	45	5,700	10.51	10.97	11.47	12.02	13.30	
08-00527-00320	12	0.45	B	0.6	0.56	12°	4	45	6,400	12.59	13.14	13.75	14.41	15.95	
◆ 08-00527-00354	R0.35	0.5※	0.5	A	0.7	-	12°	4	45	4,500	0.50	0.50	0.50	0.50	0.50
◆ 08-00527-00355		1	0.5	B	0.7	0.66	12°	4	45	4,500	1.12	1.16	1.19	1.24	1.34
08-00527-00350		2	0.5	B	0.7	0.66	12°	4	45	4,500	2.16	2.25	2.33	2.43	2.66
08-00527-00351		4	0.5	B	0.7	0.66	12°	4	45	4,800	4.25	4.42	4.62	4.83	5.32
08-00527-00352		6	0.5	B	0.7	0.66	12°	4	45	4,800	6.34	6.60	6.90	7.22	7.97
08-00527-00353		8	0.5	B	0.7	0.66	12°	4	45	4,800	8.42	8.78	9.18	9.61	10.63
◆ 08-00527-00400	R0.4	0.6※	0.6	A	0.8	-	12°	4	45	4,000	0.60	0.60	0.60	0.60	0.60
◆ 08-00527-00411		1	0.6	B	0.8	0.76	12°	4	45	4,000	1.12	1.15	1.19	1.23	1.32
◆ 08-00527-00412		1.5	0.6	B	0.8	0.76	12°	4	45	4,000	1.64	1.70	1.76	1.83	1.98
08-00527-00401		2	0.6	B	0.8	0.76	12°	4	45	4,000	2.16	2.24	2.33	2.42	2.65
08-00528-00401		2	0.6	B	0.8	0.76	12°	6	50	6,400	2.16	2.24	2.33	2.42	2.65
◆ 08-00527-00413		2.5	0.6	B	0.8	0.76	12°	4	45	4,000	2.68	2.79	2.90	3.02	3.31
08-00527-00402		3	0.6	B	0.8	0.76	12°	4	45	4,200	3.20	3.33	3.47	3.62	3.97
◆ 08-00527-00414		3.5	0.6	B	0.8	0.76	12°	4	45	4,200	3.73	3.88	4.04	4.22	4.64
08-00527-00403		4	0.6	B	0.8	0.76	12°	4	45	4,200	4.25	4.42	4.61	4.82	5.30
◆ 08-00527-00415		4.5	0.6	B	0.8	0.76	12°	4	45	4,200	4.77	4.96	5.18	5.41	5.97
08-00527-00404		5	0.6	B	0.8	0.76	12°	4	45	4,200	5.29	5.51	5.75	6.01	6.63
08-00527-00405		6	0.6	B	0.8	0.76	12°	4	45	4,200	6.33	6.60	6.89	7.21	7.96
08-00527-00406		7	0.6	B	0.8	0.76	12°	4	45	4,200	7.38	7.69	8.03	8.41	9.28
08-00527-00407		8	0.6	B	0.8	0.76	12°	4	45	4,200	8.42	8.78	9.17	9.60	10.61
◆ 08-00527-00408		9	0.6	B	0.8	0.76	12°	4	45	4,200	9.46	9.87	10.31	10.80	11.94
08-00527-00409		10	0.6	B	0.8	0.76	12°	4	45	5,600	10.50	10.96	11.45	12.00	13.26
08-00527-00410	12	0.6	B	0.8	0.76	12°	4	45	6,100	12.59	13.14	13.73	14.39	15.92	
◆ 08-00527-00416	16	0.6	B	0.8	0.76	12°	4	50	8,100	16.76	17.49	18.29	19.18	21.23	
◆ 08-00527-00454	R0.45	0.65※	0.65	A	0.9	-	12°	4	45	4,500	0.65	0.65	0.65	0.65	0.65
◆ 08-00527-00455		1	0.65	B	0.9	0.86	12°	4	45	4,500	1.12	1.15	1.18	1.22	1.30
08-00527-00450		2	0.65	B	0.9	0.86	12°	4	45	4,500	2.16	2.24	2.32	2.41	2.63
08-00527-00451		4	0.65	B	0.9	0.86	12°	4	45	4,800	4.25	4.42	4.60	4.81	5.29
08-00527-00452		6	0.65	B	0.9	0.86	12°	4	45	4,800	6.33	6.59	6.88	7.20	7.94
08-00527-00453		8	0.65	B	0.9	0.86	12°	4	45	4,800	8.42	8.77	9.16	9.59	10.59
◆ 08-00527-00517	R0.5	0.75※	0.75	A	1	-	12°	4	45	3,400	0.75	0.75	0.75	0.75	0.75
◆ 08-00527-00518		1	0.75	B	1	0.95	12°	4	45	3,400	1.14	1.17	1.20	1.24	1.32
◆ 08-00527-00519		1.5	0.75	B	1	0.95	12°	4	45	3,400	1.66	1.71	1.77	1.83	1.98
08-00527-00500		2	0.75	B	1	0.95	12°	4	45	3,400	2.18	2.26	2.34	2.43	2.65
08-00527-00514		2.5	0.75	B	1	0.95	12°	4	45	3,400	2.70	2.80	2.91	3.03	3.31
08-00527-00501		3	0.75	B	1	0.95	12°	4	45	3,400	3.22	3.35	3.48	3.63	3.97

订购方式  
How to Order

请指定MRBH230 球头半径(R)×颈长(L1)×柄径(d)。  
When you order, indicate MRBH230 (R)×(L1)×(d).

(γ)为参考值。  
(γ) is reference value.

※全刃长类型 (TYPE A)  
Full cutting length type (TYPE A)

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

产品代码No. Code No.	(R)球头半径 Radius	(Q1)颈长 Under Neck Length	(Q)刃长 Length of Cut	形状 Type	(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°
08-00528-00501	R0.5	3	0.75	B	1	0.95	12°	6	50	5,600	3.22	3.35	3.48	3.63	3.97
◆ 08-00527-00520		3.5	0.75	B	1	0.95	12°	4	45	3,400	3.75	3.89	4.05	4.23	4.64
08-00527-00502		4	0.75	B	1	0.95	12°	4	45	3,800	4.27	4.44	4.62	4.83	5.30
08-00528-00502		4	0.75	B	1	0.95	12°	6	50	6,200	4.27	4.44	4.62	4.83	5.30
◆ 08-00527-00521		4.5	0.75	B	1	0.95	12°	4	45	3,800	4.79	4.98	5.19	5.42	5.96
08-00527-00503		5	0.75	B	1	0.95	12°	4	45	3,800	5.31	5.53	5.76	6.02	6.63
08-00528-00503		5	0.75	B	1	0.95	12°	6	50	6,200	5.31	5.53	5.76	6.02	6.63
08-00527-00504		6	0.75	B	1	0.95	12°	4	45	4,100	6.35	6.62	6.90	7.22	7.96
08-00528-00504		6	0.75	B	1	0.95	12°	6	50	6,500	6.35	6.62	6.90	7.22	7.96
08-00527-00505		7	0.75	B	1	0.95	12°	4	45	4,100	7.40	7.71	8.04	8.42	9.28
08-00528-00505		7	0.75	B	1	0.95	12°	6	50	6,500	7.40	7.71	8.04	8.42	9.28
08-00527-00506		8	0.75	B	1	0.95	12°	4	45	4,100	8.44	8.79	9.18	9.61	10.61
08-00528-00506		8	0.75	B	1	0.95	12°	6	50	6,500	8.44	8.79	9.18	9.61	10.61
08-00527-00507		9	0.75	B	1	0.95	12°	4	45	4,100	9.48	9.88	10.32	10.81	11.94
08-00527-00508		10	0.75	B	1	0.95	12°	4	45	4,100	10.52	10.97	11.46	12.01	13.26
08-00528-00508		10	0.75	B	1	0.95	12°	6	50	6,500	10.52	10.97	11.46	12.01	13.26
08-00527-00509		12	0.75	B	1	0.95	12°	4	45	4,100	12.61	13.15	13.75	14.40	15.92
08-00527-00515		13	0.75	B	1	0.95	12°	4	45	4,700	13.65	14.24	14.89	15.59	17.25
08-00527-00510		14	0.75	B	1	0.95	12°	4	50	4,700	14.70	15.33	16.03	16.79	18.57
08-00527-00511		16	0.75	B	1	0.95	12°	4	50	5,600	16.78	17.51	18.31	19.18	21.23
08-00527-00512		18	0.75	B	1	0.95	12°	4	55	5,600	18.87	19.69	20.59	21.58	23.88
08-00527-00513		20	0.75	B	1	0.95	12°	4	55	6,700	20.95	21.87	22.87	23.97	26.54
08-00528-00516		22	0.75	B	1	0.95	12°	6	60	10,600	23.04	24.05	25.15	26.36	29.19
◆ 08-00527-00608		R0.6	1.2	0.9	B	1.2	1.15	12°	4	45	5,000	1.34	1.38	1.41	1.46
08-00527-00600	2.4		0.9	B	1.2	1.15	12°	4	45	5,000	2.59	2.68	2.78	2.89	3.15
08-00527-00601	4		0.9	B	1.2	1.15	12°	4	45	5,000	4.26	4.43	4.61	4.81	5.27
08-00527-00602	6		0.9	B	1.2	1.15	12°	4	45	5,500	6.35	6.61	6.89	7.20	7.92
08-00527-00603	8		0.9	B	1.2	1.15	12°	4	45	5,500	8.43	8.79	9.17	9.59	10.58
08-00527-00604	10		0.9	B	1.2	1.15	12°	4	45	5,500	10.52	10.96	11.45	11.99	13.23
08-00527-00605	12		0.9	B	1.2	1.15	12°	4	45	5,500	12.61	13.14	13.73	14.38	15.89
08-00527-00606	14		0.9	B	1.2	1.15	12°	4	50	6,000	14.69	15.32	16.01	16.77	18.54
08-00527-00607	16	0.9	B	1.2	1.15	12°	4	50	6,500	16.78	17.50	18.29	19.17	21.20	
◆ 08-00527-00703	R0.7	2	1	B	1.4	1.35	12°	4	45	4,700	2.17	2.24	2.31	2.39	2.58
◆ 08-00527-00704		4	1	B	1.4	1.35	12°	4	45	4,700	4.26	4.42	4.59	4.79	5.24
◆ 08-00527-00705		6	1	B	1.4	1.35	12°	4	45	4,700	6.34	6.60	6.88	7.18	7.89
08-00527-00700		8	1	B	1.4	1.35	12°	4	45	4,700	8.43	8.78	9.16	9.57	10.55
08-00527-00701		12	1	B	1.4	1.35	12°	4	50	4,700	12.60	13.13	13.72	14.36	15.85
08-00527-00702		16	1	B	1.4	1.35	12°	4	50	4,700	16.77	17.49	18.28	19.15	21.16
◆ 08-00527-00765	R0.75	2	1.1	B	1.5	1.45	12°	4	45	3,900	2.17	2.24	2.31	2.38	2.57
08-00527-00750		3	1.1	B	1.5	1.45	12°	4	45	3,900	3.21	3.33	3.45	3.58	3.89
08-00527-00751		4	1.1	B	1.5	1.45	12°	4	45	3,900	4.26	4.41	4.59	4.78	5.22
◆ 08-00527-00752		5	1.1	B	1.5	1.45	12°	4	45	3,900	5.30	5.50	5.73	5.97	6.55
08-00527-00753		6	1.1	B	1.5	1.45	12°	4	45	3,900	6.34	6.59	6.87	7.17	7.88
08-00528-00753		6	1.1	B	1.5	1.45	12°	6	50	6,600	6.34	6.59	6.87	7.17	7.88
08-00527-00755		8	1.1	B	1.5	1.45	12°	4	45	4,100	8.43	8.77	9.15	9.56	10.53
08-00528-00755		8	1.1	B	1.5	1.45	12°	6	50	6,600	8.43	8.77	9.15	9.56	10.53
08-00527-00757		10	1.1	B	1.5	1.45	12°	4	45	4,400	10.51	10.95	11.43	11.96	13.18
08-00527-00758		12	1.1	B	1.5	1.45	12°	4	45	4,700	12.60	13.13	13.71	14.35	15.84
08-00527-00759		14	1.1	B	1.5	1.45	12°	4	50	4,700	14.69	15.31	15.99	16.74	18.49
08-00527-00760		16	1.1	B	1.5	1.45	12°	4	50	4,700	16.77	17.49	18.27	19.14	21.15
08-00527-00761		18	1.1	B	1.5	1.45	12°	4	55	4,700	18.86	19.67	20.55	21.53	23.80
08-00527-00762		20	1.1	B	1.5	1.45	12°	4	55	4,700	20.94	21.85	22.84	23.92	Free
08-00527-00763		22	1.1	B	1.5	1.45	12°	4	60	4,700	23.03	24.02	25.12	26.32	Free
◆ 08-00527-00766		25	1.1	B	1.5	1.45	12°	4	65	4,700	26.16	27.29	28.54	29.91	Free
08-00527-00764	30	1.1	B	1.5	1.45	12°	4	70	4,700	31.37	32.74	34.24	35.89	Free	
◆ 08-00527-00800	R0.8	2	1.2	B	1.6	1.55	12°	4	45	5,500	2.17	2.23	2.30	2.37	2.55
◆ 08-00527-00801		4	1.2	B	1.6	1.55	12°	4	45	5,500	4.25	4.41	4.58	4.77	5.21
◆ 08-00527-00802		6	1.2	B	1.6	1.55	12°	4	45	5,500	6.34	6.59	6.86	7.16	7.86
08-00527-00803		8	1.2	B	1.6	1.55	12°	4	45	5,500	8.43	8.77	9.14	9.55	10.51
08-00527-00805		12	1.2	B	1.6	1.55	12°	4	45	5,500	12.60	13.13	13.70	14.34	15.82



## 无限白金涂层 高硬度钢用2刃长颈球头铣刀

MUGEN COATING PREMIUM 2-Flute Long Neck Ball End Mill for Hardened Steel

◆ 2023年6月增加规格 ※Released in Jun, 2023.

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

R≥0.5可对应返修服务(柄长须在15mm以上.详情请咨询本公司.)

产品代码No. Code No.	(R)球头半径 Radius	(L <sub>1</sub> )颈长 Under Neck Length	(L)刃长 Length of Cut	形状 Type	(D)外径 Dia.	(d <sub>2</sub> )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°	
08-00527-00807	R0.8	16	1.2	B	1.6	1.55	12°	4	50	5,500	16.77	17.48	18.27	19.13	21.13	
08-00527-00809		20	1.2	B	1.6	1.55	12°	4	55	5,500	20.94	21.84	22.83	23.91	Free	
◆ 08-00527-00901		3	1.3	B	1.8	1.74	12°	4	45	5,000	3.23	3.34	3.45	3.58	3.88	
◆ 08-00527-00902		4	1.3	B	1.8	1.74	12°	4	45	5,000	4.28	4.43	4.59	4.78	5.20	
◆ 08-00527-00903		6	1.3	B	1.8	1.74	12°	4	45	5,000	6.36	6.61	6.87	7.17	7.86	
◆ 08-00527-00904		8	1.3	B	1.8	1.74	12°	4	45	5,000	8.45	8.78	9.16	9.56	10.51	
◆ 08-00527-00905	R0.9	10	1.3	B	1.8	1.74	12°	4	45	5,000	10.53	10.96	11.44	11.96	13.17	
◆ 08-00527-00906		12	1.3	B	1.8	1.74	12°	4	45	5,000	12.62	13.14	13.72	14.35	15.82	
◆ 08-00527-00907		16	1.3	B	1.8	1.74	12°	4	50	5,000	16.79	17.50	18.28	19.14	21.13	
◆ 08-00527-00908		18	1.3	B	1.8	1.74	12°	4	55	5,000	18.87	19.68	20.56	21.53	Free	
◆ 08-00527-00909		20	1.3	B	1.8	1.74	12°	4	55	5,000	20.96	21.86	22.84	23.92	Free	
◆ 08-00527-00910		22	1.3	B	1.8	1.74	12°	4	60	5,500	23.05	24.04	25.12	26.31	Free	
◆ 08-00527-00911		25	1.3	B	1.8	1.74	12°	4	65	6,300	26.17	27.31	28.54	29.90	Free	
◆ 08-00527-00912		30	1.3	B	1.8	1.74	12°	4	70	6,800	31.39	32.75	34.25	Free	Free	
◆ 08-00527-01000		R1	2	1.5	B	2	1.94	12°	4	45	3,400	2.19	2.24	2.30	2.36	2.52
08-00527-01001			3	1.5	B	2	1.94	12°	4	45	3,400	3.23	3.33	3.44	3.56	3.85
◆ 08-00528-01001	3		1.5	B	2	1.94	12°	6	50	5,600	3.23	3.33	3.44	3.56	3.85	
08-00527-01002	4		1.5	B	2	1.94	12°	4	45	3,400	4.27	4.42	4.58	4.76	5.17	
08-00528-01002	4		1.5	B	2	1.94	12°	6	50	5,600	4.27	4.42	4.58	4.76	5.17	
08-00527-01004	6		1.5	B	2	1.94	12°	4	45	3,800	6.36	6.60	6.86	7.15	7.83	
08-00528-01004	6		1.5	B	2	1.94	12°	6	50	6,100	6.36	6.60	6.86	7.15	7.83	
08-00527-01006	8		1.5	B	2	1.94	12°	4	45	4,100	8.44	8.78	9.14	9.54	10.48	
08-00528-01006	8		1.5	B	2	1.94	12°	6	50	6,500	8.44	8.78	9.14	9.54	10.48	
08-00527-01008	10		1.5	B	2	1.94	12°	4	45	4,100	10.53	10.95	11.42	11.94	13.14	
08-00528-01008	10		1.5	B	2	1.94	12°	6	50	6,500	10.53	10.95	11.42	11.94	13.14	
08-00527-01010	12		1.5	B	2	1.94	12°	4	45	4,100	12.61	13.13	13.70	14.33	15.79	
◆ 08-00528-01010	12		1.5	B	2	1.94	12°	6	50	6,500	12.61	13.13	13.70	14.33	15.79	
08-00527-01020	13		1.5	B	2	1.94	12°	4	45	4,100	13.66	14.22	14.84	15.53	17.12	
08-00527-01011	14		1.5	B	2	1.94	12°	4	50	4,100	14.70	15.31	15.98	16.72	18.45	
◆ 08-00528-01011	14		1.5	B	2	1.94	12°	6	50	6,500	14.70	15.31	15.98	16.72	18.45	
08-00527-01012	16		1.5	B	2	1.94	12°	4	50	4,100	16.78	17.49	18.27	19.12	Free	
08-00528-01012	16		1.5	B	2	1.94	12°	6	60	6,500	16.78	17.49	18.27	19.12	21.10	
08-00527-01013	18		1.5	B	2	1.94	12°	4	55	4,100	18.87	19.67	20.55	21.51	Free	
◆ 08-00528-01013	18		1.5	B	2	1.94	12°	6	60	6,900	18.87	19.67	20.55	21.51	23.75	
08-00527-01014	20		1.5	B	2	1.94	12°	4	55	4,100	20.96	21.85	22.83	23.90	Free	
◆ 08-00528-01014	20		1.5	B	2	1.94	12°	6	60	6,900	20.96	21.85	22.83	23.90	26.41	
08-00527-01015	22		1.5	B	2	1.94	12°	4	60	5,600	23.04	24.03	25.11	26.30	Free	
08-00527-01016	25		1.5	B	2	1.94	12°	4	65	5,700	26.17	27.30	28.53	Free	Free	
08-00528-01016	25		1.5	B	2	1.94	12°	6	65	6,100	26.17	27.30	28.53	29.89	33.04	
◆ 08-00527-01021	27		1.5	B	2	1.94	12°	4	70	6,100	28.26	29.48	30.81	Free	Free	
08-00527-01017	30		1.5	B	2	1.94	12°	4	70	6,400	31.38	32.74	34.23	Free	Free	
◆ 08-00528-01017	30		1.5	B	2	1.94	12°	6	70	7,900	31.38	32.74	34.23	35.87	Free	
◆ 08-00527-01022	32		1.5	B	2	1.94	12°	4	70	7,900	33.47	34.92	36.51	Free	Free	
08-00527-01018	35		1.5	B	2	1.94	12°	4	70	8,700	36.60	38.19	Free	Free	Free	
◆ 08-00528-01018	35	1.5	B	2	1.94	12°	6	80	10,300	36.60	38.19	39.93	41.85	Free		
08-00527-01019	40	1.5	B	2	1.94	12°	4	90	8,700	41.81	43.64	Free	Free	Free		
◆ 08-00528-01019	40	1.5	B	2	1.94	12°	6	90	10,300	41.81	43.64	45.64	47.83	Free		
◆ 08-00527-01258	R1.25	4	2.3	B	2.5	2.4	12°	4	45	5,000	4.36	4.50	4.65	4.82	5.22	
08-00527-01250		6	2.3	B	2.5	2.4	12°	4	45	5,000	6.44	6.68	6.93	7.21	7.87	
08-00527-01251		8	2.3	B	2.5	2.4	12°	4	45	4,400	8.53	8.86	9.21	9.61	10.53	
08-00527-01252		10	2.3	B	2.5	2.4	12°	4	45	5,400	10.62	11.04	11.49	12.00	13.18	
08-00527-01253		15	2.3	B	2.5	2.4	12°	4	50	5,500	15.83	16.48	17.20	17.98	Free	
08-00527-01254		20	2.3	B	2.5	2.4	12°	4	55	6,400	21.04	21.93	22.90	Free	Free	
08-00527-01255		25	2.3	B	2.5	2.4	12°	4	65	6,800	26.26	27.38	28.60	Free	Free	
08-00527-01256		30	2.3	B	2.5	2.4	12°	4	70	7,900	31.47	32.82	Free	Free	Free	
08-00527-01257		35	2.3	B	2.5	2.4	12°	4	70	9,800	36.69	38.27	Free	Free	Free	
08-00527-01501	R1.5	6	2.5	B	3	2.85	12°	6	60	4,300	6.56	6.78	7.03	7.31	7.95	
08-00527-01502		8	2.5	B	3	2.85	12°	6	60	4,300	8.64	8.96	9.31	9.70	10.60	
08-00527-01503		10	2.5	B	3	2.85	12°	6	60	5,000	10.73	11.14	11.59	12.09	13.26	
08-00527-01504		12	2.5	B	3	2.85	12°	6	60	5,200	12.81	13.32	13.88	14.49	15.91	

订购方式  
How to Order

请指定MRBH230 球头半径(R)×颈长(L<sub>1</sub>)×柄径(d)。  
When you order, indicate MRBH230 (R)×(L<sub>1</sub>)×(d).

(γ)为参考值。  
(γ) is reference value.

※全刃长类型 (TYPE A)  
Full cutting length type (TYPE A)

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

产品代码No. Code No.	(R)球头半径 Radius	(Q1)颈长 Under Neck Length	(Q)刃长 Length of Cut	形状 Type	(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°
08-00527-01505	R1.5	14	2.5	B	3	2.85	12°	6	60	5,700	14.90	15.50	16.16	16.88	18.57
08-00527-01506		16	2.5	B	3	2.85	12°	6	60	5,700	16.98	17.68	18.44	19.27	21.22
◆ 08-00527-01507		18	2.5	B	3	2.85	12°	6	60	5,700	19.07	19.86	20.72	21.67	23.88
08-00527-01508		20	2.5	B	3	2.85	12°	6	65	5,500	21.16	22.04	23.00	24.06	26.53
◆ 08-00527-01513		22	2.5	B	3	2.85	12°	6	65	5,500	23.24	24.21	25.28	26.45	29.18
08-00527-01509		25	2.5	B	3	2.85	12°	6	65	5,500	26.37	27.48	28.70	30.04	Free
◆ 08-00527-01514		27	2.5	B	3	2.85	12°	6	70	6,300	28.46	29.66	30.98	32.44	Free
08-00527-01510		30	2.5	B	3	2.85	12°	6	70	6,300	31.58	32.93	34.40	36.03	Free
08-00527-01511		35	2.5	B	3	2.85	12°	6	80	7,900	36.80	38.38	40.11	42.01	Free
08-00527-01512		40	2.5	B	3	2.85	12°	6	90	9,900	42.01	43.83	45.81	Free	Free
◆ 08-00527-01757		5	2.8	B	3.5	3.35	12°	6	60	7,300	5.50	5.67	5.86	6.06	6.54
◆ 08-00527-01758		10	2.8	B	3.5	3.35	12°	6	60	7,300	10.72	11.12	11.56	12.05	13.18
08-00527-01750	15	2.8	B	3.5	3.35	12°	6	60	7,300	15.93	16.57	17.26	18.03	19.81	
08-00527-01754	20	2.8	B	3.5	3.35	12°	6	65	7,300	21.14	22.01	22.96	24.01	Free	
08-00527-01751	25	2.8	B	3.5	3.35	12°	6	65	7,700	26.36	27.46	28.67	29.99	Free	
08-00527-01755	30	2.8	B	3.5	3.35	12°	6	70	7,700	31.57	32.91	34.37	35.98	Free	
08-00527-01752	35	2.8	B	3.5	3.35	12°	6	80	9,900	36.79	38.36	40.07	Free	Free	
08-00527-01756	40	2.8	B	3.5	3.35	12°	6	90	9,900	42.00	43.80	45.77	Free	Free	
08-00527-01753	45	2.8	B	3.5	3.35	12°	6	90	12,100	47.22	49.25	Free	Free	Free	
◆ 08-00527-02015	6	3	B	4	3.8	-	4	65	4,000	Free	Free	Free	Free	Free	
◆ 08-00527-02016	6	3	B	4	3.8	12°	6	65	4,400	6.66	6.87	7.10	7.35	7.95	
08-00527-02000	8	3	B	4	3.8	-	4	65	4,000	Free	Free	Free	Free	Free	
08-00527-02001	8	3	B	4	3.8	12°	6	65	4,400	8.74	9.05	9.38	9.74	10.60	
◆ 08-00527-02017	10	3	B	4	3.8	-	4	65	4,400	Free	Free	Free	Free	Free	
08-00527-02002	10	3	B	4	3.8	12°	6	65	4,400	10.83	11.22	11.66	12.14	13.25	
08-00527-02003	12	3	B	4	3.8	12°	6	65	5,700	12.91	13.40	13.94	14.53	15.91	
08-00527-02101	14	3	B	4	3.8	12°	6	65	5,700	15.00	15.58	16.22	16.92	18.56	
08-00527-02004	15	3	B	4	3.8	12°	6	65	5,700	16.04	16.67	17.36	18.12	19.89	
◆ 08-00527-02005	16	3	B	4	3.8	12°	6	65	5,700	17.09	17.76	18.50	19.32	Free	
◆ 08-00527-02018	18	3	B	4	3.8	12°	6	65	5,700	19.17	19.94	20.78	21.71	Free	
08-00527-02006	20	3	B	4	3.8	12°	6	65	5,700	21.26	22.12	23.06	24.10	Free	
◆ 08-00527-02007	22	3	B	4	3.8	12°	6	70	5,700	23.34	24.30	25.35	26.50	Free	
08-00527-02008	25	3	B	4	3.8	12°	6	70	5,700	26.47	27.57	28.77	30.09	Free	
◆ 08-00527-02009	27	3	B	4	3.8	12°	6	70	5,700	28.56	29.75	31.05	Free	Free	
08-00527-02010	30	3	B	4	3.8	12°	6	70	5,700	31.68	33.01	34.47	Free	Free	
08-00527-02011	35	3	B	4	3.8	12°	6	80	6,600	36.90	38.46	Free	Free	Free	
08-00527-02012	40	3	B	4	3.8	12°	6	85	7,400	42.11	43.91	Free	Free	Free	
08-00527-02013	45	3	B	4	3.8	12°	6	90	9,600	47.33	49.36	Free	Free	Free	
08-00527-02014	50	3	B	4	3.8	12°	6	100	10,500	52.54	54.80	Free	Free	Free	
08-00527-02500	10	3.5	B	5	4.8	12°	6	70	6,700	10.81	11.18	11.59	12.04	Free	
08-00527-02501	15	3.5	B	5	4.8	12°	6	70	9,500	16.02	16.63	17.29	Free	Free	
08-00527-02502	20	3.5	B	5	4.8	12°	6	70	9,600	21.24	22.08	Free	Free	Free	
08-00527-02503	25	3.5	B	5	4.8	12°	6	70	9,600	26.45	27.52	Free	Free	Free	
08-00527-02504	30	3.5	B	5	4.8	12°	6	80	10,200	31.66	Free	Free	Free	Free	
◆ 08-00527-02505	35	3.5	B	5	4.8	12°	6	80	11,000	36.88	Free	Free	Free	Free	
08-00527-02506	40	3.5	B	5	4.8	12°	6	90	12,800	42.09	Free	Free	Free	Free	
◆ 08-00527-02507	45	3.5	B	5	4.8	12°	6	100	13,500	47.31	Free	Free	Free	Free	
◆ 08-00527-02508	50	3.5	B	5	4.8	12°	6	100	14,000	52.52	Free	Free	Free	Free	
◆ 08-00527-03009	8	6	B	6	5.7	-	6	70	7,200	Free	Free	Free	Free	Free	
08-00527-03000	10	6	B	6	5.7	-	6	70	7,200	Free	Free	Free	Free	Free	
◆ 08-00527-03010	12	6	B	6	5.7	-	6	70	7,200	Free	Free	Free	Free	Free	
08-00527-03001	15	6	B	6	5.7	-	6	70	7,200	Free	Free	Free	Free	Free	
◆ 08-00527-03011	18	6	B	6	5.7	-	6	70	7,200	Free	Free	Free	Free	Free	
08-00527-03002	20	6	B	6	5.7	-	6	70	7,200	Free	Free	Free	Free	Free	
08-00527-03003	25	6	B	6	5.7	-	6	70	7,200	Free	Free	Free	Free	Free	
08-00527-03004	30	6	B	6	5.7	-	6	80	7,400	Free	Free	Free	Free	Free	
08-00527-03007	35	6	B	6	5.7	-	6	85	7,400	Free	Free	Free	Free	Free	
08-00527-03005	40	6	B	6	5.7	-	6	90	8,000	Free	Free	Free	Free	Free	
08-00527-03006	50	6	B	6	5.7	-	6	120	8,700	Free	Free	Free	Free	Free	
08-00527-03008	60	6	B	6	5.7	-	6	120	9,400	Free	Free	Free	Free	Free	