

EMB高硬度系列

HRC65模具专用立铣刀

HRC65 CARBIDE FOR HARDENED STEEL



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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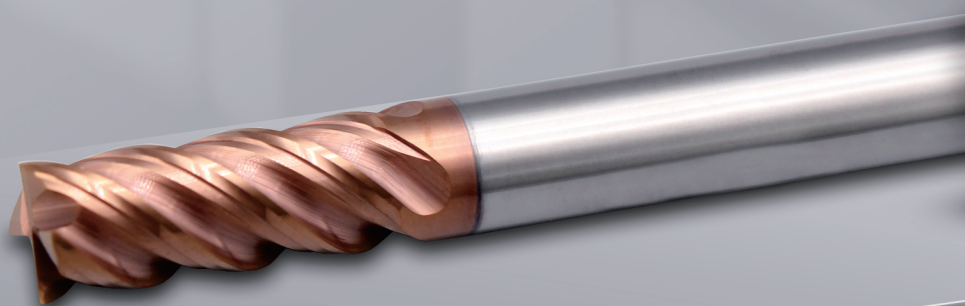
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4 Flute Square Carbide end mill

四刃平底铣刀

- Special cutting edge can increase the cutting ability, making it suitable for roughing and finishing.
- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- Deeper cuts and higher metal removal rates, this carbide end mill fits for high-speed machining.
- Balzers coating offer superior hardness and heat resistance.
- 特殊的切削刃可以提高切削能力，使其适合粗加工和精加工。
- 设计用于机械加工工具钢 合金钢 模具钢和其他高硬度材料HRC65。
- 更深的切削和更高的金属去除率，这款立铣刀适合于高速加工。
- 巴尔查斯涂层具有出色的硬度和耐热性。



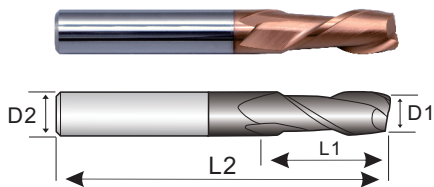
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EMB 高硬度专用钨钢二刃平底铣刀

2 Flute Carbide for High Hardness Steel, 45° Spiral

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- 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	镍钴合金
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

EMB01 SERIES

Unit:mm

优能特订货代码	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB010024	0.2	4	0.4	50	2
EMB010034	0.3	4	0.6	50	2
EMB010044	0.4	4	0.8	50	2
EMB010054	0.5	4	1	50	2
EMB010064	0.6	4	1.2	50	2
EMB010074	0.7	4	1.4	50	2
EMB010084	0.8	4	1.6	50	2
EMB010094	0.9	4	1.8	50	2
EMB010104	1.0	4	3	50	2
EMB010154	1.5	4	4	50	2
EMB010204	2.0	4	6	50	2
EMB010254	2.5	4	6	50	2
EMB010304	3.0	4	8	50	2
EMB010354	3.5	4	10	50	2
EMB010404	4.0	4	11	50	2
EMB010106	1.0	6	3	50	2
EMB010156	1.5	6	4	50	2
EMB010206	2.0	6	6	50	2
EMB010256	2.5	6	6	50	2
EMB010306	3.0	6	8	50	2
EMB010356	3.5	6	10	50	2
EMB010406	4.0	6	11	50	2
EMB010450	4.5	6	13	50	2
EMB010500	5.0	6	13	50	2
EMB010550	5.5	6	16	50	2
EMB010600	6.0	6	16	50	2
EMB010650	6.5	8	20	60	2
EMB010700	7.0	8	20	60	2
EMB010750	7.5	8	20	60	2
EMB010800	8.0	8	20	60	2
EMB010850	8.5	10	25	75	2
EMB010900	9.0	10	25	75	2
EMB010950	9.5	10	25	75	2
EMB011000	10.0	10	25	75	2
EMB011050	10.5	12	30	75	2
EMB011100	11.0	12	30	75	2
EMB011200	12.0	12	30	75	2
EMB011600	16.0	16	40	100	2
EMB011800	18.0	18	40	100	2
EMB012000	20.0	20	40	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.

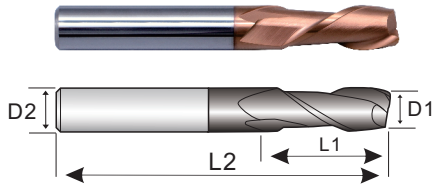
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE
~Ø6以下	-0.015~0
Ø6超过	-0.020~0
	H6

EMB 高硬度专用钨钢二刃加长平底铣刀

2 Flute Carbide for High Hardness Steel, 45° Spiral, Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- 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	镍钴钛合金
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

EMB02 SERIES

Unit:mm

优能特订货代码	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB02010075	1.0	4	5	75	2
EMB02015075	1.5	4	6	75	2
EMB02020075	2.0	4	8	75	2
EMB02025075	2.5	4	8	75	2
EMB02030075	3.0	4	10	75	2
EMB02040075	4.0	4	12	75	2
EMB02040100	4.0	4	12	100	2
EMB020100756	1.0	6	5	75	2
EMB020150756	1.5	6	6	75	2
EMB020200756	2.0	6	8	75	2
EMB020250756	2.5	6	8	75	2
EMB020300756	3.0	6	10	75	2
EMB020400756	4.0	6	12	75	2
EMB02050075	5.0	6	16	75	2
EMB02060075	6.0	6	25	75	2
EMB02060100	6.0	6	30	100	2
EMB02080100	8.0	8	35	100	2
EMB02100100	10.0	10	40	100	2
EMB02120100	12.0	12	45	100	2
EMB02060150	6.0	6	35	150	2
EMB02080150	8.0	8	35	150	2
EMB02100150	10.0	10	40	150	2
EMB02120150	12.0	12	45	150	2
EMB02160150	16.0	16	60	150	2
EMB02200150	20.0	20	70	150	2

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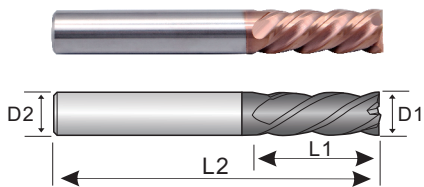
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刃径公差 (mm)		柄径公差	
MILL DIA. TOLERANCE (mm)	公差 TOLERANCE	SHANK DIA. TOLERANCE	公差 TOLERANCE
直径 DIAMETER	公差 TOLERANCE		
~Ø6以下	-0.015~0		
Ø6超过	-0.020~0		H6

EMB 高硬度专用钨钢四刃平底铣 4 Flute Carbide for High Hardness Steel, 45' Spiral

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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。
- ★ 卓越的工件表面粗糙度。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Superior workpiece finishes.
- 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

EMB03 SERIES

Unit:mm

优能特订货代码	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB030104	1.0	4	3	50	4
EMB030154	1.5	4	4	50	4
EMB030204	2.0	4	6	50	4
EMB030254	2.5	4	6	50	4
EMB030303	3.0	3	8	50	4
EMB030304	3.0	4	8	50	4
EMB030354	3.5	4	10	50	4
EMB030404	4.0	4	11	50	4
EMB030106	1.0	6	3	50	4
EMB030156	1.5	6	4	50	4
EMB030206	2.0	6	6	50	4
EMB030256	2.5	6	6	50	4
EMB030306	3.0	6	8	50	4
EMB030356	3.5	6	10	50	4
EMB030406	4.0	6	11	50	4
EMB030450	4.5	6	13	50	4
EMB030500	5.0	6	13	50	4
EMB030550	5.5	6	16	50	4
EMB030600	6.0	6	16	50	4
EMB030650	6.5	8	20	60	4
EMB030700	7.0	8	20	60	4
EMB030750	7.5	8	20	60	4
EMB030800	8.0	8	20	60	4
EMB030850	8.5	10	25	75	4
EMB030900	9.0	10	25	75	4
EMB030950	9.5	10	25	75	4
EMB031000	10.0	10	25	75	4
EMB031100	11.0	12	30	75	4
EMB031200	12.0	12	30	75	4
EMB031400	14.0	14	40	100	4
EMB031600	16.0	16	40	100	4
EMB031800	18.0	18	40	100	4
EMB032000	20.0	20	40	100	4

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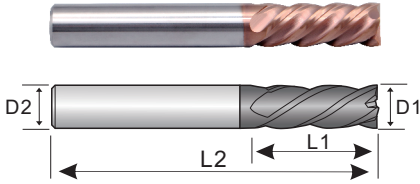
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015-0	H6
Ø6超过 -0.020-0	

EMB 高硬度专用钨钢四刃加长平底铣刀

4 Flute Carbide for High Hardness Steel, 45° Spiral, Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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。
- ★ 卓越的工件表面粗糙度。
- ★ 提高刀具进给速度。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- Oerlikon Balzers coating offer superior hardness and heat resistance.
- Superior workpiece finishes.
- 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	镍钴钛合金
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

EMB04 SERIES

Unit:mm

优能特订货代码	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB04010075	1.0	4	5	75	4
EMB04015075	1.5	4	6	75	4
EMB04020075	2.0	4	8	75	4
EMB04025075	2.5	4	8	75	4
EMB04030075	3.0	4	10	75	4
EMB04040075	4.0	4	12	100	4
EMB04040100	4.0	4	12	75	4
EMB040100756	1.0	6	5	75	4
EMB040150756	1.5	6	6	75	4
EMB040200756	2.0	6	8	75	4
EMB040250756	2.5	6	8	75	4
EMB040300756	3.0	6	10	75	4
EMB040400756	4.0	6	12	75	4
EMB04050075	5.0	6	16	100	4
EMB04060075	6.0	6	25	75	4
EMB04060100	6.0	6	30	100	4
EMB04080100	8.0	8	35	100	4
EMB04100100	10.0	10	40	100	4
EMB04120100	12.0	12	45	100	4
EMB04060150	6.0	6	35	150	4
EMB04080150	8.0	8	40	150	4
EMB04100150	10.0	10	50	150	4
EMB04120150	12.0	12	50	150	4
EMB04160150	16.0	16	70	150	4
EMB04200150	20.0	20	70	150	4

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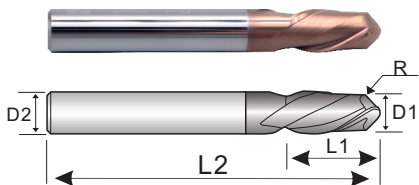
Non-standard size or product parameters not listed above, can be customized according to customer needs.

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

EMB 高硬度专用钨钢球头铣刀 **2 Flute Carbide Ball end mills for High Hardness Steel**

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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。
- ★ 切割直径小至0.01mm。
- ★ 适用于轮廓加工、插削加工、倒角加工。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- 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	镍钴钛合金
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

EMB05 SERIES

Unit:mm

优能特订货代码	球头半径	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Radius of Ball R	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB050034	R0.15	0.3	4	0.6	50	2
EMB050044	R0.2	0.4	4	0.8	50	2
EMB050054	R0.25	0.5	4	1.0	50	2
EMB050064	R0.3	0.6	4	1.2	50	2
EMB050074	R0.35	0.7	4	1.4	50	2
EMB050084	R0.4	0.8	4	1.6	50	2
EMB050094	R0.45	0.9	4	1.8	50	2
EMB050104	R0.5	1.0	4	2	50	2
EMB050154	R0.75	1.5	4	3	50	2
EMB050204	R1.0	2.0	4	4	50	2
EMB050254	R1.25	2.5	4	5	50	2
EMB050304	R1.5	3.0	4	6	50	2
EMB050303	R1.5	3.0	3	6	50	2
EMB050404	R2.0	4.0	6	8	50	2
EMB050106	R0.5	1.0	6	2	50	2
EMB050156	R0.75	1.5	6	3	50	2
EMB050206	R1.0	2.0	6	4	50	2
EMB050256	R1.25	2.5	6	5	50	2
EMB050306	R1.5	3.0	6	6	50	2
EMB050406	R2.0	4.0	6	8	50	2
EMB050500	R2.5	5.0	6	10	50	2
EMB050600	R3.0	6.0	6	12	50	2
EMB050700	R3.5	7.0	8	14	60	2
EMB050800	R4.0	8.0	8	16	60	2
EMB051000	R5.0	10.0	10	20	75	2
EMB051200	R6.0	12.0	12	24	75	2
EMB051600	R8.0	16.0	16	32	100	2
EMB052000	R10.0	20.0	20	40	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.

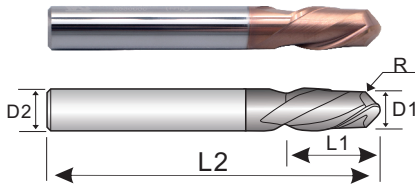
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015-0	H6
Ø6超过 -0.020-0	

EMB 高硬度专用钨钢加长球头铣刀

2 Flute Carbide Ball end mills for High Hardness Steel, Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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。
- ★ 切割直径小至0.01mm。
- ★ 适用于轮廓加工、插削加工、倒角加工。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- 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	镍钴钛合金
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

EMB06 SERIES

Unit:mm

优能特订货代码	半径	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Radius of Ball R	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB06010075	R0.5	1.0	4	2	75	2
EMB06015075	R0.75	1.5	4	3	75	2
EMB06020075	R1.0	2.0	4	4	75	2
EMB06030075	R1.5	3.0	4	6	75	2
EMB06040075	R2.0	4.0	4	8	100	2
EMB06040100	R2.0	4.0	4	8	75	2
EMB060100756	R0.5	1.0	6	2	75	2
EMB060150756	R0.75	1.5	6	3	75	2
EMB060200756	R1.0	2.0	6	4	75	2
EMB060300756	R1.5	3.0	6	6	75	2
EMB060400756	R2.0	4.0	6	8	75	2
EMB060401006	R2.0	4.0	6	8	100	2
EMB06050100	R2.5	5.0	6	10	100	2
EMB06060075	R3.0	6.0	6	12	75	2
EMB06060100	R3.0	6.0	6	12	100	2
EMB06080100	R4.0	8.0	8	16	100	2
EMB06100100	R5.0	10.0	10	20	100	2
EMB06120100	R6.0	12.0	12	24	100	2
EMB06060150	R3.0	6.0	6	12	150	2
EMB06080150	R4.0	8.0	8	16	150	2
EMB06100150	R4.0	10.0	10	20	150	2
EMB06120150	R6.0	12.0	12	24	150	2
EMB06160150	R8.0	16.0	16	32	150	2
EMB06200150	R10.0	20.0	20	40	100	2

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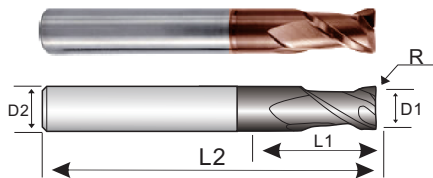
刃径公差 (mm)		柄径公差	
MILL DIA. TOLERANCE (mm)	公差 TOLERANCE	SHANK DIA. TOLERANCE	
直径 DIAMETER	公差 TOLERANCE		
~0以下	-0.015~0		
0以上	-0.020~0		H6

EMB 高硬度专用钨钢圆角铣刀

2 Flute Carbide Radius for High Hardness Steel, 45° Spiral

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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 HRC65.
- 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	镍钴钛合金
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

EMB07 SERIES

Unit:mm

优能特订货代码	R角	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Corner radius R	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB070101	1	R0.1	4	3	50	2
EMB070102	1	R0.2	4	3	50	2
EMB070201	2	R0.1	4	6	50	2
EMB070202	2	R0.2	4	6	50	2
EMB070203	2	R0.3	4	6	50	2
EMB070301	3	R0.1	4	8	50	2
EMB070302	3	R0.2	4	8	50	2
EMB070303	3	R0.3	4	8	50	2
EMB070305	3	R0.5	4	8	50	2
EMB070310	3	R1.0	4	8	50	2
EMB070402	4	R0.2	4	11	50	2
EMB070403	4	R0.3	4	11	50	2
EMB070405	4	R0.5	4	11	50	2
EMB070410	4	R1.0	4	11	50	2
EMB070602	6	R0.2	6	16	50	2
EMB070603	6	R0.3	6	16	50	2
EMB070605	6	R0.5	6	16	50	2
EMB070610	6	R1.0	6	16	50	2
EMB070615	6	R1.5	6	16	50	2
EMB070620	6	R2.0	6	16	50	2
EMB070802	8	R0.2	8	20	60	2
EMB070803	8	R0.3	8	20	60	2
EMB070805	8	R0.5	8	20	60	2
EMB070810	8	R1.0	8	20	60	2
EMB070815	8	R1.5	8	20	60	2
EMB070820	8	R2.0	8	20	60	2
EMB071005	10	R0.5	10	25	75	2
EMB071010	10	R1.0	10	25	75	2
EMB071015	10	R1.5	10	25	75	2
EMB071020	10	R2.0	10	25	75	2
EMB071030	10	R3.0	10	25	75	2
EMB071205	12	R0.5	12	30	75	2
EMB071210	12	R1.0	12	30	75	2
EMB071215	12	R1.5	12	30	75	2
EMB071220	12	R2.0	12	30	75	2
EMB071230	12	R3.0	12	30	75	2

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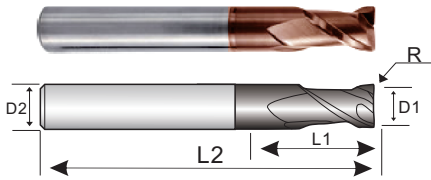
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径公差 TOLERANCE	
~Ø6以下 -0.015-0	H6
Ø6超过 -0.020-0	

EMB 高硬度专用钨钢加长圆角铣刀

2 Flute Carbide Radius for High Hardness Steel, Long length

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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 HRC65.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02-5.0mm 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	镍钴钛合金
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

EMB08 SERIES

优能特订货代码	R角	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Corner radius R	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB080605	R0.5	6	6	16	100	2
EMB080610	R1.0	6	6	16	100	2
EMB080615	R1.5	6	6	16	100	2
EMB080620	R2.0	6	6	16	100	2
EMB080805	R0.5	8	8	20	100	2
EMB080810	R1.0	8	8	20	100	2
EMB080815	R1.5	8	8	20	100	2
EMB080820	R2.0	8	8	20	100	2
EMB081005	R0.5	10	10	25	100	2
EMB081010	R1.0	10	10	25	100	2
EMB081015	R1.5	10	10	25	100	2
EMB081020	R2.0	10	10	25	100	2
EMB081030	R3.0	10	10	25	100	2
EMB081205	R0.5	12	12	30	100	2
EMB081210	R1.0	12	12	30	100	2
EMB081215	R1.5	12	12	30	100	2
EMB081220	R2.0	12	12	30	100	2
EMB081230	R3.0	12	12	30	100	2

Unit:mm

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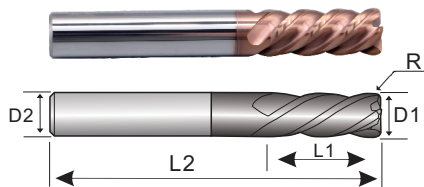
刃径公差 (mm)		柄径公差	
MILL DIA. TOLERANCE (mm)	公差 TOLERANCE	SHANK DIA. TOLERANCE	
直径 DIAMETER	公差 TOLERANCE		
~Ø6以下	-0.015~0		H6
Ø6超过	-0.020~0		

EMB 高硬度专用钨钢圆角铣刀

4 Flute Carbide Radius for High Hardness Steel, 45° Spiral

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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、斜面加工。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02-5.0mm corner radius.
- For Profile Milling, Ramping Cutting



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	镍钴钛合金
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

EMB09 SERIES

Unit:mm

优能特订货代码	R角	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Corner radius R	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB090101	R0.1	1.0	4	3	50	4
EMB090102	R0.2	1.0	4	3	50	4
EMB090201	R0.1	2.0	4	6	50	4
EMB090202	R0.2	2.0	4	6	50	4
EMB090203	R0.3	2.0	4	6	50	4
EMB090302	R0.2	3.0	4	8	50	4
EMB090303	R0.3	3.0	4	8	50	4
EMB090305	R0.5	3.0	4	8	50	4
EMB090310	R1.0	3.0	4	8	50	4
EMB090402	R0.2	4.0	4	11	50	4
EMB090403	R0.3	4.0	4	11	50	4
EMB090405	R0.5	4.0	4	11	50	4
EMB090410	R1.0	4.0	4	11	50	4
EMB090505	R0.5	5.0	6	13	50	4
EMB090510	R1.0	5.0	6	13	50	4
EMB090602	R0.2	6.0	6	16	50	4
EMB090603	R0.3	6.0	6	16	50	4
EMB090605	R0.5	6.0	6	16	50	4
EMB090610	R1.0	6.0	6	16	50	4
EMB090615	R1.5	6.0	6	16	50	4
EMB090620	R2.0	6.0	6	16	50	4
EMB090802	R0.2	8.0	8	20	60	4
EMB090803	R0.3	8.0	8	20	60	4
EMB090805	R0.5	8.0	8	20	60	4
EMB090810	R1.0	8.0	8	20	60	4
EMB090815	R1.5	8.0	8	20	60	4
EMB090820	R2.0	8.0	8	20	60	4
EMB091005	R0.5	10.0	10	25	75	4
EMB091010	R1.0	10.0	10	25	75	4
EMB091015	R1.5	10.0	10	25	75	4
EMB091020	R2.0	10.0	10	25	75	4
EMB091030	R3.0	10.0	10	30	75	4
EMB091205	R0.5	12.0	12	30	75	4
EMB091210	R1.0	12.0	12	30	75	4
EMB091215	R1.5	12.0	12	30	75	4
EMB091220	R2.0	12.0	12	30	75	4
EMB091230	R3.0	12.0	12	30	75	4

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

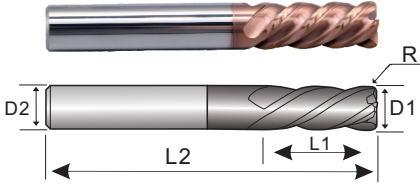
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 DIAMETER 公差 TOLERANCE	
~Ø6以下 -0.015-0	H6
Ø6超过 -0.020-0	

EMB 高硬度专用钨钢加长圆角铣刀

4 Flute Carbide Radius for High Hardness Steel, Long length

- ★ 设计用于加工工具钢, 合金钢, 模具钢和HRC65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、斜面加工。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- Oerlikon Balzers coating offer superior hardness and high performance.
- Available various corner radius end mills, from 0.02-5.0mm corner radius.
- For Profile Milling, Ramping Cutting



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	镍钴钛合金
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

EMB10 SERIES

Unit:mm

优能特订货代码	R角	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Corner radius R	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB100605	R0.5	6.0	6	16	100	4
EMB100610	R1.0	6.0	6	16	100	4
EMB100615	R1.5	6.0	6	16	100	4
EMB100620	R2.0	6.0	6	16	100	4
EMB108005	R0.5	8.0	8	20	100	4
EMB108010	R1.0	8.0	8	20	100	4
EMB108015	R1.5	8.0	8	20	100	4
EMB108020	R2.0	8.0	8	20	100	4
EMB101005	R0.5	10.0	10	25	100	4
EMB101010	R1.0	10.0	10	25	100	4
EMB101015	R1.5	10.0	10	25	100	4
EMB101020	R2.0	10.0	10	25	100	4
EMB101030	R3.0	10.0	10	25	100	4
EMB101205	R0.5	12.0	12	30	100	4
EMB101210	R1.0	12.0	12	30	100	4
EMB101215	R1.5	12.0	12	30	100	4
EMB101220	R2.0	12.0	12	30	100	4
EMB101230	R3.0	12.0	12	30	100	4

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。

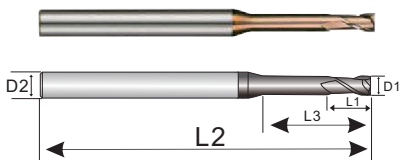
Non-standard size or product parameters not listed above, can be customized according to customer needs.

刃径公差 (mm)		柄径公差	
MILL DIA. TOLERANCE (mm)	公差 TOLERANCE	SHANK DIA. TOLERANCE	公差 TOLERANCE
直径 DIAMETER	公差 TOLERANCE		
~ø6以下	-0.015~0		H6
ø6超过	-0.020~0		

EMB 高硬度2刃深沟平底铣刀 **Carbide HRC65, 2 Flute Micro Square End Mills, Long Neck**

- ★ 在加工工具钢、合金钢、硬度低于HRC65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。

- Excellent performance when cutting tool steels, alloy steels, up to HRC65 which are used for molds & dies.
- 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	镍钴合金
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

EMB11 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
EMB110402	0.4	2	4	0.6	50	2
EMB110404	0.4	4	4	0.6	50	2
EMB110406	0.4	6	4	0.6	50	2
EMB110502	0.5	2	4	0.8	50	2
EMB110504	0.5	4	4	0.8	50	2
EMB110506	0.5	6	4	0.8	50	2
EMB110602	0.6	2	4	1.0	50	2
EMB110604	0.6	4	4	1.0	50	2
EMB110606	0.6	6	4	1.0	50	2
EMB110608	0.6	8	4	1.0	50	2
EMB110802	0.8	2	4	1.2	50	2
EMB110804	0.8	4	4	1.2	50	2
EMB110806	0.8	6	4	1.2	50	2
EMB110808	0.8	8	4	1.2	50	2
EMB111006	1.0	6	4	1.5	50	2
EMB111008	1.0	8	4	1.5	50	2
EMB111010	1.0	10	4	1.5	50	2
EMB111012	1.0	12	4	1.5	50	2
EMB111014	1.0	14	4	1.5	50	2
EMB111016	1.0	16	4	1.5	50	2
EMB111018	1.0	18	4	1.5	50	2
EMB111020	1.0	20	4	1.5	50	2
EMB111206	1.2	6	4	1.8	50	2
EMB111208	1.2	8	4	1.8	50	2
EMB111210	1.2	10	4	1.8	50	2
EMB111212	1.2	12	4	1.8	50	2
EMB111214	1.2	14	4	1.8	50	2
EMB111216	1.2	16	4	1.8	50	2
EMB111218	1.2	18	4	1.8	50	2
EMB111220	1.2	20	4	1.8	50	2
EMB111506	1.5	6	4	2.5	50	2
EMB111508	1.5	8	4	2.5	50	2
EMB111510	1.5	10	4	2.5	50	2
EMB111512	1.5	12	4	2.5	50	2
EMB111514	1.5	14	4	2.5	50	2
EMB111516	1.5	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.

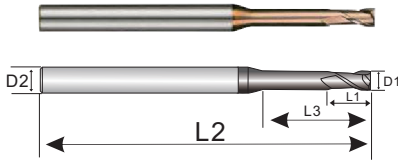
刃径公差 (mm)	柄径公差
MILL DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径DIAMETER 公差TOLERANCE	
~Ø6以下 -0.015-0	H6
Ø6超过 -0.020-0	

EMB 高硬度2刃深沟平底铣刀

Carbide HRC65, 2 Flute Micro Square End Mills, Long Neck

- ★ 在加工工具钢、合金钢、硬度低于HRC65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。

- Excellent performance when cutting tool steels, alloy steels, up to HRC65 which are used for molds & dies.
- 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 Carbon Steels -HB225	合金钢 Alloy Steels +HB225-325	预硬钢 Prehardened Steels +HRc30-40	硬化钢 Hardened Steels HRc40-45	高硬钢 High Hardened Steels HRc45-55	铜 Copper	石墨 Graphite	铸铁 Cast Iron	铝 Aluminum	不锈钢 Stainless Steels	钛 Titanium	镍钴合金 Inconel
○	○	○	○	○	○	○	○	○	○	○	○

◎ 非常适合 ○ 适合

EMB11 SERIES

Unit:mm

优能特订货代码 UNT EDP NO.	刃径 Mill Dia D1	有效长 Effective length L3	柄径 Shank Dia D2	刃长 Flute length L1	全长 O. A. L. L2	刃数 Flutes
EMB111518	1.5	18	4	2.5	50	2
EMB111520	1.5	20	4	2.5	50	2
EMB112006	2.0	6	4	3.0	50	2
EMB112008	2.0	8	4	3.0	50	2
EMB112010	2.0	10	4	3.0	50	2
EMB112012	2.0	12	4	3.0	50	2
EMB112014	2.0	14	4	3.0	50	2
EMB112016	2.0	16	4	3.0	50	2
EMB112018	2.0	18	4	3.0	50	2
EMB112020	2.0	20	4	3.0	50	2
EMB112025	2.0	25	4	3.0	50	2
EMB113008	3.0	8	4	4.5	50	2
EMB113010	3.0	10	4	4.5	50	2
EMB113012	3.0	12	4	4.5	50	2
EMB113014	3.0	14	4	4.5	50	2
EMB113016	3.0	16	4	4.5	50	2
EMB113018	3.0	18	4	4.5	50	2
EMB113020	3.0	20	4	4.5	50	2
EMB113025	3.0	25	4	4.5	50	2
EMB114012	4.0	12	4	6.0	50	2
EMB114014	4.0	14	4	6.0	50	2
EMB114016	4.0	16	4	6.0	50	2
EMB114018	4.0	18	4	6.0	50	2
EMB114020	4.0	20	4	6.0	50	2
EMB114025	4.0	25	4	6.0	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.

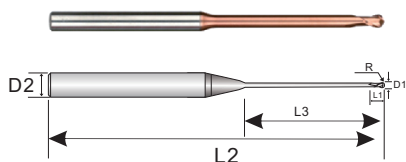
刃径公差 (mm) MILL DIA. TOLERANCE (mm)		柄径公差 SHANK DIA. TOLERANCE
直径 DIAMETER	公差 TOLERANCE	
~Ø6以下	-0.015~0	H6
Ø6超过	-0.020~0	

EMB 高硬度2刃深沟球头铣刀

Carbide HRC65, 2 Flute Micro Ball End Mills, Long Neck

- ★ 在加工工具钢、合金钢、硬度低于HRC65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，半径范围达到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。

- Excellent performance when cutting tool steels, alloy steels, up to Hrc65 which are used for molds & dies.
- 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	镍钴合金
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

EMB12 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
EMB120402	R0.2	2	4	0.6	50	2
EMB120404	R0.2	4	4	0.6	50	2
EMB120502	R0.25	2	4	0.8	50	2
EMB120504	R0.25	4	4	0.8	50	2
EMB120506	R0.25	6	4	0.8	50	2
EMB120602	R0.3	2	4	1.0	50	2
EMB120604	R0.3	4	4	1.0	50	2
EMB120606	R0.3	6	4	1.0	50	2
EMB120608	R0.3	8	4	1.0	50	2
EMB120802	R0.4	2	4	1.2	50	2
EMB120804	R0.4	4	4	1.2	50	2
EMB120806	R0.4	6	4	1.2	50	2
EMB120808	R0.4	8	4	1.2	50	2
EMB120810	R0.4	10	4	1.2	50	2
EMB121006	R0.5	6	4	1.5	50	2
EMB121008	R0.5	8	4	1.5	50	2
EMB121010	R0.5	10	4	1.5	50	2
EMB121012	R0.5	12	4	1.5	50	2
EMB121014	R0.5	14	4	1.5	50	2
EMB121016	R0.5	16	4	1.5	50	2
EMB121018	R0.5	18	4	1.5	50	2
EMB121020	R0.5	20	4	1.5	50	2
EMB121506	R0.75	6	4	2.5	50	2
EMB121508	R0.75	8	4	2.5	50	2
EMB121510	R0.75	10	4	2.5	50	2
EMB121512	R0.75	12	4	2.5	50	2
EMB121514	R0.75	14	4	2.5	50	2
EMB121516	R0.75	16	4	2.5	50	2
EMB121518	R0.75	18	4	2.5	50	2
EMB121520	R0.75	20	4	2.5	50	2
EMB122006	R1.0	6	4	3.0	50	2
EMB122008	R1.0	8	4	3.0	50	2
EMB122010	R1.0	10	4	3.0	50	2
EMB122012	R1.0	12	4	3.0	50	2
EMB122014	R1.0	14	4	3.0	50	2
EMB122016	R1.0	16	4	3.0	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.

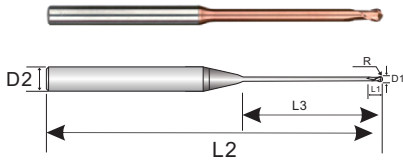
刃径公差 (mm)	柄径公差
MILL. DIA. TOLERANCE (mm)	SHANK DIA. TOLERANCE
直径 INMETER 公差 TOLERANCE	
~Ø6以下 -0.015-0	H6
Ø6超过 -0.020-0	

EMB 高硬度2刃深沟球头铣刀

Carbide HRC65, 2 Flute Micro Ball End Mills, Long Neck

- ★ 在加工工具钢、合金钢、硬度低于HRC65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。

- Excellent performance when cutting tool steels, alloy steels, up to HRC65 which are used for molds & dies.
- 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 Long neck design for deep machining near walls, for deep slotting and pocketing.



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	镍钴合金
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

EMB12 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
EMB122018	R1.0	18	4	3.0	50	2
EMB122020	R1.0	20	4	3.0	50	2
EMB123008	R1.5	8	4	4.5	50	2
EMB123010	R1.5	10	4	4.5	50	2
EMB123012	R1.5	12	4	4.5	50	2
EMB123014	R1.5	14	4	4.5	50	2
EMB123016	R1.5	16	4	4.5	50	2
EMB123018	R1.5	18	4	4.5	50	2
EMB123020	R1.5	20	4	4.5	50	2
EMB124012	R2.0	12	4	6.0	50	2
EMB124014	R2.0	14	4	6.0	50	2
EMB124016	R2.0	16	4	6.0	50	2
EMB124018	R2.0	18	4	6.0	50	2
EMB124020	R2.0	20	4	6.0	50	2
EMB124025	R2.0	25	4	6.0	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。

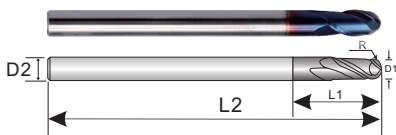
Non-standard size or product parameters not listed above, can be customized according to customer needs.

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

EMB 高硬度专用钨钢蓝色涂层球头铣刀 **2 flute Carbide Ball End mills, Blue Naco-Coated.**

- ★ 设计用于加工工具钢，合金钢，模具钢和HRC65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。
- ★ 切割直径小至0.01mm。
- ★ 适用于轮廓加工、插削加工、倒角加工。

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials HRC65.
- 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	镍钴合金
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

EMB17 SERIES

Unit:mm

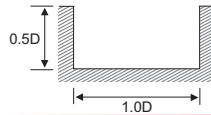
优能特订货代码	球半径	刃径	柄径	刃长	全长	刃数
UNT EDP NO.	Radius of Ball R	Mill Dia D1	Shank Dia D2	Flute length L1	O. A. L. L2	Flutes
EMB170034	R0.15	0.3	4	0.6	50	2
EMB170044	R0.2	0.4	4	0.8	50	2
EMB170054	R0.25	0.5	4	1	50	2
EMB170064	R0.3	0.6	4	1.2	50	2
EMB170074	R0.35	0.7	4	1.4	50	2
EMB170084	R0.4	0.8	4	1.6	50	2
EMB170094	R0.45	0.9	4	1.8	50	2
EMB170104	R0.5	1.0	4	2	50	2
EMB170154	R0.75	1.5	4	3	50	2
EMB170204	R1.0	2.0	4	4	50	2
EMB170254	R1.25	2.5	4	5	50	2
EMB170304	R1.5	3.0	4	6	50	2
EMB170303	R1.5	3.0	3	6	50	2
EMB170404	R2.0	4.0	6	8	50	2
EMB170106	R0.5	1.0	6	2	50	2
EMB170156	R0.75	1.5	6	3	50	2
EMB170206	R1.0	2.0	6	4	50	2
EMB170256	R1.25	2.5	6	5	50	2
EMB170306	R1.5	3.0	6	6	50	2
EMB170406	R2.0	4.0	6	8	50	2
EMB170500	R2.5	5.0	6	10	50	2
EMB170600	R3.0	6.0	6	12	50	2
EMB170700	R3.5	7.0	8	14	60	2
EMB170800	R4.0	8.0	8	16	60	2
EMB171000	R5.0	10.0	10	20	75	2
EMB171200	R6.0	12.0	12	24	75	2
EMB171600	R8.0	16.0	16	32	100	2
EMB172000	R10.0	20.0	20	40	100	2

以上产品未列明明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	

EMB01 SERIES

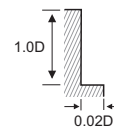
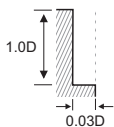
材质	硬化钢、耐热钢		硬化钢							
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL							
HARDNESS	HRc 30~HRc 40		HRc 40~HRc 50		Hrc 50~HRc 55		Hrc 55~HRc 60		Hrc 60~HRc 65	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
0.5	18750	130	16875	100	15000	80	12375	50	9375	30
0.6	18750	165	16875	130	15000	100	11250	55	9375	40
0.8	18750	210	16875	150	11250	100	9375	60	7125	40
1	18000	260	14250	200	9560	130	7690	80	6000	50
2	12490	300	9750	240	6560	150	5440	90	4125	55
3	8175	300	6490	240	4610	150	3560	90	2810	55
4	6260	310	4950	250	3300	160	2700	95	2100	60
5	5890	350	4690	280	3110	180	2400	100	1910	60
6	4910	330	3880	270	2590	170	1990	100	1575	60
8	3705	330	2950	250	1950	160	1500	90	1200	60
10	2925	300	2310	240	1540	150	1200	85	960	60
12	2490	300	1970	240	1310	150	990	85	790	60



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

EMB01 SERIES

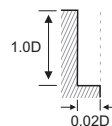
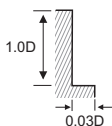
材质	硬化钢、耐热钢		硬化钢							
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL							
HARDNESS	HRc 30~HRc 40		HRc 40~HRc 50		Hrc 50~HRc 55		Hrc 55~HRc 60		Hrc 60~HRc 65	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
0.5	18750	90	16875	70	15000	55	12375	35	9375	20
0.6	18750	120	16875	90	15000	70	11250	40	9375	30
0.8	18750	150	16875	110	11250	70	9375	40	7125	30
1	18000	370	14250	290	9560	180	7690	110	6000	70
2	12490	420	9750	340	6560	210	5440	130	4125	80
3	8175	420	6490	340	4610	210	3560	130	2810	80
4	6260	440	4950	350	3300	220	2700	135	2100	85
5	5890	510	4690	405	3110	250	2400	140	1910	90
6	4910	475	3880	390	2590	240	1990	140	1575	90
8	3705	465	2950	360	1950	220	1500	130	1200	80
10	2925	420	2310	340	1540	210	1200	120	960	80
12	2490	420	1970	340	1310	210	990	120	790	80



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

EMB03 SERIES

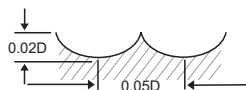
材质	硬化钢、耐热钢		硬化钢							
MATERIAL	HARDENED STEEL HEAT RESISTANT STEEL		HARDENED STEEL							
HARDNESS	Hrc 30~Hrc 40		Hrc 40~Hrc 50		Hrc 50~Hrc 55		Hrc 55~Hrc 60		Hrc 60~Hrc 65	
DIAMETER	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
1	24000	814	19000	578	12750	391	10250	237	8000	149
2	16650	963	13000	688	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、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	
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)



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