

# X5070系列铣刀

## X5070 SOLID CARBIDE END MILL



X5070 CARBIDE FOR MOLD & DIE



广东优能特五金科技有限公司

Guangdong UNT Cutting Tools Co., Ltd.

# INTRODUCTION

## 公司简介

### 广东优能特五金科技有限公司

优能特是一家CNC铣削刀具的大型制造商。

优能特在中国东莞拥有一个9,000平方米的工业园区，进口了35台澳大利亚ANCA数控磨床，5台Walter数控磨床、55个工程师和35个销售员。

我们建立了ISO9001质量控制体系，使用优质稳定的德国硬质合金棒，SWISS SOERLIKON新涂层技术以提高抗氧化性和热硬度。我们进口德国ZOLLER数字测量仪器等精密测试设备，以确保稳定的尺寸精度和优良的表面质量。

我们已经成为知名品牌工具的OEM合作伙伴15年，我们的仓库1500 SQM拥有数百万库存，可在24小时内发货给立铣刀。

优能特切削刀具已分布在欧洲，亚洲，北美和许多其他城市，热销产品包括高性能硬质合金立铣刀EMC /X5070系列，HRC55硬质合金立铣刀，EMF金刚石涂层刀具，螺纹和丝锥，冷却液钻头，超微型立铣刀，用于不锈钢的EMD等，以及各种定制尺寸的CNC铣削工具。

我们拥有提供全方位服务的设计和工程人员，以及Markets销售人员，可以根据您的特定规格构建自定义工具的多层次结构。

我们的目标是帮助每个客户获得最大的利益，建立世界一流的优质切削刀具品牌。

选择好的工具，选择“优能特”精密工具！

### Guangdong UNT Cutting Tools Co., Ltd.

UNT' is a big manufacturer of CNC Milling tools.

UNT' owned an industrial park 9,000 SQM in Dongguan China, imported Australian ANCA CNC grinding machines 35 sets, Walter CNC Cutter Grinders 5 sets, and 55 engineer design teams and 30 salesmen.

We established an ISO9001 quality control system, use high-quality and stable German Carbide Rods, SWISS OERLIKON new coating technologies, to improve the oxidation resistance and hot hardness. We import Germany ZOLLER Digital Measuring Instruments, such as precision testing equipment, to ensure stable dimensional accuracy and fine surface quality.

We have been an OEM Partner for Well-known brand tools for 15 years, Our warehouse 1500 SQM with millions of in-stock, ready to shipping end mills in 24 hours.

UNT Cutting tools have been distributed in Europe, Asia, North America, and many other cities, Hot sales products include High-performance Carbide end mills EMC/X5070 series, HRC55 Carbide end mills, EMF Diamond Coated Tools, Thread & tap, Coolant drills, Super-micro end mills, EMD for Stainless steels, etc, and all kinds of custom-sized CNC Milling tools.













We have a full-service design and engineering staff, and Markets sales to build a multilevel of variations of custom tools to your specific specifications.

Our aim is to help every customer achieve maximum benefits, to build a world-class quality cutting tool brand.

Choose the good Tools, Choose "UNT" Precision Tools.



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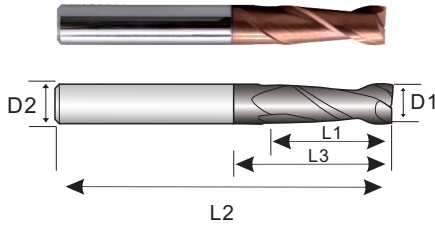
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**EMC 高硬度专用钨钢二刃平底铣刀**

**X5070 2 Flute Carbide for High hardness Steel , Regular Model**

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68的高硬度材料。
- ★ 采用优质的欧瑞康巴尔查斯涂层，进一步加强刀具的硬度和耐磨性。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Increased feed rates.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
○	○	○	●	●	○	○	○	○	○	○	○

● 非常合适 ○ 合适

**EMC01 SERIES**

Unit:mm

优能特订货代码	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	MILL Dia D1	Shank Dia D2	Flute length L1	Effective length L3	O. A. L. L2	Flutes
EMC010024	0.2	4	0.4	0.4	50	2
EMC010034	0.3	4	0.6	0.6	50	2
EMC010044	0.4	4	0.8	0.8	50	2
EMC010054	0.5	4	1	1	50	2
EMC010064	0.6	4	1.2	1.2	50	2
EMC010074	0.7	4	1.4	1.4	50	2
EMC010084	0.8	4	1.6	1.6	50	2
EMC010094	0.9	4	1.8	1.8	50	2
EMC010104	1.0	4	2	3	50	2
EMC010154	1.5	4	3	4	50	2
EMC010204	2.0	4	4	6	50	2
EMC010254	2.5	4	5	6	50	2
EMC010304	3.0	4	6	8	50	2
EMC010354	3.5	4	7	10	50	2
EMC010404	4.0	4	8	11	50	2
EMC010106	1.0	6	2	3	60	2
EMC010156	1.5	6	3	4	60	2
EMC010206	2.0	6	4	6	60	2
EMC010256	2.5	6	5	6	60	2
EMC010306	3.0	6	6	9	60	2
EMC010356	3.5	6	7	10	60	2
EMC010406	4.0	6	8	12	60	2
EMC010450	4.5	6	9	13	60	2
EMC010500	5.0	6	10	13	60	2
EMC010550	5.5	6	11	16	60	2
EMC010600	6.0	6	12	16	60	2
EMC010650	6.5	8	14	20	60	2
EMC010700	7.0	8	14	20	60	2
EMC010750	7.5	8	15	20	60	2
EMC010800	8.0	8	16	20	60	2
EMC010850	8.5	10	17	25	75	2
EMC010900	9.0	10	18	25	75	2
EMC010950	9.5	10	19	25	75	2
EMC011000	10.0	10	20	25	75	2
EMC011050	10.5	12	21	30	75	2
EMC011100	11.0	12	22	30	75	2
EMC011200	12.0	12	24	30	75	2
EMC011600	16.0	16	32	40	100	2
EMC011800	18.0	18	36	40	100	2
EMC012000	20.0	20	40	45	100	2

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求定制制作。  
Non-standard size or product parameters not listed above, can be customized according to customer needs.

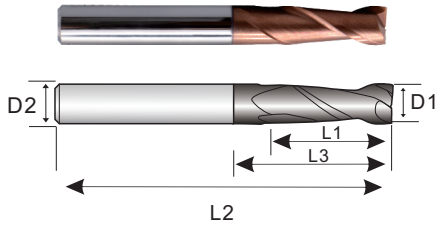
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

EMC 高硬度专用钨钢二刃加长平底铣刀

X5070 2 Flute Carbide for High hardness Steel , Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68的高硬度材料。
- ★ 采用优质的欧瑞康巴尔查斯涂层，进一步加强刀具的硬度和耐磨性。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Increased feed rates.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
○	○	○	●	●	○		○				

● 非常适合 ○ 适合

EMC02 SERIES

优能特订货代码	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Mill Dia D1	Shank Dia D2	Flute length L1	Effective length L3	O. A. L. L2	Flutes
EMC02010075	1.0	4	2.5	4	75	2
EMC02015075	1.5	4	4	6	75	2
EMC02020075	2.0	4	5	8	75	2
EMC02025075	2.5	4	6	10	75	2
EMC02030075	3.0	4	8	12	75	2
EMC02040075	4.0	4	10	16	75	2
EMC020100756	1.0	6	2.5	4	75	2
EMC020150756	1.5	6	4	6	75	2
EMC020200756	2.0	6	5	8	75	2
EMC020250756	2.5	6	6	10	75	2
EMC020300756	3.0	6	8	12	75	2
EMC020400756	4.0	6	10	16	75	2
EMC02050075	5.0	6	13	20	75	2
EMC02060075	6.0	6	15	20	75	2
EMC02060100	6.0	6	15	24	100	2
EMC02080075	8.0	8	20	24	75	2
EMC02080100	8.0	8	20	32	100	2
EMC02100100	10.0	10	25	40	100	2
EMC02120100	12.0	12	30	45	100	2
EMC02080150	8.0	8	24	36	150	2
EMC02100150	10.0	10	30	45	150	2
EMC02120150	12.0	12	36	50	150	2
EMC02160150	16.0	16	48	60	150	2

Unit:mm

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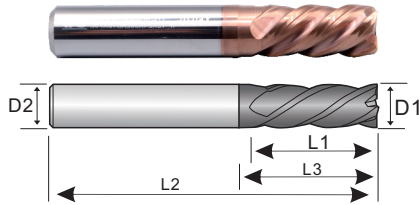
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

## EMC 高硬度专用钨钢四刃平底铣刀

## X5070 4 Flute Carbide for High hardness Steel, Regular Model

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68的高硬度材料。
- ★ 采用优质的欧瑞康巴尔查斯涂层，进一步加强刀具的硬度和耐磨性。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Increased feed rates.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
○	○	○	●	●	○		○				

● 非常适合 ○ 适合

## EMC03 SERIES

Unit:mm

优能特订货代码	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Mill Dia D1	Shank Dia D2	Flute length L1	Effective length L3	O. A. L. L2	Flutes
EMC030104	1.0	4	2	3	50	4
EMC030154	1.5	4	3	4	50	4
EMC030204	2.0	4	4	6	50	4
EMC030254	2.5	4	5	6	50	4
EMC030304	3.0	4	6	9	50	4
EMC030354	3.5	4	7	10	50	4
EMC030404	4.0	4	8	12	50	4
EMC030106	1.0	6	2	3	60	4
EMC030156	1.5	6	3	4	60	4
EMC030206	2.0	6	4	6	60	4
EMC030256	2.5	6	5	6	60	4
EMC030306	3.0	6	6	9	60	4
EMC030356	3.5	6	7	10	60	4
EMC030406	4.0	6	8	12	60	4
EMC030450	4.5	6	9	13	60	4
EMC030500	5.0	6	10	13	60	4
EMC030600	6.0	6	12	16	60	4
EMC030700	7.0	8	14	20	60	4
EMC030800	8.0	8	16	20	60	4
EMC030900	9.0	10	18	25	75	4
EMC031000	10.0	10	20	25	75	4
EMC031100	11.0	12	22	30	75	4
EMC031200	12.0	12	24	30	72	4
EMC031400	14.0	14	28	35	100	4
EMC031600	16.0	16	32	40	100	4
EMC031800	18.0	18	36	40	100	4
EMC032000	20.0	20	40	45	100	4

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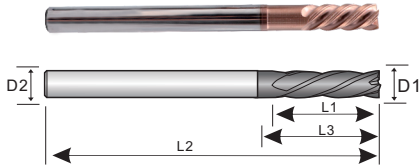
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

EMC 高硬度专用钨钢四刃加长平底铣刀

X5070 4 Flute Carbide for High hardness Steel, Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68的高硬度材料。
- ★ 采用优质的欧瑞康巴尔查斯涂层，进一步加强刀具的硬度和耐磨性。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Increased feed rates.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55							
○	○	○	●	●	○		○				

● 非常适合 ○ 适合

EMC04 SERIES

Unit:mm

优能特订货代码	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Mill Dia D1	Shank Dia D2	Flute length L1	Effective length L3	O. A. L. L2	Flutes
EMC04010075	1.0	4	2.5	4	75	4
EMC04015075	1.5	4	4	6	75	4
EMC04020075	2.0	4	5	8	75	4
EMC04025075	2.5	4	6	10	75	4
EMC04030075	3.0	4	8	12	75	4
EMC04040075	4.0	4	10	16	75	4
EMC04010675	1.0	6	2.5	4	75	4
EMC04015675	1.5	6	4	6	75	4
EMC04020675	2.0	6	5	8	75	4
EMC04025675	2.5	6	6	10	75	4
EMC04030675	3.0	6	8	12	75	4
EMC04040675	4.0	6	10	16	75	4
EMC04050075	5.0	6	12.5	20	75	4
EMC04060075	6.0	6	15	20	75	4
EMC04060100	6.0	6	15	24	100	4
EMC04080075	8.0	8	20	24	75	4
EMC04080100	8.0	8	20	32	100	4
EMC04100100	10.0	10	25	40	100	4
EMC04120100	12.0	12	30	45	100	4
EMC04080150	8.0	8	24	36	150	4
EMC04100150	10.0	10	30	45	150	4
EMC04120150	12.0	12	36	50	150	4
EMC04160150	16.0	16	48	60	150	4

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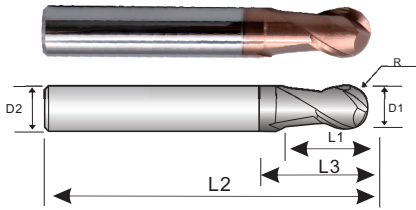
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

## EMC 高硬度专用钨钢二刃球头铣刀

## X5070 Carbide Ball Nose end mills, Regular Model

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68的高硬度材料。
- ★ 采用优质的欧瑞康巴尔查斯涂层,进一步加强刀具的硬度和耐磨性。
- ★ 切割直径小至0.01mm。
- ★ 适合用于轮廓加工、插削加工、倒角加工。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Cutter diameter down to 0.01mm.
- Profile, Slot, Chamfer design, For Copying Machine.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55							
○	○	○	●	●			○				

● 非常合适 ○ 适合

## EMC05 SERIES

Unit:mm

优能特订货代码	球半径	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Radius of Ball R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC050034	R0.15	0.3	4	0.4	0.6	50	2
EMC050044	R0.2	0.4	4	0.5	0.8	50	2
EMC050054	R0.25	0.5	4	0.6	1	50	2
EMC050064	R0.3	0.6	4	0.7	1.2	50	2
EMC050074	R0.35	0.7	4	0.8	1.4	50	2
EMC050084	R0.4	0.8	4	1	1.6	50	2
EMC050094	R0.45	0.9	4	1.2	1.8	50	2
EMC050104	R0.5	1.0	4	1.5	2	50	2
EMC050153	R0.75	1.5	4	2	3	50	2
EMC050204	R1.0	2.0	4	2.5	4	50	2
EMC050304	R1.5	3.0	4	4	6	50	2
EMC050404	R2.0	4.0	4	5	8	50	2
EMC050106	R0.5	1.0	6	1.5	2	60	2
EMC050156	R0.75	1.5	6	2	3	60	2
EMC050206	R1.0	2.0	6	2.5	4	60	2
EMC050306	R1.5	3.0	6	4	6	60	2
EMC050406	R2.0	4.0	6	5	8	60	2
EMC050500	R2.5	5.0	6	6	10	60	2
EMC050600	R3.0	6.0	6	7	12	60	2
EMC050700	R3.5	7.0	8	8	14	60	2
EMC050800	R4.0	8.0	8	9	16	60	2
EMC051000	R5.0	10.0	10	11	20	75	2
EMC051200	R6.0	12.0	12	14	24	75	2
EMC051600	R8.0	16.0	16	18	32	100	2

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求定制制作。

Non-standard size or product parameters not listed above, can be customized according to customer needs.

刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

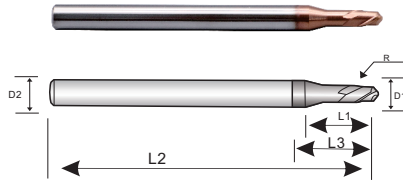


EMC 高硬度专用钨钢二刃加长球头铣刀

X5070 Carbide Ball Nose end mills, Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68的高硬度材料。
- ★ 采用优质的欧瑞康巴尔查斯涂层,进一步加强刀具的硬度和耐磨性。
- ★ 切割直径小至0.01mm。
- ★ 适合用于轮廓加工、插削加工、倒角加工。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Cutter diameter down to 0.01mm.
- Profile, Slot, Chamfer design, For Copying Machine.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55							
○	○	○	●	●			○				

● 非常适合 ○ 适合

EMC06 SERIES

Unit:mm

优能特订货代码	球半径	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Radius of Ball R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC06010075	R0.5	1.0	4	1.5	3	75	2
EMC06015075	R0.75	1.5	4	2	4	75	2
EMC06020075	R1.0	2.0	4	2.5	6	75	2
EMC06030075	R1.5	3.0	4	4	9	75	2
EMC06040075	R2.0	4.0	4	5	12	75	2
EMC060100756	R0.5	1.0	6	1.5	3	75	2
EMC060150756	R0.75	1.5	6	2	4	75	2
EMC060200756	R1.0	2.0	6	2.5	6	75	2
EMC060300756	R1.5	3.0	6	4	9	75	2
EMC060400756	R2.0	4.0	6	5	12	75	2
EMC06050075	R2.5	5.0	6	6	15	75	2
EMC06060075	R3.0	6.0	6	7	15	75	2
EMC06060100	R3.0	6.0	6	7	18	100	2
EMC06080075	R4.0	8.0	8	9	20	75	2
EMC06080100	R4.0	8.0	8	9	24	100	2
EMC06100100	R5.0	10.0	10	11	25	100	2
EMC06120100	R6.0	12.0	12	14	30	100	2
EMC06080150	R4.0	8.0	8	9	24	150	2
EMC06100150	R5.0	10.0	10	11	30	150	2
EMC06120150	R6.0	12.0	12	14	36	150	2
EMC06160150	R8.0	16.0	16	18	48	150	2

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求定制制作。  
Non-standard size or product parameters not listed above, can be customized according to customer needs.

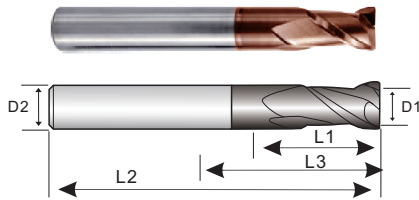
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

**EMC 高硬度专用钨钢二刃圆角铣刀**

**X5070 Carbide 2 Flute Corner Radius, Regular Model**

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68高硬度材料。
- ★ 采用优质欧瑞康巴尔查斯涂料，进一步加强刀具的硬度和耐磨性。
- ★ 生产适用于R角从0.02mm至5.0mm的圆角铣刀。
- ★ 适用于轮廓加工、中心加工、粗加工，简易安装。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.
- Profile, Center, Roughing Milling, easy to install.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55							
○	○	○	●	●			○				

● 非常适合 ○ 适合

**EMC07 SERIES**

优能特订货代码	R角	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Corner Radius R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC070101	R0.1	1.0	4	2	3	50	2
EMC070102	R0.2	1.0	4	2	3	50	2
EMC070201	R0.1	2.0	4	3	6	50	2
EMC070202	R0.2	2.0	4	3	6	50	2
EMC070203	R0.3	2.0	4	3	6	50	2
EMC070301	R0.1	3.0	4	5	8	50	2
EMC070302	R0.2	3.0	4	5	8	50	2
EMC070303	R0.3	3.0	4	5	8	50	2
EMC070305	R0.5	3.0	4	5	8	50	2
EMC070310	R1.0	3.0	4	5	8	50	2
EMC070401	R0.1	4.0	4	6	11	50	2
EMC070402	R0.2	4.0	4	6	11	50	2
EMC070403	R0.3	4.0	4	6	11	50	2
EMC070405	R0.5	4.0	4	6	11	50	2
EMC070410	R1.0	4.0	4	6	11	50	2
EMC070601	R0.1	6.0	6	10	16	60	2
EMC070602	R0.2	6.0	6	10	16	60	2
EMC070603	R0.3	6.0	6	10	16	60	2
EMC070605	R0.5	6.0	6	10	16	60	2
EMC070610	R1.0	6.0	6	10	16	60	2
EMC070615	R1.5	6.0	6	10	16	60	2
EMC070620	R2.0	6.0	6	10	16	60	2
EMC070801	R0.1	8.0	8	12	20	60	2
EMC070802	R0.2	8.0	8	12	20	60	2
EMC070803	R0.3	8.0	8	12	20	60	2
EMC070805	R0.5	8.0	8	12	20	60	2
EMC070810	R1.0	8.0	8	12	20	60	2
EMC070815	R1.5	8.0	8	12	20	60	2
EMC070820	R2.0	8.0	8	12	20	60	2
EMC071001	R0.1	10.0	10	15	25	75	2
EMC071003	R0.3	10.0	10	15	25	75	2
EMC071005	R0.5	10.0	10	15	25	75	2
EMC071010	R1.0	10.0	10	15	25	75	2

Unit:mm

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求订制作。

Non-standard size or product parameters not listed above, can be customized according to customer needs.

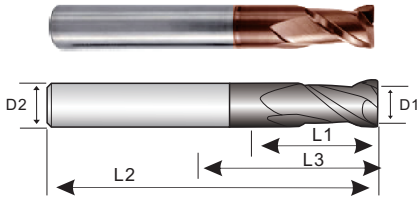
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

EMC 高硬度专用钨钢二刃圆角铣刀

X5070 Carbide 2 Flute Corner Radius, Regular Model

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68高硬度材料。
- ★ 采用优质欧瑞康巴尔查斯涂料，进一步加强刀具的硬度和耐磨性。
- ★ 生产适用于R角从0.02mm至5.0mm的圆角铣刀。
- ★ 适用于轮廓加工、中心加工、粗加工，简易安装。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.
- Profile, Center, Roughing Milling, easy to install.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	+HB225-325	+HRc30-40	HRc40-45	HRc45-55 HRc55-70							
○	○	○	●	●			○				

● 非常适合 ○ 适合

EMC07 SERIES

优能特订货代码	R角	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Corner Radius R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC071015	R1.5	10.0	10	15	25	75	2
EMC071020	R2.0	10.0	10	15	25	75	2
EMC071030	R3.0	10.0	10	15	25	75	2
EMC071201	R0.1	12.0	12	18	30	75	2
EMC071203	R0.3	12.0	12	18	30	75	2
EMC071205	R0.5	12.0	12	18	30	75	2
EMC071210	R1.0	12.0	12	18	30	75	2
EMC071215	R1.5	12.0	12	18	30	75	2
EMC071220	R2.0	12.0	12	18	30	75	2
EMC071230	R3.0	12.0	12	18	30	75	2
EMC071603	R0.3	16.0	16	24	40	100	2
EMC071605	R0.5	16.0	16	24	40	100	2
EMC071610	R1.0	16.0	16	24	40	100	2
EMC071615	R1.5	16.0	16	24	40	100	2
EMC071620	R2.0	16.0	16	24	40	100	2
EMC071630	R3.0	16.0	16	24	40	100	2

Unit:mm

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求定制制作。  
Non-standard size or product parameters not listed above, can be customized according to customer needs.

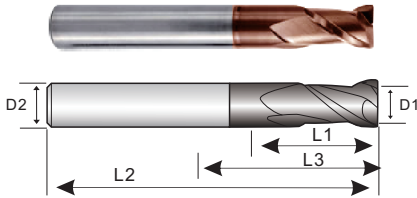
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

## EMC 高硬度专用钨钢二刃加长圆角铣刀

## X5070 Carbide 2 Flute Corner Radius, Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68高硬度材料。
- ★ 采用优质欧瑞康巴尔查斯涂料，进一步加强刀具的硬度和耐磨性。
- ★ 生产适用于R角从0.02mm至5.0mm的圆角铣刀。
- ★ 适用于轮廓加工、中心加工、粗加工，简易安装。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.
- Profile, Center, Roughing Milling, easy to install.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55							
○	○	○	●	●	○		○				

● 非常合适 ○ 合适

## EMC08 SERIES

Unit:mm

优能特订货代码	R角	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Corner Radius R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC080603	R0.3	6	6	12	20	100	2
EMC080605	R0.5	6	6	12	20	100	2
EMC080610	R1.0	6	6	12	20	100	2
EMC080615	R1.5	6	6	12	20	100	2
EMC080620	R2.0	6	6	12	20	100	2
EMC080803	R0.3	8	8	16	25	100	2
EMC080805	R0.5	8	8	16	25	100	2
EMC080810	R1.0	8	8	16	25	100	2
EMC080815	R1.5	8	8	16	25	100	2
EMC080820	R2.0	8	8	16	25	100	2
EMC081003	R0.3	10	10	20	30	100	2
EMC081005	R0.5	10	10	20	30	100	2
EMC081010	R1.0	10	10	20	30	100	2
EMC081015	R1.5	10	10	20	30	100	2
EMC081020	R2.0	10	10	20	30	100	2
EMC081030	R3.0	10	10	20	30	100	2
EMC081203	R0.3	12	12	24	35	100	2
EMC081205	R0.5	12	12	24	35	100	2
EMC081210	R1.0	12	12	24	35	100	2
EMC081215	R1.5	12	12	24	35	100	2
EMC081220	R2.0	12	12	24	35	100	2
EMC081230	R3.0	12	12	24	35	100	2
EMC081605	R0.5	16	16	32	45	150	2
EMC081610	R1.0	16	16	32	45	150	2
EMC081615	R1.5	16	16	32	45	150	2
EMC081620	R2.0	16	16	32	45	150	2
EMC081630	R3.0	16	16	32	45	150	2

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求定制制作。

Non-standard size or product parameters not listed above, can be customized according to customer needs.

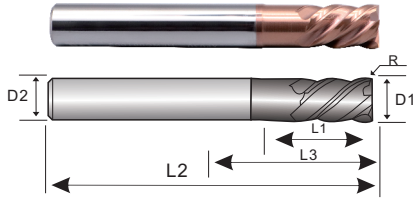
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

EMC 高硬度专用钨钢四刃圆角铣刀

X5070 Carbide 4 Flute Corner Radius, Regular Model

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68高硬度材料。
- ★ 采用优质欧瑞康巴尔查斯涂层，进一步加强刀具的硬度和耐磨性。
- ★ 生产适用于R角从0.02mm至5.0mm的圆角铣刀。
- ★ 适用于轮廓加工、中心加工、粗加工，简易安装。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.
- Profile, Center, Roughing Milling, easy to install.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55							
○	○	○	●	●	○		○				

● 非常适合 ○ 适合

EMC09 SERIES

优能特订货代码	R角	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Corner Radius R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC090101	R0.1	1.0	4	2	3	50	4
EMC090102	R0.2	1.0	4	2	3	50	4
EMC090201	R0.1	2.0	4	3	6	50	4
EMC090202	R0.2	2.0	4	3	6	50	4
EMC090203	R0.3	2.0	4	3	6	50	4
EMC090301	R0.1	3.0	4	5	8	50	4
EMC090302	R0.2	3.0	4	5	8	50	4
EMC090303	R0.3	3.0	4	5	8	50	4
EMC090305	R0.5	3.0	4	5	8	50	4
EMC090310	R1.0	3.0	4	5	8	50	4
EMC090401	R0.1	4.0	4	6	11	50	4
EMC090402	R0.2	4.0	4	6	11	50	4
EMC090403	R0.3	4.0	4	6	11	50	4
EMC090405	R0.5	4.0	4	6	11	50	4
EMC090410	R1.0	4.0	4	6	11	50	4
EMC0900001	R0.1	1.0	6	2	3	60	4
EMC0900002	R0.2	1.0	6	2	3	60	4
EMC0900003	R0.1	1.0	6	2	6	60	4
EMC0900004	R0.2	1.0	6	2	6	60	4
EMC0900005	R0.1	1.0	6	2	9	60	4
EMC0900006	R0.2	1.0	6	2	9	60	4
EMC0900007	R0.1	2.0	6	3	6	60	4
EMC0900008	R0.2	2.0	6	3	6	60	4
EMC0900009	R0.3	2.0	6	3	6	60	4
EMC0900010	R0.1	2.0	6	3	12	60	4
EMC0900011	R0.2	2.0	6	3	12	60	4
EMC0900012	R0.3	2.0	6	3	12	60	4
EMC0900013	R0.1	2.0	6	3	20	60	4
EMC0900014	R0.2	2.0	6	3	20	60	4
EMC0900015	R0.3	2.0	6	3	20	60	4
EMC0900016	R0.1	3.0	6	5	8	60	4
EMC0900017	R0.2	3.0	6	5	8	60	4
EMC0900018	R0.3	3.0	6	5	8	60	4
EMC0900019	R0.5	3.0	6	5	8	60	4
EMC0900020	R1	3.0	6	5	8	60	4
EMC0900021	R0.1	3.0	6	5	12	60	4
EMC0900022	R0.2	3.0	6	5	12	60	4
EMC0900023	R0.3	3.0	6	5	12	60	4
EMC0900024	R0.5	3.0	6	5	12	60	4
EMC0900025	R1	3.0	6	5	12	60	4

刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

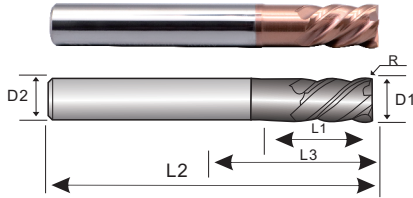
以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求订制作。  
Non-standard size or product parameters not listed above, can be customized according to customer needs.

**EMC 高硬度专用钨钢四刃圆角铣刀**

**X5070 Carbide 4 Flute Corner Radius, Regular Model**

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68高硬度材料。
- ★ 采用优质欧瑞康巴尔查斯涂层，进一步加强刀具的硬度和耐磨性。
- ★ 生产适用于R角从0.02mm至5.0mm的圆角铣刀。
- ★ 适用于轮廓加工、中心加工、粗加工，简易安装。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.
- Profile, Center, Roughing Milling, easy to install.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55	HRc55-70						
○	○	○	○	○	○		○				

◎ 非常适合 ○ 适合

**EMC09 SERIES**

Unit:mm

优能特订货代码	R角	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Corner Radius R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC0900026	R0.1	3.0	6	5	20	60	4
EMC0900027	R0.2	3.0	6	5	20	60	4
EMC0900028	R0.3	3.0	6	5	20	60	4
EMC0900029	R0.5	3.0	6	5	20	60	4
EMC0900030	R1	3.0	6	5	20	60	4
EMC0900031	R0.1	4.0	6	6	11	60	4
EMC0900032	R0.2	4.0	6	6	11	60	4
EMC0900033	R0.3	4.0	6	6	11	60	4
EMC0900034	R0.5	4.0	6	6	11	60	4
EMC0900035	R1.0	4.0	6	6	11	60	4
EMC0900036	R0.1	4.0	6	6	16	60	4
EMC0900037	R0.2	4.0	6	6	16	60	4
EMC0900038	R0.3	4.0	6	6	16	60	4
EMC0900039	R0.5	4.0	6	6	16	60	4
EMC0900040	R1.0	4.0	6	6	16	60	4
EMC0900041	R0.1	6.0	6	10	16	60	4
EMC090602	R0.2	6.0	6	10	16	60	4
EMC090603	R0.3	6.0	6	10	16	60	4
EMC090605	R0.5	6.0	6	10	16	60	4
EMC090610	R1.0	6.0	6	10	16	60	4
EMC090615	R1.5	6.0	6	10	16	60	4
EMC090620	R2.0	6.0	6	10	16	60	4
EMC0900042	R0.1	8.0	8	12	20	60	4
EMC090802	R0.2	8.0	8	12	20	60	4
EMC090803	R0.3	8.0	8	12	20	60	4
EMC090805	R0.5	8.0	8	12	20	60	4
EMC090810	R1.0	8.0	8	12	20	60	4
EMC090815	R1.5	8.0	8	12	20	60	4
EMC090820	R2.0	8.0	8	12	20	60	4
EMC0900043	R0.1	10.0	10	15	25	75	4
EMC0900044	R0.3	10.0	10	15	25	75	4
EMC091005	R0.5	10.0	10	15	25	75	4
EMC091010	R1.0	10.0	10	15	25	75	4
EMC091015	R1.5	10.0	10	15	25	75	4
EMC091020	R2.0	10.0	10	15	25	75	4
EMC091030	R3.0	10.0	10	15	25	75	4
EMC0900045	R0.1	12.0	12	18	30	75	4
EMC091205	R0.5	12.0	12	18	30	75	4
EMC091210	R1.0	12.0	12	18	30	75	4
EMC091215	R1.5	12.0	12	18	30	75	4

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Non-standard size or product parameters not listed above, can be customized according to customer needs.

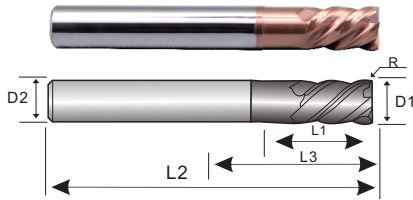
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

EMC 高硬度专用钨钢四刃圆角铣刀

X5070 Carbide 4 Flute Corner Radius, Regular Model

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68高硬度材料。
- ★ 采用优质欧瑞康巴尔查斯涂料，进一步加强刀具的硬度和耐磨性。
- ★ 生产适用于R角从0.02mm至5.0mm的圆角铣刀。
- ★ 适用于轮廓加工、中心加工、粗加工，简易安装。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.
- Profile, Center, Roughing Milling, easy to install.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
○	○	○	○	○	○	○	○	○	○	○	○

◎ 非常适合 ○ 适合

EMC09 SERIES

Unit:mm

优能特订货代码	R角	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Corner Radius R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC091220	R2.0	12.0	12	18	30	75	4
EMC091230	R3.0	12.0	12	18	30	75	4
EMC0900046	R0.1	16.0	16	24	40	100	4
EMC091605	R0.5	16.0	16	24	40	100	4
EMC091610	R1.0	16.0	16	24	40	100	4
EMC091615	R1.5	16.0	16	24	40	100	4
EMC091620	R2.0	16.0	16	24	40	100	4
EMC091630	R3.0	16.0	16	24	40	100	4

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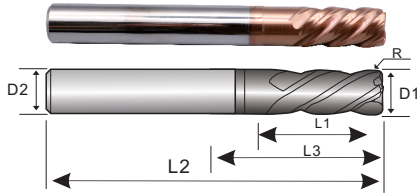
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø以下 -0.015~0	H6
Ø6超过 -0.020~0	

## EMC 高硬度专用钨钢四刃加长圆角铣刀

## X5070 Carbide 4 Flute Corner Radius, Long Lengths

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC68高硬度材料。
- ★ 采用优质欧瑞康巴尔查斯涂料，进一步加强刀具的硬度和耐磨性。
- ★ 生产适用于R角从0.02mm至5.0mm的圆角铣刀。
- ★ 适用于轮廓加工、中心加工、粗加工，简易安装。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.
- Profile, Center, Roughing Milling, easy to install.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55	HRc55-70						
○	○	○	●	●	○		○				

● 非常合适 ○ 适合

## EMC10 SERIES

Unit:mm

优能特订货代码	R角	刃径	柄径	刃长	有效长	全长	刃数
UNT EDP NO.	Corner Radius R	Mill Dia D1	Shank Dia D2	Flute length L1	Effective Length L3	O. A. L. L2	Flutes
EMC100203	R0.3	2.0	6	4	8	75	4
EMC100303	R0.3	3.0	6	6	12	75	4
EMC100305	R0.5	3.0	6	6	12	75	4
EMC100403	R0.3	4.0	6	8	20	75	4
EMC100405	R0.5	4.0	6	8	20	75	4
EMC100605	R0.5	6.0	6	12	20	100	4
EMC100610	R1.0	6.0	6	12	20	100	4
EMC100615	R1.5	6.0	6	12	20	100	4
EMC100620	R2.0	6.0	6	16	20	100	4
EMC100805	R0.5	8.0	8	16	25	100	4
EMC100810	R1.0	8.0	8	16	25	100	4
EMC100815	R1.5	8.0	8	16	25	100	4
EMC108020	R2.0	8.0	8	16	25	100	4
EMC101005	R0.5	10.0	10	20	30	100	4
EMC101010	R1.0	10.0	10	20	30	100	4
EMC101015	R1.5	10.0	10	20	30	100	4
EMC101020	R2.0	10.0	10	20	30	100	4
EMC101030	R3.0	10.0	10	24	30	100	4
EMC101205	R0.5	12.0	12	24	35	100	4
EMC101210	R1.0	12.0	12	24	35	100	4
EMC101215	R1.5	12.0	12	24	35	100	4
EMC101220	R2.0	12.0	12	24	35	100	4
EMC101230	R3.0	12.0	12	24	35	100	4
EMC101605	R0.5	16.0	16	32	45	150	4
EMC101610	R1.0	16.0	16	32	45	150	4
EMC101615	R1.5	16.0	16	32	45	150	4
EMC101620	R2.0	16.0	16	32	45	150	4
EMC101630	R3.0	16.0	16	32	45	150	4

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Non-standard size or product parameters not listed above, can be customized according to customer needs.

刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

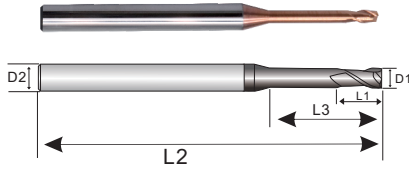


EMC 高硬度专用钨钢二刃深沟平底铣刀

X5070 Carbide, 2 Flute Micro Square End Mills, Long Neck

- ★ 在加工工具钢、合金钢、硬度低于HRC68的模具时具有出色的性能。
- ★ 特殊的长颈专门用于在产品沿边进行深壁加工而设计，适用于深槽加工和凹槽加工。
- ★ 超微粒铣刀，直径范围达到0.02~2.9mm。
- ★ 2刃超微型刀具适用于医疗，光学，电子和航空航天行业的高精度铣削。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Special Long neck design for deep cavity machining near walls, for deep slotting and pocketing.
- Surper Micro end mill, Diameters Range from 0.02~2.9mm Radius.
- 2 flute, Miniature tools, High precision milling in medical, optical, electronics and aerospace industries.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
○	○	○	●	●	○		○				

● 非常适合 ○ 适合

EMC11 SERIES

Unit:mm

优能特订货代码	刃径	有效长	柄径	刃长	全长	刃数
UNT EDP NO.	Mill Dia D1	Effective length L3	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMC110402	0.4	2	4	0.6	50	2
EMC110404	0.4	4	4	0.6	50	2
EMC110406	0.4	6	4	0.6	50	2
EMC110502	0.5	2	4	0.8	50	2
EMC110504	0.5	4	4	0.8	50	2
EMC110506	0.5	6	4	0.8	50	2
EMC110602	0.6	2	4	1	50	2
EMC110604	0.6	4	4	1	50	2
EMC110606	0.6	6	4	1	50	2
EMC110608	0.6	8	4	1	50	2
EMC110802	0.8	2	4	1.2	50	2
EMC110804	0.8	4	4	1.2	50	2
EMC110806	0.8	6	4	1.2	50	2
EMC110808	0.8	8	4	1.2	50	2
EMC111006	1.0	6	4	1.5	50	2
EMC111008	1.0	8	4	1.5	50	2
EMC111010	1.0	10	4	1.5	50	2
EMC111012	1.0	12	4	1.5	50	2
EMC111014	1.0	14	4	1.5	60	2
EMC111016	1.0	16	4	1.5	60	2
EMC111018	1.0	18	4	1.5	60	2
EMC111020	1.0	20	4	1.5	60	2
EMC111206	1.2	6	4	1.8	50	2
EMC111208	1.2	8	4	1.8	50	2
EMC111210	1.2	10	4	1.8	50	2
EMC111212	1.2	12	4	1.8	50	2
EMC111214	1.2	14	4	1.8	60	2
EMC111216	1.2	16	4	1.8	60	2
EMC111218	1.2	18	4	1.8	60	2
EMC111220	1.2	20	4	1.8	60	2
EMC111506	1.5	6	4	2.5	50	2
EMC111508	1.5	8	4	2.5	50	2
EMC111510	1.5	10	4	2.5	50	2
EMC111512	1.5	12	4	2.5	50	2
EMC111514	1.5	14	4	2.5	60	2
EMC111516	1.5	16	4	2.5	60	2

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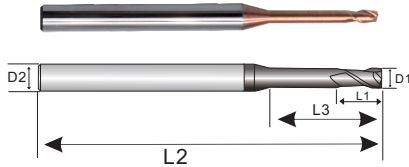
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

## EMC 高硬度专用钨钢二刃深沟平底铣刀

## X5070 Carbide, 2 Flute Micro Square End Mills, Long Neck

- ★ 在加工工具钢、合金钢、硬度低于HRC68的模具时具有出色的性能。
- ★ 特殊的长颈专门用于在产品沿边进行深壁加工而设计，适用于深槽加工和凹槽加工。
- ★ 超微粒铣刀，直径范围达到0.02~2.9mm。
- ★ 2刃超微型刀具适用于医疗，光学，电子和航空航天行业的高精度铣削。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Special Long neck design for deep cavity machining near walls, for deep slotting and pocketing.
- Surper Micro end mill, Diameters Range from 0.02~2.9mm Radius.
- 2 flute, Miniature tools, High precision milling in medical, optical, electronics and aerospace industries.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
○	○	○	●	●	○		○				

● 非常合适 ○ 合适

## EMC11 SERIES

Unit:mm

优能特订货代码	刃径	有效长	柄径	刃长	全长	刃数
UNT EDP NO.	Mill Dia D1	Effective length L3	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMC111518	1.5	18	4	2.5	60	2
EMC111520	1.5	20	4	2.5	60	2
EMC112006	2.0	6	4	3	50	2
EMC112008	2.0	8	4	3	50	2
EMC112010	2.0	10	4	3	50	2
EMC112012	2.0	12	4	3	50	2
EMC112014	2.0	14	4	3	60	2
EMC112016	2.0	16	4	3	60	2
EMC112018	2.0	18	4	3	60	2
EMC112020	2.0	20	4	3	60	2
EMC112025	2.0	25	4	3	60	2
EMC113008	3.0	8	6	4.5	60	2
EMC113010	3.0	10	6	4.5	60	2
EMC113012	3.0	12	6	4.5	60	2
EMC113014	3.0	14	6	4.5	60	2
EMC113016	3.0	16	6	4.5	60	2
EMC113018	3.0	18	6	4.5	60	2
EMC113020	3.0	20	6	4.5	60	2
EMC113025	3.0	25	6	4.5	60	2
EMC114012	4.0	12	6	6	60	2
EMC114014	4.0	14	6	6	60	2
EMC114016	4.0	16	6	6	60	2
EMC114018	4.0	18	6	6	60	2
EMC114020	4.0	20	6	6	60	2
EMC114025	4.0	25	6	6	60	2

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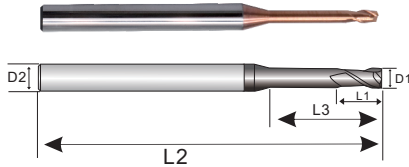
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

EMC 高硬度专用二刃深沟球形铣刀

X5070 Carbide, 2 Flute Micro Ball End Mills, Long Neck

- ★ 在加工工具钢、合金钢、硬度低于HRC68的模具时具有出色的性能。
- ★ 特殊的长颈专门用于在产品沿边进行深壁加工而设计，适用于深槽加工和凹槽加工。
- ★ 超微粒铣刀，直径范围达到0.02~2.9mm。
- ★ 2刃超微型刀具适用于医疗，光学，电子和航空航天行业的高精度铣削。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Special Long neck design for deep cavity machining near walls, for deep slotting and pocketing.
- Surper Micro end mill, Diameters Range from 0.02~2.9mm Radius.
- 2 flute, Miniature tools, High precision milling in medical, optical, electronics and aerospace industries.



加工材料 Material Description

碳素钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55	HRc55-70						
○	○	○	●	●	○		○				

● 非常合适 ○ 适合

EMC12 SERIES

Unit:mm

优能特订货代码	球半径	有效长	柄径	刃长	全长	刃数
UNT EDP NO.	Radius of Ball R	Effective length L3	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMC120402	R0.2	2	4	0.5	50	2
EMC120404	R0.2	4	4	0.5	50	2
EMC120502	R0.25	2	4	0.6	50	2
EMC120504	R0.25	4	4	0.6	50	2
EMC120506	R0.25	6	4	0.6	50	2
EMC120602	R0.3	2	4	0.7	50	2
EMC120604	R0.3	4	4	0.7	50	2
EMC120606	R0.3	6	4	0.7	50	2
EMC120608	R0.3	8	4	0.7	50	2
EMC120802	R0.4	2	4	1	50	2
EMC120804	R0.4	4	4	1	50	2
EMC120806	R0.4	6	4	1	50	2
EMC120808	R0.4	8	4	1	50	2
EMC120810	R0.4	10	4	1	50	2
EMC121006	R0.5	6	4	1.5	50	2
EMC121008	R0.5	8	4	1.5	50	2
EMC121010	R0.5	10	4	1.5	50	2
EMC121012	R0.5	12	4	1.5	50	2
EMC121014	R0.5	14	4	1.5	50	2
EMC121016	R0.5	16	4	1.5	50	2
EMC121018	R0.5	18	4	1.5	50	2
EMC121020	R0.5	20	4	1.5	50	2
EMC121506	R0.75	6	4	2	50	2
EMC121508	R0.75	8	4	2	50	2
EMC121510	R0.75	10	4	2	50	2
EMC121512	R0.75	12	4	2	50	2
EMC121514	R0.75	14	4	2	50	2
EMC121516	R0.75	16	4	2	50	2
EMC121518	R0.75	18	4	2	50	2
EMC121520	R0.75	20	4	2	50	2
EMC122006	R1.0	6	4	2.5	50	2
EMC122008	R1.0	8	4	2.5	50	2
EMC122010	R1.0	10	4	2.5	50	2
EMC122012	R1.0	12	4	2.5	50	2
EMC122014	R1.0	14	4	2.5	50	2
EMC122016	R1.0	16	4	2.5	50	2

以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求订制制作。

Non-standard size or product parameters not listed above, can be customized according to customer needs.

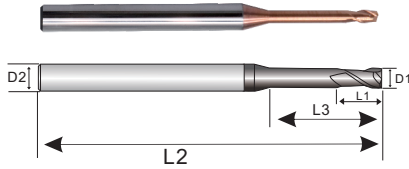
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015~0	H6
Ø6超过 -0.020~0	

## EMC 高硬度专用二刃深沟球形铣刀

## X5070 Carbide, 2 Flute Micro Ball End Mills, Long Neck

- ★ 在加工工具钢、合金钢、硬度低于HRC68的模具时具有出色的性能。
- ★ 特殊的长颈专门用于在产品沿边进行深壁加工而设计，适用于深槽加工和凹槽加工。
- ★ 超微粒铣刀，直径范围达到0.02~2.9mm。
- ★ 2刃超微型刀具适用于医疗，光学，电子和航空航天行业的高精度铣削。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC68.
- Special Long neck design for deep cavity machining near walls, for deep slotting and pocketing.
- Surper Micro end mill, Diameters Range from 0.02~2.9mm Radius.
- 2 flute, Miniature tools, High precision milling in medical, optical, electronics and aerospace industries.



加工材料 Material Description											
碳钢	合金钢	预硬钢	硬化钢	高硬钢	铜	石墨	铸铁	铝	不锈钢	钛	镍钛合金
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	-HB225-325	-HRc30-40	HRc40-45	HRc45-55	HRc55-70						
○	○	○	●	●	○		○				

● 非常适合 ○ 适合

## EMC12 SERIES

Unit:mm

优能特订货代码	球半径	有效长	柄径	刃长	全长	刃数
UNT EDP NO.	Radius of Ball R	Effective length L3	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMC122018	R1.0	18	4	2.5	50	2
EMC122020	R1.0	20	4	2.5	50	2
EMC123008	R1.5	8	4	4	50	2
EMC123010	R1.5	10	4	4	50	2
EMC123012	R1.5	12	4	4	50	2
EMC123014	R1.5	14	4	4	50	2
EMC123016	R1.5	16	4	4	50	2
EMC123018	R1.5	18	4	4	50	2
EMC123020	R1.5	20	4	4	50	2
EMC124012	R2.0	12	4	5	50	2
EMC124014	R2.0	14	4	5	50	2
EMC124016	R2.0	16	4	5	50	2
EMC124018	R2.0	18	4	5	50	2
EMC124020	R2.0	20	4	5	50	2
EMC124025	R2.0	25	4	5	50	2

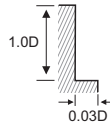
以上产品未列明细的非标规格尺寸或产品参数，可根据客户需求定制制作。

Non-standard size or product parameters not listed above, can be customized according to customer needs.

刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

**EMC03/09** SERIES

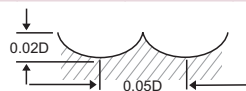
材质		硬化钢										
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL									
HARDNESS	HRc 30~HRc 40		HRc 40~HRc 50		Hrc 50~HRc 55		Hrc 55~HRc 60		Hrc 60~HRc 65		Hrc 65~HRc 70	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
1	48000	1480	38000	1050	25500	710	20500	1430	16000	270	12500	175
2	33300	1750	26000	1250	17500	840	14500	520	11000	320	9500	230
3	21800	1750	17300	1250	11500	840	9500	520	7500	320	6400	230
4	16700	1800	13200	1300	8800	880	7200	540	5600	335	4750	240
5	15700	2000	12500	1500	8300	1000	6400	580	5100	370	4450	270
6	13100	1950	10350	1400	6900	950	5300	560	4200	350	3700	260
8	9880	1880	7800	1350	5200	900	4000	520	3200	330	2800	240
10	7800	1750	6150	1260	4100	840	3200	480	2550	310	2200	220
12	6650	1750	5250	1260	3500	840	2650	480	2100	300	1860	220
16	4900	1500	3900	1100	2600	730	2000	420	1600	270	1400	200
20	3900	1300	3100	970	2050	650	1600	380	1300	250	1100	180



RPM=rev./min.(转速/分钟)  
FEED=mm/min.(进给量)

**EMC05** SERIES

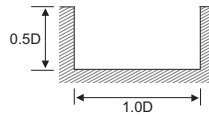
材质		硬化钢										
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL									
HARDNESS	HRc 30~HRc 40		HRc 40~HRc 50		Hrc 50~HRc 55		Hrc 55~HRc 60		Hrc 60~HRc 65		Hrc 65~HRc 70	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
R1.0	50000	1200	50000	1050	45000	960	40000	770	35000	674	31500	570
R0.15	50000	1500	50000	1350	45000	1200	40000	965	35000	840	31500	700
R0.2	50000	1900	50000	1700	45000	1500	40000	1200	35000	1050	31500	890
R0.25	50000	2400	50000	2100	45000	1900	40000	1500	35000	1300	35000	1100
R0.3	50000	2900	50000	2500	45000	2200	40000	1800	35000	1600	31500	1400
R0.4	50000	3900	50000	3300	45000	3000	40000	2400	35000	2100	31500	1800
R0.5	50000	4800	50000	4200	45000	3800	40000	3000	35000	2600	35000	2300
R0.6	50000	5100	48000	4300	43000	3850	38000	3000	34000	2700	30600	2300
R0.75	50000	5400	48000	4500	43000	4000	37000	3100	33000	2700	29700	2300
R1.0	49700	5700	47800	4800	40000	4000	35000	3150	32000	2800	28500	2300
R1.5	33100	6000	31800	5300	26500	4000	23500	3150	21000	2800	19000	2300
R2.0	24900	6000	23900	5300	20000	4000	17500	3150	16000	2800	14500	2300
R2.5	18600	5800	17800	4900	15000	3750	13500	3050	11500	2550	10500	2100
R3.0	13900	4850	13400	4100	11000	3100	10000	2500	8800	2150	8000	1750
R4.0	11100	4200	10700	3500	9000	2700	8000	2150	7000	1850	6500	1550
R5.0	9300	3700	8900	3100	7500	2400	6600	1900	5800	1650	5300	1380
R6.0	6950	2950	6680	2500	5600	1900	5000	1550	4400	1250	4000	1050
R8.0	5570	2650	5350	2200	4500	1700	4000	1350	3500	1000	3200	850
R10	4450	2350	4300	1950	3600	1500	3200	1200	2800	800	2550	660



RPM=rev./min.(转速/分钟)  
FEED=mm/min.(进给量)

**EMC07** SERIES

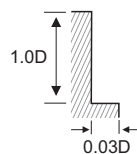
材质	硬化钢、耐热钢		硬化钢									
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL									
HARDNESS	HRc 30~HRc 40		HRc 40~HRc 50		Hrc 50~HRc 55		Hrc 55~HRc 60		Hrc 60~HRc 65		Hrc 65~HRc 70	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
0.5	50000	295	345000	225	40000	175	33000	110	25000	65	20000	40
0.6	50000	375	45000	285	40000	225	30000	125	25000	85	20000	50
0.8	50000	480	45000	350	30000	235	25000	145	19000	90	16000	55
1	48000	600	38000	456	25500	288	20500	172	16000	108	12500	70
2	33300	680	26000	544	17500	336	14500	208	11000	128	9500	92
3	21800	680	17300	544	11500	336	9500	208	7500	128	6400	92
4	167000	704	13200	560	8800	352	7200	216	5600	136	4750	94
5	15700	800	12500	644	8300	400	6400	228	5100	144	4450	106
6	13100	760	10350	616	6900	384	5300	224	4200	144	3700	104
8	9880	744	7800	576	5200	356	4000	204	3200	132	2800	66
10	7800	680	6150	544	4100	332	3200	192	2550	124	2200	90
12	6650	680	5250	544	3500	332	2650	192	2100	124	1860	90



RPM=rev./min.(转速/分钟)  
FEED=mm/min.(进给量)

**EMC07** SERIES

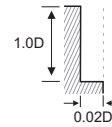
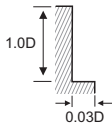
材质	硬化钢、耐热钢		硬化钢									
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL									
HARDNESS	HRc 30~HRc 40		HRc 40~HRc 50		Hrc 50~HRc 55		Hrc 55~HRc 60		Hrc 60~HRc 65		Hrc 65~HRc 70	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
0.5	50000	205	45000	160	40000	125	33000	80	25000	45	20000	30
0.6	50000	265	45000	200	40000	160	30000	90	25000	60	20000	35
0.8	50000	335	45000	245	30000	165	25000	100	19000	65	16000	40
1	48000	840	38000	656	25500	408	20500	248	16000	152	12500	100
2	33300	960	26000	776	17500	480	14500	296	11000	184	9500	132
3	21800	960	17300	776	11500	480	9500	296	7500	184	6400	132
4	16700	1000	13200	800	8800	500	7200	308	5600	192	4750	136
5	15700	1160	12500	920	8300	568	6400	328	5100	208	4450	152
6	13100	1080	10350	880	6900	552	5300	320	4200	204	3700	148
8	9880	1056	7800	824	5200	508	4000	292	3200	188	2800	136
10	7800	960	6150	776	4100	472	3200	272	2550	176	2200	128
12	6650	960	5250	776	3500	472	2650	272	2100	176	1860	128



RPM=rev./min.(转速/分钟)  
FEED=mm/min.(进给量)

**EMB03** SERIES

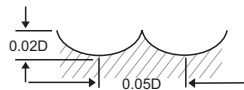
材质	硬化钢									
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL							
HARDNESS	Hrc 30~Hrc 40		Hrc 40~Hrc 50		Hrc 50~Hrc 55		Hrc 55~Hrc 60		Hrc 60~Hrc 65	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
1	24000	814	19000	578	12750	391	10250	237	8000	149
2	16650	963	13000	688	8750	462	7250	286	5500	176
3	10900	963	8650	688	5750	462	4750	286	3450	176
4	8350	990	6600	715	4400	484	3600	297	2800	184
5	7850	1100	6250	825	4150	550	3200	319	2550	204
6	6550	1073	5175	770	3450	523	2650	308	2100	193
8	4940	1034	3900	743	2600	495	2000	286	1600	182
10	3900	963	3075	693	2050	462	1600	264	1275	171
12	3325	963	2625	693	1850	462	1325	264	1050	165
16	2450	825	1950	605	1300	402	1000	231	800	149
20	1950	715	1550	534	1025	358	800	209	650	138



RPM=rev./min.(转速/分钟)  
FEED=mm/min.(进给量)  
D= DIAMETER(刃部直径)

**EMB01** SERIES

材质	硬化钢									
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL							
HARDNESS	Hrc 30~Hrc 40		Hrc 40~Hrc 50		Hrc 50~Hrc 55		Hrc 55~Hrc 60		Hrc 60~Hrc 65	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
R0.1	125000	660	25000	578	22500	5280	20000	424	17500	371
R0.15	25000	825	25000	753	22500	660	20000	531	17500	462
R0.2	25000	1045	25000	935	22500	825	20000	660	17500	578
R0.25	25000	1320	25000	1155	22500	1045	20000	825	17500	715
R0.3	25000	1595	25000	1375	22500	1210	20000	990	17500	880
R0.4	25000	2145	25000	1815	22500	1650	20000	1320	17500	1155
R0.5	25000	2640	25000	2310	22500	2090	20000	1650	17500	1430
R0.6	25000	2805	24000	2365	21500	2118	19000	1650	17000	1485
R0.75	25000	2970	24000	2475	21500	2200	18500	1705	16500	1485
R1.0	24850	3135	23900	2640	20000	2200	17500	1733	16000	1540
R1.5	16550	3300	15900	2915	13250	2200	11750	1733	10500	1540
R2.0	12450	3300	11950	2915	10000	2200	8750	1733	8000	1540
R2.5	9300	3190	8900	2695	7500	2063	6750	1678	57500	1403
R3.0	6950	2668	6700	2255	5500	1705	5000	1375	4400	1183
R4.0	5550	2310	5350	1925	4500	1485	4000	1183	3500	1018
R5.0	4650	2035	4450	1705	3750	1320	3300	1045	2900	908
R6.0	3475	1623	3340	1375	2800	1045	2500	835	2200	688
R8.0	2785	1458	2675	1210	2250	935	2000	743	1750	550
R10.0	2225	1295	2150	1073	1800	825	1600	660	1400	440



RPM=rev./min.(转速/分钟)  
FEED=mm/min.(进给量)  
D= DIAMETER(刃部直径)



## **X5070 CARBIDE FOR MOLD & DIE**

For Machining of Hardened Mold, Die and Alloy Steel  
Up to HRc68

用于加工硬度高达HRc68的铸型，冲模和合金钢


For High Speed Machining In Dry Cutting Condition  
适合于干式切削条件下的高速加工

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 +86-769-82100280/82100281

 sales@unt-tools.com

 www.unt-tools.com

 Plant No.1, Building No.1, Jintang Street,  
Xiekeng, Qingxi Town, DongGuan Guangdong

 +86-769-82100280/82100281

 sales@unt-tools.com

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