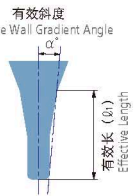
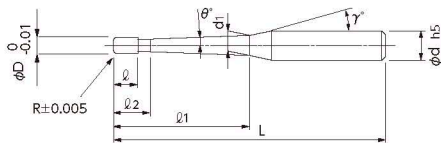


MSTNR230

无限涂层 长颈锥形圆鼻铣刀

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



- 进行从半粗加工到超精加工的切削时可抑制振刀，实现稳定的高速切削，提高了加工面精度。
- 角部R精度高达 $\pm 5\mu\text{m}$ ！
- 经过优化之后的无限涂层，可广泛应用于从淬火钢、调质钢的直接切削到铜电极加工等各种不同的领域。
- Improve surface overall accuracy brought by high speed cutting with minimal chattering in roughing to finishing process.
- High R-Accuracy: $\pm 5\mu\text{m}$.
- Better performance in wide range of machining of direct carving on Hardened Steels, Prehardened Steels and Copper Electrode.

硬质合金
MG

无限
涂层

2



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.	(D)刃径 Dia.	(R)角半径 Corner Radius	(θ)颈角 Neck Taper Angle	(L1)有效长 Effective Length	(d1)颈径 Neck Dia.	(L)刃长 Length of Cut	(L2)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
08-00770-02211	0.2	R0.05	1°	1	0.22	0.15	0.4	12°	0°38'	4	50	13,000
08-00770-02212				2	0.26				0°49'		50	13,000
08-00770-02231			3°	1	0.26				1°54'		50	13,000
08-00770-02232				2	0.37				2°28'		50	13,000
08-00770-02251			5°	1	0.3				3°10'		50	13,000
08-00770-02252				2	0.48				4°07'		50	13,000
08-00770-03211	0.3	R0.05	1°	2	0.35	0.25	0.6	12°	0°43'	4	50	13,000
08-00770-03212				3	0.38				0°49'		50	13,000
08-00770-03231			3°	2	0.45				2°10'		50	13,000
08-00770-03232				3	0.55				2°27'		50	13,000
08-00770-03251			5°	2	0.54				3°35'		50	13,000
08-00770-03252				3	0.72				4°04'		50	13,000
08-00770-04211	0.4	R0.05	1°	3	0.48	0.3	0.8	12°	0°45'	4	50	9,700
08-00770-04212				4	0.51				0°49'		50	9,700
08-00770-04231			3°	3	0.63				2°14'		50	9,700
08-00770-04232				4	0.74				2°26'		50	9,700
08-00770-04251			5°	3	0.78				3°44'		50	9,700
08-00770-04252				4	0.96				4°03'		50	9,700
08-00770-04311		R0.1	1°	3	0.48				0°46'		50	9,700
08-00770-04312				4	0.51				0°49'		50	9,700
08-00770-04331			3°	3	0.63				2°17'		50	9,700
08-00770-04332				4	0.74				2°28'		50	9,700
08-00770-04351			5°	3	0.78				3°48'		50	9,700
08-00770-04352				4	0.96				4°07'		50	9,700
08-00770-05211	0.5	R0.05	1°	3	0.57	0.4	1	12°	0°41'	4	50	8,900
08-00770-05212				5	0.64				0°49'		50	9,300
08-00770-05213				8	0.74				0°53'		50	9,600
08-00770-05214				10	0.81				0°54'		50	10,600
08-00770-05215				12	0.88				0°55'		50	10,600

订购方法

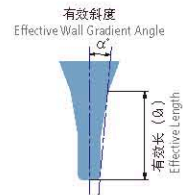
请指定MSTNR230 刃径(D)×(R)角半径×颈角(θ)×有效长(L1)。
When you order, indicate MSTNR230 (D)×(R)×(θ)×(L1).

※(γ)为参考值。

※(γ) is reference value.

- 切削参数表记载于第F-045页

- Recommended Milling Conditions are shown on page F-045.



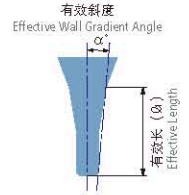
产品代码 Code No.	(D)刃径 Dia.	(R)角半径 Corner Radius	(θ)颈角 Neck Taper Angle	(L1)有效长 Effective Length	(d1)颈径 Neck Dia.	(L)刃长 Length of Cut	(L2)颈长 Under Neck Taper Length	(γ)颈角2 Neck Taper Angle 2	(α)有效斜度 Effective Wall Gradient Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00770-05231	0.5	R0.05	3°	3	0.71	0.4	1	12°	2°02'	4	50	9,600
08-00770-05232				5	0.92				2°25'		50	9,600
08-00770-05233				8	1.23				2°38'		50	10,600
08-00770-05234				10	1.44				2°43'		50	10,600
08-00770-05235				12	1.65				2°46'		50	10,600
08-00770-05251			5°	3	0.85				3°23'		50	9,600
08-00770-05252				5	1.2				4°02'		50	9,600
08-00770-05253				8	1.72				4°25'		50	10,600
08-00770-05254				10	2.07				4°32'		50	10,600
08-00770-05311		R0.1	1°	3	0.57				0°41'		50	8,900
08-00770-05312				5	0.64				0°49'		50	9,300
08-00770-05313				8	0.74				0°53'		50	9,600
08-00770-05314				10	0.81				0°55'		50	10,600
08-00770-05315				12	0.88				0°55'		50	10,600
08-00770-05331			3°	3	0.71				2°04'		50	9,600
08-00770-05332				5	0.92				2°27'		50	9,600
08-00770-05333				8	1.23				2°40'		50	10,600
08-00770-05334				10	1.44				2°44'		50	10,600
08-00770-05335				12	1.65				2°46'		50	10,600
08-00770-05351			5°	3	0.85				3°27'		50	9,600
08-00770-05352				5	1.2				4°05'		50	9,600
08-00770-05353				8	1.72				4°26'		50	10,600
08-00770-05354				10	2.07				4°33'		50	10,600
08-00770-08211	0.8	R0.05	1°	5	0.92	0.65	1.6	12°	0°41'	4	50	9,200
08-00770-08212				8	1.02				0°48'		50	9,600
08-00770-08231			3°	5	1.16				2°04'		50	10,000
08-00770-08232				8	1.47				2°25'		50	10,400
08-00770-08311		R0.1	1°	5	0.92				0°42'		50	9,200
08-00770-08312				8	1.02				0°49'		50	9,600
08-00770-08331			3°	5	1.16				2°05'		50	10,000
08-00770-08332				8	1.47				2°26'		50	10,400
08-00770-08411		R0.2	1°	5	0.92				0°43'		50	9,200
08-00770-08412				8	1.02				0°49'		50	9,600
08-00770-08431			3°	5	1.16				2°07'		50	10,000
08-00770-08432				8	1.47				2°28'		50	10,400
08-00770-10211	1	R0.05	1°	6	1.14	0.8	2	12°	0°40'	4	50	8,000
08-00770-10212				10	1.28				0°48'		60	8,000
08-00770-10213				15	1.45				0°52'		60	8,400
08-00770-10214				20	1.63				0°54'		60	9,500

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

MSTNR230

无限涂层 长颈锥形圆鼻铣刀

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



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

产品代码 Code No.	(D)刃径 Dia	(R)角半径 Corner Radius	(θ)颈角 Neck Taper Angle	(L1)有效长 Effective Length	(d1)颈径 Neck Dia.	(L)刃长 Length of Cut	(L2)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
08-00770-10215	1	R0.05	1°	25	1.8	0.8	2	12°	0°55′	4	70	11,200
08-00770-10216				30	1.98				0°56′		80	11,600
08-00770-10217				35	2.15				0°56′		80	13,800
08-00770-10231			3°	6	1.42				2°01′		50	8,000
08-00770-10232				10	1.84				2°25′		60	8,000
08-00770-10311		R0.1	1°	6	1.14				0°41′		50	8,000
08-00770-10312				10	1.28				0°49′		60	8,000
08-00770-10313				15	1.45				0°52′		60	8,400
08-00770-10314				20	1.63				0°54′		60	9,500
08-00770-10315				25	1.8				0°55′		70	11,200
08-00770-10316				30	1.98				0°56′		80	11,600
08-00770-10317				35	2.15				0°57′		80	13,800
08-00770-10331			3°	6	1.42				2°02′		50	8,000
08-00770-10332				10	1.84				2°26′		60	8,000
08-00770-10411		R0.2	1°	6	1.14				0°41′		50	8,000
08-00770-10412				10	1.28				0°49′		60	8,000
08-00770-10413				15	1.45				0°53′		60	8,400
08-00770-10414				20	1.63				0°55′		60	9,500
08-00770-10415				25	1.8				0°56′		70	11,200
08-00770-10416				30	1.98				0°56′		80	11,600
08-00770-10417				35	2.15				0°57′		80	13,800
08-00770-10431			3°	6	1.42				2°04′		50	8,000
08-00770-10432				10	1.84				2°27′		60	8,000
08-00770-10511		R0.3	1°	6	1.14				0°42′		50	8,000
08-00770-10512				10	1.28				0°49′		60	8,000
08-00770-10513				15	1.45				0°53′		60	8,400
08-00770-10514				20	1.63				0°55′		60	9,500
08-00770-10515				25	1.8				0°56′		70	11,200
08-00770-10516				30	1.98				0°56′		80	11,600
08-00770-10517				35	2.15				0°57′		80	13,800
08-00770-10531			3°	6	1.42				2°06′		50	8,000
08-00770-10532				10	1.84				2°29′		60	8,000
08-00770-15311	1.5	R0.1	1°	10	1.74	1.2	3	12°	0°43′	4	60	8,600
08-00770-15312				15	1.92				0°49′		60	9,400
08-00770-15313				20	2.09				0°51′		60	10,300
08-00770-15314				25	2.27				0°53′		70	10,800
08-00770-15315				30	2.44				0°54′		80	13,000
08-00770-15331			3°	10	2.23				2°07′		60	8,600
08-00770-15332				15	2.76				2°25′		60	9,400

订购方法

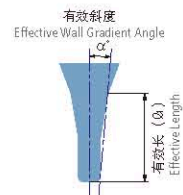
请指定MSTNR230 刃径(D)×(R)角半径×颈角(θ)×有效长(L1)。 ※(γ)为参考值。

When you order, indicate MSTNR230 (D)×(R)×(θ)×(L1).

※(γ) is reference value.

●切削参数表记载于第F-045页

●Recommended Milling Conditions are shown on page F-045.



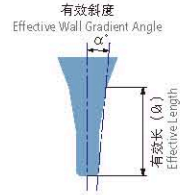
产品代码 Code No.	(D)刃径 Dia.	(R)角半径 Corner Radius	(θ)颈角 Neck Taper Angle	(L1)有效长 Effective Length	(d1)颈径 Neck Dia.	(L)刃长 Length of Cut	(L1)颈长 Under Neck Taper Length	(γ)颈角2 Neck Taper Angle 2	(α)有效斜度 Effective Wall Gradient Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00770-15411	1.5	R0.2	1°	10	1.74	1.2	3	12°	0°43'	4	60	8,600
08-00770-15412				15	1.92				0°49'		60	9,400
08-00770-15413				20	2.09				0°52'		60	10,300
08-00770-15414				25	2.27				0°53'		70	10,800
08-00770-15415				30	2.44				0°55'		80	13,000
08-00770-15431			3°	10	2.23				2°08'		60	8,600
08-00770-15432				15	2.76				2°26'		60	9,400
08-00770-15511		R0.3	1°	10	1.74				0°43'		60	8,600
08-00770-15512				15	1.92				0°49'		60	9,400
08-00770-15513				20	2.09				0°52'		60	10,300
08-00770-15514				25	2.27				0°53'		70	10,800
08-00770-15515				30	2.44				0°55'		80	13,000
08-00770-15531			3°	10	2.23				2°10'		60	8,600
08-00770-15532				15	2.76				2°27'		60	9,400
08-00770-20311	2	R0.1	1°	15	2.38	1.6	4	12°	0°44'	4	60	8,600
08-00770-20312				20	2.56				0°48'		60	8,600
08-00770-20313				25	2.73				0°50'		70	10,200
08-00770-20314				30	2.91				0°52'		80	11,500
08-00770-20315				40	3.26				0°54'		80	15,400
08-00770-20316				50	3.61				0°55'		100	17,100
08-00770-20331			3°	15	3.15				2°13'		60	8,600
08-00770-20332				20	3.68				2°25'		60	8,600
08-00770-20411		R0.2	1°	15	2.38				0°44'		60	8,600
08-00770-20412				20	2.56				0°49'		60	8,600
08-00770-20413				25	2.73				0°51'		70	10,200
08-00770-20414				30	2.91				0°52'		80	11,500
08-00770-20415				40	3.26				0°54'		80	15,400
08-00770-20416				50	3.61				0°55'		100	17,100
08-00770-20431			3°	15	3.15				2°14'		60	8,600
08-00770-20432				20	3.68				2°25'		60	8,600
08-00770-20511		R0.3	1°	15	2.38				0°45'		60	8,600
08-00770-20512				20	2.56				0°49'		60	8,600
08-00770-20513				25	2.73				0°51'		70	10,200
08-00770-20514				30	2.91				0°53'		80	11,500
08-00770-20515				40	3.26				0°55'		80	15,400
08-00770-20516				50	3.61				0°56'		100	17,100
08-00770-20531			3°	15	3.15				2°15'		60	8,600
08-00770-20532				20	3.68				2°26'		60	8,600

CBN铣刀
Cubic Boron Nitride钻石铣刀
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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

MSTNR230

无限涂层 长颈锥形圆鼻铣刀

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



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

产品代码 Code No.	(D)刃径 Dia	(R)角半径 Corner 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
08-00770-20611	2	R0.5	1°	15	2.38	1.6	4	12°	0°46′	4	60	8,600
08-00770-20612				20	2.56				0°49′		60	8,600
08-00770-20613				25	2.73				0°52′		70	10,200
08-00770-20614				30	2.91				0°53′		80	11,500
08-00770-20615				40	3.26				0°55′		80	15,400
08-00770-20616				50	3.61				0°56′		100	17,100
08-00770-20631			3°	15	3.15				2°17′		60	8,600
08-00770-20632				20	3.68				2°28′		60	8,600
08-00770-30411	3	R0.2	1°	15	3.31	2.5	6	12°	0°37′	6	60	12,800
08-00770-30412				20	3.49				0°43′		60	12,800
08-00770-30413				30	3.84				0°49′		80	12,800
08-00770-30414				40	4.19				0°51′		80	13,800
08-00770-30415				50	4.54				0°53′		100	16,000
08-00770-30416				60	4.89				0°54′		110	17,100
08-00770-30611		R0.5	1°	15	3.31				0°37′		60	12,800
08-00770-30612				20	3.49				0°43′		60	12,800
08-00770-30613				30	3.84				0°49′		80	12,800
08-00770-30614				40	4.19				0°52′		80	13,800
08-00770-30615				50	4.54				0°53′		100	16,000
08-00770-30616				60	4.89				0°55′		110	17,100

订购方法

请指定MSTNR230 刃径(D)×(R)角半径×颈角(θ)×有效长(L1)。 ※(γ)为参考值。

When you order, indicate MSTNR230 (D)×(R)×(θ)×(L1). ※(γ) is reference value.

●切削参数表记载于第F-045页

●Recommended Milling Conditions are shown on page F-045.