硬质合金标准铣刀

硬质合金标准铣刀介绍 140
硬质合金标准铣刀索引 148
硬质合金标准铣刀尺寸表 155
SMC整体硬质合金光面铣刀 156
DEM整体硬质合金波刃铣刀 168
EM整体硬质合金平头铣刀 172
REM整体硬质合金圆鼻铣刀 200
BEM整体硬质合金球头铣刀 221
ALM整体硬质合金铝用铣刀 240
硬质合金标准钻头切削参数 253
SMC整体硬质合金光面铣刀 254
DEM整体硬质合金波刃铣刀 264
EM整体硬质合金平头铣刀 268
REM整体硬质合金圆鼻铣刀 292
BEM整体硬质合金球头铣刀 300
ALM整体硬质合金铝用铣刀 308

SMC系列铣刀 / SMC Endmills

光面铣刀——不等分割．不等导程/
Surface Milling Cutter-Unequal Indexing Flutes, Variable Leads

不等分割/Unequal Indexing Flutes　　不等导程/Variable Leads

A1、A2、A3
不是固定值
Different Between
Each Other



L1、L2、L3、L4
不是固定值
Different Between
Each Other

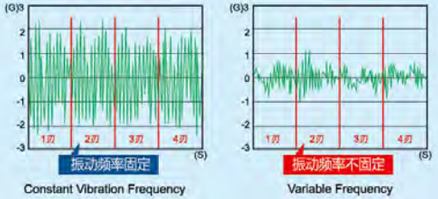
产品特点 / Features

■ 不等分割、不等距导程，通过连续变化外周刃的分割比例，有效抑制了切削的周期性应力与细微的振动。
Uneven indexing, variable lead restraining the vibration and chatter.



■ 针对加工材料的不同，和加工状况不同，设计不同的分割比例。
Design different uneven value according to different material and case.

■ 加工时切削频率不固定，可以避免共振产生，降低振刀现象的产生。
Having no fixed machining frequency avoiding vibration and reducing chatter.



Constant Vibration Frequency　　Variable Frequency

■ 加工表面光洁度好。
High surface quality.




标准铣刀
Normal End Mill

光面铣刀
End Mill with Unequal Indexing

可加工材料 /Application Work Material

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
ST	◎	◎	◎	◎	○	○			○	○	◎		○	
HT	◎	◎	◎	◎	◎	○			◎	◎	◎		○	

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

可选类型和尺寸范围 / Types available and diameter ranges

SMC整体硬质合金四刃平头光面铣刀（不等分割）　Φ3.0-20.0mm
SMC Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)



SMC整体硬质合金四刃光面圆鼻铣刀（不等分割）　Φ6.0-20.0mm
SMC Solid Carbide Corner Radius End Mill with Four Cutting Edges (Uneven Indexing)



SMC长径型整体硬质合金四刃平头光面铣刀（不等分割）　Φ3.0-20.0mm
SMC Long Type Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)



SMC整体硬质合金六刃平头光面铣刀（不等分割）　Φ6.0-20.0mm
SMC Solid Carbide End Mill with Six Cutting Edges (Uneven Indexing)



波刃铣刀——高效率粗加工铣刀

Wave Edge End Mill -- High Efficiency Roughing Milling Cutter



产品特点 / Features

■ 采用最佳的螺旋角与波纹形状，大幅提高了切削刃的抗崩刃性。
Optimizational wave shape improving cutting performance.

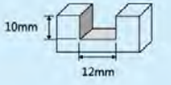




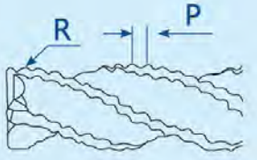
■ 通过采用宽切屑排出槽，提高了切屑排出性。可应对不锈钢与耐热合金等难削材的加工。
Wave cutting edge cutting off chip easily being suitable for machining stainless steel and high-temperature alloy.

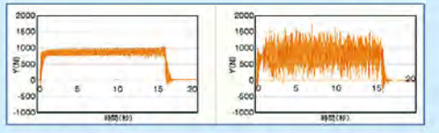


■ 提高了耐磨性缺损的可靠性，从沟槽加工到型腔加工都可发挥超强的切削性能，且加工稳定。
Improving the countering wear being suitable for slot and cavity stable machining case.



■ 根据加工材料和刀具直径的不同，设计不同的波纹波距和波纹圆弧半径。
Designing different wave length and radius according to different material and diameter.





AST波刃铣刀/ AST Wave-Edge End Mill　　一般波刃铣刀/ Normal Wave-Edge End Mill

可加工材料 /Application Work Material

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
DEM4-STA	◎	◎	◎	◎	○	○			○	○	◎		○	

可选类型和尺寸范围 / Types available and diameter ranges　　尺寸范围：Φ6.0-32.0mm

DEM整体硬质合金四刃波刃铣刀 / DEM Solid Carbide Rough Wave End Mill with Four Cutting Edges



AST Advanced Smart Technology

通用型立铣刀 Universal End Mill

HTA/STA/ST三大系列



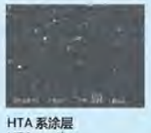
高性能通用铣刀HTA系列产品特点 / Features of HTA Series High-Performance End Mill

■ 精选了高硬度基材配以HTA系涂层，提高了耐氧化性，提高耐热和耐磨性。

Carefully selected High-strength carbide and coating cemented carbide, improve the oxidation resistance, heat resistance, wear resistance.

■ HTA系涂层抑制涂层表面产生宏观粒子，改善了平滑性，以降低摩擦阻力，提高耐熔腐性。

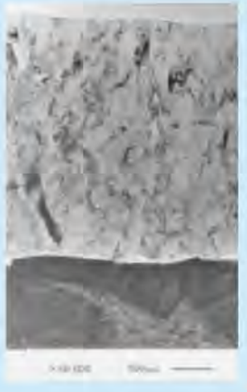
Fewer macroparticles on film surface result in improved smoothness. Reduced abrasion and better deposition resistance improved wear and adhesion resistance.



HTA 系涂层
HTA coating



以往涂层
Conventional coating



HTA系耐氧化层 HTAoxidation prevention layer

HTA系耐磨性层 HTAwear resistance layer

采用细微组织提高涂层的强度 Microstructure provides higher film strength

高硬度基材 High-strength carbide material

■ 通过采用独一无二的切削刃设计，提高铣削的排屑顺畅的同时又确保刃角的刚性，可适合HRC55以下材料及不锈钢、耐热合金、钛镍合金、铸铁、铜合金等材料加工。

Unique geometry improves chip removal and tool rigidity. So the tool can machine≤HRC55 following materials, stainless steel, heat-resistant alloys, titanium, nickel alloys, cast iron, copper alloys, etc.

■ 高性能硬质合金基体

选择高性能超细颗粒硬质合金作为基体，确保刀具的高效率和高寿命，且在加工耐热合金等难加工材料性能也很优异。

基准型通用铣刀STA系列产品特点 / Features of STA Series Basic Type End Mill

■ 高性能涂层提高刀具寿命

TA系列涂层可抑制涂层表面产生宏观粒子，改善了平滑性，以降低摩擦阻力，提高耐熔腐性提高耐热和耐磨性，从而提高刀具寿命。

■ 高耐崩刃性

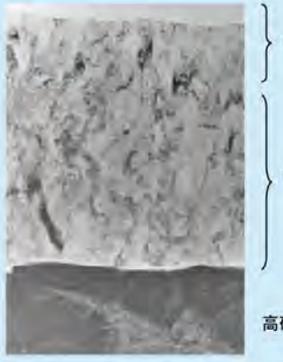
底刃和外周刃做了特殊设计，提高了刃尖强度，使刀具耐崩刃性好，同时提高加工地面的光洁度。

■ 可适合多种材料加工的独特刃型设计

通过采用独特的切削刃设计，提高铣削的排屑顺畅的同时又确保刃角的刚性，可适合HRC52以下材料及不锈钢、耐热合金、钛镍合金、铸铁、铜合金等材料加工。

■ STA：经济且性能优异硬质合金基体

精选较经济且性能优异的硬质合金作为基体，使刀具加工稳定且有很高的性价比。



TA系列耐氧化层
TA系列耐磨层
采用细微组织提高涂层的强度
高硬度基材

经济型通用铣刀ST系列产品特点 / Features of ST Series Economical Type End Mill

■ ST涂层确保稳定的刀具寿命

精选了ST系列经济且性能优秀的复核涂层，增加润滑性和耐磨性，抑制积屑瘤的产生，并可确保刀具有稳定的高寿命。

■ 可适合多种材料加工的独特刃型设计

通过采用独特的切削刃设计，提高铣削的排屑顺畅的同时又确保刃角的刚性，可适合多种材料的加工。

■ 高耐崩刃性

底刃和外周刃做了特殊设计，提高了刃尖强度，使刀具耐崩刃性好，同时提高加工地面的光洁度。

■ 经济且性能优异硬质合金基体

精选较经济且性能优异的硬质合金作为基体，使刀具加工稳定且有很高的性价比。

可加工材料 /Application Work Material

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
ST	◎	◎	◎	◎	◎				○		○		○	
STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	
HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

ST/STA/HTA系列的区别 / Difference between ST/STA/HTA Series

通用铣刀的系列	切削刃设计	基体	涂层
ST	适合多种材料加工的切削刃设计	经济型基体	经济性通用涂层
STA	适合多种材料加工的切削刃设计	标准基体	适合铣刀的高性能涂层
HTA	适合多种材料加工的切削刃设计	高性能基体	适合铣刀的高性能涂层

可选类型和尺寸范围 / Types available and diameter ranges

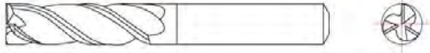
EM整体硬质合金两刃平头铣刀 Φ1.5-32.0mm
EM Solid Carbide End Mill with Two Cutting Edges



LEM整体硬质合金两刃深沟平头铣刀 Φ2.0-4.0mm
LEM Long Neck Solid Carbide End Mill with Two Cutting Edges



EM整体硬质合金三刃平头铣刀 Φ2.0-32.0mm
EM Solid Carbide End Mill with Three Cutting Edges



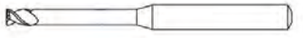
LEM整体硬质合金四刃深沟平头铣刀 Φ2.0-6.0mm
LEM Long Neck Solid Carbide End Mill with Four Cutting Edges



EM整体硬质合金四刃平头铣刀 Φ4.0-32.0mm
EM Solid Carbide End Mill with Four Cutting Edges



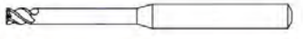
LREM整体硬质合金两刃深沟圆鼻铣刀 Φ2.0-6.0mm
LREM Long Neck Solid Carbide Radius End Mill with Two Cutting Edges



REM整体硬质合金两刃圆鼻铣刀 Φ1.0-20.0mm
REM Solid Carbide Corner Radius End Mill with Two Cutting Edges



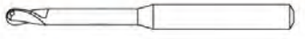
LREM整体硬质合金四刃深沟圆鼻铣刀 R1.0-2.0mm
LREM Long Neck Solid Carbide Radius End Mill With Four Cutting Edges



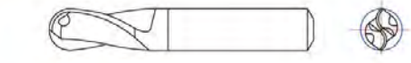
REM整体硬质合金四刃圆鼻铣刀 Φ3.0-12.0mm
REM Solid Carbide Corner Radius End Mill with Four Cutting Edges



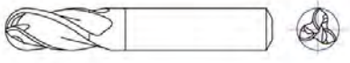
LBEM整体硬质合金两刃深沟球头铣刀 Φ3.0-20.0mm
LBEM Long Neck Solid Carbide Ball End Mill with Two Cutting Edges



BEM整体硬质合金两刃球头铣刀 R1.0-16.0mm
BEM Solid Carbide Ball End Mill with Two Cutting Edges



BEM整体硬质合金三刃球头铣刀 R2.0-16.0mm
BEM Solid Carbide Ball End Mill with Three Cutting Edges



BEM整体硬质合金四刃球头铣刀 R2.0-16.0mm
BEM Solid Carbide Ball End Mill with Four Cutting Edges



Advanced Smart Technology

HS系列——高硬度加工用铣刀
HS Series--High Hardness Processing Milling



产品特点 / Features

- 精选了超高硬度基材配以超耐热性HS系涂层，使刀具具备超强的耐热性，可加工HRC65以下所有热处理后材料。
  Careful selection super high hardness carbide and super heat-resistant HS coating, the milling has superior heat resistance, so all heat-treated material of HRC65 below can be Machined.
- 采用高硬度超微粒子系低Co超硬合金母材，有效抑制超高速加工中产生的细微塑性变形，提高了刀具寿命。
  High hardness and ultrafine particles low-Co cemented carbide, tiny plastic deformation effectively suppressed produced ultra high-speed processing, improved tool life.
- 采用特殊的研磨技术，实现了较高的形状精度和尺寸精度，可进行高精度的加工
  Using special grinding tool technology to achieve a high shape accuracy and dimensional accuracy, high precision machining can be performed.



可加工材料 / Application Work Material

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
HS	○	○	○	○	○	◎	◎	◎	○	○	○		◎	

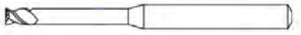
备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

可选类型和尺寸范围 / Types available and diameter ranges

EM整体硬质合金两刃平头铣刀 Φ1.5-12.0mm
EM Solid Carbide End Mill with Two Cutting Edges



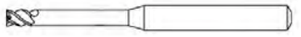
LEM整体硬质合金两刃深沟平头铣刀 Φ0.1-4.0mm
LEM Long Neck Solid Carbide End Mill with Two Cutting Edges



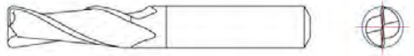
EM整体硬质合金四刃平头铣刀 Φ1.0-12.0mm
EM Solid Carbide End Mill with Four Cutting Edges



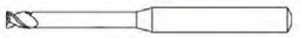
LEM整体硬质合金四刃深沟平头铣刀 Φ1.0-6.0mm
LEM Long Neck Solid Carbide End Mill with Four Cutting Edges



REM整体硬质合金两刃圆鼻铣刀 Φ1.0-20.0mm
REM Solid Carbide Corner Radius End Mill with Two Cutting Edges



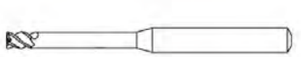
LREM整体硬质合金两刃深沟圆鼻铣刀 Φ0.5-6.0mm
LREM Long Neck Solid Carbide Radius End Mill with Two Cutting Edges



BEM整体硬质合金两刃球头铣刀 R0.05-6.0mm
BEM Solid Carbide Ball End Mill with Two Cutting Edges



LREM整体硬质合金四刃深沟圆鼻铣刀 Φ1.0-12.0mm
LREM Long Neck Solid Carbide Radius End Mill With Four Cutting Edges



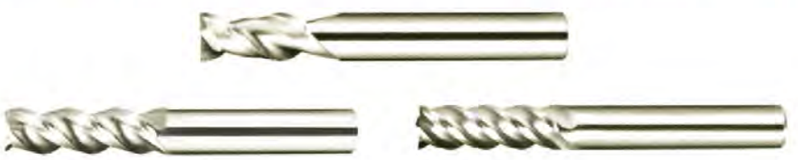
BEM整体硬质合金四刃球头铣刀 R1.0-6.0mm
BEM Solid Carbide Ball End Mill with Four Cutting Edges



LBEM整体硬质合金两刃深沟球头铣刀 R0.1-2.0mm
LBEM Long Neck Solid Carbide Ball End Mill with Two Cutting Edges

AST Advanced Smart Technology

SA 系列经济型铝用铣刀
SA Series Economical Type End Mill for Aluminum Alloy



产品特点 / Feature

- **刃部平滑性好，提高加工面光洁度**
  刃部做特殊的钝化处理，确保刃部的平滑且锋利，提高加工表面的光洁度；
- **刀尖保护处理，提高抗崩刃性**
  刃尖采用刀尖保护处理，确保刃尖的锋利度的情况提高刀尖抗崩刃性。
- **螺旋槽做特殊的抛光处理**
  螺旋槽做特殊的抛光处理，使加工时排屑通畅，不容易产生积屑瘤。
- **经济且性能优异硬质合金基体**
  精选较经济且性能优异的硬质合金作为基体，使刀具加工稳定且有很高的性价比。





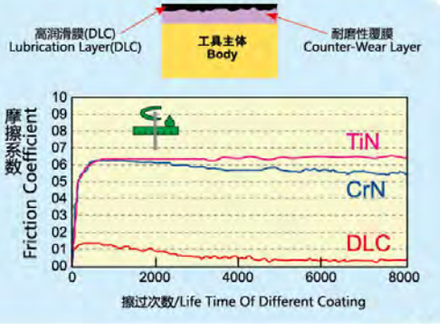
AST Advanced Smart Technology

SD 系列高性能铝用铣刀 ——DLC 涂层
SD Series High-performance Type End Mill for Aluminum Alloy--DLC Coating



产品特点 / Features

- 摩擦系数小，平滑性好，并且与铝合金的亲和力差，铝材不易粘附。
  Low friction coefficient, void adhering to the chip.
- DLC膜的硬度达到3500~4000HV，耐磨损性非常好。
  Hardness of DLC 3500~4000HV, good counter-wear ability.
- 高性能润滑膜使刀具不易产生积屑瘤——实现干式加工效果也很好。
  Reducing the edge built up- realizing the dry machining.
- 使耐磨损的覆盖膜变的平滑——切削卷变径小，排屑通畅。
  Smooth layer to evacuate chip easily.



可加工材料 / Application Work Material

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
SA												◎	○	◎
SD												◎	◎	◎

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合) Selection Chart(◎ Most Suitable ○ Suitable)

可选类型和尺寸范围 / Types available and diameter ranges

ALM铝用整体硬质合金两刃平头铣刀 Φ1.0-32.0mm
ALM Solid Carbide End Mill with Two Cutting Edges for Aluminium Alloy



ALM铝用整体硬质合金三刃平头铣刀 Φ3.0-32.0mm
ALM Solid Carbide End Mill with Three Cutting Edges for Aluminium Alloy



ALM 铝用整体硬质合金四刃平头铣刀 Φ4.0-32.0mm
ALM Solid Carbide End Mill with Four Cutting Edges for Aluminium Alloy



索引——铣刀

选择基准—钻头（◎：很适合,○：适合） Selection Chart—Drill （◎: Most Suitable,○: Suitable)

刀具形状 Appearance	名称 Name	刃数 Flutes	系列 Series	尺寸范围 Stocked Size Min	尺寸范围 Stocked Size Max		页码 Page 尺寸 Size	页码 Page 切削参数 Drilling Condition	被切削材料 Work Material 结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel HRC30-45	HRC45-55	HRC55-60	> HRC60	不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys, Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
SMC 系列硬质合金光面铣刀（不等分割）																						
	SMC 整体硬质合金四刃平头光面铣刀（不等分割）——基准型 SMC Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)——Basic Type	4	STA	3	20		156	254	◎	◎	◎	◎	◎	○			○	○	◎		○	
	SMC 整体硬质合金四刃光面圆鼻铣刀（不等分割）——基准型 SMC Solid Carbide Corner Radius Eed Mill with Four Cutting Edges (Uneven Indexing)——Basic Type	4	STA	6	20		160	258	◎	◎	◎	◎	◎	○			○	○	◎		○	
	SMC 长径型整体硬质合金四刃平头光面铣刀（不等分割）——基准型 SMC Long Type Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)——Basic Type	4	STA	3	20		164	260	◎	◎	◎	◎	◎	○			○	○	◎		○	
	SMC 整体硬质合金六刃平头光面铣刀（不等分割）——基准型 SMC Solid Carbide End Mill with Six Cutting Edges (Uneven Indexing)——Basic Type	6	STA	6	20		166	262	◎	◎	◎	◎	◎	○			○	○	◎		○	
	SMC 整体硬质合金四刃平头光面铣刀（不等分割）——高性能型 SMC Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)——High-performance Type	4	HTA	3	20		158	255	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	SMC 整体硬质合金四刃光面圆鼻铣刀（不等分割）——高性能型 SMC Solid Carbide Corner Radius End Mill with Four Cutting Edges (Uneven Indexing)——High-performance Type	4	HTA	6	20		162	258	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	SMC 长径型整体硬质合金四刃平头光面铣刀（不等分割）——高性能型 SMC Long Type Solid Carbide Eed Mill with Four Cutting Edges (Uneven Indexing)——High-performance Type	4	HTA	3	20		165	260	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	SMC 整体硬质合金六刃平头光面铣刀（不等分割）——高性能型 SMC Solid Carbide End Mill with Six Cutting Edges (Uneven Indexing)——High-performance Type	6	HTA	6	20		167	262	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
硬质合金波刃铣刀																						
	DEM 整体硬质合金四刃波刃铣刀——基准型 DEM Solid Carbide Rough Wave End Mill with Four Cutting Edges——Basic Type	4	STA	6	32		168	264	◎	◎	◎	◎	◎	○			○	○	◎		○	
	DEM 整体硬质合金四刃波刃铣刀——高性能型 DEM Solid Carbide Rough Wave End Mill with Four Cutting Edges——High-performance Type	4	HTA	6	32		70	265	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
硬质合金通用铣刀 - 平刃																						
	EM 整体硬质合金两刃平头刃——经济型 EM Solid Carbide End Mill with Two Cutting Edges——Economical Type	2	ST	1.5	32		172	268	◎	◎	◎	◎	◎				○		○		○	
	EM 整体硬质合金两刃平头刃——基准型 EM Solid Carbide End Mill with Two Cutting Edges——Basic Type	2	STA	1.5	32		174	269	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	EM 整体硬质合金两刃平头刃——高性能型 EM Solid Carbide End Mill with Two Cutting Edges——High-performance Type	2	HTA	1.5	32		176	270	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	EM 整体硬质合金两刃平头刃——高硬度型 EM Solid Carbide End Mill with Two Cutting Edges——High Hardness Processing Type	2	HS	1.5	32		178	271	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
	LEM 整体硬质合金两刃深沟平头刃——基准型 LEM Long Neck Solid Carbide End Mill with Two Cutting Edges ——Basic Type	2	STA	2	4		180	276	◎	◎	◎	◎	◎	○			◎	△	◎		○	
	LEM 整体硬质合金两刃深沟平头刃——高硬度型 LEM Long Neck Solid Carbide End Mill with Two Cutting Edges——High Hardness Processing Type	2	HS	0.1	4		182	277	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
	EM 整体硬质合金三刃平头刃——基准型 EM Solid Carbide End Mill with Three Cutting Edges——Basic Type	3	STA	2	32		184	280	◎	◎	◎	◎	◎	○			◎	△	◎		○	

索引——铣刀

选择基准—钻头（◎：很适合,○：适合） Selection Chart—Drill （◎: Most Suitable,○: Suitable)

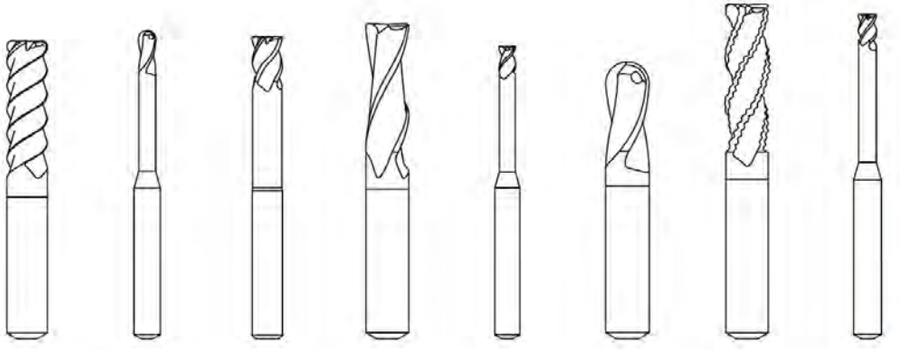
刀具形状 Appearance	名称 Name	刃数 Flutes	系列 Series	尺寸范围 Stocked Size Min	尺寸范围 Stocked Size Max		页码 Page 尺寸 Size	页码 Page 切削参数 Drilling Condition	被切削材料 Work Materia 结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel HRC30-45	HRC45-55	HRC55-60	HRC60-	不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys, Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
硬质合金通用铣刀 - 平刀																						
	EM 整体硬质合金三刃平头刀——高性能型 EM Solid Carbide End Mill with Three Cutting Edges——High-performance Type	3	HTA	2	32		186	281	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	EM 整体硬质合金四刃平头刀——经济型 EM Solid Carbide End Mill with Four Cutting Edges——Economical Type	4	ST	4	32		188	284	◎	◎	◎	◎	◎				○		○		○	
	EM 整体硬质合金四刃平头刀——基准型 EM Solid Carbide End Mill with Four Cutting Edges——Basic Type	4	STA	4	32		190	284	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	EM 整体硬质合金四刃平头刀——高性能型 EM Solid Carbide End Mill with Four Cutting Edges——High-performance Type	4	HTA	4	32		192	285	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	EM 整体硬质合金四刃平头刀——高硬度型 EM Solid Carbide End Mill with Four Cutting Edges——High Hardness Processing Type	4	HS	1	12		194	285	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
	LEM 整体硬质合金四刃深沟平头刀——基准型 LEM Long Neck Solid Carbide End Mill with Four Cutting Edges——Basic Type	4	STA	2	4		196	288	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	LEM 整体硬质合金四刃深沟平头刀——高硬度型 LEM Long Neck Solid Carbide End Mill with Four Cutting Edges——High Hardness Processing Type	4	HS	1	6		198	289	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
硬质合金通用铣刀 - 圆鼻刀																						
	REM 整体硬质合金两刃圆鼻刀——经济型 REM Solid Carbide Corner Radius End Mill with Two Cutting Edges——Economical Type	2	ST	1	20		200	292	◎	◎	◎	◎	◎				○		○		○	
	REM 整体硬质合金两刃圆鼻刀——基准型 REM Solid Carbide Corner Radius End Mill with Two Cutting Edges——Basic Type	2	STA	1	20		202	292	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	REM 整体硬质合金两刃圆鼻刀——高性能型 REM Solid Carbide Corner Radius End Mill with Two Cutting Edges——High-performance Type	2	HTA	1	20		204	292	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	LREM 整体硬质合金两刃深沟圆鼻刀——基准型 LREM Long Neck Solid Carbide Corner Radius End Mill with Two Cutting Edges——Basic Type	2	STA	2	6		206	294	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	LREM 整体硬质合金两刃深沟圆鼻刀——高硬度型 LREM Long Neck Solid Carbide Corner Radius End Mill with Two Cutting Edges——High Hardness Processing Type	2	HS	0.5	6		208	294	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
	REM 整体硬质合金四刃圆鼻刀——经济型 REM Solid Carbide Corner Radius End Mill with Four Cutting Edges——Economical Type	4	ST	3	20		210	296	◎	◎	◎	◎	◎				○		○		○	
	REM 整体硬质合金四刃圆鼻刀——基准型 REM Solid Carbide Corner Radius End Mill with Four Cutting Edges——Basic Type	4	STA	3	20		212	296	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	REM 整体硬质合金四刃圆鼻刀——高性能型 REM Solid Carbide Corner Radius End Mill with Four Cutting Edges——High-performance Type	4	HTA	3	20		214	296	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	LREM 整体硬质合金四刃深沟圆鼻刀——基准型 LREM Long Neck Solid Carbide Corner Radius End Mill with Four Cutting Edges——Basic Type	4	STA	3	12		216	298	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	LREM 整体硬质合金四刃深沟圆鼻刀——高硬度型 LREM Long Neck Solid Carbide Corner Radius End Mill with Four Cutting Edges——High Hardness Processing Type	4	HS	0.5	6		218	298	○	○	○	○	○	◎	◎	◎	○	○	○		◎	

索引——铣刀

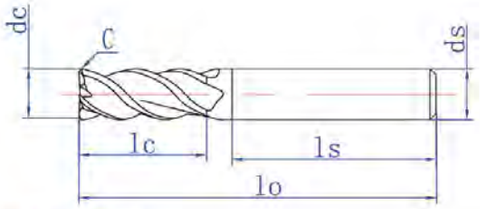
选择基准—钻头（◎：很适合,○：适合）　Selection Chart—Drill（◎：Most Suitable,○：Suitable）

刀具形状 Appearance	名称 Name	刃数 Flutes	系列 Series	尺寸范围 Stocked Size Min	尺寸范围 Stocked Size Max		页码 Page 尺寸 Size	页码 Page 切削参数 Drilling Condition	被切削材料 Work Materia 结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Stee	调质钢、模具钢、高硬度钢 Hardened Steel HRC30 -45	HRC45 -55	HRC55 -60	:- HRC60	不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys, Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
硬质合金通用铣刀 - 球刀																						
	BEM 整体硬质合金两刃球头刀——经济型 BEM Solid Carbide Ball End Mill with Two Cutting Edges——Economical Type	2	ST	2	12		221	300	◎	◎	◎	◎	◎				○		○		○	
	BEM 整体硬质合金两刃球头刀——基准型 BEM Solid Carbide Ball End Mill with Two Cutting Edges——Basic Type	2	STA	2	12		222	300	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	BEM 整体硬质合金两刃球头刀——高性能型 BEM Solid Carbide Ball End Mill with Two Cutting Edges ——High-performance Type	2	HTA	2	12		223	301	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	BEM 整体硬质合金两刃球头刀——高硬度型 BEM Solid Carbide Ball End Mill with Two Cutting Edges ——High Hardness Processing Type	2	HS	0.1	12		224	301	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
	LBEM 整体硬质合金两刃深沟球头刀——基准型 LBEM Long Neck Solid Carbide Ball End Mill with Two Cutting Edges ——Basic Type	2	STA	2	4		226	302	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	LBEM 整体硬质合金两刃深沟球头刀——高硬度型 LBEM Long Neck Solid Carbide Ball End Mill with Two Cutting Edges ——High Hardness Processing Type	2	HS	0.2	4		227	302	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
	BEM 整体硬质合金三刃球头刀——基准型 BEM Solid Carbide Ball End Mill with Three Cutting Edges——Basic Type	3	STA	4	32		229	304	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	BEM 整体硬质合金三刃球头刀——高性能型 BEM Solid Carbide Ball End Mill with Three Cutting Edges ——High-performance Type	3	HTA	4	32		231	304	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	BEM 整体硬质合金四刃球头刀——经济型 BEM Solid Carbide Ball End Mill with Four Cutting Edges——Economical Type	4	ST	4	32		233	306	◎	◎	◎	◎	◎				○		○		○	
	BEM 整体硬质合金四刃球头刀——基准型 BEM Solid Carbide Ball End Mill with Four Cutting Edges——Basic Type	4	STA	4	32		235	306	◎	◎	◎	◎	◎	○			◎	○	◎		○	
	BEM 整体硬质合金四刃球头刀——高性能型 BEM Solid Carbide Ball End Mill with Four Cutting Edges ——High-performance Type	4	HTA	4	32		237	307	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	
	BEM 整体硬质合金四刃球头刀——高硬度型 BEM Solid Carbide Ball End Mill with Four Cutting Edges ——High Hardness Processing Type	4	HS	2	12		239	307	○	○	○	○	○	◎	◎	◎	○	○	○		◎	
硬质合金铝用铣刀																						
	ALM 铝用整体硬质合金两刃平头刀——基准型 ALM Solid Carbide End Mill with Two Cutting Edges for Aluminuma Alloys ——Basic Type	2	SA	1	32		240	308													◎	○	◎
	ALM 铝用整体硬质合金两刃平头刀——高性能型 ALM Solid Carbide End Mill with Two Cutting Edges for Aluminuma Alloys ——High-performance Type	2	SD	1	32		242	309													◎	◎	◎
	ALM 铝用整体硬质合金三刃平头刀——基准型 ALM Solid Carbide End Mill with Three Cutting Edges for Aluminuma Alloys ——Basic Type	3	SA	3	32		244	310													◎	○	◎
	ALM 铝用整体硬质合金三刃平头刀——高性能型 ALM Solid Carbide End Mill with Three Cutting Edges for Aluminuma Alloys ——High-performance Type	3	SD	3	32		246	311													◎	◎	◎
	ALM 铝用整体硬质合金四刃平头刀——基准型 ALM Solid Carbide End Mill with Four Cutting Edges for Aluminuma Alloys ——Basic Type	4	SA	4	32		248	312													◎	○	◎
	ALM 铝用整体硬质合金四刃平头刀——高性能型 ALM Solid Carbide End Mill with Four Cutting Edges for Aluminuma Alloys ——High-performance Type	4	SD	4	32		250	313													◎	◎	◎

整体硬质合金标准立铣刀产品尺寸表



● SMC 整体硬质合金四刃平头光面铣刀（不等分割）— 基准型
SMC Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)--Basic Type







刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为+0.02/0;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3，C=0.05～0.1；φ3＜D≤φ8，C=0.1;
φ8＜D≤φ12，C=0.15；φ12＜D≤φ16，C=0.2；D＞φ16，C=0.3;
6、螺旋角度为36~37度;
7、加工面的光洁度高，特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0
3、Tolerance of shank h6
4、Having end cutting edge with tip angle
5、Dimension of chamfer on the corner C value:
D≤Φ3，C=0.05－0.1；Φ3＜D≤Φ8，C=0.1;
Φ8＜D≤Φ12，C=0.15；Φ12＜D≤Φ16，C=0.2；D＞Φ16，C=0.3
6、Helix angle 36°-37°
7、Achieving high surface quality especially for slot and side machining case.

单位：mm

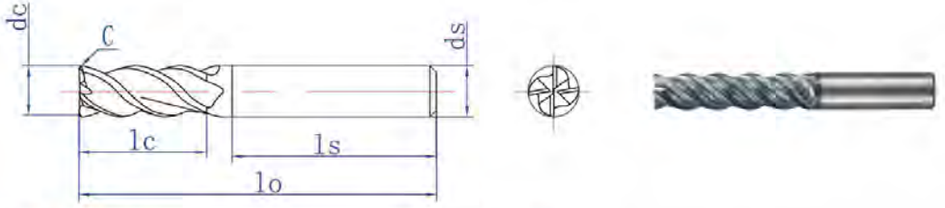
基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列（涂层） STA Series（Coating）	dc	lc	ds	lo
UTM4030075STA	3.0	7.5	6	45
UTM4030120STA	3.0	12	6	50
UTM4040100STA	4.0	10	6	45
UTM4040160STA	4.0	16	6	50
UTM4050125STA	5.0	12.5	6	50
UTM4050200STA	5.0	20	6	60
UTM4060150STA	6.0	15	6	60
UTM4060240STA	6.0	24	6	60
UTM4080200STA	8.0	20	8	60
UTM4080320STA	8.0	32	8	80
UTM4090225STA	9.0	22.5	10	70
UTM4100250STA	10.0	25	10	70
UTM4100400STA	10.0	40	10	90
UTM4110275STA	11.0	27.5	12	75
UTM4120300STA	12.0	30	12	75
UTM4120480STA	12.0	48	12	100

基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列（涂层） STA Series（Coating）	dc	lc	ds	lo
UTM4130325STA	13.0	32.5	12	75
UTM4150375STA	15.0	37.5	16	90
UTM4160400STA	16.0	40	16	90
UTM4160640STA	16.0	64	16	120
UTM4180450STA	18.0	45	20	100
UTM4200500STA	20.0	50	20	100
UTM4200800STA	20.0	80	20	140

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
UTM4-STA	◎	◎	◎	◎	○	○			○	○	◎		○	

● SMC 整体硬质合金四刃平头光面铣刀（不等分割）-- 高性能型
SMC Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)--High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为+0.02/0;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3，C=0.05－0.1；φ3＜D≤φ8，C=0.1;
φ8＜D≤φ12，C=0.15；φ12＜D≤φ16，C=0.2；D＞φ16，C=0.3;
6、螺旋角度为36~37度;
7、加工面的光洁度高，特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0
3、Tolerance of shank h6
4、Having end cutting edge with tip angle
5、Dimension of chamfer on the corner C value:
D≤Φ3，C=0.05－0.1；Φ3＜D≤Φ8，C=0.1;
Φ8＜D≤Φ12，C=0.15；Φ12＜D≤Φ16，C=0.2；D＞Φ16，C=0.3
6、Helix angle 36°- 37°
7、Achieving high surface quality especially for slot and side machining case.

单位：mm

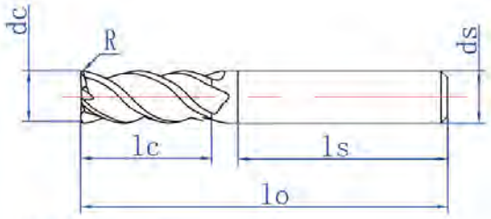
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo
UTM4030075HTA	3.0	7.5	6	45
UTM4030120HTA	3.0	12	6	50
UTM4040100HTA	4.0	10	6	45
UTM4040160HTA	4.0	16	6	50
UTM4050125HTA	5.0	12.5	6	50
UTM4050200HTA	5.0	20	6	60
UTM4060150HTA	6.0	15	6	60
UTM4060240HTA	6.0	24	6	60
UTM4080200HTA	8.0	20	8	60
UTM4080320HTA	8.0	32	8	80
UTM4090225HTA	9.0	22.5	10	70
UTM4100250HTA	10.0	25	10	70
UTM4100400HTA	10.0	40	10	90
UTM4110275HTA	11.0	27.5	12	75
UTM4120300HTA	12.0	30	12	75
UTM4120480HTA	12.0	48	12	100

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo
UTM4130325HTA	13.0	32.5	12	75
UTM4150375HTA	15.0	37.5	16	90
UTM4160400HTA	16.0	40	16	90
UTM4160640HTA	16.0	64	16	120
UTM4180450HTA	18.0	45	20	100
UTM4200500HTA	20.0	50	20	100
UTM4200800HTA	20.0	80	20	140

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
UTM4-HTA	◎	◎	◎	◎	◎	○			◎	◎	◎		○	

● SMC 整体硬质合金四刃光面圆鼻铣刀（不等分割）— 基准型
SMC Solid Carbide Corner Radius End Mill with Four Cutting Edges (Uneven Indexing)--Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 +0.02/0，圆角R公差为+0.02/-0.01;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为36~37度。
6、加工面的光洁度高，特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0 , tolerance of R +0.02/-0.01
3、Tolerance of shank h6
4、Having end cutting edge with tip angle
5、Helix angle 36° - 37°
6、Achieving high surface quality especially for slot and side machining case.

单位：mm

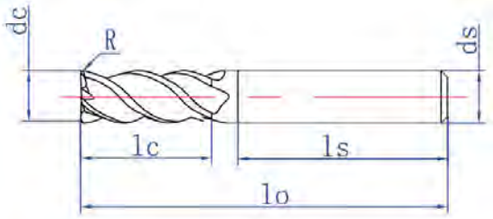
基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA系列 (涂层) STA Series（Coating)	dc	lc	ds	lo	R
RUTM4061503STA	6.0	15	6	50	0.3
RUTM4061505STA	6.0	15	6	50	0.5
RUTM4061510STA	6.0	15	6	50	1.0
RUTM4062403STA	6.0	24	6	60	0.3
RUTM4062405STA	6.0	24	6	60	0.5
RUTM4062410STA	6.0	24	6	60	1.0
RUTM4082003STA	8.0	20	8	60	0.3
RUTM4082005STA	8.0	20	8	60	0.5
RUTM4082010STA	8.0	20	8	60	1.0
RUTM4083203STA	8.0	32	8	80	0.3
RUTM4083205STA	8.0	32	8	80	0.5
RUTM4083210STA	8.0	32	8	80	1.0
RUTM4102503STA	10.0	25	10	70	0.3
RUTM4102505STA	10.0	25	10	70	0.5
RUTM4102510STA	10.0	25	10	70	1.0
RUTM4102520STA	10.0	25	10	70	2.0
RUTM4104003STA	10.0	40	10	90	0.3
RUTM4104005STA	10.0	40	10	90	0.5
RUTM4104010STA	10.0	40	10	90	1.0
RUTM4104020STA	10.0	40	10	90	2.0

基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA系列 (涂层) STA Series（Coating)	dc	lc	ds	lo	R
RUTM4123005STA	12.0	30	12	75	0.5
RUTM4123010STA	12.0	30	12	75	1.0
RUTM4123020STA	12.0	30	12	75	2.0
RUTM4123030STA	12.0	30	12	75	3.0
RUTM4124805STA	12.0	48	12	100	0.5
RUTM4124810STA	12.0	48	12	100	1.0
RUTM4124820STA	12.0	48	12	100	2.0
RUTM4124830STA	12.0	48	12	100	3.0
RUTM4164010STA	16.0	40	16	90	1.0
RUTM4164020STA	16.0	40	16	90	2.0
RUTM4164030STA	16.0	40	16	90	3.0
RUTM4166410STA	16.0	64	16	120	1.0
RUTM4166420STA	16.0	64	16	120	2.0
RUTM4166430STA	16.0	64	16	120	3.0
RUTM4205010STA	20.0	50	20	100	1.0
RUTM4205020STA	20.0	50	20	100	2.0
RUTM4205030STA	20.0	50	20	100	3.0
RUTM4208010STA	20.0	80	20	140	1.0
RUTM4208020STA	20.0	80	20	140	2.0
RUTM4208030STA	20.0	80	20	140	3.0

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
RUTM4-STA	◎	◎	◎	◎	○	○			○	○	◎		○	

● SMC 整体硬质合金四刃光面圆鼻铣刀（不等分割）-- 高性能型
SMC Solid Carbide Corner Radius End Mill with Four Cutting Edges (Uneven Indexing)--High-performance Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 +0.02/0、圆角R公差为+0.02/-0.01;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计、有刃倾角;
5、螺旋角为36~37度。
6、加工面的光洁度高，特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0 , tolerance of R +0.02/-0.01
3、Tolerance of shank h6
4、Having end cutting edge with tip angle
5、Helix angle 36° - 37°
6、Achieving high surface quality especially for slot and side machining case.

单位：mm

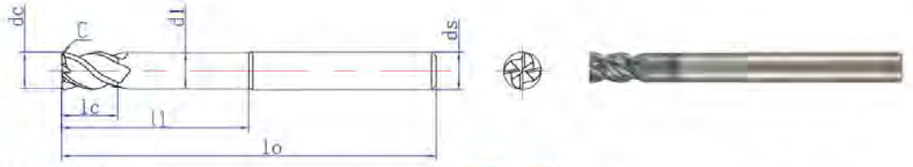
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo	R
RUTM4061503HTA	6.0	15	6	50	0.3
RUTM4061505HTA	6.0	15	6	50	0.5
RUTM4061510HTA	6.0	15	6	50	1.0
RUTM4062403HTA	6.0	24	6	60	0.3
RUTM4062405HTA	6.0	24	6	60	0.5
RUTM4062410HTA	6.0	24	6	60	1.0
RUTM4082003HTA	8.0	20	8	60	0.3
RUTM4082005HTA	8.0	20	8	60	0.5
RUTM4082010HTA	8.0	20	8	60	1.0
RUTM4083203HTA	8.0	32	8	80	0.3
RUTM4083205HTA	8.0	32	8	80	0.5
RUTM4083210HTA	8.0	32	8	80	1.0
RUTM4102503HTA	10.0	25	10	70	0.3
RUTM4102505HTA	10.0	25	10	70	0.5
RUTM4102510HTA	10.0	25	10	70	1.0
RUTM4102520HTA	10.0	25	10	70	2.0
RUTM4104003HTA	10.0	40	10	90	0.3
RUTM4104005HTA	10.0	40	10	90	0.5
RUTM4104010HTA	10.0	40	10	90	1.0
RUTM4104020HTA	10.0	40	10	90	2.0

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo	R
RUTM4123005HTA	12.0	30	12	75	0.5
RUTM4123010HTA	12.0	30	12	75	1.0
RUTM4123020HTA	12.0	30	12	75	2.0
RUTM4123030HTA	12.0	30	12	75	3.0
RUTM4124805HTA	12.0	48	12	100	0.5
RUTM4124810HTA	12.0	48	12	100	1.0
RUTM4124820HTA	12.0	48	12	100	2.0
RUTM4124830HTA	12.0	48	12	100	3.0
RUTM4164010HTA	16.0	40	16	90	1.0
RUTM4164020HTA	16.0	40	16	90	2.0
RUTM4164030HTA	16.0	40	16	90	3.0
RUTM4166410HTA	16.0	64	16	120	1.0
RUTM4166420HTA	16.0	64	16	120	2.0
RUTM4166430HTA	16.0	64	16	120	3.0
RUTM4205010HTA	20.0	50	20	100	1.0
RUTM4205020HTA	20.0	50	20	100	2.0
RUTM4205030HTA	20.0	50	20	100	3.0
RUTM4208010HTA	20.0	80	20	140	1.0
RUTM4208020HTA	20.0	80	20	140	2.0
RUTM4208030HTA	20.0	80	20	140	3.0

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
RUTM4-HTA	◎	◎	◎	◎	◎	○			◎	◎	◎		○	

● SMC 长径型整体硬质合金四刃平头光面铣刀（不等分割）-- 基准型
SMC Long Type Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)--Basic Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为+0.02/0;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角，
螺旋角为36~37度;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3, C=0.05～0.1; φ3＜D≤φ8, C=0.1;
φ8＜D≤φ12, C=0.15; φ12＜D≤φ16，
C=0.2; D＞φ16, C=0.3;
6、加工面的光洁度高，特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0
3、Tolerance of shank h6
4、Having end cutting edge with tip angel, helix angle 36°-37°
5、Dimension of chamfer on the corner C value: D≤Φ3, C=0.05～0.1; Φ3＜D≤Φ8, C=0.1; Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16, C=0.2; D＞Φ16, C=0.3
6、Achieving high surface quality especially for slot and side machining case.

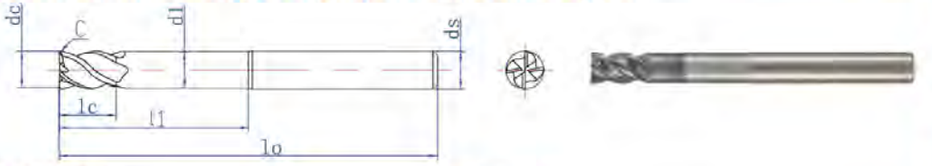
单位：mm

基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	首径 Neck Diameter
STA系列 (涂层) STA Series（Coating)	dc	lc	ds	lo	dl
LUTM4030045STA	3.0	4.5	6	60	2.9
LUTM4040060STA	4.0	6	6	60	3.8
LUTM4050075STA	5.0	7.5	6	60	4.8
LUTM4060090STA	6.0	9	6	60	5.8
LUTM4070105STA	7.0	10.5	6	80	6
LUTM4080120STA	8.0	12	8	80	7.7
LUTM4090135STA	9.0	13.5	8	90	8
LUTM4100150STA	10.0	15	10	100	9.7
LUTM4110165STA	11.0	16.5	10	110	10
LUTM4120180STA	12.0	18	12	110	11.7
LUTM4130195STA	13.0	19.5	12	120	12
LUTM4160240STA	16.0	24	16	140	15.5
LUTM4170255STA	17.0	25.5	16	150	16
LUTM4200300STA	20.0	30	20	160	19.5

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
LUTM4-STA	◎	◎	◎	◎	○	○			○	○	◎		○	

● SMC 长径型整体硬质合金四刃平头光面铣刀（不等分割）- 高性能型
SMC Long Type Solid Carbide End Mill with Four Cutting Edges (Uneven Indexing)--High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为+0.02/0;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角，
螺旋角为36~37度;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3, C=0.05～0.1; φ3＜D≤φ8, C=0.1;
φ8＜D≤φ12, C=0.15; φ12＜D≤φ16，
C=0.2; D＞φ16, C=0.3;
6、加工面的光洁度高，特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0
3、Tolerance of shank h6
4、Having end cutting edge with tip angel, helix angle 36°-37°
5、Dimension of chamfer on the corner C value: D≤Φ3, C=0.05～0.1; Φ3＜D≤Φ8, C=0.1; Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16, C=0.2; D＞Φ16, C=0.3
6、Achieving high surface quality especially for slot and side machining case.

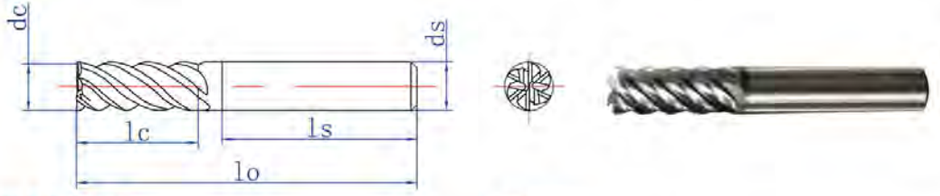
单位：mm

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	首径 Neck Diameter
HTA系列 (涂层) HTA Series（Coating)	dc	lc	ds	lo	dl
LUTM4030045HTA	3.0	4.5	6	60	2.9
LUTM4040060HTA	4.0	6	6	60	3.8
LUTM4050075HTA	5.0	7.5	6	60	4.8
LUTM4060090HTA	6.0	9	6	60	5.8
LUTM4070105HTA	7.0	10.5	6	80	6
LUTM4080120HTA	8.0	12	8	80	7.7
LUTM4090135HTA	9.0	13.5	8	90	8
LUTM4100150HTA	10.0	15	10	100	9.7
LUTM4110165HTA	11.0	16.5	10	110	10
LUTM4120180HTA	12.0	18	12	110	11.7
LUTM4130195HTA	13.0	19.5	12	120	12
LUTM4160240HTA	16.0	24	16	140	15.5
LUTM4170255HTA	17.0	25.5	16	150	16
LUTM4200300HTA	20.0	30	20	160	19.5

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
LUTM4-HTA	◎	◎	◎	◎	◎	○			◎	◎	◎		○	

● SMC 整体硬质合金六刃平头光面铣刀（不等分割）— 基准型
SMC Solid Carbide End Mill with Six Cutting Edges (Uneven Indexing)--Basic Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为+0.02/0;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3, C=0.05－0.1; φ3＜D≤φ8, C=0.1;
φ8＜D≤φ12, C=0.15; φ12＜D≤φ16, C=0.2; D＞φ16, C=0.3;
6、螺旋角为36~37度;
7、加工面的光洁度高、特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0
3、Tolerance of shank h6
4、Having end cutting edge with tip angle
5、Dimension of chamfer on the corner C value: D≤Φ3, C=0.05－0.1; Φ3＜D≤Φ8, C=0.1; Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16, C=0.2; D＞Φ16, C=0.3
6、Helix angle 36°- 37°
7、Achieving high surface quality especially for slot and side machining case.

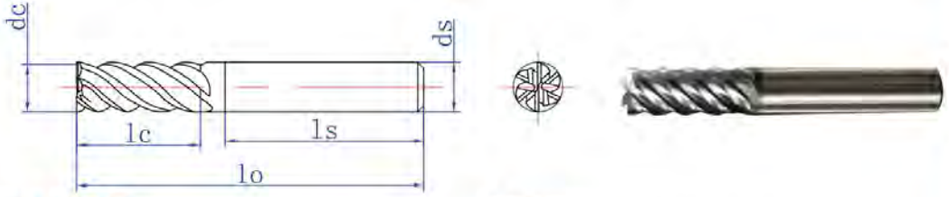
单位：mm

基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo
UTM6060175STA	6.0	17.5	6	60
UTM6060240STA	6.0	24	6	60
UTM6080200STA	8.0	20	8	60
UTM6080320STA	8.0	32	8	80
UTM6100250STA	10.0	25	10	70
UTM6100400STA	10.0	40	10	90
UTM6120300STA	12.0	30	12	75
UTM6120480STA	12.0	48	12	100
UTM6160400STA	16.0	40	16	90
UTM6160640STA	16.0	64	16	120
UTM6200500STA	20.0	50	20	100
UTM6200800STA	20.0	80	20	140

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
UTM6-STA	◎	◎	◎	◎	○	○			○	○	◎		○	

● SMC 整体硬质合金六刃平头光面铣刀（不等分割）— 高性能型
SMC Solid Carbide End Mill with Six Cutting Edges (Uneven Indexing)--High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为+0.02/0;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3, C=0.05－0.1; φ3＜D≤φ8, C=0.1;
φ8＜D≤φ12, C=0.15; φ12＜D≤φ16, C=0.2; D＞φ16, C=0.3;
6、螺旋角为36~37度;
7、加工面的光洁度高、特别是加工槽和侧面。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc +0.02/0
3、Tolerance of shank h6
4、Having end cutting edge with tip angle
5、Dimension of chamfer on the corner C value: D≤Φ3, C=0.05－0.1; Φ3＜D≤Φ8, C=0.1; Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16, C=0.2; D＞Φ16, C=0.3
6、Helix angle 36°- 37°
7、Achieving high surface quality especially for slot and side machining case.

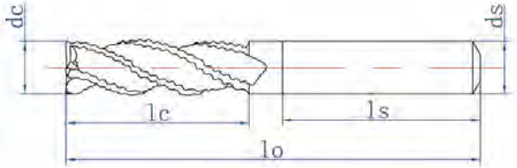
单位：mm

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo
UTM6060175HTA	6.0	17.5	6	60
UTM6060240HTA	6.0	24	6	60
UTM6080200HTA	8.0	20	8	60
UTM6080320HTA	8.0	32	8	80
UTM6100250HTA	10.0	25	10	70
UTM6100400HTA	10.0	40	10	90
UTM6120300HTA	12.0	30	12	75
UTM6120480HTA	12.0	48	12	100
UTM6160400HTA	16.0	40	16	90
UTM6160640HTA	16.0	64	16	120
UTM6200500HTA	20.0	50	20	100
UTM6200800HTA	20.0	80	20	140

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
UTM6-HTA	◎	◎	◎	◎	◎	○			◎	◎	◎		○	

● DEM 整体硬质合金四刃波刃铣刀 — 基准型
DEM Solid Carbide Rough Wave End Mill with Four Cutting Edges --Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、底刃为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
φ6＜D≤φ8， C=0.1； φ8＜D≤φ12、C=0.15;
φ12＜D≤φ16 、C=0.2; D＞φ16， C=0.3;
6、螺旋角为30度。

Features:

1. All dimension is fixed by our norm and also accept non standard order.
2. Tolerance of dc 0/-0.03
3. Tolerance of shank h6
4. Cutting edge to center with tip angle
5. Φ6＜D≤Φ8， C=0.1； Φ8＜D≤Φ12， C=0.15;
Φ12＜D≤Φ16， C=0.2; D＞Φ16，C=0.3;
6. Helix angle 30°.

单位：mm

基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating)	dc	lc	ds	lo
DEM406012STA	6.0	12	6	50
DEM406015STA	6.0	15	6	50
DEM406018STA	6.0	18	6	60
DEM406024STA	6.0	24	6	60
DEM408016STA	8.0	16	8	60
DEM408020STA	8.0	20	8	60
DEM408024STA	8.0	24	8	80
DEM408032STA	8.0	32	8	80
DEM410020STA	10.0	20	10	70
DEM410025STA	10.0	25	10	70
DEM410030STA	10.0	30	10	80
DEM410040STA	10.0	40	10	90
DEM412024STA	12.0	24	12	75
DEM412030STA	12.0	30	12	75
DEM412036STA	12.0	36	12	90
DEM412048STA	12.0	48	12	100
DEM416032STA	16.0	32	16	110
DEM416040STA	16.0	40	16	120
DEM416048STA	16.0	48	16	130
DEM416056STA	16.0	56	16	140
DEM420040STA	20.0	40	20	110
DEM420050STA	20.0	50	20	120

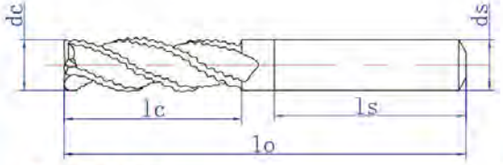
基准型订货号 Basic type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating)	dc	lc	ds	lo
DEM420060STA	20.0	60	20	130
DEM420070STA	20.0	70	20	140
DEM425050STA	25.0	50	25	115
DEM425060STA	25.0	60	25	125
DEM425070STA	25.0	70	25	135
DEM425080STA	25.0	80	25	145
DEM432050STA	32.0	50	32	115
DEM432060STA	32.0	60	32	125
DEM432070STA	32.0	70	32	135
DEM432080STA	32.0	80	32	145

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
DEM4-STA	◎	◎	◎	◎	○	○			○	○	◎		○	

波刃铣刀

● DEM 整体硬质合金四刃波刃铣刀 — 高性能型
DEM Solid Carbide Rough Wave End Mill with Four Cutting Edges--High-performance Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、底刃为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
φ6＜D≤φ8、 C=0.1; φ8＜D≤φ12、C=0.15;
φ12＜D≤φ16、C=0.2; D＞φ16、 C=0.3;
6、螺旋角为30度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc 0/-0.03
3、 Tolerance of shank h6
4、
5、 Cutting edge to center with tip angle
Φ6＜D≤Φ8、 C=0.1; Φ8＜D≤Φ12、 C=0.15;
Φ12＜D≤Φ16、 C=0.2; D＞Φ16、C=0.3;
6、 Helix angle 30°.

单位：mm

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo
DEM406012HTA	6.0	12	6	50
DEM406015HTA	6.0	15	6	50
DEM406018HTA	6.0	18	6	60
DEM406024HTA	6.0	24	6	60
DEM408016HTA	8.0	16	8	60
DEM408020HTA	8.0	20	8	60
DEM408024HTA	8.0	24	8	80
DEM408032HTA	8.0	32	8	80
DEM410020HTA	10.0	20	10	70
DEM410025HTA	10.0	25	10	70
DEM410030HTA	10.0	30	10	80
DEM410040HTA	10.0	40	10	90
DEM412024HTA	12.0	24	12	75
DEM412030HTA	12.0	30	12	75
DEM412036HTA	12.0	36	12	90
DEM412048HTA	12.0	48	12	100
DEM416032HTA	16.0	32	16	110
DEM416040HTA	16.0	40	16	120
DEM416048HTA	16.0	48	16	130
DEM416056HTA	16.0	56	16	140
DEM420040HTA	20.0	40	20	110
DEM420050HTA	20.0	50	20	120

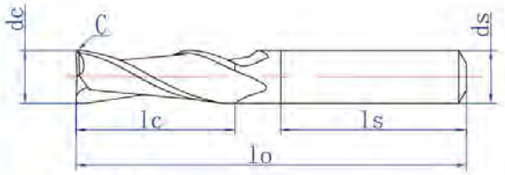
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo
DEM420060HTA	20.0	60	20	130
DEM420070HTA	20.0	70	20	140
DEM425050HTA	25.0	50	25	115
DEM425060HTA	25.0	60	25	125
DEM425070HTA	25.0	70	25	135
DEM425080HTA	25.0	80	25	145
DEM432050HTA	32.0	50	32	115
DEM432060HTA	32.0	60	32	125
DEM432070HTA	32.0	70	32	135
DEM432080HTA	32.0	80	32	145

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
DEM4-HTA	◎	◎	◎	◎	◎	○			◎	◎	◎		○	

波刃铣刀

● EM 整体硬质合金两刃平头铣刀 -- 经济型
EM Solid Carbide End Mill with Two Cutting Edges --Economical Type







刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3，C=0.05－0.1；φ3＜D≤φ8，C=0.1；
φ8＜D≤φ12，C=0.15；φ12＜D≤φ16，
C=0.2；D＞φ16，C=0.3；
6、螺旋角为35度。

Features:

1. All dimension is fixed by our norm and also accept non standard order.
2. Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3. Tolerance of shank h6
4. Cutting edge to center with tip angle
5. Dimension of chamfer on the corner C value:
D≤Φ3，C=0.05－0.1；Φ3＜D≤Φ8，C=0.1；
Φ8＜D≤Φ12，C=0.15；Φ12＜D≤Φ16，
C=0.2；D＞Φ16，C=0.3
6. Helix angle 35°.

单位：mm

经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
ST系列 (涂层) ST Series（Coating）	dc	lc	ds	lo
EM20150375ST	1.5	3.75	4	45
EM20150450ST	1.5	4.5	4	45
EM20200400ST	2.0	4	4	45
EM20200500ST	2.0	5	4	45
EM20200600ST	2.0	6	4	45
EM20250500ST	2.5	5	4	45
EM20250625ST	2.5	6.25	4	45
EM20250750ST	2.5	7.5	4	45
EM20300600ST	3.0	6	6	45
EM20300750ST	3.0	7.5	6	45
EM20300900ST	3.0	9	6	45
EM20400800ST	4.0	8	6	50
EM20401000ST	4.0	10	6	50
EM20401200ST	4.0	12	6	50
EM20601000ST	6.0	10	6	50
EM20601250ST	6.0	12.5	6	50
EM20601500ST	6.0	15	6	50
EM20802000ST	8.0	20	8	60
EM20802400ST	8.0	24	8	80
EM21002000ST	10.0	20	10	70

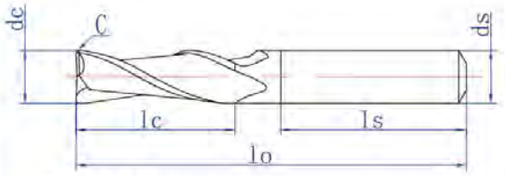
经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
ST系列 (涂层) ST Series（Coating）	dc	lc	ds	lo
EM21002500ST	10.0	25	10	70
EM21003000ST	10.0	30	10	80
EM21202400ST	12.0	24	12	75
EM21203000ST	12.0	30	12	75
EM21203600ST	12.0	36	12	90
EM21603200ST	16.0	32	16	90
EM21604000ST	16.0	40	16	100
EM21604800ST	16.0	48	16	108
EM22004000ST	20.0	40	20	100
EM22005000ST	20.0	50	20	110
EM22006000ST	20.0	60	20	120
EM22505000ST	25.0	50	25	115
EM22506250ST	25.0	62.5	25	130
EM22507500ST	25.0	75	25	145
EM23206400ST	32.0	64	32	140
EM23208000ST	32.0	80	32	160

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
EM2-ST	◎	◎	◎	◎	◎				○		○		○	

平头铣刀

● EM 整体硬质合金两刃平头铣刀 -- 基准型
EM Solid Carbide End Mill with Two Cutting Edges --Basic Type







刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3，C=0.05－0.1；φ3＜D≤φ8，C=0.1；
φ8＜D≤φ12，C=0.15；φ12＜D≤φ16，
C=0.2；D＞φ16，C=0.3；
6、螺旋角为35度。

Features:

1. All dimension is fixed by our norm and also accept non standard order.
2. Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3. Tolerance of shank h6
4. Cutting edge to center with tip angle
5. Dimension of chamfer on the corner C value:
D≤Φ3，C=0.05－0.1；Φ3＜D≤Φ8，C=0.1；
Φ8＜D≤Φ12，C=0.15；Φ12＜D≤Φ16，
C=0.2；D＞Φ16，C=0.3
6. Helix angle 35°.

单位：mm

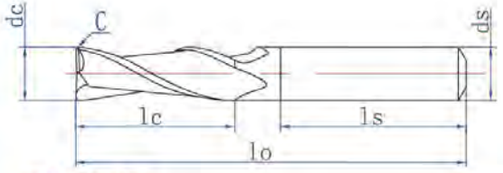
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo
EM20150375STA	1.5	3.75	4	45
EM20150450STA	1.5	4.5	4	45
EM20200400STA	2.0	4	4	45
EM20200500STA	2.0	5	4	45
EM20200600STA	2.0	6	4	45
EM20250500STA	2.5	5	4	45
EM20250625STA	2.5	6.25	4	45
EM20250750STA	2.5	7.5	4	45
EM20300600STA	3.0	6	6	45
EM20300750STA	3.0	7.5	6	45
EM20300900STA	3.0	9	6	45
EM20400800STA	4.0	8	6	50
EM20401000STA	4.0	10	6	50
EM20401200STA	4.0	12	6	50
EM20601000STA	6.0	10	6	50
EM20601250STA	6.0	12.5	6	50
EM20601500STA	6.0	15	6	50
EM20802000STA	8.0	20	8	60
EM20802400STA	8.0	24	8	80
EM21002000STA	10.0	20	10	70

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo
EM21002500STA	10.0	25	10	70
EM21003000STA	10.0	30	10	80
EM21202400STA	12.0	24	12	75
EM21203000STA	12.0	30	12	75
EM21203600STA	12.0	36	12	90
EM21603200STA	16.0	32	16	90
EM21604000STA	16.0	40	16	100
EM21604800STA	16.0	48	16	108
EM22004000STA	20.0	40	20	100
EM22005000STA	20.0	50	20	110
EM22006000STA	20.0	60	20	120
EM22505000STA	25.0	50	25	115
EM22506250STA	25.0	62.5	25	130
EM22507500STA	25.0	75	25	145
EM23206400STA	32.0	64	32	140
EM23208000STA	32.0	80	32	160

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
EM2-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● EM 整体硬质合金两刃平头铣刀 -- 高性能型
EM Solid Carbide End Mill with Two Cutting Edges --High-performance Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02、
dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3， C=0.05－0.1; φ3＜D≤φ8， C=0.1;
φ8＜D≤φ12， C=0.15; φ12＜D≤φ16，
C=0.2; D＞φ16， C=0.3;
6、螺旋角为35度。

Features:

1. All dimension is fixed by our norm and also accept non standard order.
2. Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3. Tolerance of shank h6
4. Cutting edge to center with tip angle
5. Dimension of chamfer on the corner C value:
D≤Φ3, C=0.05－0.1; Φ3＜D≤Φ8, C=0.1;
Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16,
C=0.2; D＞Φ16, C=0.3
6. Helix angle 35°.

单位：mm

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series (Coating)	dc	lc	ds	lo
EM20150375HTA	1.5	3.75	4	45
EM20150450HTA	1.5	4.5	4	45
EM20200400HTA	2.0	4	4	45
EM20200500HTA	2.0	5	4	45
EM20200600HTA	2.0	6	4	45
EM20250500HTA	2.5	5	4	45
EM20250625HTA	2.5	6.25	4	45
EM20250750HTA	2.5	7.5	4	45
EM20300600HTA	3.0	6	6	45
EM20300750HTA	3.0	7.5	6	45
EM20300900HTA	3.0	9	6	45
EM20400800HTA	4.0	8	6	50
EM20401000HTA	4.0	10	6	50
EM20401200HTA	4.0	12	6	50
EM20601000HTA	6.0	10	6	50
EM20601250HTA	6.0	12.5	6	50
EM20601500HTA	6.0	15	6	50
EM20802000HTA	8.0	20	8	60
EM20802400HTA	8.0	24	8	80
EM21002000HTA	10.0	20	10	70

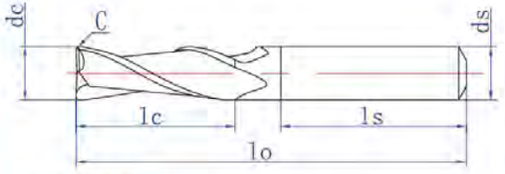
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series (Coating)	dc	lc	ds	lo
EM21002500HTA	10.0	25	10	70
EM21003000HTA	10.0	30	10	80
EM21202400HTA	12.0	24	12	75
EM21203000HTA	12.0	30	12	75
EM21203600HTA	12.0	36	12	90
EM21603200HTA	16.0	32	16	90
EM21604000HTA	16.0	40	16	100
EM21604800HTA	16.0	48	16	108
EM22004000HTA	20.0	40	20	100
EM22005000HTA	20.0	50	20	110
EM22006000HTA	20.0	60	20	120
EM22505000HTA	25.0	50	25	115
EM22506250HTA	25.0	62.5	25	130
EM22507500HTA	25.0	75	25	145
EM23206400HTA	32.0	64	32	140
EM23208000HTA	32.0	80	32	160

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
EM2-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

平头铣刀

● EM 整体硬质合金两刃平头铣刀 -- 高硬度型
EM Solid Carbide End Mill with Two Cutting Edges --High Hardness Processing Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3，C=0.05－0.1；φ3＜D≤φ8，C=0.1；
φ8＜D≤φ12，C=0.15；φ12＜D≤φ16，
C=0.2；D＞φ16，C=0.3；
6、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、Cutting edge to center with tip angle
5、Dimension of chamfer on the corner C value:
D≤Φ3，C=0.05－0.1；Φ3＜D≤Φ8，C=0.1；
Φ8＜D≤Φ12，C=0.15；Φ12＜D≤Φ16，
C=0.2；D＞Φ16，C=0.3
6、Helix angle 35°。

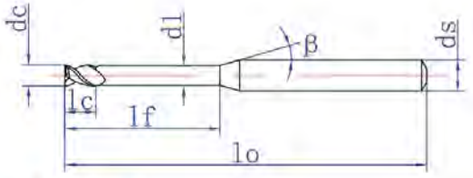
单位：mm

高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HS系列 (涂层) HS Series（Coating）	dc	lc	ds	lo
EM20150375HS	1.5	3.75	4	45
EM20150450HS	1.5	4.5	4	45
EM20200400HS	2.0	4	4	45
EM20200500HS	2.0	5	4	45
EM20200600HS	2.0	6	4	45
EM20250500HS	2.5	5	4	45
EM20250625HS	2.5	6.25	4	45
EM20250750HS	2.5	7.5	4	45
EM20300750HS	3.0	7.5	6	45
EM20300900HS	3.0	9	6	45
EM20401000HS	4.0	10	6	50
EM20401200HS	4.0	12	6	50
EM20601000HS	6.0	10	6	50
EM20802000HS	8.0	20	8	60
EM21002000HS	10.0	20	10	70
EM21002500HS	10.0	25	10	70
EM21003000HS	10.0	30	10	80
EM21203000HS	12.0	30	12	75
EM21203600HS	12.0	36	12	90

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
EM2-HS	○	○	○	○	○	◎	◎	◎	○	○	○		◎	

● LEM 整体硬质合金两刃深沟平头铣刀 — 基准型
LEM Long Neck Solid Carbide End Mill with Two Cutting Edges --Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制；
2、刃径公差按dc≤ϕ0.15 直径公差为0/-0.01，
dc＞ϕ0.15直径公差为 0/-0.015；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、刃尖角为倒角的方式，刀尖角C值如下：
D≤ϕ3， C=0.02～0.1；D＞ϕ3， C=0.1；
6、螺旋角为35度；
7、柄部过渡锥角度β，dc＜0.2时β=11°，
其余β=16°。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ0.15 0/-0.01,
dc＞Φ0.15 0/-0.015;
3、Tolerance of shank h6;
4、Cutting edge to center with tip angle;
5、Dimension of chamfer on the corner C value:
D≤Φ3，C=0.02～0.1；D＞Φ3， C=0.1;
6、Helix angle 35°；
7、Shank taper angle β, dc＜0.2 β=11°，
others β=16°。

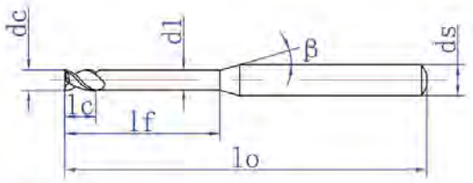
单位：mm

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	lf	dl	ds	lo
LEM2020060STA	2.0	3	6	1.91	4	45
LEM2020080STA	2.0	3	8	1.91	4	45
LEM2020100STA	2.0	3	10	1.91	4	45
LEM2020120STA	2.0	3	12	1.91	4	45
LEM2020140STA	2.0	3	14	1.91	4	50
LEM2020160STA	2.0	3	16	1.91	4	50
LEM2020180STA	2.0	3	18	1.91	4	55
LEM2020200STA	2.0	3	20	1.91	4	55
LEM2030100STA	3.0	4.5	10	2.92	6	45
LEM2030120STA	3.0	4.5	12	2.92	6	50
LEM2030140STA	3.0	4.5	14	2.92	6	50
LEM2030160STA	3.0	4.5	16	2.92	6	60
LEM2030180STA	3.0	4.5	18	2.92	6	60
LEM2030200STA	3.0	4.5	20	2.92	6	60
LEM2040120STA	4.0	6	12	3.82	6	50
LEM2040160STA	4.0	6	16	3.82	6	60
LEM2040200STA	4.0	6	20	3.82	6	60
LEM2040250STA	4.0	6	25	3.82	6	70

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
LEM2-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● LEM 整体硬质合金两刃深沟平头铣刀 — 高硬度型
LEM Long Neck Solid Carbide End Mill with Two Cutting Edges--High Hardness Processing Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制；
2、刃径公差按dc≤φ0.15 直径公差为0/-0.01，
dc＞φ0.15直径公差为 0/-0.015；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、刃尖角为倒角的方式，刃尖角C值如下：
D≤φ3、 C=0.02－0.1；D＞φ3、 C=0.1；
6、螺旋角为35度；
7、柄部过渡锥角度β，dc＜0.2时β=11°，
其余β=16°。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ0.15 0/-0.01,
dc＞Φ0.15 0/-0.015;
3、Tolerance of shank h6;
4、Cutting edge to center with tip angle;
5、Dimension of chamfer on the corner C value:
D≤Φ3，C=0.02－0.1；D＞Φ3， C=0.1;
6、Helix angle 35°；
7、Shank taper angle β, dc＜0.2 β=11°，
others β=16°.

单位：mm

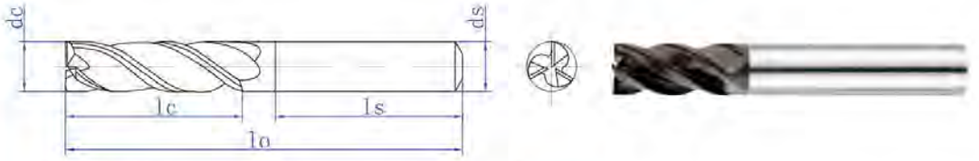
高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
HS系列 (涂层) HS Series（Coating）	dc	lc	lf	dl	ds	lo
LEM2001003HS	0.1	0.1	0.3	0.088	4	45
LEM2002010HS	0.2	0.3	1	0.18	4	45
LEM2003010HS	0.3	0.4	1	0.28	4	45
LEM2003020HS	0.3	0.4	2	0.28	4	45
LEM2004020HS	0.4	0.6	2	0.38	4	45
LEM2004030HS	0.4	0.6	3	0.38	4	45
LEM2005020HS	0.5	0.7	2	0.48	4	45
LEM2005040HS	0.5	0.7	4	0.48	4	45
LEM2005060HS	0.5	0.7	6	0.48	4	45
LEM2006020HS	0.6	0.9	2	0.58	4	45
LEM2006040HS	0.6	0.9	4	0.58	4	45
LEM2006060HS	0.6	0.9	6	0.58	4	45
LEM2008040HS	0.8	1.2	4	0.78	4	45
LEM2008060HS	0.8	1.2	6	0.78	4	45
LEM2008080HS	0.8	1.2	8	0.78	4	45
LEM2010040HS	1.0	1.5	4	0.95	4	45
LEM2010060HS	1.0	1.5	6	0.95	4	45
LEM2010080HS	1.0	1.5	8	0.95	4	45

高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
HS系列 (涂层) HS Series（Coating）	dc	lc	lf	dl	ds	lo
LEM2010100HS	1.0	1.5	10	0.95	4	45
LEM2015060HS	1.5	2.3	6	1.44	4	45
LEM2015080HS	1.5	2.3	8	1.44	4	45
LEM2015100HS	1.5	2.3	10	1.44	4	45
LEM2015120HS	1.5	2.3	12	1.44	4	45
LEM2015140HS	1.5	2.3	14	1.44	4	50
LEM2020060HS	2.0	3	6	1.91	4	45
LEM2020080HS	2.0	3	8	1.91	4	45
LEM2020100HS	2.0	3	10	1.91	4	45
LEM2020120HS	2.0	3	12	1.91	4	45
LEM2020140HS	2.0	3	14	1.91	4	50
LEM2020160HS	2.0	3	16	1.91	4	50
LEM2020180HS	2.0	3	18	1.91	4	55
LEM2020200HS	2.0	3	20	1.91	4	55
LEM2030100HS	3.0	4.5	10	2.92	6	45
LEM2030120HS	3.0	4.5	12	2.92	6	50
LEM2030140HS	3.0	4.5	14	2.92	6	50
LEM2030160HS	3.0	4.5	16	2.92	6	60
LEM2030180HS	3.0	4.5	18	2.92	6	60
LEM2030200HS	3.0	4.5	20	2.92	6	60
LEM2040120HS	4.0	6	12	3.82	6	50
LEM2040160HS	4.0	6	16	3.82	6	60
LEM2040200HS	4.0	6	20	3.82	6	60
LEM2040250HS	4.0	6	25	3.82	6	70

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
LEM2-HS	○	○	○	○	○	◎	◎	◎	○	○	○		◎	

● EM 整体硬质合金三刃平头铣刀 — 基准型
EM Solid Carbide End Mill with Three Cutting Edges --Basic Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、底刃均为一刃过中心，有刃倾角；
5、刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3，C=0.05－0.1；φ3＜D≤φ8，C=0.1；
φ8＜D≤φ12，C=0.15；φ12＜D≤φ16，
C=0.2；D＞φ16，C=0.3；
6、螺旋角为35度。

Features:

1. All dimension is fixed by our norm and also accept non standard order.
2. Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3. Tolerance of shank h6
4. One cutting edge to center with tip angle
5. Dimension of chamfer on the corner C value:
D≤Φ3，C=0.05－0.1；Φ3＜D≤Φ8，C=0.1；
Φ8＜D≤Φ12，C=0.15；Φ12＜D≤Φ16，
C=0.2；D＞Φ16，C=0.3
6. Helix angle 35°.

单位：mm

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo
EM30200400STA	2.0	4	4	45
EM30200500STA	2.0	5	4	45
EM30200600STA	2.0	6	4	45
EM30200800STA	2.0	8	4	45
EM30300600STA	3.0	6	6	45
EM30300750STA	3.0	7.5	6	45
EM30300900STA	3.0	9	6	45
EM30301200STA	3.0	12	6	50
EM30400800STA	4.0	8	6	50
EM30401000STA	4.0	10	6	50
EM30401200STA	4.0	12	6	50
EM30401600STA	4.0	16	6	50
EM30501000STA	5.0	10	6	50
EM30501250STA	5.0	12.5	6	50
EM30501500STA	5.0	15	6	50
EM30502000STA	5.0	20	6	60
EM30601200STA	6.0	12	6	50
EM30601500STA	6.0	15	6	50

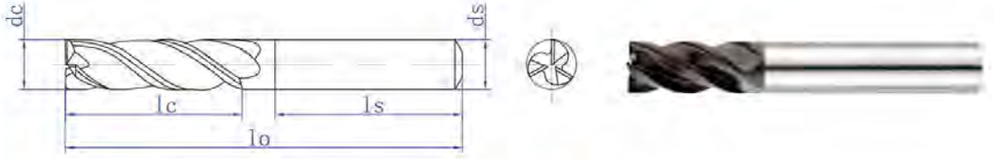
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo
EM30601800STA	6.0	18	6	50
EM30602400STA	6.0	24	6	60
EM30801600STA	8.0	16	8	60
EM30802000STA	8.0	20	8	60
EM30802400STA	8.0	24	8	70
EM30803200STA	8.0	32	8	80
EM31002000STA	10.0	20	10	70
EM31002500STA	10.0	25	10	70
EM31003000STA	10.0	30	10	80
EM31004000STA	10.0	40	10	90
EM31202400STA	12.0	24	12	75
EM31203000STA	12.0	30	12	75
EM31203600STA	12.0	36	12	90
EM31204800STA	12.0	48	12	100
EM31603200STA	16.0	32	16	90
EM31604000STA	16.0	40	16	100
EM31604800STA	16.0	48	16	108
EM32004000STA	20.0	40	20	100
EM32005000STA	20.0	50	20	110
EM32006000STA	20.0	60	20	120
EM32505000STA	25.0	50	25	115
EM32506250STA	25.0	62.5	25	130
EM32507500STA	25.0	75	25	145
EM33206400STA	32.0	64	32	140
EM33208000STA	32.0	80	32	160

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
EM3-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

平头铣刀

● EM 整体硬质合金三刃平头铣刀 -- 高性能型
EM Solid Carbide End Mill with Three Cutting Edges --High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、底刃均为一刃过中心、有刃倾角；
5、刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3，C=0.05－0.1；φ3＜D≤φ8，C=0.1；
φ8＜D≤φ12，C=0.15；φ12＜D≤φ16，
C=0.2；D＞φ16，C=0.3；
6、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、One cutting edge to center with tip angle
5、Dimension of chamfer on the corner C value:
D≤Φ3，C=0.05－0.1；Φ3＜D≤Φ8，C=0.1；
Φ8＜D≤Φ12，C=0.15；Φ12＜D≤Φ16，
C=0.2；D＞Φ16，C=0.3
6、Helix angle 35°.

单位：mm

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo
EM30200400HTA	2.0	4	4	45
EM30200500HTA	2.0	5	4	45
EM30200600HTA	2.0	6	4	45
EM30200800HTA	2.0	8	4	45
EM30300600HTA	3.0	6	6	45
EM30300750HTA	3.0	7.5	6	45
EM30300900HTA	3.0	9	6	45
EM30301200HTA	3.0	12	6	50
EM30400800HTA	4.0	8	6	50
EM30401000HTA	4.0	10	6	50
EM30401200HTA	4.0	12	6	50
EM30401600HTA	4.0	16	6	50
EM30501000HTA	5.0	10	6	50
EM30501250HTA	5.0	12.5	6	50
EM30501500HTA	5.0	15	6	50
EM30502000HTA	5.0	20	6	60
EM30601200HTA	6.0	12	6	50
EM30601500HTA	6.0	15	6	50

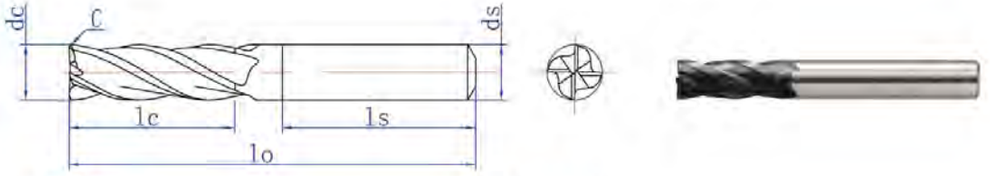
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo
EM30601800HTA	6.0	18	6	50
EM30602400HTA	6.0	24	6	60
EM30801600HTA	8.0	16	8	60
EM30802000HTA	8.0	20	8	60
EM30802400HTA	8.0	24	8	70
EM30803200HTA	8.0	32	8	80
EM31002000HTA	10.0	20	10	70
EM31002500HTA	10.0	25	10	70
EM31003000HTA	10.0	30	10	80
EM31004000HTA	10.0	40	10	90
EM31202400HTA	12.0	24	12	75
EM31203000HTA	12.0	30	12	75
EM31203600HTA	12.0	36	12	90
EM31204800HTA	12.0	48	12	100
EM31603200HTA	16.0	32	16	90
EM31604000HTA	16.0	40	16	100
EM31604800HTA	16.0	48	16	108
EM32004000HTA	20.0	40	20	100
EM32005000HTA	20.0	50	20	110
EM32006000HTA	20.0	60	20	120
EM32505000HTA	25.0	50	25	115
EM32506250HTA	25.0	62.5	25	130
EM32507500HTA	25.0	75	25	145
EM33206400HTA	32.0	64	32	140
EM33208000HTA	32.0	80	32	160

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
EM3-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

平头铣刀

● EM 整体硬质合金四刃平头铣刀 — 经济型
EM Solid Carbide End Mill with Four Cutting Edges --Economical Type



刀具特点说明：

1、 刀具尺寸按本公司标准制造，接受非标定制。
2、 刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、 柄部尺寸公差为h6；
4、 底刃均为一刃过中心，有刃倾角；
5、 刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3， C=0.05－0.1； φ3＜D≤φ8， C=0.1；
φ8＜D≤φ12， C=0.15； φ12＜D≤φ16，
C=0.2； D＞φ16， C=0.3；
6、 螺旋角为35度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle;
5、 Dimension of chamfer on the corner C value:
D≤Φ3, C=0.05－0.1； Φ3＜D≤Φ8， C=0.1；
Φ8＜D≤Φ12， C=0.15； Φ12＜D≤Φ16， C=0.2；
D＞Φ16， C=0.3
6、 Helix angle 35° .

单位：mm

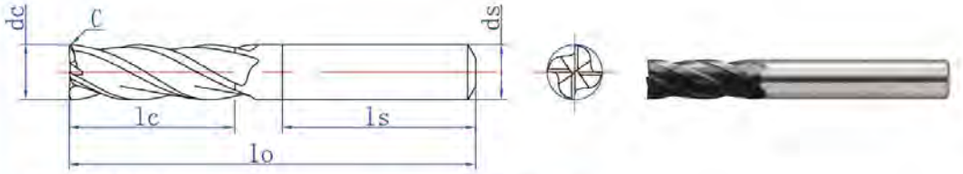
经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
ST系列 (涂层) ST Series (Coating)	dc	lc	ds	lo
EM40401000ST	4.0	10	6	50
EM40401200ST	4.0	12	6	60
EM40401600ST	4.0	16	6	60
EM40501250ST	5.0	12.5	6	50
EM40501500ST	5.0	15	6	60
EM40502000ST	5.0	20	6	60
EM40601500ST	6.0	15	6	50
EM40601800ST	6.0	18	6	60
EM40602600ST	6.0	26	6	70
EM40802000ST	8.0	20	8	60
EM40802400ST	8.0	24	8	70
EM40803200ST	8.0	32	8	80
EM41002500ST	10.0	25	10	70
EM41003000ST	10.0	30	10	80
EM41004000ST	10.0	40	10	90
EM41203000ST	12.0	30	12	75
EM41203600ST	12.0	36	12	100
EM41603200ST	16.0	32	16	90
EM41604000ST	16.0	40	16	100

经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
ST系列 (涂层) ST Series (Coating)	dc	lc	ds	lo
EM41604800ST	16.0	48	16	108
EM42004000ST	20.0	40	20	100
EM42005000ST	20.0	50	20	110
EM42006000ST	20.0	60	20	120
EM42505000ST	25.0	50	25	115
EM42506250ST	25.0	62.5	25	130
EM42507500ST	25.0	75	25	145
EM43206400ST	32.0	64	32	140
EM43208000ST	32.0	80	32	160

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
EM4-ST	◎	◎	◎	◎	◎				○		○		○	

● EM 整体硬质合金四刃平头铣刀 -- 基准型
EM Solid Carbide End Mill with Four Cutting Edges --Basic Type



刀具特点说明：

1、 刀具尺寸按本公司标准制造，接受非标定制。
2、 刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、 柄部尺寸公差为h6；
4、 底刃均为一刃过中心，有刃倾角；
5、 刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3， C=0.05～0.1； φ3＜D≤φ8， C=0.1；
φ8＜D≤φ12， C=0.15； φ12＜D≤φ16，
C=0.2； D＞φ16， C=0.3；
6、 螺旋角为35度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle;
5、 Dimension of chamfer on the corner C value:
D≤Φ3, C=0.05～0.1; Φ3＜D≤Φ8, C=0.1;
Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16, C=0.2;
D＞Φ16, C=0.3
6、 Helix angle 35°.

单位：mm

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo
EM40401000STA	4.0	10	6	50
EM40401200STA	4.0	12	6	60
EM40401600STA	4.0	16	6	60
EM40501250STA	5.0	12.5	6	50
EM40501500STA	5.0	15	6	60
EM40502000STA	5.0	20	6	60
EM40601500STA	6.0	15	6	50
EM40601800STA	6.0	18	6	60
EM40602600STA	6.0	26	6	70
EM40802000STA	8.0	20	8	60
EM40802400STA	8.0	24	8	70
EM40803200STA	8.0	32	8	80
EM41002500STA	10.0	25	10	70
EM41003000STA	10.0	30	10	80
EM41004000STA	10.0	40	10	90
EM41203000STA	12.0	30	12	75
EM41203600STA	12.0	36	12	100
EM41603200STA	16.0	32	16	90
EM41604000STA	16.0	40	16	100

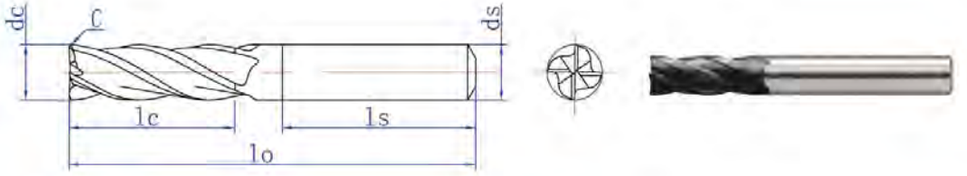
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo
EM41604800STA	16.0	48	16	108
EM42004000STA	20.0	40	20	100
EM42005000STA	20.0	50	20	110
EM42006000STA	20.0	60	20	120
EM42505000STA	25.0	50	25	115
EM42506250STA	25.0	62.5	25	130
EM42507500STA	25.0	75	25	145
EM43206400STA	32.0	64	32	140
EM43208000STA	32.0	80	32	160

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
EM4-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

平头铣刀

● EM 整体硬质合金四刃平头铣刀 -- 高性能型
EM Solid Carbide End Mill with Four Cutting Edges --High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、底刃均为一刃过中心，有刃倾角；
5、刃尖角为倒角的方式，刀尖角C值如下：
D≤φ3， C=0.05～0.1； φ3＜D≤φ8， C=0.1；
φ8＜D≤φ12， C=0.15； φ12＜D≤φ16，
C=0.2； D＞φ16， C=0.3；
6、螺旋角为35度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle;
5、 Dimension of chamfer on the corner C value:
D≤Φ3, C=0.05～0.1; Φ3＜D≤Φ8, C=0.1;
Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16, C=0.2;
D＞Φ16, C=0.3
6、 Helix angle 35°.

单位：mm

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列（涂层） HTA Series（Coating）	dc	lc	ds	lo
EM40401000HTA	4.0	10	6	50
EM40401200HTA	4.0	12	6	60
EM40401600HTA	4.0	16	6	60
EM40501250HTA	5.0	12.5	6	50
EM40501500HTA	5.0	15	6	60
EM40502000HTA	5.0	20	6	60
EM40601500HTA	6.0	15	6	50
EM40601800HTA	6.0	18	6	60
EM40602600HTA	6.0	26	6	70
EM40802000HTA	8.0	20	8	60
EM40802400HTA	8.0	24	8	70
EM40803200HTA	8.0	32	8	80
EM41002500HTA	10.0	25	10	70
EM41003000HTA	10.0	30	10	80
EM41004000HTA	10.0	40	10	90
EM41203000HTA	12.0	30	12	75
EM41203600HTA	12.0	36	12	100
EM41603200HTA	16.0	32	16	90
EM41604000HTA	16.0	40	16	100

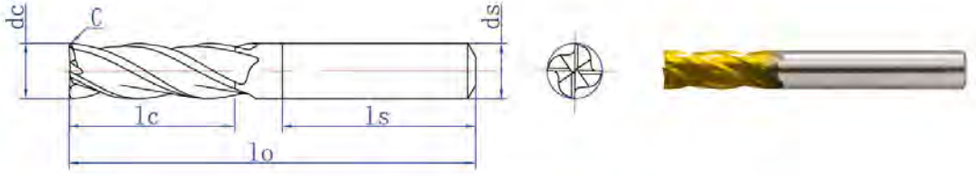
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA系列（涂层） HTA Series（Coating）	dc	lc	ds	lo
EM41604800HTA	16.0	48	16	108
EM42004000HTA	20.0	40	20	100
EM42005000HTA	20.0	50	20	110
EM42006000HTA	20.0	60	20	120
EM42505000HTA	25.0	50	25	115
EM42506250HTA	25.0	62.5	25	130
EM42507500HTA	25.0	75	25	145
EM43206400HTA	32.0	64	32	140
EM43208000HTA	32.0	80	32	160

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
EM4-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

平头铣刀

● EM 整体硬质合金四刃平头铣刀 -- 高硬度型
EM Solid Carbide End Mill with Four Cutting Edges --High Hardness Processing Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02、
dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、底刃均为一刃过中心，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3、 C=0.05～0.1; φ3＜D≤φ8、 C=0.1;
φ8＜D≤φ12， C=0.15; φ12＜D≤φ16，
C=0.2; D＞φ16， C=0.3;
6、螺旋角为35度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle;
5、 Dimension of chamfer on the corner C value:
D≤Φ3, C=0.05～0.1; Φ3＜D≤Φ8, C=0.1;
Φ8＜D≤Φ12, C=0.15; Φ12＜D≤Φ16, C=0.2;
D＞Φ16, C=0.3
6、 Helix angle 35°.

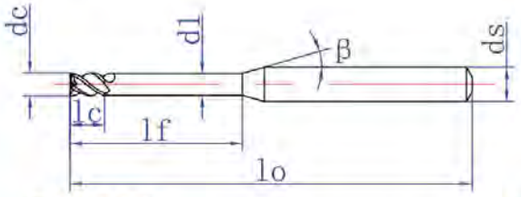
单位：mm

高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HS系列 (涂层) HS Series（Coating）	dc	lc	ds	lo
EM40100400HS	1.0	4	4	45
EM40150375HS	1.5	3.75	4	45
EM40200500HS	2.0	5	4	45
EM40251000HS	2.5	10	4	50
EM40300750HS	3.0	7.5	6	45
EM40301200HS	3.0	12	6	50
EM40401000HS	4.0	10	6	50
EM40401200HS	4.0	12	6	60
EM40401600HS	4.0	16	6	60
EM40501250HS	5.0	12.5	6	50
EM40501500HS	5.0	15	6	60
EM40502000HS	5.0	20	6	60
EM40601500HS	6.0	15	6	50
EM40802000HS	8.0	20	8	60
EM40803200HS	8.0	32	8	80
EM41002500HS	10.0	25	10	70
EM41004000HS	10.0	40	10	90
EM41203000HS	12.0	30	12	75

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合) Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	＞HRC60						
EM4-HS	○	○	○	○	○	◎	◎	◎	○	○	○		◎	

● LEM 整体硬质合金四刃深沟平头铣刀 — 基准型
LEM Long Neck Solid Carbide End Mill with Four Cutting Edges--Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制;
2、刃径公差按dc≤φ0.15 直径公差为0/-0.01，dc＞φ0.15直径公差为 0/-0.015;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
D≤φ3， C=0.02～0.1; D＞φ3， C=0.1;
6、螺旋角为35度;
7、柄部过渡锥角度β为16°。

Features:

1、1. All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ0.15 0/-0.01, dc＞Φ0.15 0/-
3、0.015
4、Tolerance of shank h6
5、Cutting edge to center with tip angle
Dimension of chamfer on the corner C value:
D≤Φ3, C=0.02～0.1; D＞Φ3, C=0.1;
6、Helix angle 35°
7、Shank taper angle β=16°.

单位：mm

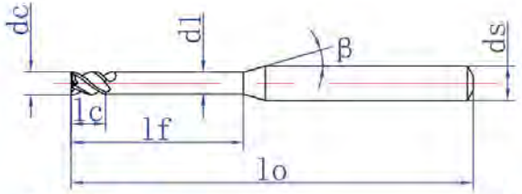
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
STA 系列 (涂层) STA Series (Coating)	dc	lc	lf	dl	ds	lo
LEM4020060STA	2.0	2	6	1.91	4	50
LEM4020080STA	2.0	2	8	1.91	4	50
LEM4020100STA	2.0	2	10	1.91	4	50
LEM4020120STA	2.0	2	12	1.91	4	50
LEM4020140STA	2.0	2	14	1.91	4	60
LEM4020160STA	2.0	2	16	1.91	4	60
LEM4020180STA	2.0	2	18	1.91	4	60
LEM4020200STA	2.0	2	20	1.91	4	60
LEM4030080STA	3.0	3	8	2.92	6	50
LEM4030120STA	3.0	3	12	2.92	6	50
LEM4030160STA	3.0	3	16	2.92	6	60
LEM4030200STA	3.0	3	20	2.92	6	60
LEM4030250STA	3.0	3	25	2.92	6	70
LEM4040120STA	4.0	4	12	3.82	6	50
LEM4040160STA	4.0	4	16	3.82	6	60
LEM4040200STA	4.0	4	20	3.82	6	60
LEM4040250STA	4.0	4	25	3.82	6	70
LEM4040300STA	4.0	4	30	3.82	6	70
LEM4040350STA	4.0	4	35	3.82	6	80

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
STA 系列 (涂层) STA Series (Coating)	dc	lc	lf	dl	ds	lo
LEM4060200STA	6.0	6	20	5.82	6	80
LEM4060300STA	6.0	6	30	5.82	6	90
LEM4060400STA	6.0	6	40	5.82	6	100

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合) Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
LEM4-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● LEM 整体硬质合金四刃深沟平头铣刀 — 高硬度型
LEM Long Neck Solid Carbide End Mill with Four Cutting Edges--High Hardness Processing Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制；
2、刃径公差按dc≤φ0.15 直径公差为0/-0.01，dc＞φ0.15直径公差为 0/-0.015；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、刃尖角为倒角的方式，刃尖角C值如下：
D≤φ3， C=0.02－0.1；D＞φ3， C=0.1；
6、螺旋角为35度；
7、柄部过渡锥角度β为16°。

Features:

1、1. All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ0.15 0/-0.01, dc＞Φ0.15 0/-
3、0.015
4、Tolerance of shank h6
5、Cutting edge to center with tip angle
Dimension of chamfer on the corner C value:
D≤Φ3, C=0.02－0.1; D＞Φ3, C=0.1;
6、Helix angle 35°
7、Shank taper angle β=16°.

单位：mm

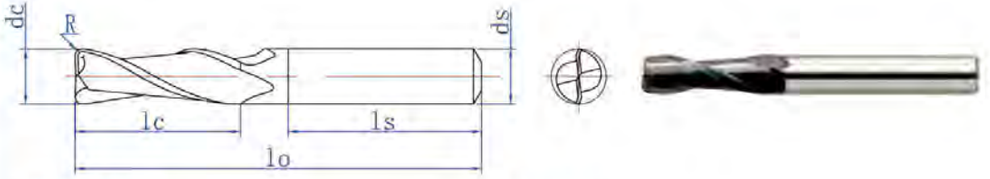
高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
HS 系列 (涂层) HS Series (Coating)	dc	lc	lf	dl	ds	lo
LEM4010040HS	1.0	1	4	0.95	4	50
LEM4010060HS	1.0	1	6	0.95	4	50
LEM4010080HS	1.0	1	8	0.95	4	50
LEM4010100HS	1.0	1	10	0.95	4	50
LEM4015060HS	1.5	1.5	6	1.44	4	50
LEM4015080HS	1.5	1.5	8	1.44	4	50
LEM4015100HS	1.5	1.5	10	1.44	4	50
LEM4015120HS	1.5	1.5	12	1.44	4	50
LEM4015140HS	1.5	1.5	14	1.44	4	60
LEM4020060HS	2.0	2	6	1.91	4	50
LEM4020080HS	2.0	2	8	1.91	4	50
LEM4020100HS	2.0	2	10	1.91	4	50
LEM4020120HS	2.0	2	12	1.91	4	50
LEM4020140HS	2.0	2	14	1.91	4	60
LEM4020160HS	2.0	2	16	1.91	4	60
LEM4020180HS	2.0	2	18	1.91	4	60
LEM4020200HS	2.0	2	20	1.91	4	60
LEM4030080HS	3.0	3	8	2.92	6	50
LEM4030120HS	3.0	3	12	2.92	6	50

高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
HS 系列 (涂层) HS Series (Coating)	dc	lc	lf	dl	ds	lo
LEM4030160HS	3.0	3	16	2.92	6	60
LEM4030200HS	3.0	3	20	2.92	6	60
LEM4030250HS	3.0	3	25	2.92	6	70
LEM4040120HS	4.0	4	12	3.82	6	50
LEM4040160HS	4.0	4	16	3.82	6	60
LEM4040200HS	4.0	4	20	3.82	6	60
LEM4040250HS	4.0	4	25	3.82	6	70
LEM4040300HS	4.0	4	30	3.82	6	70
LEM4040350HS	4.0	4	35	3.82	6	80
LEM4060200HS	6.0	6	20	5.82	6	80
LEM4060300HS	6.0	6	30	5.82	6	90
LEM4060400HS	6.0	6	40	5.82	6	100

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys, Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
LEM4-HS	○	○	○	○	○	◎	◎	◎	○	○	○		◎	

● REM 整体硬质合金两刃圆鼻铣刀 — 经济型
REM Solid Carbide Corner Radius End Mill with Two Cutting Edges --Economical Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。；
2、刃径公差按dc≤φ3 直径公差为0/-0.02.
dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为35度。
6、刀尖圆角公差为±0.02。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、Cutting edge to center with tip angle
5、Helix angle 35°
6、Tolerance of corner R ±0.02.

单位：mm

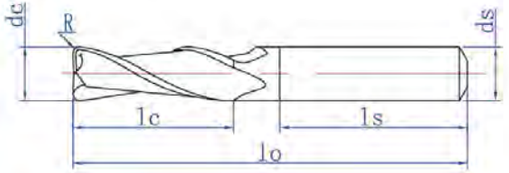
经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
ST系列 (涂层) ST Series（Coating）	dc	lc	ds	lo	R
REM201002ST	1.0	2	4	45	0.2
REM201003ST	1.0	2	4	45	0.3
REM202002ST	2.0	4	4	45	0.2
REM202003ST	2.0	4	4	45	0.3
REM202005ST	2.0	4	4	45	0.5
REM203002ST	3.0	10	6	45	0.2
REM203003ST	3.0	10	6	45	0.3
REM203005ST	3.0	10	6	45	0.5
REM203010ST	3.0	10	6	45	1.0
REM204002ST	4.0	12	6	45	0.2
REM204003ST	4.0	12	6	45	0.3
REM204005ST	4.0	12	6	45	0.5
REM204010ST	4.0	12	6	45	1.0
REM205002ST	5.0	15	6	50	0.2
REM205003ST	5.0	15	6	50	0.3
REM205005ST	5.0	15	6	50	0.5
REM205010ST	5.0	15	6	50	1.0
REM206002ST	6.0	15	6	50	0.2
REM206003ST	6.0	15	6	50	0.3
REM206005ST	6.0	15	6	50	0.5
REM206010ST	6.0	15	6	50	1.0
REM208005ST	8.0	20	8	60	0.5
REM208010ST	8.0	20	8	60	1.0

经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
ST系列 (涂层) ST Series（Coating）	dc	lc	ds	lo	R
REM208015ST	8.0	20	8	60	1.5
REM208020ST	8.0	20	8	60	2.0
REM208025ST	8.0	20	8	60	2.5
REM210005ST	10.0	25	10	70	0.5
REM210010ST	10.0	25	10	70	1.0
REM210015ST	10.0	25	10	70	1.5
REM210020ST	10.0	25	10	70	2.0
REM210025ST	10.0	25	10	70	2.5
REM210030ST	10.0	25	10	70	3.0
REM212005ST	12.0	25	12	75	0.5
REM212010ST	12.0	25	12	75	1.0
REM212015ST	12.0	25	12	75	1.5
REM212020ST	12.0	25	12	75	2.0
REM212025ST	12.0	25	12	75	2.5
REM212030ST	12.0	25	12	75	3.0
REM216010ST	16.0	32	16	110	1.0
REM216020ST	16.0	32	16	110	2.0
REM216030ST	16.0	32	16	110	3.0
REM220010ST	20.0	38	20	110	1.0
REM220020ST	20.0	38	20	110	2.0
REM220030ST	20.0	38	20	110	3.0

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
REM2-ST	◎	◎	◎	◎	◎				○		○		○	

● REM 整体硬质合金两刃圆鼻铣刀 — 基准型
REM Solid Carbide Corner Radius End Mill with Two Cutting Edges --Basic Type





刀具特点说明：

1、 刀具尺寸按本公司标准制造，接受非标定制。；
2、 刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、 柄部尺寸公差为h6；
4、 底刃均为对称刃设计，有刃倾角；
5、 螺旋角为35度。
6、 刀尖圆角公差为±0.02。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle
5、 Helix angle 35°
6、 Tolerance of corner R ±0.02.

单位：mm

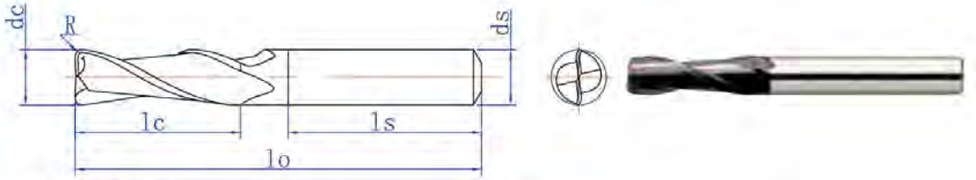
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo	R
REM201002STA	1.0	2	4	45	0.2
REM201003STA	1.0	2	4	45	0.3
REM202002STA	2.0	4	4	45	0.2
REM202003STA	2.0	4	4	45	0.3
REM202005STA	2.0	4	4	45	0.5
REM203002STA	3.0	10	6	45	0.2
REM203003STA	3.0	10	6	45	0.3
REM203005STA	3.0	10	6	45	0.5
REM203010STA	3.0	10	6	45	1.0
REM204002STA	4.0	12	6	45	0.2
REM204003STA	4.0	12	6	45	0.3
REM204005STA	4.0	12	6	45	0.5
REM204010STA	4.0	12	6	45	1.0
REM205002STA	5.0	15	6	50	0.2
REM205003STA	5.0	15	6	50	0.3
REM205005STA	5.0	15	6	50	0.5
REM205010STA	5.0	15	6	50	1.0
REM206002STA	6.0	15	6	50	0.2
REM206003STA	6.0	15	6	50	0.3
REM206005STA	6.0	15	6	50	0.5
REM206010STA	6.0	15	6	50	1.0
REM208005STA	8.0	20	8	60	0.5
REM208010STA	8.0	20	8	60	1.0

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA系列 (涂层) STA Series（Coating）	dc	lc	ds	lo	R
REM208015STA	8.0	20	8	60	1.5
REM208020STA	8.0	20	8	60	2.0
REM208025STA	8.0	20	8	60	2.5
REM210005STA	10.0	25	10	70	0.5
REM210010STA	10.0	25	10	70	1.0
REM210015STA	10.0	25	10	70	1.5
REM210020STA	10.0	25	10	70	2.0
REM210025STA	10.0	25	10	70	2.5
REM210030STA	10.0	25	10	70	3.0
REM212005STA	12.0	25	12	75	0.5
REM212010STA	12.0	25	12	75	1.0
REM212015STA	12.0	25	12	75	1.5
REM212020STA	12.0	25	12	75	2.0
REM212025STA	12.0	25	12	75	2.5
REM212030STA	12.0	25	12	75	3.0
REM216010STA	16.0	32	16	110	1.0
REM216020STA	16.0	32	16	110	2.0
REM216030STA	16.0	32	16	110	3.0
REM220010STA	20.0	38	20	110	1.0
REM220020STA	20.0	38	20	110	2.0
REM220030STA	20.0	38	20	110	3.0

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
REM2-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● REM 整体硬质合金两刃圆鼻铣刀 — 高性能型
REM Solid Carbide Corner Radius End Mill with Two Cutting Edges --High-performance Type



刀具特点说明：

1、 刀具尺寸按本公司标准制造，接受非标定制。；
2、 刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、 柄部尺寸公差为h6；
4、 底刃均为对称刃设计，有刃倾角；
5、 螺旋角为35度。
6、 刀尖圆角公差为±0.02。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle
5、 Helix angle 35°
6、 Tolerance of corner R ±0.02.

单位：mm

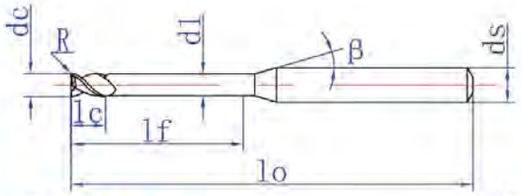
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo	R
REM201002HTA	1.0	2	4	45	0.2
REM201003HTA	1.0	2	4	45	0.3
REM202002HTA	2.0	4	4	45	0.2
REM202003HTA	2.0	4	4	45	0.3
REM202005HTA	2.0	4	4	45	0.5
REM203002HTA	3.0	10	6	45	0.2
REM203003HTA	3.0	10	6	45	0.3
REM203005HTA	3.0	10	6	45	0.5
REM203010HTA	3.0	10	6	45	1.0
REM204002HTA	4.0	12	6	45	0.2
REM204003HTA	4.0	12	6	45	0.3
REM204005HTA	4.0	12	6	45	0.5
REM204010HTA	4.0	12	6	45	1.0
REM205002HTA	5.0	15	6	50	0.2
REM205003HTA	5.0	15	6	50	0.3
REM205005HTA	5.0	15	6	50	0.5
REM205010HTA	5.0	15	6	50	1.0
REM206002HTA	6.0	15	6	50	0.2
REM206003HTA	6.0	15	6	50	0.3
REM206005HTA	6.0	15	6	50	0.5
REM206010HTA	6.0	15	6	50	1.0
REM208005HTA	8.0	20	8	60	0.5
REM208010HTA	8.0	20	8	60	1.0

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HTA系列 (涂层) HTA Series（Coating）	dc	lc	ds	lo	R
REM208015HTA	8.0	20	8	60	1.5
REM208020HTA	8.0	20	8	60	2.0
REM208025HTA	8.0	20	8	60	2.5
REM210005HTA	10.0	25	10	70	0.5
REM210010HTA	10.0	25	10	70	1.0
REM210015HTA	10.0	25	10	70	1.5
REM210020HTA	10.0	25	10	70	2.0
REM210025HTA	10.0	25	10	70	2.5
REM210030HTA	10.0	25	10	70	3.0
REM212005HTA	12.0	25	12	75	0.5
REM212010HTA	12.0	25	12	75	1.0
REM212015HTA	12.0	25	12	75	1.5
REM212020HTA	12.0	25	12	75	2.0
REM212025HTA	12.0	25	12	75	2.5
REM212030HTA	12.0	25	12	75	3.0
REM216010HTA	16.0	32	16	110	1.0
REM216020HTA	16.0	32	16	110	2.0
REM216030HTA	16.0	32	16	110	3.0
REM220010HTA	20.0	38	20	110	1.0
REM220020HTA	20.0	38	20	110	2.0
REM220030HTA	20.0	38	20	110	3.0

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢，高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
REM2-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

● LREM 整体硬质合金两刃深沟圆鼻铣刀 -- 基准型
LREM Long Neck Solid Carbide Radius End Mill with Two Cutting Edges -- Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制；
2、刃径公差为0/-0.15；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、刃尖R角公差为±0.005；
6、螺旋角为35度；
7、柄部过渡锥角度β为16°。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc 0/-0.15
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle
5、 Corner radius R ± 0.005
6、 Helix angle 35°
7、 Shank taper angle β =16°

单位：mm

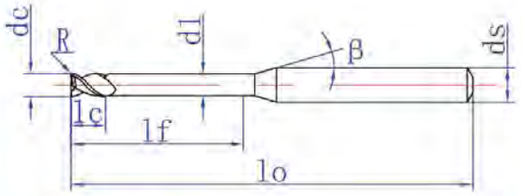
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA 系列 (涂层) STA Series（Coating）	dc	lc	lf	dl	ds	lo	R
LREM202001040STA	2.0	2.0	4	1.92	4	50	0.1
LREM202001060STA	2.0	2.0	6	1.92	4	50	0.1
LREM202001080STA	2.0	2.0	8	1.92	4	50	0.1
LREM202001100STA	2.0	2.0	10	1.92	4	50	0.1
LREM202001120STA	2.0	2.0	12	1.92	4	55	0.1
LREM202002040STA	2.0	2.0	4	1.92	4	50	0.2
LREM202002060STA	2.0	2.0	6	1.92	4	50	0.2
LREM202002080STA	2.0	2.0	8	1.92	4	50	0.2
LREM202002100STA	2.0	2.0	10	1.92	4	50	0.2
LREM202002120STA	2.0	2.0	12	1.92	4	55	0.2
LREM203001060STA	3.0	3.0	6	2.92	6	55	0.1
LREM203001120STA	3.0	3.0	12	2.92	6	55	0.1
LREM203001160STA	3.0	3.0	16	2.92	6	60	0.1
LREM203002060STA	3.0	3.0	6	2.92	6	55	0.2
LREM203002120STA	3.0	3.0	12	2.92	6	55	0.2
LREM203002160STA	3.0	3.0	16	2.92	6	60	0.2
LREM203003060STA	3.0	3.0	6	2.92	6	55	0.3
LREM203003120STA	3.0	3.0	12	2.92	6	55	0.3
LREM203003160STA	3.0	3.0	16	2.92	6	60	0.3
LREM203003200STA	3.0	3.0	20	2.92	6	60	0.3
LREM203005060STA	3.0	3.0	6	2.92	6	55	0.5

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA 系列 (涂层) STA Series（Coating）	dc	lc	lf	dl	ds	lo	R
LREM203005120STA	3.0	3.0	12	2.92	6	55	0.5
LREM203005160STA	3.0	3.0	16	2.92	6	60	0.5
LREM203005200STA	3.0	3.0	20	2.92	6	60	0.5
LREM204002080STA	4.0	4.0	8	3.82	6	65	0.2
LREM204002120STA	4.0	4.0	12	3.82	6	65	0.2
LREM204002160STA	4.0	4.0	16	3.82	6	65	0.2
LREM204002200STA	4.0	4.0	20	3.82	6	65	0.2
LREM204005080STA	4.0	4.0	8	3.82	6	65	0.5
LREM204005120STA	4.0	4.0	12	3.82	6	65	0.5
LREM204005160STA	4.0	4.0	16	3.82	6	65	0.5
LREM204005200STA	4.0	4.0	20	3.82	6	65	0.5
LREM206002120STA	6.0	6.0	12	5.82	6	65	0.2
LREM206002200STA	6.0	6.0	20	5.82	6	70	0.2
LREM206002300STA	6.0	6.0	30	5.82	6	100	0.2
LREM206005120STA	6.0	6.0	12	5.82	6	65	0.5
LREM206005200STA	6.0	6.0	20	5.82	6	70	0.5
LREM206005300STA	6.0	6.0	30	5.82	6	100	0.5

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
LREM2-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● LREM 整体硬质合金两刃深沟圆鼻铣刀 -- 高硬度型
LREM Long Neck Solid Carbide Radius End Mill with Two Cutting Edges -- High Hardness Processing Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制;
2、刃径公差为0/-0.15;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、刃尖R角公差为±0.005;
6、螺旋角为35度;
7、柄部过渡锥角度β为16°。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc 0/-0.15
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle
5、 Corner radius R±0.005
6、 Helix angle 35°
7、 Shank taper angle β=16°

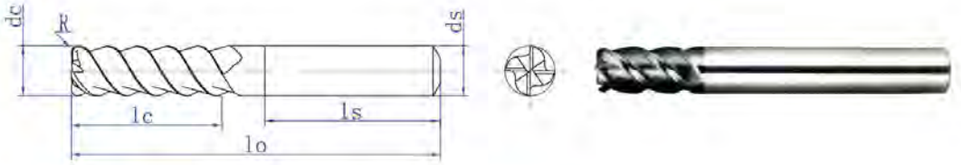
单位: mm

高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HS 系列 (涂层) HS Series (Coating)	dc	lc	lf	dl	ds	lo	R
LREM200501010HS	0.5	0.5	1	0.48	4	50	0.1
LREM200501020HS	0.5	0.5	2	0.48	4	50	0.1
LREM200601020HS	0.6	0.6	2	0.58	4	50	0.1
LREM200601030HS	0.6	0.6	3	0.58	4	50	0.1
LREM201001030HS	1.0	1.0	3	0.95	4	50	0.1
LREM201001040HS	1.0	1.0	4	0.95	4	50	0.1
LREM201001060HS	1.0	1.0	6	0.95	4	50	0.1
LREM201002030HS	1.0	1.0	3	0.95	4	50	0.2
LREM201002040HS	1.0	1.0	4	0.95	4	50	0.2
LREM201002060HS	1.0	1.0	6	0.95	4	50	0.2
LREM201502040HS	1.5	1.5	4	1.45	4	50	0.2
LREM201502060HS	1.5	1.5	6	1.45	4	50	0.2
LREM201502080HS	1.5	1.5	8	1.45	4	50	0.2
LREM202001040HS	2.0	2.0	4	1.92	4	50	0.1
LREM202001060HS	2.0	2.0	6	1.92	4	50	0.1
LREM202001080HS	2.0	2.0	8	1.92	4	50	0.1
LREM202001100HS	2.0	2.0	10	1.92	4	50	0.1
LREM202001120HS	2.0	2.0	12	1.92	4	55	0.1
LREM202002040HS	2.0	2.0	4	1.92	4	50	0.2
LREM202002060HS	2.0	2.0	6	1.92	4	50	0.2
LREM202002080HS	2.0	2.0	8	1.92	4	50	0.2
LREM202002100HS	2.0	2.0	10	1.92	4	50	0.2
LREM202002120HS	2.0	2.0	12	1.92	4	55	0.2
LREM203001060HS	3.0	3.0	6	2.92	6	55	0.1
LREM203001120HS	3.0	3.0	12	2.92	6	55	0.1
LREM203001160HS	3.0	3.0	16	2.92	6	60	0.1
LREM203002060HS	3.0	3.0	6	2.92	6	55	0.2
LREM203002120HS	3.0	3.0	12	2.92	6	55	0.2
LREM203002160HS	3.0	3.0	16	2.92	6	60	0.2
LREM203003060HS	3.0	3.0	6	2.92	6	55	0.3
LREM203003120HS	3.0	3.0	12	2.92	6	55	0.3
LREM203003160HS	3.0	3.0	16	2.92	6	60	0.3
LREM203003200HS	3.0	3.0	20	2.92	6	60	0.3
LREM203005060HS	3.0	3.0	6	2.92	6	55	0.5
LREM203005120HS	3.0	3.0	12	2.92	6	55	0.5
LREM203005160HS	3.0	3.0	16	2.92	6	60	0.5
LREM203005200HS	3.0	3.0	20	2.92	6	60	0.5
LREM204002080HS	4.0	4.0	8	3.82	6	65	0.2
LREM204002120HS	4.0	4.0	12	3.82	6	65	0.2
LREM204002160HS	4.0	4.0	16	3.82	6	65	0.2
LREM204002200HS	4.0	4.0	20	3.82	6	65	0.2
LREM204005080HS	4.0	4.0	8	3.82	6	65	0.5
LREM204005120HS	4.0	4.0	12	3.82	6	65	0.5
LREM204005160HS	4.0	4.0	16	3.82	6	65	0.5
LREM204005200HS	4.0	4.0	20	3.82	6	65	0.5
LREM206002120HS	6.0	6.0	12	5.82	6	65	0.2
LREM206002200HS	6.0	6.0	20	5.82	6	70	0.2
LREM206002300HS	6.0	6.0	30	5.82	6	100	0.2
LREM206005120HS	6.0	6.0	12	5.82	6	65	0.5
LREM206005200HS	6.0	6.0	20	5.82	6	70	0.5
LREM206005300HS	6.0	6.0	30	5.82	6	100	0.5

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合) Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material												
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
LREM2-HS	○	○	○	○	○	◎	◎	○	○	○	○		◎	

● REM 整体硬质合金四刃圆鼻铣刀 — 经济型
REM Solid Carbide Corner Radius End Mill with Four Cutting Edges -- Economical Type



刀具特点说明：

1、 刀具尺寸按本公司标准制造，接受非标定制。
2、 刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、 柄部尺寸公差为h6；
4、 底刃均为对称刃设计，有刃倾角；
5、 螺旋角为35度。
6、 刀尖圆角R公差为±0.02。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle
5、 Helix angle 35°
6、 Tolerance of corner R ±0.02.

单位：mm

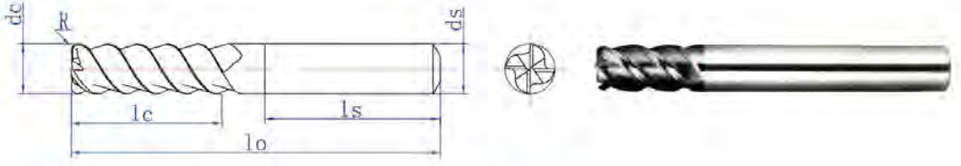
经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
ST 系列 (涂层) ST Series（Coating）	dc	lc	ds	lo	R
REM403003ST	3.0	10	6	45	0.3
REM403005ST	3.0	10	6	45	0.5
REM403008ST	3.0	10	6	45	0.8
REM404002ST	4.0	12	6	45	0.2
REM404003ST	4.0	12	6	45	0.3
REM404005ST	4.0	12	6	45	0.5
REM404010ST	4.0	12	6	45	1.0
REM405002ST	5.0	15	6	50	0.2
REM405003ST	5.0	15	6	50	0.3
REM405005ST	5.0	15	6	50	0.5
REM405010ST	5.0	15	6	50	1.0
REM405012ST	5.0	15	6	50	1.2
REM406002ST	6.0	15	6	50	0.2
REM406003ST	6.0	15	6	50	0.3
REM406005ST	6.0	15	6	50	0.5
REM406010ST	6.0	15	6	50	1.0
REM408005ST	8.0	20	8	60	0.5
REM408010ST	8.0	20	8	60	1.0
REM408015ST	8.0	20	8	60	1.5
REM408020ST	8.0	20	8	60	2.0
REM408025ST	8.0	20	8	60	2.5

经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
ST 系列 (涂层) ST Series（Coating）	dc	lc	ds	lo	R
REM410005ST	10.0	25	10	70	0.5
REM410010ST	10.0	25	10	70	1.0
REM410015ST	10.0	25	10	70	1.5
REM410020ST	10.0	25	10	70	2.0
REM410025ST	10.0	25	10	70	2.5
REM410030ST	10.0	25	10	70	3.0
REM412005ST	12.0	25	12	75	0.5
REM412010ST	12.0	25	12	75	1.0
REM412015ST	12.0	25	12	75	1.5
REM412020ST	12.0	25	12	75	2.0
REM412025ST	12.0	25	12	75	2.5
REM412030ST	12.0	25	12	75	3.0
REM416010ST	16.0	32	16	110	1.0
REM416020ST	16.0	32	16	110	2.0
REM416030ST	16.0	32	16	110	3.0
REM416040ST	16.0	32	16	110	4.0
REM416050ST	16.0	32	16	110	5.0
REM420010ST	20.0	38	20	110	1.0
REM420020ST	20.0	38	20	110	2.0
REM420030ST	20.0	38	20	110	3.0
REM420040ST	20.0	38	20	110	4.0
REM420050ST	20.0	38	20	110	5.0

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
REM4-ST	◎	◎	◎	◎	◎				○		○		○	

● REM 整体硬质合金四刃圆鼻铣刀 — 基准型
REM Solid Carbide Corner Radius End Mill with Four Cutting Edges -- Basic Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为35度。
6、刀尖圆角R公差为±0.02。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 Cutting edge to center with tip angle
5、 Helix angle 35°
6、 Tolerance of corner R ±0.02.

单位：mm

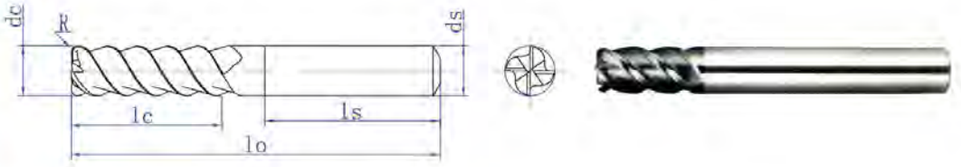
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA 系列 (涂层) STA Series（Coating）	dc	lc	ds	lo	R
REM403003STA	3.0	10	6	45	0.3
REM403005STA	3.0	10	6	45	0.5
REM403008STA	3.0	10	6	45	0.8
REM404002STA	4.0	12	6	45	0.2
REM404003STA	4.0	12	6	45	0.3
REM404005STA	4.0	12	6	45	0.5
REM404010STA	4.0	12	6	45	1.0
REM405002STA	5.0	15	6	50	0.2
REM405003STA	5.0	15	6	50	0.3
REM405005STA	5.0	15	6	50	0.5
REM405010STA	5.0	15	6	50	1.0
REM405012STA	5.0	15	6	50	1.2
REM406002STA	6.0	15	6	50	0.2
REM406003STA	6.0	15	6	50	0.3
REM406005STA	6.0	15	6	50	0.5
REM406010STA	6.0	15	6	50	1.0
REM408005STA	8.0	20	8	60	0.5
REM408010STA	8.0	20	8	60	1.0
REM408015STA	8.0	20	8	60	1.5
REM408020STA	8.0	20	8	60	2.0
REM408025STA	8.0	20	8	60	2.5

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA 系列 (涂层) STA Series（Coating）	dc	lc	ds	lo	R
REM410005STA	10.0	25	10	70	0.5
REM410010STA	10.0	25	10	70	1.0
REM410015STA	10.0	25	10	70	1.5
REM410020STA	10.0	25	10	70	2.0
REM410025STA	10.0	25	10	70	2.5
REM410030STA	10.0	25	10	70	3.0
REM412005STA	12.0	25	12	75	0.5
REM412010STA	12.0	25	12	75	1.0
REM412015STA	12.0	25	12	75	1.5
REM412020STA	12.0	25	12	75	2.0
REM412025STA	12.0	25	12	75	2.5
REM412030STA	12.0	25	12	75	3.0
REM416010STA	16.0	32	16	110	1.0
REM416020STA	16.0	32	16	110	2.0
REM416030STA	16.0	32	16	110	3.0
REM416040STA	16.0	32	16	110	4.0
REM416050STA	16.0	32	16	110	5.0
REM420010STA	20.0	38	20	110	1.0
REM420020STA	20.0	38	20	110	2.0
REM420030STA	20.0	38	20	110	3.0
REM420040STA	20.0	38	20	110	4.0
REM420050STA	20.0	38	20	110	5.0

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
REM4-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● REM 整体硬质合金四刃圆鼻铣刀 — 高性能型
REM Solid Carbide Corner Radius End Mill with Four Cutting Edges -- High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02、
dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为35度。
6、刀尖圆角R公差为±0.02。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、Cutting edge to center with tip angle
5、Helix angle 35°
6、Tolerance of corner R ±0.02.

单位：mm

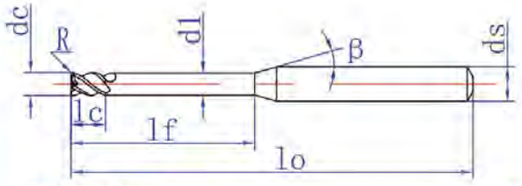
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HTA 系列 (涂层) HTA Series (Coating)	dc	lc	ds	lo	R
REM403003HTA	3.0	10	6	45	0.3
REM403005HTA	3.0	10	6	45	0.5
REM403008HTA	3.0	10	6	45	0.8
REM404002HTA	4.0	12	6	45	0.2
REM404003HTA	4.0	12	6	45	0.3
REM404005HTA	4.0	12	6	45	0.5
REM404010HTA	4.0	12	6	45	1.0
REM405002HTA	5.0	15	6	50	0.2
REM405003HTA	5.0	15	6	50	0.3
REM405005HTA	5.0	15	6	50	0.5
REM405010HTA	5.0	15	6	50	1.0
REM405012HTA	5.0	15	6	50	1.2
REM406002HTA	6.0	15	6	50	0.2
REM406003HTA	6.0	15	6	50	0.3
REM406005HTA	6.0	15	6	50	0.5
REM406010HTA	6.0	15	6	50	1.0
REM408005HTA	8.0	20	8	60	0.5
REM408010HTA	8.0	20	8	60	1.0
REM408015HTA	8.0	20	8	60	1.5
REM408020HTA	8.0	20	8	60	2.0
REM408025HTA	8.0	20	8	60	2.5

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HTA 系列 (涂层) HTA Series (Coating)	dc	lc	ds	lo	R
REM410005HTA	10.0	25	10	70	0.5
REM410010HTA	10.0	25	10	70	1.0
REM410015HTA	10.0	25	10	70	1.5
REM410020HTA	10.0	25	10	70	2.0
REM410025HTA	10.0	25	10	70	2.5
REM410030HTA	10.0	25	10	70	3.0
REM412005HTA	12.0	25	12	75	0.5
REM412010HTA	12.0	25	12	75	1.0
REM412015HTA	12.0	25	12	75	1.5
REM412020HTA	12.0	25	12	75	2.0
REM412025HTA	12.0	25	12	75	2.5
REM412030HTA	12.0	25	12	75	3.0
REM416010HTA	16.0	32	16	110	1.0
REM416020HTA	16.0	32	16	110	2.0
REM416030HTA	16.0	32	16	110	3.0
REM416040HTA	16.0	32	16	110	4.0
REM416050HTA	16.0	32	16	110	5.0
REM420010HTA	20.0	38	20	110	1.0
REM420020HTA	20.0	38	20	110	2.0
REM420030HTA	20.0	38	20	110	3.0
REM420040HTA	20.0	38	20	110	4.0
REM420050HTA	20.0	38	20	110	5.0

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
REM4-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

● LREM 整体硬质合金四刃深沟圆鼻铣刀 -- 基准型
LREM Long Neck Solid Carbide Radius End Mill With Four Cutting Edges -- Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制;
2、刃径公差为0/-0.15;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、dc≤D2刃尖R角公差为±0.005,
其余R角公差为±0.015; dc≤D6螺旋角为35度,
dc＞D6螺旋角为45度;
6、柄部过渡锥角度β为16°。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc 0/-0.15
3、Tolerance of shank h6
4、Cutting edge to center with tip angle
5、dc≤D2 Tolerance of R ±0.005,
others ±0.015, dc≤D6 Helix angle 35°,
dc＞D6 Helix angle 45°
6、Shank taper angle β=16°.

单位: mm

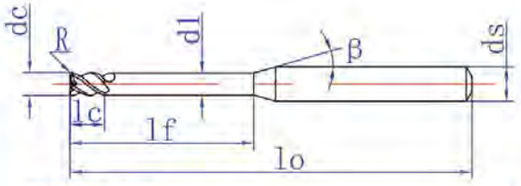
基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA 系列 (涂层) STA Series (Coating)	dc	lc	lf	dl	ds	lo	R
LREM403001060STA	3.0	2.4	6	2.92	6	55	0.1
LREM403001100STA	3.0	2.4	10	2.92	6	55	0.1
LREM403001120STA	3.0	2.4	12	2.92	6	55	0.1
LREM403001160STA	3.0	2.4	16	2.92	6	60	0.1
LREM403002060STA	3.0	2.4	6	2.92	6	55	0.2
LREM403002100STA	3.0	2.4	10	2.92	6	55	0.2
LREM403002120STA	3.0	2.4	12	2.92	6	55	0.2
LREM403002160STA	3.0	2.4	16	2.92	6	60	0.2
LREM403005100STA	3.0	2.4	10	2.92	6	55	0.5
LREM403005120STA	3.0	2.4	12	2.92	6	55	0.5
LREM403005160STA	3.0	2.4	16	2.92	6	60	0.5
LREM403005200STA	3.0	2.4	20	2.92	6	60	0.5
LREM404002080STA	4.0	3.2	8	3.82	6	65	0.2
LREM404002160STA	4.0	3.2	16	3.82	6	65	0.2
LREM404002240STA	4.0	3.2	24	3.82	6	70	0.2
LREM404005080STA	4.0	3.2	8	3.82	6	65	0.5
LREM404005160STA	4.0	3.2	16	3.82	6	65	0.5
LREM404005240STA	4.0	3.2	24	3.82	6	70	0.5
LREM404010080STA	4.0	3.2	8	3.82	6	65	1.0
LREM404010160STA	4.0	3.2	16	3.82	6	65	1.0
LREM404010240STA	4.0	3.2	24	3.82	6	70	1.0

基准型订货号 Basic Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
STA 系列 (涂层) STA Series (Coating)	dc	lc	lf	dl	ds	lo	R
LREM406002120STA	6.0	4.8	12	5.82	6	65	0.2
LREM406002200STA	6.0	4.8	20	5.82	6	70	0.2
LREM406002300STA	6.0	4.8	30	5.82	6	100	0.2
LREM406005120STA	6.0	4.8	12	5.82	6	65	0.5
LREM406005200STA	6.0	4.8	20	5.82	6	70	0.5
LREM406005300STA	6.0	4.8	30	5.82	6	100	0.5
LREM406005400STA	6.0	4.8	40	5.82	6	100	0.5
LREM406010120STA	6.0	4.8	12	5.82	6	65	1.0
LREM406010200STA	6.0	4.8	20	5.82	6	70	1.0
LREM406010300STA	6.0	4.8	30	5.82	6	100	1.0
LREM406010400STA	6.0	4.8	40	5.82	6	100	1.0
LREM408005240STA	8.0	8.0	24	7.82	8	100	0.5
LREM408010240STA	8.0	8.0	24	7.82	8	100	1.0
LREM410005300STA	10.0	10.0	30	9.82	10	110	0.5
LREM410010300STA	10.0	10.0	30	9.82	10	110	1.0
LREM412005360STA	12.0	12.0	36	11.82	12	120	0.5
LREM412010360STA	12.0	12.0	36	11.82	12	120	1.0
LREM412020360STA	12.0	12.0	36	11.82	12	120	2

备注 Note: 被加工材料选择基准(◎ 最适合 ○ 适合) Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢，高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys, Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
LREM4-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● LREM 整体硬质合金四刃深沟圆鼻铣刀 -- 高硬度型
LREM Long Neck Solid Carbide Radius End Mill With Four Cutting Edges -- High Hardness Processing Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制；
2、刃径公差为0/-0.15；
3、柄部尺寸公差为h6；
4、底刃均为对称刃设计，有刃倾角；
5、dc≤D2刃尖R角公差为±0.005，
其余R角公差为±0.015；dc≤D6螺旋角为35度，
dc＞D6螺旋角为45度；
6、柄部过渡锥角度β为16°。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc 0/-0.15
3、Tolerance of shank h6
4、Cutting edge to center with tip angle
5、dc≤D2 Tolerance of R ±0.005,
others ±0.015, dc≤D6 Helix angle 35°,
dc＞D6 Helix angle 45°
6、Shank taper angle β=16°.

单位：mm

高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HS 系列 (涂层) HS Series (Coating)	dc	lc	lf	dl	ds	lo	R
LREM401001030HS	1.0	0.8	3	0.95	4	50	0.1
LREM401001040HS	1.0	0.8	4	0.95	4	50	0.1
LREM401001050HS	1.0	0.8	5	0.95	4	50	0.1
LREM401001060HS	1.0	0.8	6	0.95	4	50	0.1
LREM401001080HS	1.0	0.8	8	0.95	4	50	0.1
LREM401002030HS	1.0	0.8	3	0.95	4	50	0.2
LREM401002040HS	1.0	0.8	4	0.95	4	50	0.2
LREM401002050HS	1.0	0.8	5	0.95	4	50	0.2
LREM401002060HS	1.0	0.8	6	0.95	4	50	0.2
LREM401002080HS	1.0	0.8	8	0.95	4	50	0.2
LREM401501040HS	1.5	1.2	4	1.45	4	50	0.1
LREM401501060HS	1.5	1.2	6	1.45	4	50	0.1
LREM401501080HS	1.5	1.2	8	1.45	4	50	0.1
LREM401501100HS	1.5	1.2	10	1.45	4	50	0.1
LREM401502040HS	1.5	1.2	4	1.45	4	50	0.2
LREM401502060HS	1.5	1.2	6	1.45	4	50	0.2
LREM401502080HS	1.5	1.2	8	1.45	4	50	0.2
LREM401502100HS	1.5	1.2	10	1.45	4	50	0.2
LREM402001040HS	2.0	1.6	4	1.92	4	50	0.1
LREM402001060HS	2.0	1.6	6	1.92	4	50	0.1
LREM402001080HS	2.0	1.6	8	1.92	4	50	0.1

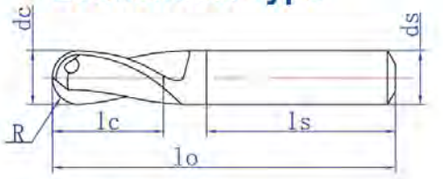
高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HS 系列 (涂层) HS Series (Coating)	dc	lc	lf	dl	ds	lo	R
LREM402001100HS	2.0	1.6	10	1.92	4	50	0.1
LREM402001120HS	2.0	1.6	12	1.92	4	55	0.1
LREM402001160HS	2.0	1.6	16	1.92	4	60	0.1
LREM402002040HS	2.0	1.6	4	1.92	4	50	0.2
LREM402002060HS	2.0	1.6	6	1.92	4	50	0.2
LREM402002080HS	2.0	1.6	8	1.92	4	50	0.2
LREM402002100HS	2.0	1.6	10	1.92	4	50	0.2
LREM402002120HS	2.0	1.6	12	1.92	4	55	0.2
LREM402002160HS	2.0	1.6	16	1.92	4	60	0.2
LREM403001060HS	3.0	2.4	6	2.92	6	55	0.1
LREM403001100HS	3.0	2.4	10	2.92	6	55	0.1
LREM403001120HS	3.0	2.4	12	2.92	6	55	0.1
LREM403001160HS	3.0	2.4	16	2.92	6	60	0.1
LREM403002060HS	3.0	2.4	6	2.92	6	55	0.2
LREM403002100HS	3.0	2.4	10	2.92	6	55	0.2
LREM403002120HS	3.0	2.4	12	2.92	6	55	0.2
LREM403002160HS	3.0	2.4	16	2.92	6	60	0.2
LREM403005100HS	3.0	2.4	10	2.92	6	55	0.5
LREM403005120HS	3.0	2.4	12	2.92	6	55	0.5
LREM403005160HS	3.0	2.4	16	2.92	6	60	0.5
LREM403005200HS	3.0	2.4	20	2.92	6	60	0.5
LREM404002080HS	4.0	3.2	8	3.82	6	65	0.2
LREM404002160HS	4.0	3.2	16	3.82	6	65	0.2
LREM404002240HS	4.0	3.2	24	3.82	6	70	0.2
LREM404005080HS	4.0	3.2	8	3.82	6	65	0.5
LREM404005160HS	4.0	3.2	16	3.82	6	65	0.5
LREM404005240HS	4.0	3.2	24	3.82	6	70	0.5
LREM404010080HS	4.0	3.2	8	3.82	6	65	1.0
LREM404010160HS	4.0	3.2	16	3.82	6	65	1.0
LREM404010240HS	4.0	3.2	24	3.82	6	70	1.0
LREM406002120HS	6.0	4.8	12	5.82	6	65	0.2
LREM406002200HS	6.0	4.8	20	5.82	6	70	0.2
LREM406002300HS	6.0	4.8	30	5.82	6	100	0.2
LREM406005120HS	6.0	4.8	12	5.82	6	65	0.5
LREM406005200HS	6.0	4.8	20	5.82	6	70	0.5
LREM406005300HS	6.0	4.8	30	5.82	6	100	0.5
LREM406005400HS	6.0	4.8	40	5.82	6	100	0.5
LREM406010120HS	6.0	4.8	12	5.82	6	65	1.0
LREM406010200HS	6.0	4.8	20	5.82	6	70	1.0
LREM406010300HS	6.0	4.8	30	5.82	6	100	1.0
LREM406010400HS	6.0	4.8	40	5.82	6	100	1.0
LREM408005240HS	8.0	8.0	24	7.82	8	100	0.5
LREM408010240HS	8.0	8.0	24	7.82	8	100	1.0
LREM410005300HS	10.0	10.0	30	9.82	10	110	0.5
LREM410010300HS	10.0	10.0	30	9.82	10	110	1.0
LREM412005360HS	12.0	12.0	36	11.82	12	120	0.5

高硬度型订货号 High Hardness Processing Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length	刀尖角 Corner Radius
HS 系列 (涂层) HS Series (Coating)	dc	lc	lf	dl	ds	lo	R
LREM412010360HS	12.0	12.0	36	11.82	12	120	1.0
LREM412020360HS	12.0	12.0	36	11.82	12	120	2

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material												
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
LREM4-HS	○	○	○	○	○	◎	◎	○	○	○	○		◎	

● BEM 整体硬质合金两刃球头铣刀 -- 经济型
BEM Solid Carbide Ball End Mill With Two Cutting Edges -- Economical Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、R0.5~R3，R角公差为±0.005，R4~R6，R角公差为±0.007，R7~R16，R角公差为±0.01。
5、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5、Helix angle 35°.

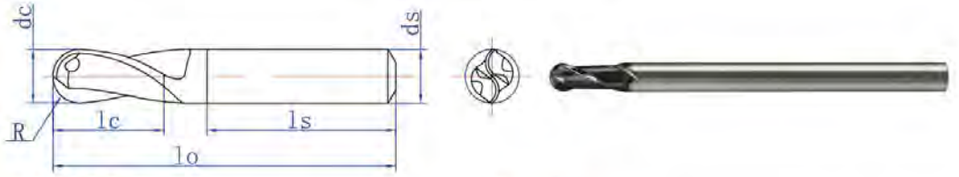
单位：mm

经济型订货号 Economical Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
ST 系列 (涂层) ST Series (Coating)	R	lc	ds	lo
BEM20200300ST	1.00	3	4	60
BEM20200600ST	1.00	6	4	60
BEM20250375ST	1.25	3.75	4	60
BEM20300450ST	1.50	4.5	6	70
BEM20300800ST	1.50	8	6	70
BEM20400600ST	2.00	6	6	70
BEM20400800ST	2.00	8	6	70
BEM20500750ST	2.50	7.5	6	80
BEM20600900ST	3.00	9	6	80
BEM20601200ST	3.00	12	6	80
BEM20801200ST	4.00	12	8	90
BEM20801400ST	4.00	14	8	90
BEM21001500ST	5.00	15	10	100
BEM21001800ST	5.00	18	10	100
BEM21201800ST	6.00	18	12	110
BEM21202200ST	6.00	22	12	110

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material												
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
BEM2-ST	◎	◎	◎	◎	◎				○		○		○	

● BEM 整体硬质合金两刃球头铣刀 — 基准型
BEM Solid Carbide Ball End Mill With Two Cutting Edges -- Basic Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤ϕ3直径公差为0/-0.02，
dc＞ϕ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、R0.5~R3，R角公差为±0.005，R4~R6，R角公差为±0.007，R7~R16，R角公差为±0.01。
5、螺旋角为35度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5、 Helix angle 35° .

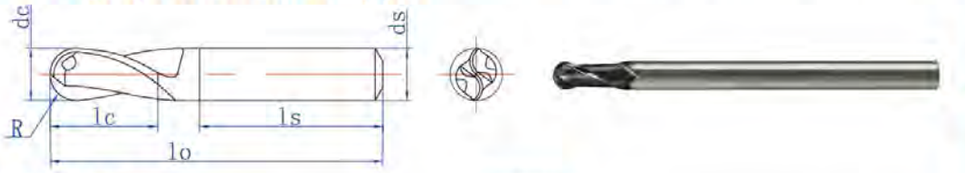
单位：mm

基准型订货号 Basic Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA 系列 (涂层) STA Series（Coating）	R	lc	ds	lo
BEM20200300STA	1.00	3	4	60
BEM20200600STA	1.00	6	4	60
BEM20250375STA	1.25	3.75	4	60
BEM20300450STA	1.50	4.5	6	70
BEM20300800STA	1.50	8	6	70
BEM20400600STA	2.00	6	6	70
BEM20400800STA	2.00	8	6	70
BEM20500750STA	2.50	7.5	6	80
BEM20600900STA	3.00	9	6	80
BEM20601200STA	3.00	12	6	80
BEM20801200STA	4.00	12	8	90
BEM20801400STA	4.00	14	8	90
BEM21001500STA	5.00	15	10	100
BEM21001800STA	5.00	18	10	100
BEM21201800STA	6.00	18	12	110
BEM21202200STA	6.00	22	12	110

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
BEM2-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● BEM 整体硬质合金两刃球头铣刀 — 高性能型
BEM Solid Carbide Ball End Mill With Two Cutting Edges -- High-performance Type



刀具特点说明：

1、 刀具尺寸按本公司标准制造，接受非标定制。
2、 刃径公差按dc≤ϕ3直径公差为0/-0.02，
dc＞ϕ3直径公差为 0/-0.03；
3、 柄部尺寸公差为h6；
4、 R0.5~R3，R角公差为±0.005，R4~R6，R角公差为±0.007，R7~R16，R角公差为±0.01。
5、 螺旋角为35度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、 Tolerance of shank h6
4、 R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5、 Helix angle 35° .

单位：mm

高性能型订货号 High-performance Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA 系列 (涂层) HTA Series（Coating）	R	lc	ds	lo
BEM20200300HTA	1.00	3	4	60
BEM20200600HTA	1.00	6	4	60
BEM20250375HTA	1.25	3.75	4	60
BEM20300450HTA	1.50	4.5	6	70
BEM20300800HTA	1.50	8	6	70
BEM20400600HTA	2.00	6	6	70
BEM20400800HTA	2.00	8	6	70
BEM20500750HTA	2.50	7.5	6	80
BEM20600900HTA	3.00	9	6	80
BEM20601200HTA	3.00	12	6	80
BEM20801200HTA	4.00	12	8	90
BEM20801400HTA	4.00	14	8	90
BEM21001500HTA	5.00	15	10	100
BEM21001800HTA	5.00	18	10	100
BEM21201800HTA	6.00	18	12	110
BEM21202200HTA	6.00	22	12	110

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
BEM2-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

● BEM 整体硬质合金两刃球头铣刀 — 高硬度型
BEM Solid Carbide Ball End Mill With Two Cutting Edges -- High Hardness Processing Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3直径公差为0/-0.02，
dc＞φ3直径公差为 0/-0.03；
3、柄部尺寸公差为h6；
4、R0.5~R3，R角公差为±0.005，R4~R6，R角公差为±0.007，R7~R16，R角公差为±0.01。
5、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5、Helix angle 35°.

单位：mm

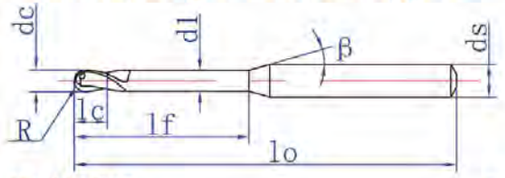
高硬度型订货号 High Hardness Processing Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HS 系列 (涂层) HS Series (Coating)	R	lc	ds	lo
BEM20010010HS	0.05	0.1	4	50
BEM20020030HS	0.10	0.3	4	50
BEM20030045HS	0.15	0.45	4	50
BEM20040060HS	0.20	0.6	4	50
BEM20050075HS	0.25	0.75	4	50
BEM20060090HS	0.30	0.9	4	50
BEM20080120HS	0.40	1.2	4	50
BEM20100150HS	0.50	1.5	4	50
BEM20100250HS	0.50	2.5	4	50
BEM20150400HS	0.75	4	4	50
BEM20200300HS	1.00	3	4	60
BEM20200600HS	1.00	6	4	60
BEM20250375HS	1.25	3.75	4	60
BEM20300450HS	1.50	4.5	6	70
BEM20300800HS	1.50	8	6	70
BEM20400600HS	2.00	6	6	70
BEM20400800HS	2.00	8	6	70
BEM20500750HS	2.50	7.5	6	80
BEM20600900HS	3.00	9	6	80
BEM20601200HS	3.00	12	6	80
BEM20801200HS	4.00	12	8	90
BEM20801400HS	4.00	14	8	90
BEM21001500HS	5.00	15	10	100

高硬度型订货号 High Hardness Processing Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HS 系列 (涂层) HS Series (Coating)	R	lc	ds	lo
BEM21001800HS	5.00	18	10	100
BEM21201800HS	6.00	18	12	110
BEM21202200HS	6.00	22	12	110

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
BEM2-HS	○	○	○	○	○	◎	◎	○	○	○	○		◎	

● LBEM 整体硬质合金两刃深沟球头铣刀 -- 基准型
BEM Long Neck Solid Carbide Ball End Mill With Two Cutting Edges-- Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造;
2、刃径公差为0/-0.015;
3、柄部尺寸公差为h6;
4、R角公差为±0.005;
5、螺旋角为35度;
6、柄部过渡锥角度β为16°。

Features:

1、All dimension is fixed by our norm ;
2、Tolerance of dc 0/-0.015;
3、Tolerance of shank h6;
4、Tolerance of R ±0.005;
5、Helix angle 35° ;
6、Shank taper angle β=16° .

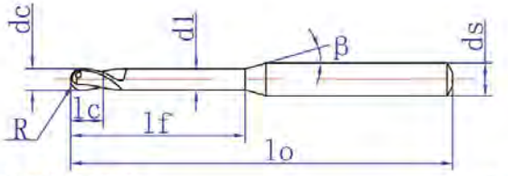
单位：mm

基准型订货号 Basic Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
STA 系列 (涂层) STA Series (Coating)	R	lc	lf	dl	ds	lo
LBEM2020060STA	1.0	1.6	6	1.93	4	45
LBEM2020080STA	1.0	1.6	8	1.93	4	45
LBEM2020100STA	1.0	1.6	10	1.93	4	45
LBEM2020120STA	1.0	1.6	12	1.93	4	45
LBEM2020140STA	1.0	1.6	14	1.93	4	50
LBEM2020160STA	1.0	1.6	16	1.93	4	50
LBEM2030060STA	1.5	2.4	6	2.9	3	60
LBEM2030080STA	1.5	2.4	8	2.9	6	60
LBEM2030100STA	1.5	2.4	10	2.9	6	60
LBEM2030120STA	1.5	2.4	12	2.9	6	60
LBEM2030140STA	1.5	2.4	14	2.9	6	60
LBEM2030160STA	1.5	2.4	16	2.9	6	60
LBEM2030200STA	1.5	2.4	20	2.9	6	70
LBEM2040080STA	2.0	3.2	8	3.9	4	70
LBEM2040100STA	2.0	3.2	10	3.9	6	70
LBEM2040120STA	2.0	3.2	12	3.9	6	70
LBEM2040160STA	2.0	3.2	16	3.9	6	70
LBEM2040200STA	2.0	3.2	20	3.9	6	70
LBEM2040250STA	2.0	3.2	25	3.9	6	70

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
LBEM2-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● LBEM 整体硬质合金两刃深沟球头铣刀 -- 高硬度型
BEM Long Neck Solid Carbide Ball End Mill With Two Cutting Edges-- High Hardness Processing Type





刀具特点说明：

1、刀具尺寸按本公司标准制造;
2、刃径公差为0/-0.015;
3、柄部尺寸公差为h6;
4、R角公差为±0.005;
5、螺旋角为35度;
6、柄部过渡锥角度β为16°。

Features:

1、All dimension is fixed by our norm ;
2、Tolerance of dc 0/-0.015;
3、Tolerance of shank h6;
4、Tolerance of R ±0.005;
5、Helix angle 35° ;
6、Shank taper angle β=16° .

单位：mm

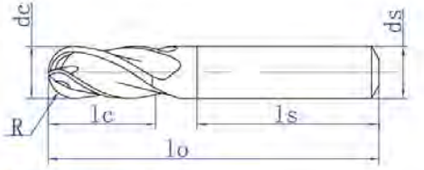
高硬度型订货号 High Hardness Processing Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
HS 系列 (涂层) HS Series (Coating)	R	lc	lf	dl	ds	lo
LBEM2002005HS	0.1	0.16	0.5	0.17	4	45
LBEM2002010HS	0.1	0.16	1	0.17	4	45
LBEM2003010HS	0.15	0.24	1	0.27	4	45
LBEM2003020HS	0.15	0.24	2	0.27	4	45
LBEM2004010HS	0.2	0.32	1	0.37	4	45
LBEM2004020HS	0.2	0.32	2	0.37	4	45
LBEM2004030HS	0.2	0.32	3	0.37	4	45
LBEM2004040HS	0.2	0.32	4	0.37	4	45
LBEM2005020HS	0.25	0.4	2	0.47	4	45
LBEM2005030HS	0.25	0.4	3	0.47	4	45
LBEM2005040HS	0.25	0.4	4	0.47	4	45
LBEM2006020HS	0.3	0.48	2	0.57	4	45
LBEM2006030HS	0.3	0.48	3	0.57	4	45
LBEM2006040HS	0.3	0.48	4	0.57	4	45
LBEM2006060HS	0.3	0.48	6	0.57	4	45
LBEM2008020HS	0.4	0.64	2	0.77	4	45
LBEM2008040HS	0.4	0.64	4	0.77	4	45
LBEM2008060HS	0.4	0.64	6	0.77	4	45
LBEM2010030HS	0.5	0.8	3	0.95	4	45
LBEM2010040HS	0.5	0.8	4	0.95	4	45
LBEM2010050HS	0.5	0.8	5	0.95	4	45
LBEM2010060HS	0.5	0.8	6	0.95	4	45
LBEM2010080HS	0.5	0.8	8	0.95	4	45
LBEM2010100HS	0.5	0.8	10	0.95	4	45
LBEM2015060HS	0.75	1.2	6	1.43	4	45

高硬度型订货号 High Hardness Processing Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	有效长 Effective Length	首径 Shank Diameter	柄径 Shank Diameter	总长 Overall Length
HS 系列 (涂层) HS Series (Coating)	R	lc	lf	dl	ds	lo
LBEM2015080HS	0.75	1.2	8	1.43	4	45
LBEM2015100HS	0.75	1.2	10	1.43	4	45
LBEM2015120HS	0.75	1.2	12	1.43	4	45
LBEM2015160HS	0.75	1.2	16	1.43	4	50
LBEM2020060HS	1.0	1.6	6	1.93	4	45
LBEM2020080HS	1.0	1.6	8	1.93	4	45
LBEM2020100HS	1.0	1.6	10	1.93	4	45
LBEM2020120HS	1.0	1.6	12	1.93	4	45
LBEM2020140HS	1.0	1.6	14	1.93	4	50
LBEM2020160HS	1.0	1.6	16	1.93	4	50
LBEM2030060HS	1.5	2.4	6	2.9	3	60
LBEM2030080HS	1.5	2.4	8	2.9	6	60
LBEM2030100HS	1.5	2.4	10	2.9	6	60
LBEM2030120HS	1.5	2.4	12	2.9	6	60
LBEM2030140HS	1.5	2.4	14	2.9	6	60
LBEM2030160HS	1.5	2.4	16	2.9	6	60
LBEM2030200HS	1.5	2.4	20	2.9	6	70
LBEM2040080HS	2.0	3.2	8	3.9	4	70
LBEM2040100HS	2.0	3.2	10	3.9	6	70
LBEM2040120HS	2.0	3.2	12	3.9	6	70
LBEM2040160HS	2.0	3.2	16	3.9	6	70
LBEM2040200HS	2.0	3.2	20	3.9	6	70
LBEM2040250HS	2.0	3.2	25	3.9	6	70

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material												
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金，耐热合金 Titanium Alloys, Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
LBEM2-HS	○	○	○	○	○	◎	◎	○	○	○	○		◎	

● BEM 整体硬质合金三刃球头铣刀 — 基准型
BEM Solid Carbide Ball End Mill With Three Cutting Edges -- Basic Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、R0.5~R3、R角公差为±0.005、R4~R6、R角公差为±0.007，R7~R16，R角公差为±0.01。
5、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、R0.5－R3, tolerance of R ±0.005, R4－R6, tolerance of R ±0.007, R7－R16, tolerance of R ±0.01,
5、Helix angle 35°.

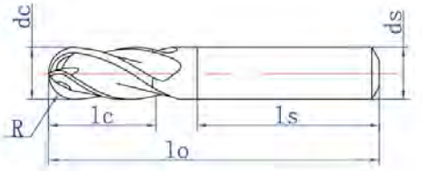
单位：mm

基准型订货号 Basic Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA 系列 (涂层) STA Series (Coating)	R	lc	ds	lo
BEM304004STA	2.00	4	6	50
BEM304006STA	2.00	6	6	70
BEM305005STA	2.50	5	6	50
BEM305008STA	2.50	8	6	80
BEM306006STA	3.00	6	6	50
BEM306009STA	3.00	9	6	80
BEM307008STA	3.50	8	8	60
BEM307012STA	3.50	12	8	90
BEM308008STA	4.00	8	8	60
BEM308012STA	4.00	12	8	90
BEM310010STA	5.00	10	10	70
BEM310015STA	5.00	15	10	100
BEM312012STA	6.00	12	12	75
BEM312018STA	6.00	18	12	110
BEM316016STA	8.00	16	16	80
BEM316024STA	8.00	24	16	120
BEM320020STA	10.00	20	20	100
BEM320030STA	10.00	30	20	140
BEM325025STA	12.50	25	25	100
BEM325040STA	12.50	40	25	150
BEM332032STA	16.00	32	32	105
BEM332048STA	16.00	48	32	160

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
BEM3-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● BEM 整体硬质合金三刃球头铣刀 -- 高性能型
BEM Solid Carbide Ball End Mill With Three Cutting Edges -- High-performance Type







刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、R0.5~R3、R角公差为±0.005、R4~R6、R角公差为±0.007，R7~R16，R角公差为±0.01。
5、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、R0.5－R3, tolerance of R ±0.005, R4－R6, tolerance of R ±0.007, R7－R16, tolerance of R ±0.01,
5、Helix angle 35°.

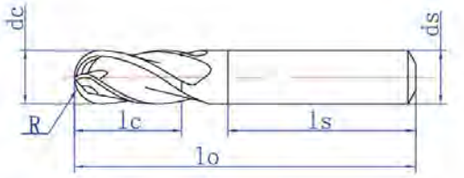
单位：mm

高性能型订货号 High-performance Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA 系列 (涂层) HTA Series（Coating）	R	lc	ds	lo
BEM304004HTA	2.00	4	6	50
BEM304006HTA	2.00	6	6	70
BEM305005HTA	2.50	5	6	50
BEM305008HTA	2.50	8	6	80
BEM306006HTA	3.00	6	6	50
BEM306009HTA	3.00	9	6	80
BEM307008HTA	3.50	8	8	60
BEM307012HTA	3.50	12	8	90
BEM308008HTA	4.00	8	8	60
BEM308012HTA	4.00	12	8	90
BEM310010HTA	5.00	10	10	70
BEM310015HTA	5.00	15	10	100
BEM312012HTA	6.00	12	12	75
BEM312018HTA	6.00	18	12	110
BEM316016HTA	8.00	16	16	80
BEM316024HTA	8.00	24	16	120
BEM320020HTA	10.00	20	20	100
BEM320030HTA	10.00	30	20	140
BEM325025HTA	12.50	25	25	100
BEM325040HTA	12.50	40	25	150
BEM332032HTA	16.00	32	32	105
BEM332048HTA	16.00	48	32	160

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
BEM3-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

● BEM 整体硬质合金四刃球头铣刀 -- 经济型
BEM Solid Carbide Ball End Mill With Four Cutting Edges -- Economical Type





刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02、dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、R0.5~R3，R角公差为±0.005、R4~R6、R角公差为±0.007、R7~R16、R角公差为±0.01。
5、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5、Helix angle 35°.

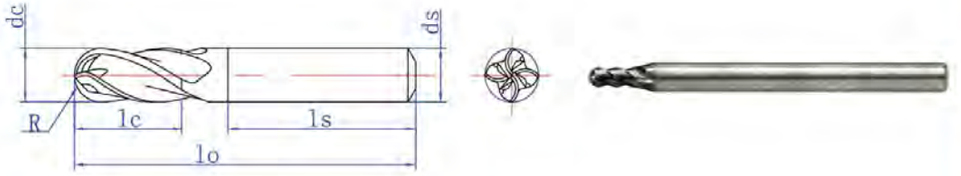
单位：mm

经济型订货号 Economical Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
ST 系列 (涂层) ST Series（Coating）	R	lc	ds	lo
BEM40400600ST	2.00	6	6	70
BEM40500500ST	2.50	5	6	60
BEM40500800ST	2.50	8	6	80
BEM40600600ST	3.00	6	6	60
BEM40600900ST	3.00	9	6	80
BEM40700800ST	3.50	8	8	80
BEM40701200ST	3.50	12	8	90
BEM40800800ST	4.00	8	8	80
BEM40801200ST	4.00	12	8	90
BEM41001000ST	5.00	10	10	80
BEM41001500ST	5.00	15	10	100
BEM41201200ST	6.00	12	12	80
BEM41201800ST	6.00	18	12	110
BEM41601600ST	8.00	16	16	80
BEM41602400ST	8.00	24	16	120
BEM42002000ST	10.00	20	20	100
BEM42003000ST	10.00	30	20	140
BEM42502500ST	12.50	25	25	100
BEM42504000ST	12.50	40	25	150
BEM43203200ST	16.00	32	32	105
BEM43204800ST	16.00	48	32	160

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material												
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
BEM4-ST	◎	◎	◎	◎	◎				○		○		○	

● BEM 整体硬质合金四刃球头铣刀 -- 基准型
BEM Solid Carbide Ball End Mill With Four Cutting Edges -- Basic Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02，dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、R0.5~R3，R角公差为±0.005，R4~R6，R角公差为±0.007，R7~R16，R角公差为±0.01。
5、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5、Helix angle 35°.

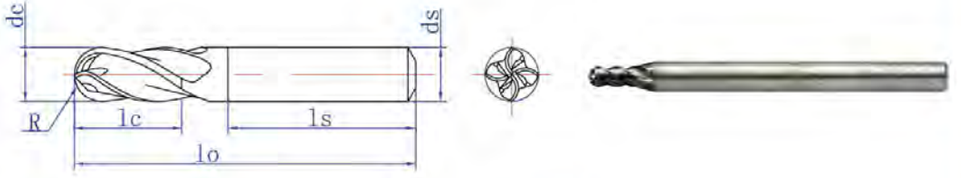
单位：mm

基准型订货号 Basic Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
STA 系列 (涂层) STA Series（Coating）	R	lc	ds	lo
BEM40400600STA	2.00	6	6	70
BEM40500500STA	2.50	5	6	60
BEM40500800STA	2.50	8	6	80
BEM40600600STA	3.00	6	6	60
BEM40600900STA	3.00	9	6	80
BEM40700800STA	3.50	8	8	80
BEM40701200STA	3.50	12	8	90
BEM40800800STA	4.00	8	8	80
BEM40801200STA	4.00	12	8	90
BEM41001000STA	5.00	10	10	80
BEM41001500STA	5.00	15	10	100
BEM41201200STA	6.00	12	12	80
BEM41201800STA	6.00	18	12	110
BEM41601600STA	8.00	16	16	80
BEM41602400STA	8.00	24	16	120
BEM42002000STA	10.00	20	20	100
BEM42003000STA	10.00	30	20	140
BEM42502500STA	12.50	25	25	100
BEM42504000STA	12.50	40	25	150
BEM43203200STA	16.00	32	32	105
BEM43204800STA	16.00	48	32	160

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
BEM4-STA	◎	◎	◎	◎	◎	○			◎	○	◎		○	

● BEM 整体硬质合金四刃球头铣刀 -- 高性能型
BEM Solid Carbide Ball End Mill With Four Cutting Edges -- High-performance Type



刀具特点说明：

1. 刀具尺寸按本公司标准制造，接受非标定制。
2. 刃径公差按dc≤φ3 直径公差为0/-0.02，dc＞φ3直径公差为 0/-0.03;
3. 柄部尺寸公差为h6;
4. R0.5~R3，R角公差为±0.005，R4~R6，R角公差为±0.007，R7~R16，R角公差为±0.01。
5. 螺旋角为35度。

Features:

1. All dimension is fixed by our norm and also accept non standard order.
2. Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3. Tolerance of shank h6
4. R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5. Helix angle 35° .

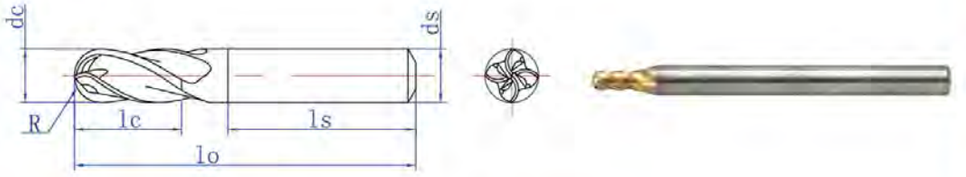
单位：mm

高性能型订货号 High-performance Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HTA 系列 (涂层) HTA Series (Coating)	R	lc	ds	lo
BEM40400600HTA	2.00	6	6	70
BEM40500500HTA	2.50	5	6	60
BEM40500800HTA	2.50	8	6	80
BEM40600600HTA	3.00	6	6	60
BEM40600900HTA	3.00	9	6	80
BEM40700800HTA	3.50	8	8	80
BEM40701200HTA	3.50	12	8	90
BEM40800800HTA	4.00	8	8	80
BEM40801200HTA	4.00	12	8	90
BEM41001000HTA	5.00	10	10	80
BEM41001500HTA	5.00	15	10	100
BEM41201200HTA	6.00	12	12	80
BEM41201800HTA	6.00	18	12	110
BEM41601600HTA	8.00	16	16	80
BEM41602400HTA	8.00	24	16	120
BEM42002000HTA	10.00	20	20	100
BEM42003000HTA	10.00	30	20	140
BEM42502500HTA	12.50	25	25	100
BEM42504000HTA	12.50	40	25	150
BEM43203200HTA	16.00	32	32	105
BEM43204800HTA	16.00	48	32	160

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
BEM4-HTA	◎	◎	◎	◎	◎	◎			◎	◎	◎		○	

● BEM 整体硬质合金四刃球头铣刀 -- 高硬度型
BEM Solid Carbide Ball End Mill With Four Cutting Edges -- High Hardness Processing Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差按dc≤φ3 直径公差为0/-0.02、dc＞φ3直径公差为 0/-0.03;
3、柄部尺寸公差为h6;
4、R0.5~R3，R角公差为±0.005，R4~R6，R角公差为±0.007，R7~R16，R角公差为±0.01。
5、螺旋角为35度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc≤Φ3 0/-0.02, dc＞Φ3 0/-0.03
3、Tolerance of shank h6
4、R0.5 ~ R3, tolerance of R ±0.005, R4 ~ R6, tolerance of R ±0.007, R7 ~ R16, tolerance of R ±0.01
5、Helix angle 35°.

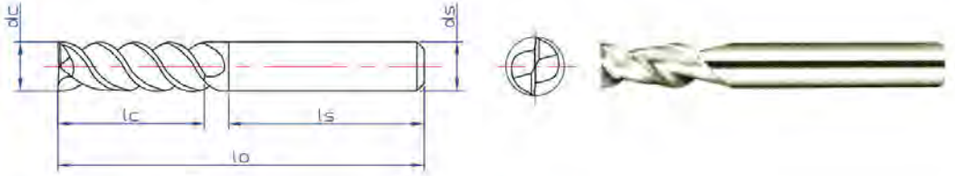
单位：mm

高硬度型订货号 High Hardness Processing Type Order No.	球半径 Spherical Radius	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
HS 系列（涂层） HS Series（Coating）	R	lc	ds	lo
BEM40200300HS	1.00	3	4	50
BEM40300450HS	1.50	4.5	6	60
BEM40400600HS	2.00	6	6	70
BEM40600900HS	3.00	9	6	80
BEM40801200HS	4.00	12	8	90
BEM41001500HS	5.00	15	10	100
BEM41201800HS	6.00	18	12	110

备注 Note：被加工材料选择基准（◎最适合 ○适合） Selection Chart（◎Most Suitable ○Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
BEM4-HS	○	○	○	○	○	◎	◎	○	○	○	○		◎	

● ALM 铝用整体硬质合金两刃平头铣刀 — 经济型
ALM Solid Carbide End Mill With Two Cutting Edges For Aluminium Alloy-- Economical Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 0/-0.02;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为45度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc 0/-0.02
3、Tolerance of shank h6
4、One cutting edge to center with tip angle
5、Helix angle 45°.

单位：mm

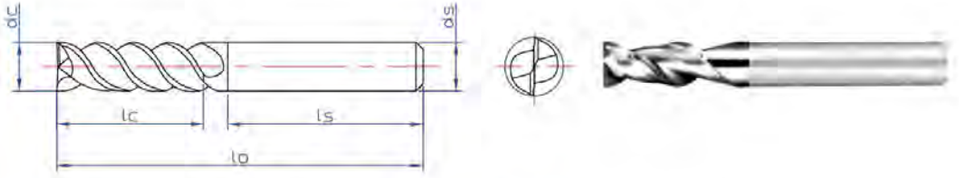
经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用无涂层) SA Series（No Coating for Aluminum）	dc	lc	ds	lo
ALM201002SA	1.0	2	4	45
ALM201003SA	1.0	3	4	45
ALM201004SA	1.0	4	4	45
ALM202004SA	2.0	4	4	45
ALM202006SA	2.0	6	4	45
ALM202008SA	2.0	8	4	45
ALM203006SA	3.0	6	6	45
ALM203009SA	3.0	9	6	45
ALM203012SA	3.0	12	6	50
ALM204008SA	4.0	8	6	50
ALM204010SA	4.0	10	6	50
ALM204012SA	4.0	12	6	50
ALM204016SA	4.0	16	6	60
ALM205010SA	5.0	10	6	50
ALM205015SA	5.0	15	6	50
ALM205020SA	5.0	20	6	60
ALM206012SA	6.0	12	6	50
ALM206015SA	6.0	15	6	50
ALM206018SA	6.0	18	6	60
ALM206024SA	6.0	24	6	60
ALM208016SA	8.0	16	8	60
ALM208020SA	8.0	20	8	60
ALM208024SA	8.0	24	8	80

经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用无涂层) SA Series（No Coating for Aluminum）	dc	lc	ds	lo
ALM208032SA	8.0	32	8	80
ALM210020SA	10.0	20	10	70
ALM210025SA	10.0	25	10	70
ALM210030SA	10.0	30	10	80
ALM210040SA	10.0	40	10	90
ALM212024SA	12.0	24	12	75
ALM212030SA	12.0	30	12	75
ALM212036SA	12.0	36	12	90
ALM212048SA	12.0	48	12	100
ALM216032SA	16.0	32	16	110
ALM216040SA	16.0	40	16	120
ALM216048SA	16.0	48	16	130
ALM216056SA	16.0	56	16	140
ALM220040SA	20.0	40	20	110
ALM220050SA	20.0	50	20	120
ALM220060SA	20.0	60	20	130
ALM220070SA	20.0	70	20	140
ALM225050SA	25.0	50	25	115
ALM225060SA	25.0	60	25	125
ALM225070SA	25.0	70	25	135
ALM225080SA	25.0	80	25	145
ALM232050SA	32.0	50	32	115
ALM232060SA	32.0	60	32	125
ALM232070SA	32.0	70	32	135
ALM232080SA	32.0	80	32	145

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
ALM2-SA												◎	○	◎

● ALM 铝用整体硬质合金两刃平头铣刀 — 高性能型
ALM Solid Carbide End Mill With Two Cutting Edges For Aluminium Alloy-- High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 0/-0.02;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为45度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc 0/-0.02
3、Tolerance of shank h6
4、One cutting edge to center with tip angle
5、Helix angle 45°.

单位：mm

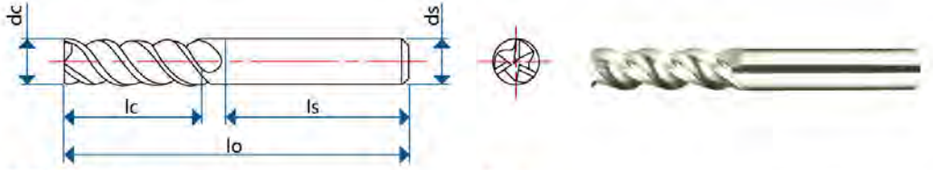
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SD系列 (铝用DLC涂层) SD Series（DLC Coating for Aluminum）	dc	lc	ds	lo
ALM201002SD	1.0	2	4	45
ALM201003SD	1.0	3	4	45
ALM201004SD	1.0	4	4	45
ALM202004SD	2.0	4	4	45
ALM202006SD	2.0	6	4	45
ALM202008SD	2.0	8	4	45
ALM203006SD	3.0	6	6	45
ALM203009SD	3.0	9	6	45
ALM203012SD	3.0	12	6	50
ALM204008SD	4.0	8	6	50
ALM204010SD	4.0	10	6	50
ALM204012SD	4.0	12	6	50
ALM204016SD	4.0	16	6	60
ALM205010SD	5.0	10	6	50
ALM205015SD	5.0	15	6	50
ALM205020SD	5.0	20	6	60
ALM206012SD	6.0	12	6	50
ALM206015SD	6.0	15	6	50
ALM206018SD	6.0	18	6	60
ALM206024SD	6.0	24	6	60
ALM208016SD	8.0	16	8	60
ALM208020SD	8.0	20	8	60
ALM208024SD	8.0	24	8	80

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SD系列 (铝用DLC涂层) SD Series（DLC Coating for Aluminum）	dc	lc	ds	lo
ALM208032SD	8.0	32	8	80
ALM210020SD	10.0	20	10	70
ALM210025SD	10.0	25	10	70
ALM210030SD	10.0	30	10	80
ALM210040SD	10.0	40	10	90
ALM212024SD	12.0	24	12	75
ALM212030SD	12.0	30	12	75
ALM212036SD	12.0	36	12	90
ALM212048SD	12.0	48	12	100
ALM216032SD	16.0	32	16	110
ALM216040SD	16.0	40	16	120
ALM216048SD	16.0	48	16	130
ALM216056SD	16.0	56	16	140
ALM220040SD	20.0	40	20	110
ALM220050SD	20.0	50	20	120
ALM220060SD	20.0	60	20	130
ALM220070SD	20.0	70	20	140
ALM225050SD	25.0	50	25	115
ALM225060SD	25.0	60	25	125
ALM225070SD	25.0	70	25	135
ALM225080SD	25.0	80	25	145
ALM232050SD	32.0	50	32	115
ALM232060SD	32.0	60	32	125
ALM232070SD	32.0	70	32	135
ALM232080SD	32.0	80	32	145

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
ALM2-SD												◎	◎	◎

● ALM 铝用整体硬质合金三刃平头铣刀 — 经济型
ALM Solid Carbide End Mill With Three Cutting Edges For Aluminium Alloy-- Economical Type



刀具特点说明：

1、刀具尺寸按本公司标准制造、接受非标定制。
2、刃径公差为 0/-0.02;
3、柄部尺寸公差为h6;
4、底刃均为一刃过中心，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
C=0－0.05;
6、螺旋角为45度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc 0/-0.02
3、 Tolerance of shank h6
4、 One cutting edge to center with tip angle
5、 Dimension of chamfer on the corner C value:
C=0－0.05;
6、 Helix angle 45°。

单位: mm

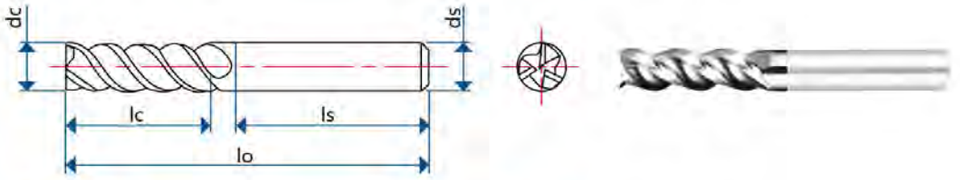
经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用无涂层) SA Series（No Coating for Aluminum）	dc	lc	ds	lo
ALM303006SA	3.0	6	6	45
ALM303009SA	3.0	9	6	45
ALM303012SA	3.0	12	6	50
ALM304008SA	4.0	8	6	50
ALM304010SA	4.0	10	6	50
ALM304012SA	4.0	12	6	50
ALM304016SA	4.0	16	6	60
ALM305010SA	5.0	10	6	50
ALM305015SA	5.0	15	6	50
ALM305020SA	5.0	20	6	60
ALM306012SA	6.0	12	6	50
ALM306015SA	6.0	15	6	50
ALM306018SA	6.0	18	6	60
ALM306024SA	6.0	24	6	60
ALM308016SA	8.0	16	8	60
ALM308020SA	8.0	20	8	60
ALM308024SA	8.0	24	8	80
ALM308024SA	8.0	24	8	80
ALM308032SA	8.0	32	8	80
ALM310020SA	10.0	20	10	70
ALM310025SA	10.0	25	10	70
ALM310030SA	10.0	30	10	80
ALM310040SA	10.0	40	10	90

经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用无涂层) SA Series（No Coating for Aluminum）	dc	lc	ds	lo
ALM312024SA	12.0	24	12	75
ALM312030SA	12.0	30	12	75
ALM312036SA	12.0	36	12	90
ALM312048SA	12.0	48	12	100
ALM316032SA	16.0	32	16	110
ALM316040SA	16.0	40	16	120
ALM316048SA	16.0	48	16	130
ALM316056SA	16.0	56	16	140
ALM320040SA	20.0	40	20	110
ALM320050SA	20.0	50	20	120
ALM320060SA	20.0	60	20	130
ALM320070SA	20.0	70	20	140
ALM325050SA	25.0	50	25	115
ALM325060SA	25.0	60	25	125
ALM325070SA	25.0	70	25	135
ALM325080SA	25.0	80	25	145
ALM332050SA	32.0	50	32	115
ALM332060SA	32.0	60	32	125
ALM332070SA	32.0	70	32	135
ALM332080SA	32.0	80	32	145

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	> HRC60						
ALM3-SA												◎	○	◎

● ALM 铝用整体硬质合金三刃平头铣刀 — 高性能型
ALM Solid Carbide End Mill With Three Cutting Edges For Aluminium Alloy-- High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 0/-0.02;
3、柄部尺寸公差为h6;
4、底刃均为一刃过中心，有刃倾角;
5、刃尖角为倒角的方式，刀尖角C值如下:
C=0－0.05;
6、螺旋角为45度。

Features:

1、 All dimension is fixed by our norm and also accept non standard order.
2、 Tolerance of dc 0/-0.02
3、 Tolerance of shank h6
4、 One cutting edge to center with tip angle
5、 Dimension of chamfer on the corner C value:
C=0 ~ 0.05;
6、 Helix angle 45° .

单位：mm

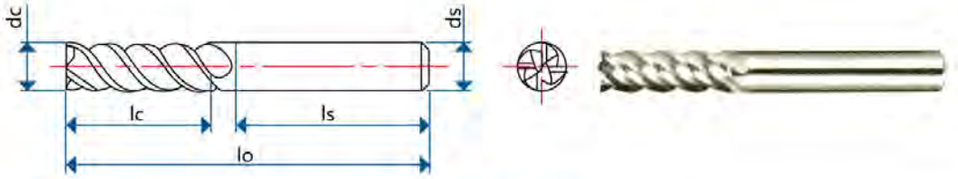
高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SD系列 (铝用DLC涂层) SD Series（DLC Coating for Aluminum）	dc	lc	ds	lo
ALM303006SD	3.0	6	6	45
ALM303009SD	3.0	9	6	45
ALM303012SD	3.0	12	6	50
ALM304008SD	4.0	8	6	50
ALM304010SD	4.0	10	6	50
ALM304012SD	4.0	12	6	50
ALM304016SD	4.0	16	6	60
ALM305010SD	5.0	10	6	50
ALM305015SD	5.0	15	6	50
ALM305020SD	5.0	20	6	60
ALM306012SD	6.0	12	6	50
ALM306015SD	6.0	15	6	50
ALM306018SD	6.0	18	6	60
ALM306024SD	6.0	24	6	60
ALM308016SD	8.0	16	8	60
ALM308020SD	8.0	20	8	60
ALM308024SD	8.0	24	8	80
ALM308024SD	8.0	24	8	80
ALM308032SD	8.0	32	8	80
ALM310020SD	10.0	20	10	70
ALM310025SD	10.0	25	10	70
ALM310030SD	10.0	30	10	80

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SD系列 (铝用DLC涂层) SD Series（DLC Coating for Aluminum）	dc	lc	ds	lo
ALM310040SD	10.0	40	10	90
ALM312024SD	12.0	24	12	75
ALM312030SD	12.0	30	12	75
ALM312036SD	12.0	36	12	90
ALM312048SD	12.0	48	12	100
ALM316032SD	16.0	32	16	110
ALM316040SD	16.0	40	16	120
ALM316048SD	16.0	48	16	130
ALM316056SD	16.0	56	16	140
ALM320040SD	20.0	40	20	110
ALM320050SD	20.0	50	20	120
ALM320060SD	20.0	60	20	130
ALM320070SD	20.0	70	20	140
ALM325050SD	25.0	50	25	115
ALM325060SD	25.0	60	25	125
ALM325070SD	25.0	70	25	135
ALM325080SD	25.0	80	25	145
ALM332050SD	32.0	50	32	115
ALM332060SD	32.0	60	32	125
ALM332070SD	32.0	70	32	135
ALM332080SD	32.0	80	32	145

备注 Note：被加工材料选择基准(◎ 最适合 ○ 适合)　Selection Chart(◎ Most Suitable ○ Suitable)

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢，高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金，耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30 -45	HRC45 -55	HRC55 -60	>HRC60						
ALM3-SD												◎	◎	◎

● ALM 铝用整体硬质合金四刃平头铣刀 — 经济型
ALM Solid Carbide End Mill With Four Cutting Edges For Aluminium Alloy-- Economical Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 0/-0.02;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为45度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc 0/-0.02
3、Tolerance of shank h6
4、One cutting edge to center with tip angle
5、Helix angle 45°.

单位：mm

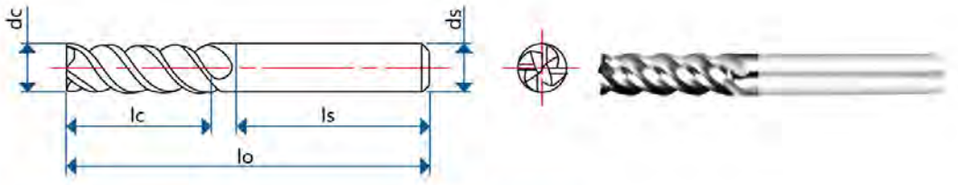
经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用无涂层) SA Series（No Coating for Aluminum）	dc	lc	ds	lo
ALM404008SA	4.0	8	6	50
ALM404010SA	4.0	10	6	50
ALM404012SA	4.0	12	6	50
ALM404016SA	4.0	16	6	60
ALM405010SA	5.0	10	6	50
ALM405015SA	5.0	15	6	50
ALM405020SA	5.0	20	6	60
ALM406012SA	6.0	12	6	50
ALM406015SA	6.0	15	6	50
ALM406018SA	6.0	18	6	60
ALM406024SA	6.0	24	6	60
ALM408016SA	8.0	16	8	60
ALM408020SA	8.0	20	8	60
ALM408024SA	8.0	24	8	80
ALM408032SA	8.0	32	8	80
ALM410020SA	10.0	20	10	70
ALM410025SA	10.0	25	10	70
ALM410030SA	10.0	30	10	80
ALM410040SA	10.0	40	10	90
ALM412024SA	12.0	24	12	75
ALM412030SA	12.0	30	12	75
ALM412036SA	12.0	36	12	90
ALM412048SA	12.0	48	12	100

经济型订货号 Economical Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用无涂层) SA Series（No Coating for Aluminum）	dc	lc	ds	lo
ALM416032SA	16.0	32	16	110
ALM416040SA	16.0	40	16	120
ALM416048SA	16.0	48	16	130
ALM416056SA	16.0	56	16	140
ALM420040SA	20.0	40	20	110
ALM420050SA	20.0	50	20	120
ALM420060SA	20.0	60	20	130
ALM420070SA	20.0	70	20	140
ALM425050SA	25.0	50	25	115
ALM425060SA	25.0	60	25	125
ALM425070SA	25.0	70	25	135
ALM425080SA	25.0	80	25	145
ALM432050SA	32.0	50	32	115
ALM432060SA	32.0	60	32	125
ALM432070SA	32.0	70	32	135
ALM432080SA	32.0	80	32	145

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金、耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
ALM4-SA												◎	○	◎

● ALM 铝用整体硬质合金四刃平头铣刀 — 高性能型
ALM Solid Carbide End Mill With Four Cutting Edges For Aluminium Alloy-- High-performance Type



刀具特点说明：

1、刀具尺寸按本公司标准制造，接受非标定制。
2、刃径公差为 0/-0.02;
3、柄部尺寸公差为h6;
4、底刃均为对称刃设计，有刃倾角;
5、螺旋角为45度。

Features:

1、All dimension is fixed by our norm and also accept non standard order.
2、Tolerance of dc 0/-0.02
3、Tolerance of shank h6
4、One cutting edge to center with tip angle
5、Helix angle 45°.

单位：mm

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用DLC涂层) SD Series（DLC Coating for Aluminum）	dc	lc	ds	lo
ALM404008SD	4.0	8	6	50
ALM404010SD	4.0	10	6	50
ALM404012SD	4.0	12	6	50
ALM404016SD	4.0	16	6	60
ALM405010SD	5.0	10	6	50
ALM405015SD	5.0	15	6	50
ALM405020SD	5.0	20	6	60
ALM406012SD	6.0	12	6	50
ALM406015SD	6.0	15	6	50
ALM406018SD	6.0	18	6	60
ALM406024SD	6.0	24	6	60
ALM408016SD	8.0	16	8	60
ALM408020SD	8.0	20	8	60
ALM408024SD	8.0	24	8	80
ALM408032SD	8.0	32	8	80
ALM410020SD	10.0	20	10	70
ALM410025SD	10.0	25	10	70
ALM410030SD	10.0	30	10	80
ALM410040SD	10.0	40	10	90
ALM412024SD	12.0	24	12	75
ALM412030SD	12.0	30	12	75
ALM412036SD	12.0	36	12	90
ALM412048SD	12.0	48	12	100

高性能型订货号 High-performance Type Order No.	刃径 Cutting Edge Diameter	刃长 Cutting Edge Length	柄径 Shank Diameter	总长 Overall Length
SA系列 (铝用DLC涂层) SD Series（DLC Coating for Aluminum）	dc	lc	ds	lo
ALM416032SD	16.0	32	16	110
ALM416040SD	16.0	40	16	120
ALM416048SD	16.0	48	16	130
ALM416056SD	16.0	56	16	140
ALM420040SD	20.0	40	20	110
ALM420050SD	20.0	50	20	120
ALM420060SD	20.0	60	20	130
ALM420070SD	20.0	70	20	140
ALM425050SD	25.0	50	25	115
ALM425060SD	25.0	60	25	125
ALM425070SD	25.0	70	25	135
ALM425080SD	25.0	80	25	145
ALM432050SD	32.0	50	32	115
ALM432060SD	32.0	60	32	125
ALM432070SD	32.0	70	32	135
ALM432080SD	32.0	80	32	145

备注 Note：被加工材料选择基准（◎ 最适合 ○ 适合） Selection Chart（◎ Most Suitable ○ Suitable）

系列 Series	被切削材料 Work Material													
	结构钢 Structural Steel	碳素钢 Carbon Steel	合金钢 Alloy Steel	预硬化钢 Pre-Hardened Steel	调质钢、模具钢、高硬度钢 Hardened Steel				不锈钢 Stainless Steel	钛合金，耐热合金 Titanium Alloys、Nickel Alloys	铸铁 Cast Irons	铝合金 Aluminum Alloys	铜合金 Copper Alloys	树脂 Plastic
					HRC30-45	HRC45-55	HRC55-60	>HRC60						
ALM4-SD												◎	◎	◎