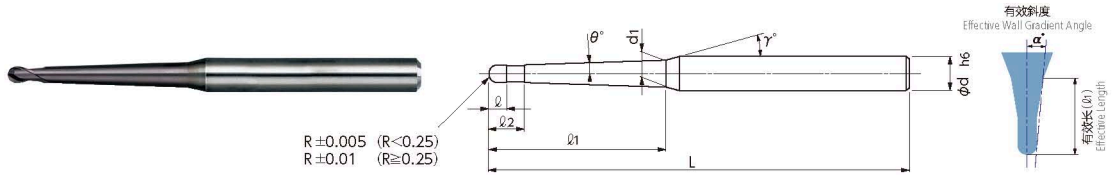


MRBTN230

无限涂层 长颈锥形球头铣刀

MUGEN-COATING 2-Flute Long Taper Neck Ball End Mill



- 颈部为锥形设计，提高了刀具刚性。
- 与传统产品相比，可设定较大的切深量。
- It is possible to increase rigidity with the neck taper.
- The volume of depth of cut will be more than conventional end mills.



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
◎	◎	◎	◎	◎	○	◎	◎	◎

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

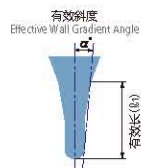
产品代码 Code No.	(R)球头半径 Radius	(θ)颈角 Neck Taper Angle	(L1)有效长 Effective Length	(d1)颈径 Neck Dia.	(L)刃长 Length of Cut	(L1)颈长 Under Neck Taper Length	(γ)颈角2 Neck Taper Angle 2	(α)有效斜度 Effective Wall Gradient Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00570-01020	R0.1	30°	1	0.21	0.2	0.4	12°	0° 19'	4	50	9,000
08-00570-01021			1.5	0.22	0.2	0.4	12°	0° 23'	4	50	9,600
08-00570-01022			2	0.23	0.2	0.4	12°	0° 25'	4	50	10,100
08-00570-01040		1°	1	0.22	0.2	0.4	12°	0° 38'	4	50	9,000
08-00570-01041			1.5	0.24	0.2	0.4	12°	0° 47'	4	50	9,600
08-00570-01042			2	0.26	0.2	0.4	12°	0° 51'	4	50	10,100
08-00570-01050		1° 30'	1	0.23	0.2	0.4	12°	0° 57'	4	50	9,000
08-00570-01051			1.5	0.26	0.2	0.4	12°	1° 11'	4	50	9,600
08-00570-01052			2	0.28	0.2	0.4	12°	1° 16'	4	50	10,100
08-00570-01060		2°	1	0.24	0.2	0.4	12°	1° 16'	4	50	9,000
08-00570-01061			1.5	0.28	0.2	0.4	12°	1° 35'	4	50	9,600
08-00570-01062			2	0.31	0.2	0.4	12°	1° 41'	4	50	10,100
08-00570-01080		3°	1	0.26	0.2	0.4	12°	1° 54'	4	50	9,000
08-00570-01081			1.5	0.32	0.2	0.4	12°	2° 21'	4	50	9,600
08-00570-01082			2	0.37	0.2	0.4	12°	2° 32'	4	50	10,100
08-00570-01092		5°	2	0.48	0.2	0.4	12°	4° 13'	4	50	10,100
08-00570-01521	R0.15	30°	3	0.34	0.3	0.6	12°	0° 25'	4	50	10,100
08-00570-01540		1°	2	0.35	0.3	0.6	12°	0° 45'	4	50	9,600
08-00570-01541			3	0.38	0.3	0.6	12°	0° 51'	4	50	10,100
08-00570-01550		1° 30'	2	0.37	0.3	0.6	12°	1° 08'	4	50	9,600
08-00570-01551			3	0.43	0.3	0.6	12°	1° 16'	4	50	10,100
08-00570-01561		2°	3	0.47	0.3	0.6	12°	1° 41'	4	50	10,100
08-00570-01581		3°	3	0.55	0.3	0.6	12°	2° 32'	4	50	10,100
08-00570-01591		5°	3	0.72	0.3	0.6	12°	4° 13'	4	50	10,100
08-00570-02021		30°	2	0.42	0.4	0.8	12°	0° 20'	4	50	7,400
08-00570-02023			3	0.44	0.4	0.8	12°	0° 24'	4	50	7,400
08-00570-02022			4	0.46	0.4	0.8	12°	0° 25'	4	50	7,400
08-00570-02041		1°	2	0.44	0.4	0.8	12°	0° 40'	4	50	7,400
08-00570-02043			3	0.48	0.4	0.8	12°	0° 47'	4	50	7,400
08-00570-02042			4	0.51	0.4	0.8	12°	0° 51'	4	50	7,400

订购方法

请指定MRBTN230 球头半径(R)×颈角(θ)×有效长(L1)。
When you order, indicate MRBTN230 (R)×(θ)×(L1).

※(γ)为参考值。
※(γ) is reference value.

- 切削参数表记载于第E-065页
- Recommended Milling Conditions are shown on page E-065.



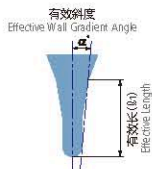
产品代码 Code No.	(R)球头半径 Radius	(θ)颈角 Neck Taper Angle	(L1)有效长 Effective Length	(d1)颈径 Neck Dia.	(L)刃长 Length of Cut	(L1)颈长 Under Neck Taper length	(γ)颈角2 Neck Taper Angle 2	(α)有效斜度 Effective Wall Gradient Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00570-02051	R0.2	1°30′	2	0.46	0.4	0.8	12°	1° 00′	4	50	7,400
08-00570-02053			3	0.52	0.4	0.8	12°	1° 11′	4	50	7,400
08-00570-02052			4	0.57	0.4	0.8	12°	1° 16′	4	50	7,400
08-00570-02061		2°	2	0.48	0.4	0.8	12°	1° 20′	4	50	7,400
08-00570-02063			3	0.55	0.4	0.8	12°	1° 34′	4	50	7,400
08-00570-02062			4	0.62	0.4	0.8	12°	1° 41′	4	50	7,400
08-00570-02081		3°	2	0.53	0.4	0.8	12°	2° 00′	4	50	7,400
08-00570-02082			4	0.74	0.4	0.8	12°	2° 31′	4	50	7,400
08-00570-02092		5°	4	0.96	0.4	0.8	12°	4° 13′	4	50	7,400
08-00570-02521	R0.25	30′	3	0.53	0.5	1	12°	0° 22′	4	50	7,000
08-00570-02522			5	0.57	0.5	1	12°	0° 25′	4	50	7,200
08-00570-02541		1°	3	0.57	0.5	1	12°	0° 44′	4	50	7,000
08-00570-02542			5	0.64	0.5	1	12°	0° 51′	4	50	7,200
08-00570-02551		1°30′	3	0.6	0.5	1	12°	1° 06′	4	50	7,000
08-00570-02552			5	0.71	0.5	1	12°	1° 16′	4	50	7,200
08-00570-02561		2°	3	0.64	0.5	1	12°	1° 27′	4	50	7,000
08-00570-02562			5	0.78	0.5	1	12°	1° 41′	4	50	7,200
08-00570-02581		3°	3	0.71	0.5	1	12°	2° 11′	4	50	7,000
08-00570-02582			5	0.92	0.5	1	12°	2° 32′	4	50	7,200
08-00570-02592		5°	5	1.2	0.5	1	12°	4° 13′	4	50	7,200
08-00570-03021	R0.3	30′	5	0.67	0.6	1.2	12°	0° 24′	4	50	6,900
08-00570-03022			8	0.72	0.6	1.2	12°	0° 27′	4	50	7,100
08-00570-03040		1°	4	0.7	0.6	1.2	12°	0° 45′	4	50	6,600
08-00570-03041			5	0.73	0.6	1.2	12°	0° 49′	4	50	6,900
08-00570-03043			6	0.77	0.6	1.2	12°	0° 51′	4	50	6,900
08-00570-03042			8	0.84	0.6	1.2	12°	0° 53′	4	50	7,100
08-00570-03051		1°30′	5	0.8	0.6	1.2	12°	1° 13′	4	50	6,900
08-00570-03052			8	0.96	0.6	1.2	12°	1° 19′	4	50	7,100
08-00570-03061		2°	6	0.94	0.6	1.2	12°	1° 41′	4	50	6,900
08-00570-03062			8	1.07	0.6	1.2	12°	1° 46′	4	50	7,100
08-00570-03081		3°	6	1.1	0.6	1.2	12°	2° 32′	4	50	6,900
08-00570-03082			8	1.31	0.6	1.2	12°	2° 39′	4	50	7,100
08-00570-03092		5°	8	1.79	0.6	1.2	12°	4° 25′	4	50	7,100
08-00570-04021	R0.4	30′	8	0.91	0.8	1.6	12°	0° 25′	4	50	7,400
08-00570-04022			12	0.98	0.8	1.6	12°	0° 27′	4	60	7,800
08-00570-04041		1°	8	1.02	0.8	1.6	12°	0° 50′	4	50	7,400
08-00570-04042			12	1.16	0.8	1.6	12°	0° 54′	4	60	7,800
08-00570-04051		1°30′	8	1.14	0.8	1.6	12°	1° 16′	4	50	7,400
08-00570-04052			12	1.34	0.8	1.6	12°	1° 21′	4	60	7,800
08-00570-04061		2°	8	1.25	0.8	1.6	12°	1° 42′	4	50	7,400
08-00570-04062			12	1.53	0.8	1.6	12°	1° 48′	4	60	7,800

CBN铣刀 Cubic Boron Nitride	钻石铣刀 Diamond	涂层 Coating	PC·D涂层 PC·Diamond
平底铣刀 Square	长颈平底 Long Neck Square	涂层 Coating	无涂层 Non-Coating
球头铣刀 Ball	长颈球头 Long Neck Ball	涂层 Coating	无涂层 Non-Coating
圆鼻铣刀 Radius	长颈圆鼻 Long Neck Radius	涂层 Coating	无涂层 Non-Coating
锥形铣刀 Taper	锥形球头 Taper Ball	涂层 Coating	无涂层 Non-Coating
倒角刀 Chamfering	倒角刀 Chamfering	涂层 Coating	无涂层 Non-Coating

MRBTN230

无限涂层 长颈锥形球头铣刀

MUGEN-COATING 2-Flute Long Taper 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	(θ)颈角 Neck Taper Angle	(ℓ1)有效长 Effective Length	(d1)颈径 Neck Dia.	(ℓ)刃长 Length of Cut	(ℓ1)颈长 Under Neck Taper length	(γ)颈角2 Neck Taper Angle 2	(α)有效斜度 Effective Wall Gradient Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00570-04081	R0.4	3°	8	1.47	0.8	1.6	12°	2° 31'	4	50	7,400
08-00570-04082			12	1.89	0.8	1.6	12°	2° 41'	4	60	7,800
08-00570-05021	R0.5	30°	10	1.14	1	2	12°	0° 25'	4	60	6,300
08-00570-05022			15	1.23	1	2	12°	0° 27'	4	60	6,600
08-00570-05023			20	1.31	1	2	12°	0° 28'	4	70	8,000
08-00570-05024			25	1.41	1	2	12°	0° 29'	4	70	8,500
08-00570-05039		1°	6	1.14	1	2	12°	0° 43'	4	60	5,200
08-00570-05040			8	1.21	1	2	12°	0° 48'	4	60	5,700
08-00570-05041			10	1.28	1	2	12°	0° 50'	4	60	6,300
08-00570-05044			12	1.35	1	2	12°	0° 52'	4	60	6,300
08-00570-05042			15	1.45	1	2	12°	0° 54'	4	60	6,600
08-00570-05045			16	1.49	1	2	12°	0° 54'	4	60	6,600
08-00570-05043			20	1.63	1	2	12°	0° 55'	4	70	8,000
08-00570-05046			22	1.7	1	2	12°	0° 56'	4	70	8,200
08-00570-05047			25	1.8	1	2	12°	0° 56'	4	70	8,500
08-00570-05049		1° 30'	6	1.21	1	2	12°	1° 05'	4	60	5,200
08-00570-05050			8	1.31	1	2	12°	1° 12'	4	60	5,700
08-00570-05051			10	1.42	1	2	12°	1° 16'	4	60	6,300
08-00570-05054			12	1.52	1	2	12°	1° 18'	4	60	6,300
08-00570-05052			15	1.68	1	2	12°	1° 21'	4	60	6,600
08-00570-05055			16	1.73	1	2	12°	1° 21'	4	60	6,600
08-00570-05053			20	1.94	1	2	12°	1° 23'	4	70	8,000
08-00570-05056			22	2.05	1	2	12°	1° 24'	4	70	8,200
08-00570-05057			25	2.2	1	2	12°	1° 24'	4	70	8,500
08-00570-05059			36	2.78	1	2	12°	1° 26'	4	70	9,300
08-00570-05061		2°	10	1.56	1	2	12°	1° 41'	4	60	6,300
08-00570-05062			15	1.91	1	2	12°	1° 48'	4	60	6,600
08-00570-05063			20	2.26	1	2	12°	1° 51'	4	70	8,000
08-00570-05081		3°	10	1.84	1	2	12°	2° 31'	4	60	6,300
08-00570-05082			15	2.36	1	2	12°	2° 41'	4	60	6,600
08-00570-05083			20	2.89	1	2	12°	2° 46'	4	70	8,000
08-00570-05092		5°	15	3.27	1	2	12°	4° 28'	6	60	8,500
08-00570-05093			20	4.15	1	2	12°	4° 37'	6	70	9,700
08-00570-06021	R0.6	30°	12	1.37	1.2	2.4	12°	0° 25'	4	60	7,200
08-00570-06022			24	1.58	1.2	2.4	12°	0° 28'	4	70	8,900
08-00570-06041		1°	12	1.54	1.2	2.4	12°	0° 51'	4	60	7,200
08-00570-06042			24	1.95	1.2	2.4	12°	0° 55'	4	70	8,900
08-00570-06051		1° 30'	12	1.7	1.2	2.4	12°	1° 16'	4	60	7,200
08-00570-06052			24	2.33	1.2	2.4	12°	1° 23'	4	70	8,900
08-00570-06061		2°	12	1.87	1.2	2.4	12°	1° 41'	4	60	7,200
08-00570-06062			24	2.71	1.2	2.4	12°	1° 51'	4	70	8,900

订购方法

请指定MRBTN230 球头半径(R)×颈角(θ)×有效长(ℓ1)。

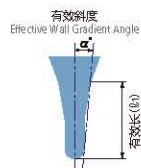
When you order, indicate MRBTN230 (R)×(θ)×(ℓ1).

※(γ)为参考值。

※(γ) is reference value.

●切削参数表记载于第E-065页

●Recommended Milling Conditions are shown on page E-065.



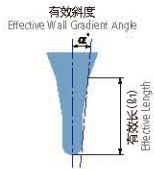
产品代码 Code No.	(R)球头半径 Radius	(θ)颈角 Neck Taper Angle	(L1)有效长 Effective Length	(d1)颈径 Neck Dia.	(L)刃长 Length of Cut	(L1)颈长 Under Neck Taper length	(γ)颈角2 Neck Taper Angle 2	(α)有效斜度 Effective Wall Gradient Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00570-06081	R0.6	3°	12	2.21	1.2	2.4	12°	2° 32'	4	60	7,200
08-00570-06082			24	3.46	1.2	2.4	12°	2° 46'	6	70	9,700
08-00570-06091		5°	12	2.88	1.2	2.4	12°	4° 13'	4	60	7,200
08-00570-06092			24	4.98	1.2	2.4	12°	4° 37'	6	70	9,700
08-00570-07520	R0.75	30°	10	1.62	1.5	3	12°	0° 23'	4	60	6,600
08-00570-07521			15	1.71	1.5	3	12°	0° 25'	4	60	7,200
08-00570-07522			30	1.97	1.5	3	12°	0° 28'	4	70	10,100
08-00570-07540		1°	10	1.74	1.5	3	12°	0° 45'	4	60	6,600
08-00570-07541			15	1.92	1.5	3	12°	0° 51'	4	60	7,200
08-00570-07543			20	2.09	1.5	3	12°	0° 53'	4	60	8,000
08-00570-07542			30	2.44	1.5	3	12°	0° 55'	4	70	10,100
08-00570-07550		1° 30'	10	1.87	1.5	3	12°	1° 08'	4	60	6,600
08-00570-07551			15	2.13	1.5	3	12°	1° 16'	4	60	7,200
08-00570-07552			30	2.91	1.5	3	12°	1° 23'	4	70	10,100
08-00570-07560		2°	10	1.99	1.5	3	12°	1° 31'	4	60	6,600
08-00570-07561			15	2.34	1.5	3	12°	1° 41'	4	60	7,200
08-00570-07563			20	2.69	1.5	3	12°	1° 46'	4	60	8,800
08-00570-07562			30	3.39	1.5	3	12°	1° 51'	6	70	11,200
08-00570-07581		3°	15	2.76	1.5	3	12°	2° 32'	4	60	7,200
08-00570-07583			20	3.28	1.5	3	12°	2° 39'	4	60	8,800
08-00570-07582			30	4.33	1.5	3	12°	2° 46'	6	70	11,200
08-00570-07591		5°	15	3.6	1.5	3	12°	4° 13'	6	60	8,000
08-00570-07592			28.7	6	1.5	3	12°	4° 36'	6	70	11,200
08-00570-10019	R1	30°	12	2.14	2	4	12°	0° 21'	4	60	5,800
08-00570-10020			16	2.21	2	4	12°	0° 24'	4	60	6,000
08-00570-10021			20	2.28	2	4	12°	0° 25'	4	60	7,200
08-00570-10022			30	2.45	2	4	12°	0° 27'	4	70	8,800
08-00570-10023			40	2.63	2	4	12°	0° 28'	4	80	10,400
08-00570-10039		1°	12	2.28	2	4	12°	0° 43'	4	60	5,800
08-00570-10040			16	2.42	2	4	12°	0° 48'	4	60	6,000
08-00570-10041			20	2.56	2	4	12°	0° 51'	4	60	7,200
08-00570-10044			25	2.73	2	4	12°	0° 53'	4	60	8,000
08-00570-10042			30	2.91	2	4	12°	0° 54'	4	70	8,800
08-00570-10045		1° 30'	35	3.08	2	4	12°	0° 55'	4	80	11,400
08-00570-10043			40	3.26	2	4	12°	0° 55'	6	80	12,000
08-00570-10049			12	2.42	2	4	12°	1° 05'	4	60	5,800
08-00570-10050			16	2.63	2	4	12°	1° 12'	4	60	6,000
08-00570-10051			20	2.84	2	4	12°	1° 16'	4	60	7,200
08-00570-10054			25	3.1	2	4	12°	1° 19'	4	60	8,000
08-00570-10052			30	3.36	2	4	12°	1° 21'	6	70	10,400
08-00570-10055			35	3.62	2	4	12°	1° 22'	6	80	11,400
08-00570-10053			40	3.89	2	4	12°	1° 23'	6	80	12,000

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

MRBTN230

无限涂层 长颈锥形球头铣刀

MUGEN-COATING 2-Flute Long Taper 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	(θ)颈角 Neck Taper Angle	(ℓ1)有效长 Effective Length	(d1)颈径 Neck Dia.	(ℓ)刃长 Length of Cut	(ℓ1)颈长 Under Neck Taper Length	(γ)颈角2 Neck Taper Angle 2	(α)有效斜度 Effective Wall Gradient Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00570-10059	R1	2°	12	2.56	2	4	12°	1° 27′	4	60	5,800
08-00570-10060			16	2.84	2	4	12°	1° 36′	4	60	6,000
08-00570-10061			20	3.12	2	4	12°	1° 41′	4	60	7,600
08-00570-10062			30	3.82	2	4	12°	1° 48′	6	70	10,400
08-00570-10063			40	4.51	2	4	12°	1° 51′	6	80	12,000
08-00570-10079		3°	12	2.84	2	4	12°	2° 11′	4	60	5,800
08-00570-10080			16	3.26	2	4	12°	2° 24′	4	60	6,000
08-00570-10081			20	3.68	2	4	12°	2° 31′	6	70	8,000
08-00570-10082			30	4.73	2	4	12°	2° 41′	6	70	10,400
08-00570-10083			40	5.77	2	4	12°	2° 46′	6	80	12,000
08-00570-10091		5°	20	4.8	2	4	12°	4° 13′	6	70	11,000
08-00570-10092			26.8	6	2	4	—	4° 25′	6	70	11,800
08-00570-10093			38.2	8	2	4	—	4° 36′	8	80	20,000
08-00570-15018	R1.5	30′	15	3.16	3	6	12°	0° 20′	6	70	8,000
08-00570-15019			20	3.24	3	6	12°	0° 22′	6	70	8,500
08-00570-15020			30	3.43	3	6	12°	0° 26′	6	70	9,900
08-00570-15022			40	3.6	3	6	12°	0° 27′	6	80	11,000
08-00570-15021			50	3.77	3	6	12°	0° 27′	6	90	12,800
08-00570-15038		1°	15	3.31	3	6	12°	0° 39′	6	70	8,000
08-00570-15039			20	3.49	3	6	12°	0° 45′	6	70	8,500
08-00570-15040			30	3.84	3	6	12°	0° 51′	6	70	9,900
08-00570-15042			40	4.19	3	6	12°	0° 53′	6	80	11,000
08-00570-15041			50	4.54	3	6	12°	0° 54′	6	90	12,800
08-00570-15048		1° 30′	15	3.47	3	6	12°	1° 00′	6	70	8,000
08-00570-15049			20	3.73	3	6	12°	1° 07′	6	70	8,500
08-00570-15050			30	4.26	3	6	12°	1° 16′	6	70	9,900
08-00570-15052			40	4.78	3	6	12°	1° 19′	6	80	11,000
08-00570-15051			50	5.3	3	6	12°	1° 22′	6	90	12,800
08-00570-15058		2°	15	3.63	3	6	12°	1° 20′	6	70	8,000
08-00570-15059			20	3.98	3	6	12°	1° 31′	6	70	8,500
08-00570-15060			30	4.68	3	6	12°	1° 41′	6	70	11,500
08-00570-15061			48.9	6	3	6	—	1° 49′	6	90	12,800
08-00570-15079		3°	20	4.47	3	6	12°	2° 16′	6	70	9,000
08-00570-15080			30	5.52	3	6	12°	2° 32′	6	70	11,500
08-00570-15081			50	7.61	3	6	12°	2° 43′	8	90	21,100
08-00570-15091		5°	23.1	6	3	6	—	3° 58′	6	70	12,800
08-00570-20019	R2	30′	20	4.21	4	8	12°	0° 19′	6	70	10,600
08-00570-20020			40	4.56	4	8	12°	0° 25′	6	90	14,000
08-00570-20021			60	4.91	4	8	12°	0° 27′	6	110	16,000
08-00570-20039		1°	20	4.42	4	8	12°	0° 40′	6	70	10,600
08-00570-20040			40	5.12	4	8	12°	0° 50′	6	90	14,000
08-00570-20041			60	5.82	4	8	12°	0° 54′	6	110	16,000

订购方法

请指定MRBTN230 球头半径(R)×颈角(θ)×有效长(ℓ1)。
When you order, indicate MRBTN230 (R)×(θ)×(ℓ1).

※(γ)为参考值。

※(γ) is reference value.

●切削参数表记载于第E-065页

●Recommended Milling Conditions are shown on page E-065.