

NO BEST, ONLY MORE!

没有最好，只有更好！



湖南摩尔硬质合金有限公司
HUNAN MORE CARBIDE CO., LTD

- 地址: 湖南省株洲市石峰区田心高科园 • 电话: 0731-22870968 • 传真: 0731-22500297 • 邮编: 412001
- Address: Tin Sum National High-tech Industrial Park, Shifeng District, Zhuzhou, Hunan, China
- TEL: +86-731-22870968 • FAX: +86-731-22500297 • Post Code: 412001

CUTTING TOOL CATALOGUE

切削刀具综合样本

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切削刀具综合样本



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D

标准铣刀

Standard Milling Cutter



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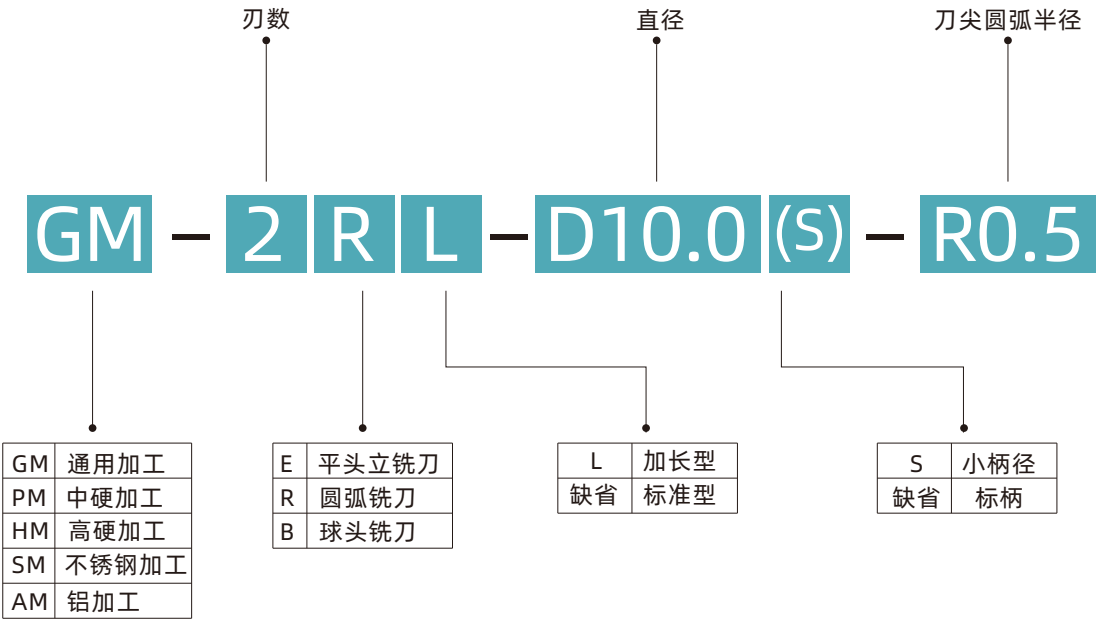
标准铣刀

Standard Milling Cutter

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整硬标准立铣刀命名规则

Standard End Mills Naming Rules



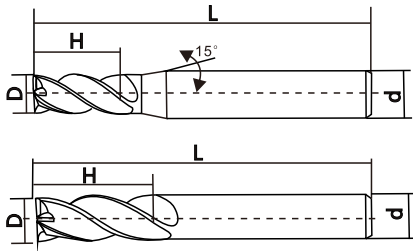
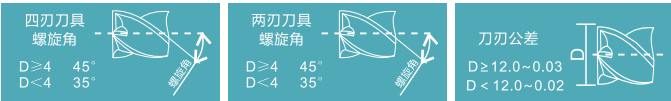
整硬标准立铣刀产品特点

Features of hardened standard end mills

产品系列	产品图例	产品描述
GM		- 应用范围: 刀具可满足普通钢到预硬钢及铸铁的高效切削加工 - 刀具结构: 锋利的切削刃和与之匹配的设计结构, 使切削更顺畅, 刀具寿命更长 - 切削方式: 刀具能够实现高效率的开槽和粗加工方式, 同时能进行高表面质量的精加工 - 刃部涂层: 刀具刃部均作高性能复合涂层处理, 有效提高刀具切削性能
PM		- 应用范围: 刀具可满足淬火钢, 高硬度钢的切削加工 - 刀具结构: 针对高硬度的被加工材料, 设计高强度的结构和特殊刃口的处理, 使刀具具有优越的加工性能 - 切削方式: 刀具能够实现多用途的平面铣及侧铣加工, 在粗、精加工之间完美转换 - 刃部涂层: 刀具刃部均作高性能复合涂层处理, 有效提高刀具切削性能
SM		- 应用范围: 刀具能满足不锈钢、合金类难加工材质的切削加工 - 刀具结构: 刀具的不等螺旋和不等齿距结构设计, 减少加工震颤, 增强型周刃结合锋利刃口保证切削轻快和抗冲击性, 提高刀具寿命 - 切削方式: 刀具可在其有效切削范围内进行侧铣、端铣、槽铣的粗、精加工 - 刃部涂层: 刀具刃部选用低摩擦系数、抗红硬性的复合涂层处理, 满足难加工材料切削
HM		- 应用范围: 刀具可满足HRC50~HRC65高硬度淬硬钢、模具钢的切削加工 - 刀具结构: 针对高硬度材料切削特点, 刀具螺旋角、刃口几何角度合理匹配, 同时结合刃口及刀尖处理完美体现刀具切削性能 - 切削方式: 刀具可在中、高切削速度下完成零件半精、精加工, 在铣削过程中具有稳定性好、震动小、切削力小、抗崩缺性佳的特点 - 刃部涂层: 刀具采用最新针对高硬度模具钢开发的复合纳米涂层, 该涂层具有高硬度、高红硬性和抗冲击的特点、耐磨性和耐高温性优异。
AM		- 应用范围: 刀具能满足铸造铝合金、锻造铝合金及航空类铝合金的切削加工 - 刀具结构: 锋利的切削刃口结合大螺旋角设计, 切削轻快, 减少加工震颤; 端刃及周刃均采用圆滑的过渡轮廓面, 排屑更流畅 - 刃口特点: 刀具刃口进行微缺控制, 保证使用寿命和稳定性; 前刀面精抛光处理, 减小铝屑摩擦力, 排屑更流畅, 满足高转速和大进给切削 - 切削方式: 刀具可在其有效切削范围内进行侧、端铣、槽铣的粗、精加工

直柄平头立铣刀—GM

Straight shank flat end milling



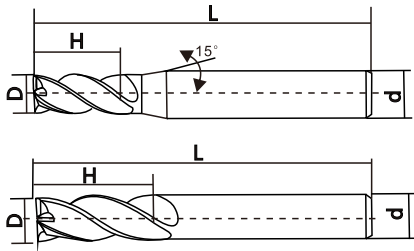
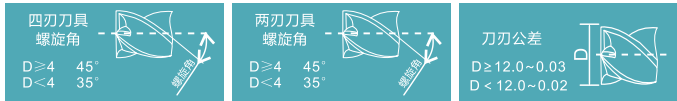
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions				
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d(h6)	D	
GM-4E-D 1.0S •	GM-2E-D 1.0S	4	2	50	3	4	1	
GM-4E-D 1.5S	GM-2E-D 1.5S	4	2	50	4	4	1.5	
GM-4E-D 2.0S •	GM-2E-D 2.0S	4	2	50	6	4	2	
GM-4E-D 2.5S	GM-2E-D 2.5S	4	2	50	8	4	2.5	
GM-4E-D 3.0S •	GM-2E-D 3.0S	4	2	50	8	4	3	
GM-4E-D 3.5S	GM-2E-D 3.5S	4	2	50	10	4	3.5	
GM-4E-D 4.0S •	GM-2E-D 4.0S •	4	2	50	11	4	4	
GM-4E-D 4.0S	GM-2E-D 4.0S	4	2	75	15	4	4	
GM-4E-D 1.0	GM-2E-D 1.0	4	2	50	3	6	1	
GM-4E-D 1.5	GM-2E-D 1.5	4	2	50	4	6	1.5	
GM-4E-D 2.0	GM-2E-D 2.0S	4	2	50	6	6	2	
GM-4E-D 2.5	GM-2E-D 2.5	4	2	50	8	6	2.5	
GM-4E-D 3.0	GM-2E-D 3.0	4	2	50	8	6	3	
GM-4E-D 3.5	GM-2E-D 3.5	4	2	50	10	6	3.5	
GM-4E-D 4.0S	GM-2E-D 4.0S	4	2	50	11	6	4	
GM-4E-D 4.0	GM-2E-D 4.0	4	2	75	15	6	4	
GM-4E-D 5.0S	GM-2E-D 5.0S	4	2	50	13	6	5	
GM-4E-D 5.0S	GM-2E-D 5.0S	4	2	60	20	6	5	
GM-4E-D 6.0 •	GM-2E-D 6.0 •	4	2	50	16	6	6	
GM-4E-D 6.0	GM-2E-D 6.0	4	2	75	20	6	6	
GM-4E-D 6.0	GM-2E-D 6.0	4	2	100	20	6	6	
GM-4E-D 8.0	GM-2E-D 8.0	4	2	60	20	8	8	
GM-4E-D 8.0 •	GM-2E-D 8.0 •	4	2	75	25	8	8	

• 为常备库存。此外，其它规格也可另行订制。 The "•"specifications are standing stock. In addition, other specifications can be customized.

GM 系列适合 GM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar' s mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC						
	○	○	○	●		●	○			

直柄平头立铣刀—GM

Straight shank flat end milling



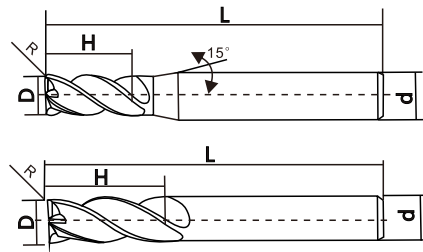
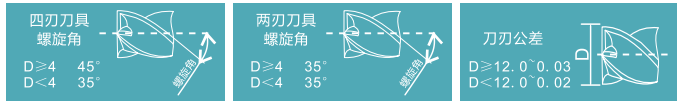
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d(h6)	D
GM-4EL-D 8.0	GM-2EL-D 8.0	4	2	100	25	8	8
GM-4ED 10.0 •	GM-2E-D 10.0 •	4	2	75	25	10	10
GM-4EL-D 10.0	GM-2EL-D 10.0	4	2	100	30	10	10
GM-4E-D 12.0 •	GM-2E-D 12.0 •	4	2	75	30	12	12
GM-4EL-D 12.0	GM-2EL-D 12.0	4	2	100	35	12	12
GM-4E-D 14.0	GM-2E-D 14.0	4	2	75	32	14	14
GM-4EL-D 14.0	GM-2EL-D 14.0	4	2	100	40	14	14
GM-4E-D 16.0	GM-2E-D 16.0	4	2	100	45	16	16
GM-4EL-D 16.0	GM-2EL-D 16.0	4	2	150	50	16	16
GM-4E-D 18.0	GM-2E-D 18.0	4	2	100	45	18	18
GM-4EL-D 18.0	GM-2EL-D 18.0	4	2	150	55	18	18
GM-4E-D 20.0	GM-2E-D 20.0	4	2	100	45	20	20
GM-4EL-D 20.0	GM-2EL-D 20.0	4	2	150	55	20	20

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GM 系列适合 GM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar' s mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC						
	○	○	○	●		●	○			

直柄R铣刀—GM

Straight shank R end milling



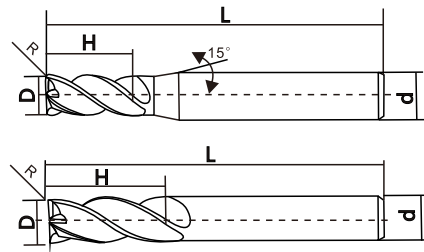
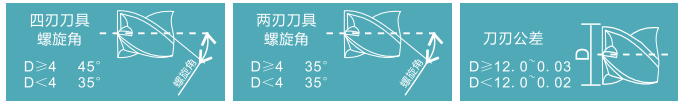
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
GM--4R--D 1.0S-R 0.2	GM-2R--D 1.0S-R 0.2	4	2	50	3	4	0.2	1	
GM--4R--D 2.0S-R 0.2	GM-2R--D 2.0S-R 0.2	4	2	50	6	4	0.2	2	
GM--4R--D 3.0S-R 0.2	GM-2R--D 3.0S-R 0.2	4	2	50	8	4	0.2	3	
GM--4R--D 3.0S-R 0.5	GM-2R--D 3.0S-R 0.5	4	2	50	8	4	0.5	3	
GM--4R--D 4.0-R 0.3	GM-2R--D 4.0-R 0.3	4	2	50	11	4	0.3	4	
GM--4R--D 4.0-R 0.5	GM-2R--D 4.0-R 0.5	4	2	50	11	4	0.5	4	
GM--4R--D 1.0-R 0.2	GM-2R--D 1.0-R 0.2	4	2	50	3	6	0.2	1	
GM--4R--D 2.0-R 0.2	GM-2R--D 2.0-R 0.2	4	2	50	6	6	0.2	2	
GM--4R--D 3.0-R 0.2	GM-2R--D 3.0-R 0.2	4	2	50	8	6	0.2	3	
GM--4R--D 4.0S-R 0.3	GM-2R--D 4.0S-R 0.3	4	2	50	11	6	0.3	4	
GM--4R--D 4.0S-R 0.5	GM-2R--D 4.0S-R 0.5	4	2	50	11	6	0.5	4	
GM--4R--D 5.0-R 0.5	GM-2R--D 5.0-R 0.5	4	2	50	13	6	0.5	5	
GM--4R--D 5.0-R 1.0	GM-2R--D 5.0-R 1.0	4	2	50	13	6	1.0	5	
GM--4R--D 6.0-R 0.3	GM-2R--D 6.0-R 0.3	4	2	50	16	6	0.3	6	
GM--4R--D 6.0-R 0.5	GM-2R--D 6.0-R 0.5	4	2	50	16	6	0.5	6	
GM--4R--D 6.0-R 1.0	GM-2R--D 6.0-R 1.0	4	2	50	16	6	1.0	6	
GM--4RL-D 6.0-R 0.5	GM-2RL-D 6.0-R 0.5	4	2	75	20	6	0.5	6	
GM--4RL-D 6.0-R 1.0	GM-2RL-D 6.0-R 1.0	4	2	75	20	6	1.0	6	
GM--4R--D 8.0-R 0.3	GM-2R--D 8.0-R 0.3	4	2	60	20	8	0.3	8	
GM--4R--D 8.0-R 0.5	GM-2R--D 8.0-R 0.5	4	2	60	20	8	0.5	8	
GM--4R--D 8.0-R 1.0	GM-2R--D 8.0-R 1.0	4	2	60	20	8	1.0	8	
GM--4RZ-D 8.0-R 0.5	GM-2R-D 8.0-R 0.5	4	2	75	25	8	0.5	8	
GM--4RZ-D 8.0-R 1.0	GM-2RZ-D 8.0-R 1.0	4	2	75	25	8	1.0	8	

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

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	● 非常合适 fit as a pudding for a friar' s mouth					● 适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	●	●	~40HRC	~50HRC		●	●			

直柄R铣刀—GM

Straight shank R end milling



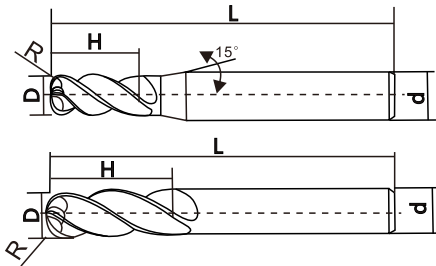
订货号 Order number		齿数Z The number of teeth		基本尺寸 (m m) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D (h9)	
GM--4RL-D 8.0-R 0.5	GM-2RL-D 8.0-R 0.5	4	2	100	25	8	0.5	8	
GM--4RL-D 8.0-R 1.0	GM-2RL-D 8.0-R 1.0	4	2	100	25	8	1.0	8	
GM--4R--D 10.0-R 0.5	GM-2R-D 10.0-R 0.5	4	2	75	25	10	0.5	10	
GM--4R--D 10.0-R 1.0	GM-2R-D 10.0-R 1.0	4	2	75	25	10	1.0	10	
GM--4R--D 10.0-R 2.0	GM-2R-D 10.0-R 2.0	4	2	75	25	10	2.0	10	
GM--4RL-D 10.0-R 0.5	GM-2RL-D 10.0-R 0.5	4	2	100	30	10	0.5	10	
GM--4RL-D 10.0-R 1.0	GM-2RL-D 10.0-R 1.0	4	2	100	30	10	1.0	10	
GM--4RL-D 10.0-R 2.0	GM-2RL-D 10.0-R 2.0	4	2	100	30	10	2.0	10	
GM--4R--D 12.0-R 0.5	GM-2R-D 12.0-R 0.5	4	2	75	32	12	0.5	12	
GM--4R--D 12.0-R 1.0	GM-2R-D 12.0-R 1.0	4	2	75	32	12	1.0	12	
GM--4R--D 14.0-R 0.5	GM-2R-D 14.0-R 0.5	4	2	75	35	14	0.5	14	
GM--4R--D 14.0-R 1.0	GM-2R-D 14.0-R 1.0	4	2	75	35	14	1.0	14	
GM--4R--D 16.0-R 1.0	GM-2R-D 16.0-R 1.0	4	2	100	45	16	1.0	16	
GM--4R--D 16.0-R 2.0	GM-2R-D 16.0-R 2.0	4	2	100	45	16	2.0	16	
GM--4R--D 16.0-R 3.0	GM-2R-D 16.0-R 3.0	4	2	100	45	16	3.0	16	
GM--4RL-D 16.0-R 1.0	GM-2RL-D 16.0-R 1.0	4	2	150	50	16	1.0	16	
GM--4RL-D 16.0-R 2.0	GM-2RL-D 16.0-R 2.0	4	2	150	50	16	2.0	16	
GM--4RL-D 16.0-R 3.0	GM-2RL-D 16.0-R 3.0	4	2	150	50	16	3.0	16	
GM--4R--D 18.0-R 1.0	GM-2R-D 18.0-R 1.0	4	2	100	45	18	1.0	18	
GM--4R--D 18.0-R 2.0	GM-2R-D 18.0-R 2.0	4	2	100	45	18	2.0	18	
GM--4R--D 20.0-R 1.0	GM-2R-D 20.0-R 1.0	4	2	100	45	20	1.0	20	
GM--4R--D 20.0-R 2.0	GM-2R-D 20.0-R 2.0	4	2	100	45	20	2.0	20	
GM--4R--D 20.0-R 3.0	GM-2R-D 20.0-R 3.0	4	2	100	45	20	3.0	20	
GM--4RL-D 20.0-R 1.0	GM-2RL-D 20.0-R 1.0	4	2	150	55	20	1.0	20	
GM--4RL-D 20.0-R 2.0	GM-2RL-D 20.0-R 2.0	4	2	150	55	20	2.0	20	
GM--4RL-D 20.0-R 3.0	GM-2RL-D 20.0-R 3.0	4	2	150	55	20	3.0	20	

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

GM 系列适合 GM Suitable series	被加工材料适用表 Test sheet for processed material									
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	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	●	●	~40HRC	~50HRC		●	●			

直柄球头铣刀—GM

Straight shank ball end milling



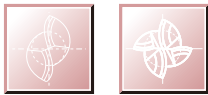
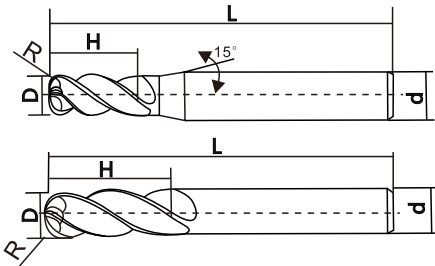
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
GM-4B-R 0.5S	GM-2B-R 0.5S	4	2	50	2	4	0.5	1	
GM-4B-R 0.75S	GM-2B-R 0.75S	4	2	50	3	4	1.75	1.5	
GM-4B-R 1.0S	GM-2B-R 1.0S	4	2	50	4	4	1.0	2	
GM-4B-R 1.25S	GM-2B-R 1.25S	4	2	50	5	4	1.25	2.5	
GM-4B-R 1.5S	GM-2B-R 1.5S	4	2	50	6	4	1.5	3	
GM-4B-R 2.0S	GM-2B-R 2.0S	4	2	50	8	4	2.0	4	
GM-4B-R 1.75S	GM-2B-R 1.75S	4	2	50	7	4	1.75	3.5	
GM-4B-R 0.5	GM-2B-R 0.5	4	2	50	2	6	0.5	1	
GM-4B-R 0.75	GM-2B-R 0.75	4	2	50	3	6	1.75	1.5	
GM-4B-R 1.0	GM-2B-R 1.0	4	2	50	4	6	1.0	2	
GM-4B-R 1.25S	GM-2B-R 1.25	4	2	50	5	6	1.25	2.5	
GM-4B-R 1.5	GM-2B-R 1.5	4	2	50	6	6	1.5	3	
GM-4B-R 1.75	GM-2B-R 1.75	4	2	50	7	6	1.75	3.5	
GM-4B-R 2.0	GM-2B-R 2.0	4	2	50	8	6	2.0	4	
GM-4B-R 2.5	GM-2B-R 2.5	4	2	50	10	6	2.5	5	
GM-4B-R 3.0	GM-2B-R 3.0	4	2	50	12	6	3.0	6	
GM-4BL-R 3.0	GM-2BL-R 3.0	4	2	75	12	6	3.0	6	
GM-4B-R 4.0	GM-2B-R 4.0	4	2	60	16	8	4.0	8	
GM-4BZ-R 4.0	GM-2BZ-R 4.0	4	2	75	16	8	4.0	8	
GM-4BL-R 4.0	GM-2BL-R 4.0	4	2	100	16	8	4.0	8	
GM-4B-R 5.0	GM-2B-R 5.0	4	2	75	20	10	5.0	10	
GM-4BL-R 5.0	GM-2BL-R 5.0	4	2	100	20	10	5.0	10	
GM-4B-R 6.0	GM-2B-R 6.0	4	2	75	24	12	6.0	12	
GM-4BL-R 6.0	GM-2BL-R 6.0	4	2	100	24	12	6.0	12	

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

GM 系列适合 GM Suitable series	被加工材料适用表 Test sheet for processed material									
	☺ 非常合适 fit as a pudding for a friar's mouth						☺ 适合 appropriate			
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel		不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
			~40HRC	~50HRC						
	☺	☺	☺	☺	☺	☺				

直柄球头铣刀—GM

Straight shank ball end milling



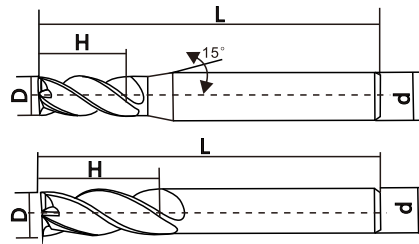
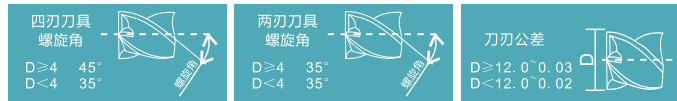
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
GM-4B-R 7.0	GM-2B-R 7.0	4	2	75	28	14	7.0	14	
GM-4BL-R 7.0	GM-2BL-R 7.0	4	2	100	28	14	7.0	14	
GM-4B-R 8.0	GM-2B-R 8.0	4	2	100	32	16	8.0	16	
GM-4BL-R 8.0	GM-2BL-R 8.0	4	2	150	32	16	8.0	16	
GM-4B-R 9.0	GM-2B-R 9.0	4	2	100	36	18	9.0	18	
GM-4BL-R 9.0	GM-2BL-R 9.0	4	2	150	36	18	9.0	18	
GM-4B-R 10.0	GM-2B-R 10.0	4	2	100	40	20	10.0	20	
GM-4BL-R 10.0	GM-2BL-R 10.0	4	2	150	40	20	10.0	20	

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

GM 系列适合 GM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar's mouth						适合 appropriate			
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel		不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
			~40HRC	~50HRC						
	🟡	🟡	🟡	🟡	🟡	🟡				

直柄平头立铣刀—PM

Straight shank flat end milling



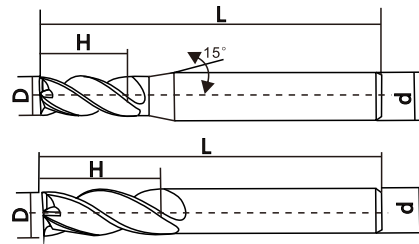
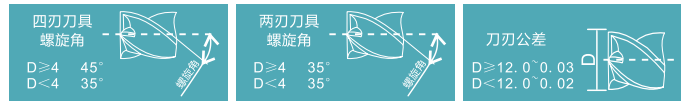
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	D
PM-4E-D 1.0S ●	PM-2E-D 1.0S	4	2	50	3	4	1
PM-4E-D 1.5S	PM-2E-D 1.5S	4	2	50	4	4	1.5
PM-4E-D 2.0S ●	PM-2E-D 2.0S	4	2	50	6	4	2
PM-4E-D 2.5S	PM-2E-D 2.5S	4	2	50	8	4	2.5
PM-4E-D 3.0S	PM-2E-D 3.0S	4	2	50	8	4	3
PM-4E-D 3.5S	PM-2E-D 3.5S	4	2	50	10	4	3.5
PM-4E-D 4.0S ●	PM-2E-D 4.0S ●	4	2	50	11	4	4
PM-4EL-D 4.0S	PM-3123L-D 4.0S	4	2	75	15	4	4
PM-4E-D 1.0	PM-2E-D 1.0	4	2	50	3	6	1
PM-4E-D 1.5	PM-2E-D 1.5	4	2	50	4	6	1.5
PM-4E-D 2.0	PM-2E-D 2.0	4	2	50	6	6	2
PM-4E-D 2.5	PM-2E-D 2.5	4	2	50	8	6	2.5
PM-4E-D 3.0	PM-2E-D 3.0	4	2	50	8	6	3
PM-4E-D 3.5	PM-2E-D 3.5	4	2	50	10	6	3.5
PM-4E-D 4.0S	PM-2E-D 4.0S	4	2	50	11	6	4
PM-4EZ-D 4.0	PM-2E-D 4.0	4	2	60	16	6	4
PM-4EL-D 4.0	PM-2EL-D 4.0	4	2	75	15	6	4
PM-4E-D 5.0S	PM-2E-D 5.0S	4	2	50	13	6	5
PM-4EZ-D 5.0S	PM-2E-D 5.0S	4	2	60	20	6	5
PM-4E-D 6.0 ●	PM-2E-D 6.0 ●	4	2	50	16	6	6
PM-4EL-D 6.0	PM-2EL-D 6.0	4	2	75	20	6	6
PM-4EM-D 6.0	PM-2E-D 6.0	4	2	100	20	6	6
PM-4E-D 8.0 ●	PM-2E-D 8.0 ●	4	2	60	20	8	8
PM-4EZ-D 8.0	PM-2E-D 8.0	4	2	75	25	8	8

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

PM 系列适合 PM Suitable series	被加工材料适用表 Test sheet for processed material									
	● 非常适合 fit as a pudding for a friar' s mouth					● 适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	●	●	~40HRC	~50HRC		●	●			

直柄平头立铣刀—PM

Straight shank flat end milling



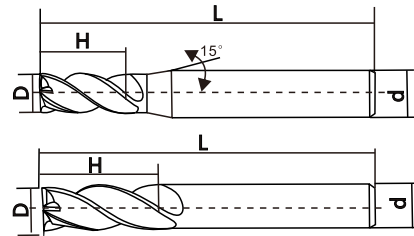
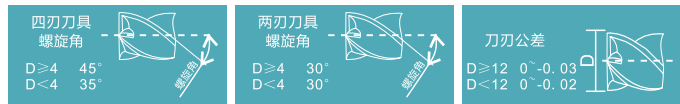
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	D
PM-4EL-D 8.0	PM-2EL-D 8.0	4	2	100	25	8	8
PM-4E-D 10.0● ●	PM-2E-D 10.0● ●	4	2	75	25	10	10
PM-4EL-D 10.0	PM-2EL-D 10.0	4	2	100	30	10	10
PM-4E-D 12.0 ●	PM-2E-D 12.0 ●	4	2	75	30	12	12
PM-4EL-D 12.0	PM-2EL-D 12.0	4	2	100	35	12	12
PM-4E-D 14.0	PM-2E-D 14.0	4	2	75	32	14	14
PM-4EL-D 14.0	PM-2EL-D 14.0	4	2	100	40	14	14
PM-4E-D 16.0	PM-2E-D 16.0	4	2	100	45	16	16
PM-4EL-D 16.0	PM-2EL-D 16.0	4	2	150	50	16	16
PM-4E-D 18.0	PM-2E-D 18.0	4	2	100	45	18	18
PM-4EL-D 18.0	PM-2EL-D 18.0	4	2	150	55	18	18
PM-4E-D 20.0	PM-2E-D 20.0	4	2	100	45	20	20
PM-4EL-D 20.0	PM-2EL-D 20.0	4	2	150	55	20	20

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

PM 系列适合 PM Suitable series	被加工材料适用表 Test sheet for processed material									
	● 非常适合 fit as a pudding for a friar' s mouth					● 适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	●	●	~40HRC	~50HRC		●	●			

直柄R铣刀—PM

Straight shank R end milling



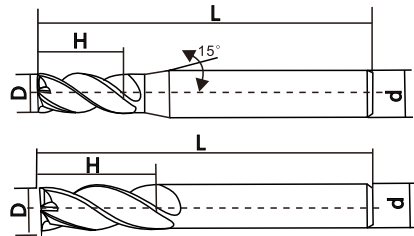
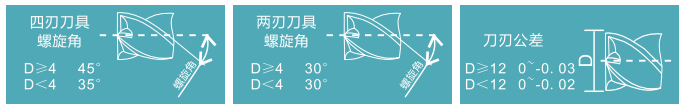
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
PM-4R-D 1.0S-R 0.2	PM-2R-D 1.0S-R 0.2	4	2	50	3	4	0.2	1	
PM-4R-D 2.0S-R 0.2	PM-2R-D 2.0S-R 0.2	4	2	50	6	4	0.2	2	
PM-4R-D 3.0S-R 0.2	PM-2R-D 3.0S-R 0.2	4	2	50	8	4	0.2	3	
PM-4R-D 3.0S-R 0.5	PM-2R-D 3.0S-R 0.5	4	2	50	8	4	0.5	3	
PM-4R-D 4.0-R 0.3	PM-2R-D 4.0-R 0.3	4	2	50	11	4	0.3	4	
PM-4R-D 4.0-R 0.5	PM-2R-D 4.0-R 0.5	4	2	50	11	4	0.5	4	
PM-4R-D 1.0-R 0.2	PM-2R-D 1.0-R 0.2	4	2	50	3	6	0.2	1	
PM-4R-D 2.0-R 0.2	PM-2R-D 2.0-R 0.2	4	2	50	6	6	0.2	2	
PM-4R-D 3.0-R 0.2	PM-2R-D 3.0-R 0.2	4	2	50	8	6	0.2	3	
PM-4R-D 4.0S-R 0.3	PM-2R-D 4.0S-R 0.3	4	2	50	11	6	0.3	4	
PM-4R-D 4.0S-R 0.5	PM-2R-D 4.0S-R 0.5	4	2	50	11	6	0.5	4	
PM-4R-D 5.0-R 0.5	PM-2R-D 5.0-R 0.5	4	2	50	13	6	0.5	5	
PM-4R-D 5.0-R 1.0	PM-2R-D 5.0-R 1.0	4	2	50	13	6	1.0	5	
PM-4R-D 6.0-R 0.3	PM-2R-D 6.0-R 0.3	4	2	50	16	6	0.3	6	
PM-4R-D 6.0-R 0.5	PM-2R-D 6.0-R 0.5	4	2	50	16	6	0.5	6	
PM-4R-D 6.0-R 1.0	PM-2R-D 6.0-R 1.0	4	2	50	16	6	1.0	6	
PM-4RL-D 6.0-R 0.5	PM-2RL-D 6.0-R 0.5	4	2	75	20	6	0.5	6	
PM-4RL-D 6.0-R 1.0	PM-2RL-D 6.0-R 1.0	4	2	75	20	6	1.0	6	
PM-4R-D 8.0-R 0.3	PM-2R-D 8.0-R 0.3	4	2	60	20	8	0.3	8	
PM-4R-D 8.0-R 0.5	PM-2R-D 8.0-R 0.5	4	2	60	20	8	0.5	8	
PM-4R-D 8.0-R 1.0	PM-2R-D 8.0-R 1.0	4	2	60	20	8	1.0	8	
PM-4RZ-D 8.0-R 0.5	PM-2RZ-D 8.0-R 0.5	4	2	75	25	8	0.5	8	
PM-4RZ-D 8.0-R 1.0	PM-2RZ-D 8.0-R 1.0	4	2	75	25	8	1.0	8	
PM-4RL-D 8.0-R 0.5	PM-2RL-D 8.0-R 0.5	4	2	100	25	8	0.5	8	

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

PM 系列适合 PM Suitable series	被加工材料适用表 Test sheet for processed material						非常合适 fit as a pudding for a friar's mouth						适合 appropriate			
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy					
			~40HRC	~50HRC												
	●	●	●	●		●	●									

直柄R铣刀—PM

Straight shank R end milling



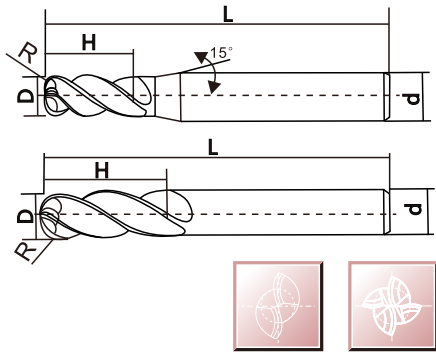
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
PM-4RL-D 8.0-R 1.0	PM-2RL-D 8.0-R 1.0	4	2	100	25	8	1.0	8	
PM-4R-D 10.0-R 0.5	PM-2R-D 10.0-R 0.5	4	2	75	25	10	0.5	10	
PM-4R-D 10.0-R 1.0	PM-2R-D 10.0-R 1.0	4	2	75	25	10	1.0	10	
PM-4R-D 10.0-R 2.0	PM-2R-D 10.0-R 2.0	4	2	75	25	10	2.0	10	
PM-4RL-D 10.0-R 0.5	PM-2RL-D 10.0-R 0.5	4	2	100	30	10	0.5	10	
PM-4RL-D 10.0-R 1.0	PM-2RL-D 10.0-R 1.0	4	2	100	30	10	1.0	10	
PM-4RL-D 10.0-R 2.0	PM-2RL-D 10.0-R 2.0	4	2	100	30	10	2.0	10	
PM-4R-D 12.0-R 0.5	PM-2R-D 12.0-R 0.5	4	2	75	30	12	0.5	12	
PM-4R-D 12.0-R 1.0	PM-2R-D 12.0-R 1.0	4	2	75	30	12	1.0	12	
PM-4R-D 14.0-R 0.5	PM-2R-D 14.0-R 0.5	4	2	75	35	14	0.5	14	
PM-4R-D 14.0-R 1.0	PM-2R-D 14.0-R 1.0	4	2	75	35	14	1.0	14	
PM-4R-D 16.0-R 1.0	PM-2R-D 16.0-R 1.0	4	2	100	45	16	1.0	16	
PM-4R-D 16.0-R 2.0	PM-2R-D 16.0-R 2.0	4	2	100	45	16	1.0	16	
PM-4R-D 16.0-R 3.0	PM-2R-D 16.0-R 3.0	4	2	100	45	16	2.0	16	
PM-4RL-D 16.0-R 1.0	PM-2RL-D 16.0-R 1.0	4	2	150	50	16	1.0	16	
PM-4RL-D 16.0-R 2.0	PM-2RL-D 16.0-R 2.0	4	2	150	50	16	2.0	16	
PM-4RL-D 16.0-R 3.0	PM-2RL-D 16.0-R 3.0	4	2	150	50	16	3.0	16	
PM-4R-D 18.0-R 1.0	PM-2R-D 18.0-R 1.0	4	2	100	45	18	1.0	18	
PM-4R-D 18.0-R 2.0	PM-2R-D 18.0-R 2.0	4	2	100	45	18	2.0	18	
PM-4R-D 20.0-R 1.0	PM-2R-D 20.0-R 1.0	4	2	100	45	20	1.0	20	
PM-4R-D 20.0-R 2.0	PM-2R-D 20.0-R 2.0	4	2	100	45	20	2.0	20	
PM-4R-D 20.0-R 3.0	PM-2R-D 20.0-R 3.0	4	2	100	45	20	3.0	20	
PM-4RL-D 20.0-R 1.0	PM-2RL-D 20.0-R 1.0	4	2	150	55	20	1.0	20	
PM-4RL-D 20.0-R 2.0	PM-2RL-D 20.0-R 2.0	4	2	150	55	20	2.0	20	
PM-4RL-D 20.0-R 3.0	PM-2RL-D 20.0-R 3.0	4	2	150	55	20	3.0	20	

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

PM 系列适合 PM Suitable series	被加工材料适用表 Test sheet for processed material						非常合适 fit as a pudding for a friar's mouth						适合 appropriate			
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy					
			~40HRC	~50HRC												
	●	●	●	●		●	●									

直柄球头铣刀-PM

Straight shank ball end milling



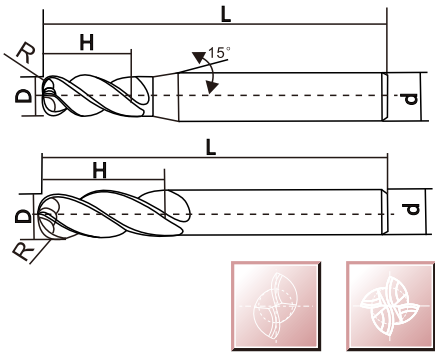
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
PM-4R-R 0.5S	PM-2R-R 0.5S	•	4	2	50	2	4	0.5	1
PM-4R-R 0.75S	PM-2R-R 0.75S		4	2	50	3	4	1.75	1.5
PM-4R-R 1.0S	PM-2R-R 1.0S	•	4	2	50	4	4	1.0	2
PM-4R-R 1.25S	PM-2R-R 1.25S		4	2	50	5	4	1.25	2.5
PM-4R-R 1.5S	PM-2R-R 1.5S		4	2	50	6	4	1.5	3
PM-4R-R 2.0S	PM-2R-R 2.0S	•	4	2	50	8	4	2.0	4
PM-4R-R 1.75S	PM-2R-R 1.75S		4	2	50	7	4	1.75	3.5
PM-4R-R 0.5	PM-2R-R 0.5		4	2	50	2	6	0.5	1
PM-4R-R 0.75	PM-2R-R 0.75		4	2	50	3	6	1.75	1.5
PM-4R-R 1.0	PM-2R-R 1.0		4	2	50	4	6	1.0	2
PM-4R-R 1.25	PM-2R-R 1.25		4	2	50	5	6	1.25	2.5
PM-4R-R 1.5	PM-2R-R 1.5		4	2	50	6	6	1.5	3
PM-4R-R 1.75	PM-2R-R 1.75		4	2	50	7	6	1.75	3.5
PM-4R-R 2.0	PM-2R-R 2.0		4	2	50	8	6	2.0	4
PM-4R-R 2.5	PM-2R-R 2.5		4	2	50	10	6	2.5	5
PM-4R-R 3.0	PM-2R-R 3.0	•	4	2	50	12	6	3.0	6
PM-4RL-R 3.0	PM-2RL-R 3.0		4	2	75	12	6	3.0	6
PM-4R-R 4.0	PM-2R-R 4.0	•	4	2	60	16	8	4.0	8
PM-4RZ-R 4.0	PM-2RZ-R 4.0		4	2	75	16	8	4.0	8
PM-4RL-R 4.0	PM-2RL-R 4.0		4	2	00↑	16	8	4.0	8
PM-4R-R 5.0	PM-2R-R 5.0	•	4	2	75	20	10	5.0	10
PM-4RL-R 5.0	PM-2RL-R 5.0		4	2	00↑	20	10	5.0	10
PM-4R-R 6.0	PM-2R-R 6.0	•	4	2	75	24	12	6.0	12

• 为常备库存。此外，其它规格也可另行订制。 The "•"specifications are standing stock. In addition, other specifications can be customized.

PM 系列适用 PM Suitable series	被加工材料适用表 Test sheet for processed material										
	☺ 非常合适 fit as a pudding for a friar's mouth										
	☺ 适用 appropriate										
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
	☺	☺	☺	☺		☺	☺				

直柄球头铣刀-PM

Straight shank ball end milling



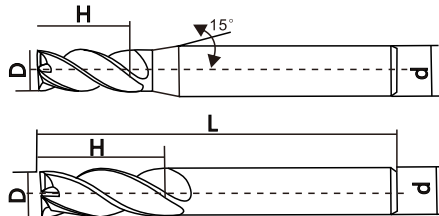
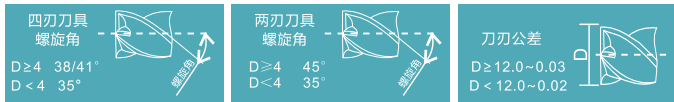
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
PM-4BL-R 6.0T	PM-2BL-R 6.0T		4	2	100	24	12	6.0	12
PM-4B-R 7.0T	PM-2B-R 7.0T		4	2	75	28	14	7.0	14
PM-4BL-R 7.0T	PM-2BL-R 7.0T		4	2	100	28	14	7.0	14
Z GM-4B-R 8.0T	PM-2B-R 8.0T		4	2	100	32	16	8.0	16
Z GM-4BL-R 8.0T	PM-2BL-R 8.0T		4	2	150	32	16	8.0	16
PM-4B-R 9.0T	PM-2B-R 9.0T		4	2	100	36	18	9.0	18
PM-4BL-R 9.0T	PM-2BL-R 9.0T		4	2	150	36	18	9.0	18
PM-4B-R 10.0T	PM-2B-R 10.0T		4	2	100	40	20	10.0	20
PM-4BL-R 10.0T	PM-2BL-R 10.0T		4	2	150	40	20	10.0	20

• 为常备库存。此外，其它规格也可另行订制。 The "•"specifications are standing stock. In addition, other specifications can be customized.

PM 系列适合 PM Suitable series	被加工材料适用表 Test sheet for processed material									
	☺ 非常合适 fit as a pudding for a friar's mouth						☺ 适合 appropriate			
	碳素钢 carbon steel	合金刚 Alloy steel	预硬钢、淬硬刚 Pre hardened steel,hardened steel		不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
			~40HRC	~50HRC						
	☺	☺	☺	☺	☺	☺				

直柄平头立铣刀—SM

Straight shank flat end milling



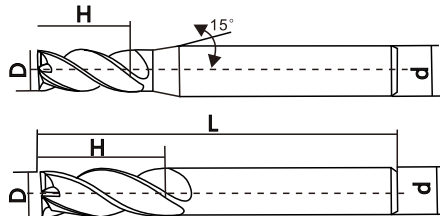
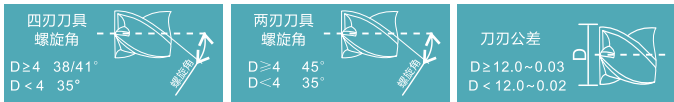
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d(h6)	D
SM-4E-D 1.0S	SM-2E-D 1.0S	4	2	50	3	4	1
SM-4E-D 1.5S	SM-2E-D 1.5S	4	2	50	4	4	1.5
SM-4E-D 2.0S	SM-2E-D 2.0S	4	2	50	6	4	2
SM-4E-D 2.5S	SM-2E-D 2.5S	4	2	50	8	4	2.5
SM-4E-D 3.0S	SM-2E-D 3.0S	4	2	50	8	4	3
SM-4E-D 3.5S	SM-2E-D 3.5S	4	2	50	10	4	3.5
SM-4E-D 4.0S	SM-2E-D 4.0S	4	2	50	11	4	4
SM-4EL-D 4.0S	SM-2EL-D 4.0S	4	2	75	15	4	4
SM-4E-D 1.0	SM-2E-D 1.0	4	2	50	3	6	1
SM-4E-D 1.5	SM-2E-D 1.5	4	2	50	4	6	1.5
SM-4E-D 2.0	SM-2E-D 2.0	4	2	50	6	6	2
SM-4E-D 2.5	SM-2E-D 2.5	4	2	50	8	6	2.5
SM-4E-D 3.0	SM-2E-D 3.0	4	2	50	8	6	3
SM-4E-D 3.5	SM-2E-D 3.5	4	2	50	10	6	3.5
SM-4E-D 4.0S	SM-2E-D 4.0S	4	2	50	11	6	4
SM-4EZ-D 4.0	SM-2EZ-D 4.0	4	2	60	16	6	4
SM-4EL-D 4.0	SM-2EL-D 4.0	4	2	75	15	6	4
SM-4E-D 5.0S	SM-2E-D 5.0S	4	2	50	13	6	5
SM-4EZ-D 5.0S	SM-2EZ-D 5.0S	4	2	60	20	6	5
SM-4E-D 6.0	SM-2E-D 6.0	4	2	50	16	6	6
SM-4EL-D 6.0	SM-2EL-D 6.0	4	2	75	20	6	6
SM-4EM-D 6.0	SM-2EM-D 6.0	4	2	100	20	6	6
SM-4E-D 8.0	SM-2E-D 8.0	4	2	60	20	8	8
SM-4EZ-D 8.0	SM-2EZ-D 8.0	4	2	75	25	8	8

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

SM 系列适合 ZSM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar' s mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	~40HRC	~50HRC	~55HRC							
	●	●	●			●			●	●

直柄平头立铣刀—SM

Straight shank flat end milling



订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d(h6)	D
SM-4EL-D 8.0	SM-2EL-D 8.0	4	2	100	25	8	8
SM-4E-D 10.0	SM-2E-D 10.0	4	2	75	25	10	10
SM-4EL-D 10.0	SM-2EL-D 10.0	4	2	100	30	10	10
SM-4E-D 12.0	SM-2E-D 12.0	4	2	75	30	12	12
SM-4EL-D 12.0	SM-2EL-D 12.0	4	2	100	35	12	12
SM-4E-D 14.0	SM-2E-D 14.0	4	2	75	32	14	14
SM-4EL-D 14.0	SM-2EL-D 14.0	4	2	100	40	14	14
SM-4E-D 16.0	SM-2E-D 16.0	4	2	100	45	16	16
SM-4EL-D 16.0	SM-2EL-D 16.0	4	2	150	50	16	16
SM-4E-D 18.0	SM-2E-D 18.0	4	2	100	45	18	18
SM-4EL-D 18.0	SM-2EL-D 18.0	4	2	150	55	18	18
SM-4E-D 20.0	SM-2E-D 20.0	4	2	100	45	20	20
SM-4EL-D 20.0	SM-2EL-D 20.0	4	2	150	55	20	20

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

SM 系列适合 ZSM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar' s mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	~40HRC	~50HRC	~55HRC							
	●	●	●			●			●	●

直柄R铣刀—SM

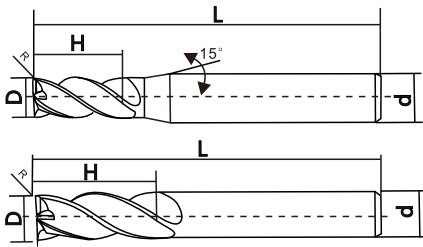
Straight shank R end milling



四刃刀具
螺旋角
D≥4 38/41°
D<4 35°

两刃刀具
螺旋角
D≥4 45°
D<4 35°

刀刃公差
D≥12.0~0.03
D<12.0~0.02



订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
SM-4R-D 1.0S-R 0.2	SM-2R-D 1.0S-R 0.2	4	2	50	3	4	0.2	1	
SM-4R-D 2.0S-R 0.2	SM-2R-D 2.0S-R 0.2	4	2	50	6	4	0.2	2	
SM-4R-D 3.0S-R 0.2	SM-2R-D 3.0S-R 0.2	4	2	50	8	4	0.2	3	
SM-4R-D 3.0S-R 0.5	SM-2R-D 3.0S-R 0.5	4	2	50	8	4	0.5	3	
SM-4R-D 4.0-R 0.3	SM-2R-D 4.0-R 0.3	4	2	50	11	4	0.3	4	
SM-4R-D 4.0-R 0.5	SM-2R-D 4.0-R 0.5	4	2	50	11	4	0.5	4	
SM-4R-D 1.0-R 0.2	SM-2R-D 1.0-R 0.2	4	2	50	3	6	0.2	1	
SM-4R-D 2.0-R 0.2	SM-2R-D 2.0-R 0.2	4	2	50	6	6	0.2	2	
SM-4R-D 3.0-R 0.2	SM-2R-D 3.0-R 0.2	4	2	50	8	6	0.2	3	
SM-4R-D 4.0S-R 0.3	SM-2R-D 4.0S-R 0.3	4	2	50	11	6	0.3	4	
SM-4R-D 4.0S-R 0.5	SM-2R-D 4.0S-R 0.5	4	2	50	11	6	0.5	4	
SM-4R-D 5.0-R 0.5	SM-2R-D 5.0-R 0.5	4	2	50	13	6	0.5	5	
SM-4R-D 5.0-R 1.0	SM-2R-D 5.0-R 1.0	4	2	50	13	6	1.0	5	
SM-4R-D 6.0-R 0.3	SM-2R-D 6.0-R 0.3	4	2	50	16	6	0.3	6	
SM-4R-D 6.0-R 0.5	SM-2R-D 6.0-R 0.5	4	2	50	16	6	0.5	6	
SM-4R-D 6.0-R 1.0	SM-2R-D 6.0-R 1.0	4	2	50	16	6	1.0	6	
SM-4RL-D 6.0-R 0.5	SM-2RL-D 6.0-R 0.5	4	2	75	20	6	0.5	6	
SM-4RL-D 6.0-R 1.0	SM-2RL-D 6.0-R 1.0	4	2	75	20	6	1.0	6	
SM-4R-D 8.0-R 0.3	SM-2R-D 8.0-R 0.3	4	2	60	20	8	0.3	8	
SM-4R-D 8.0-R 0.5	SM-2R-D 8.0-R 0.5	4	2	60	20	8	0.5	8	
SM-4R-D 8.0-R 1.0	SM-2R-D 8.0-R 1.0	4	2	60	20	8	1.0	8	
SM-4RZ-D 8.0-R 0.5	SM-2RZ-D 8.0-R 0.5	4	2	75	25	8	0.5	8	
SM-4RZ-D 8.0-R 1.0	SM-2RZ-D 8.0-R 1.0	4	2	75	25	8	1.0	8	
SM-4RL-D 8.0-R 0.5	SM-2RZ-D 8.0-R 0.5	4	2	100	25	8	0.5	8	

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

SM 系列适合 ZSM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常适合 fit as a pudding for a friar' s mouth					适合 appropriate				
	碳素钢 carbon steel	合金刚 Alloy steel	预硬钢、淬硬刚 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	④	④	④	④	④	④			④	④

直柄R铣刀—SM

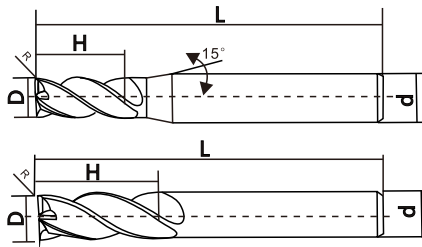
Straight shank R end milling



四刃刀具
螺旋角
D≥4 38/41°
D<4 35°

两刃刀具
螺旋角
D≥4 45°
D<4 35°

刀刃公差
D≥12.0~0.03
D<12.0~0.02



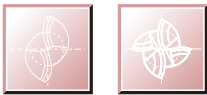
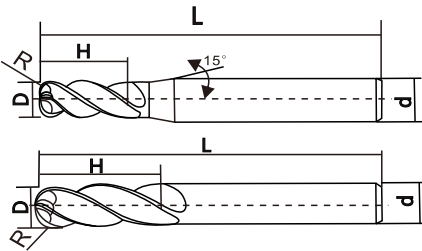
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
SM-4RL-D 8.0-R 1.0	SM-2RL-D 8.0-R 1.0	4	2	100	25	8	1.0	8	
SM-4R-D 10.0S-R 0.5	SM-2R-D 10.0-R 0.5	4	2	75	25	10	0.5	10	
SM-4R-D 10.0-R 1.0	SM-2R-D 10.0-R 1.0	4	2	75	25	10	1.0	10	
SM-4R-D 10.0-R 2.0	SM-2R-D 10.0-R 2.0	4	2	75	25	10	2.0	10	
SM-4RL-D 10.0-R 0.5	SM-2RL-D 10.0-R 0.5	4	2	100	30	10	0.5	10	
SM-4RL-D 10.0-R 1.0	SM-2RL-D 10.0-R 1.0	4	2	100	30	10	1.0	10	
SM-4RL-D 10.0-R 2.0	SM-2RL-D 10.0-R 2.0	4	2	100	30	10	2.0	10	
SM-4R-D 12.0-R 0.5	SM-2R-D 12.0-R 0.5	4	2	75	30	12	0.5	12	
SM-4R-D 12.0-R 1.0	SM-2R-D 12.0-R 1.0	4	2	75	30	12	1.0	12	
SM-4R-D 14.0-R 0.5	SM-2R-D 14.0-R 0.5	4	2	75	35	14	0.5	14	
SM-4R-D 14.0-R 1.0	SM-2R-D 14.0-R 1.0	4	2	75	35	14	1.0	14	
SM-4R-D 16.0-R 1.0	SM-2R-D 16.0-R 1.0	4	2	100	45	16	1.0	16	
SM-4R-D 16.0-R 2.0	SM-2R-D 16.0-R 2.0	4	2	100	45	16	2.0	16	
SM-4R-D 16.0-R 3.0	SM-2R-D 16.0-R 3.0	4	2	100	45	16	3.0	16	
SM-4RL-D 16.0-R 1.0	SM-2RL-D 16.0-R 1.0	4	2	150	50	16	1.0	16	
SM-4RL-D 16.0-R 2.0	SM-2RL-D 16.0-R 2.0	4	2	150	50	16	2.0	16	
SM-4RL-D 16.0-R 3.0	SM-2RL-D 16.0-R 3.0	4	2	150	50	16	3.0	16	
SM-4R-D 18.0-R 1.0	SM-2R-D 18.0-R 1.0	4	2	100	45	18	1.0	18	
SM-4R-D 18.0-R 2.0	SM-2R-D 18.0-R 2.0	4	2	100	45	18	2.0	18	
SM-4R-D 20.0-R 1.0	SM-2R-D 20.0-R 1.0	4	2	100	45	20	1.0	20	
SM-4R-D 20.0-R 2.0	SM-2R-D 20.0-R 2.0	4	2	100	45	20	2.0	20	
SM-4R-D 20.0-R 3.0	SM-2R-D 20.0-R 3.0	4	2	100	45	20	3.0	20	
SM-4RL-D 20.0-R 1.0	SM-2RL-D 20.0-R 1.0	4	2	150	55	20	1.0	20	
SM-4RL-D 20.0-R 3.0	SM-2RL-D 20.0-R 3.0	4	2	150	55	20	3.0	20	

●为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

SM 系列适合 ZSM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常适合 fit as a pudding for a friar' s mouth					适合 appropriate				
	碳素钢 carbon steel	合金刚 Alloy steel	预硬钢、淬硬刚 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
	④	④	④	④	④	④			④	④

直柄球头铣刀-SM

Straight shank ball end milling



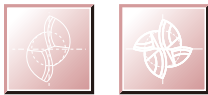
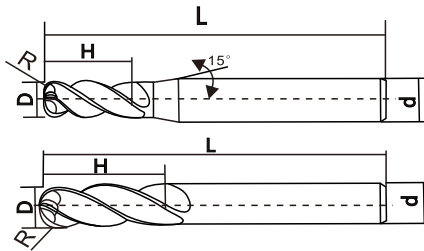
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
SM-4B-R 0.5S	SM-2B-R 0.5S	4	2	50	2	4	0.5	1	
SM-4B-R 0.75S	SM-2B-R 0.75S	4	2	50	3	4	1.75	1.5	
SM-4B-R 1.0S	SM-2B-R 1.0S	4	2	50	4	4	1.0	2	
SM-4B-R 1.25S	SM-2B-R 1.25S	4	2	50	5	4	1.25	2.5	
PM-4B-R 1.5S	SM-2B-R 1.5S	4	2	50	6	4	1.5	3	
PM-4B-R 2.0S	SM-2B-R 2.0S	4	2	50	8	4	2.0	4	
PM-4B-R 1.75S	SM-2B-R 1.75S	4	2	50	7	4	1.75	3.5	
PM-4B-R 0.5	SM-2B-R 0.5	4	2	50	2	6	0.5	1	
PM-4B-R 0.75	SM-2B-R 0.75	4	2	50	3	6	1.75	1.5	
PM-4B-R 1.0	SM-2B-R 1.0	4	2	50	4	6	1.0	2	
PM-4B-R 1.25	SM-2B-R 1.25	4	2	50	5	6	1.25	2.5	
PM-4B-R 1.5	SM-2B-R 1.5	4	2	50	6	6	1.5	3	
PM-4B-R 1.75	SM-2B-R 1.75	4	2	50	7	6	1.75	3.5	
PM-4B-R 2.0	SM-2B-R 2.0	4	2	50	8	6	2.0	4	
PM-4B-R 2.5	SM-2B-R 2.5	4	2	50	10	6	2.5	5	
PM-4B-R 3.0	SM-2B-R 3.0	4	2	50	12	6	3.0	6	
PM-4BL-R 3.0	SM-2BL-R 3.0	4	2	75	12	6	3.0	6	
PM-4B-R 4.0	SM-2B-R 4.0	4	2	60	16	8	4.0	8	
PM-4BZ-R 4.0	SM-2BZ-R 4.0	4	2	75	16	8	4.0	8	
PM-4BL-R 4.0	SM-2BL-R 4.0	4	2	100	16	8	4.0	8	
PM-4B-R 5.0	SM-2B-R 5.0	4	2	75	20	10	5.0	10	
PM-4BL-R 5.0	SM-2BL-R 5.0	4	2	100	20	10	5.0	10	
PM-3443-R 6.0	SM-2B-R 6.0	4	2	75	24	12	6.0	12	
PM-4BL-R 6.0	SM-2BL-R 6.0	4	2	100	24	12	6.0	12	

● 为常备库存。此外，其它规格也可另行订制。 The "●" specifications are standing stock. In addition, other specifications can be customized.

SM 系列适合 ZSM Suitable series	被加工材料适用表 Test sheet for processed material										
	非常合适 fit as a pudding for a friar' s mouth					适合 appropriate					
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬刚 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
	●	●	●			●				●	●

直柄球头铣刀-SM

Straight shank ball end milling



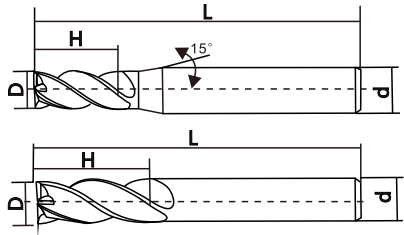
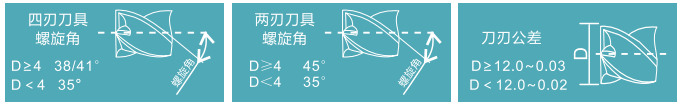
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
SM-4B-R 7.0	SM-2B-R 7.0	4	2	75	28	14	7.0	14	
SM-4BL-R 7.0	SM-2BL-R 7.0	4	2	100	28	14	7.0	14	
SM-4BL-R 8.0	SM-2B-R 8.0	4	2	100	32	16	8.0	16	
SM-4B-R 8.0	SM-2BL-R 8.0	4	2	100	32	16	8.0	16	
SM-4B-R 9.0	SM-2B-R 9.0	4	2	100	36	18	9.0	18	
SM-4BL-R 9.0	SM-2BL-R 9.0	4	2	150	36	18	9.0	18	
SM-4B-R 10.0	SM-2B-R 10.0	4	2	100	40	20	10.0	20	
SM-4BL-R 10.0	SM-2BL-R 10.0	4	2	150	40	20	10.0	20	

● 为常备库存。此外，其它规格也可另行订制。 The "●" specifications are standing stock. In addition, other specifications can be customized.

SM 系列适合 ZSM Suitable series	被加工材料适用表 Test sheet for processed material										
	非常合适 fit as a pudding for a friar' s mouth					适合 appropriate					
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬刚 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
	●	●	●			●				●	●

直柄平头立铣刀—HM

Straight shank flat end milling



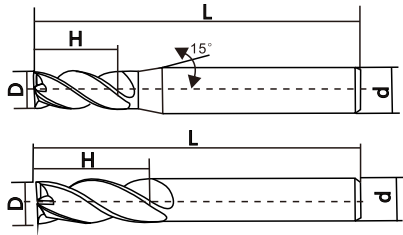
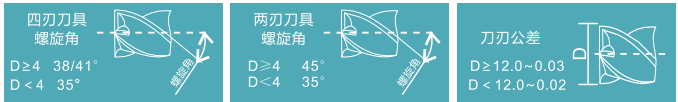
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d(h6)	D
HM-4E-D 1.0S	HM-2E-D 1.0S	4	2	50	3	4	1
HM-4E-D 1.5S	HM-2E-D 1.5S	4	2	50	4	4	1.5
HM-4E-D 2.0S	HM-2E-D 2.0S	4	2	50	6	4	2
HM-4E-D 2.5S	HM-2E-D 2.5S	4	2	50	8	4	2.5
HM-4E-D 3.0S	HM-2E-D 3.0S	4	2	50	8	4	3
HM-4E-D 3.5S	HM-2E-D 3.5S	4	2	50	10	4	3.5
HM-4E-D 4.0S	HM-2E-D 4.0S	4	2	50	11	4	4
HM-4EL-D 4.0S	HM-2EL-D 4.0S	4	2	75	15	4	4
HM-4E-D 1.0	HM-2E-D 1.0	4	2	50	3	6	1
HM-4E-D 1.5	HM-2E-D 1.5	4	2	50	4	6	1.5
HM-4E-D 2.0	HM-2E-D 2.0	4	2	50	6	6	2
HM-4E-D 2.5	HM-2E-D 2.5	4	2	50	8	6	2.5
HM-4E-D 3.0	HM-2E-D 3.0	4	2	50	8	6	3
HM-4E-D 3.5	HM-2E-D 3.5	4	2	50	10	6	3.5
HM-4E-D 4.0S	HM-2E-D 4.0S	4	2	50	11	6	4
HM-4EZ-D 4.0	HM-2EZ-D 4.0	4	2	60	16	6	4
HM-4EL-D 4.0	HM-2EL-D 4.0	4	2	75	15	6	4
HM-4E-D 5.0S	HM-2E-D 5.0S	4	2	50	13	6	5
HM-4EZ-D 5.0S	HM-2EZ-D 5.0S	4	2	60	20	6	5
HM-4E-D 6.0	HM-2E-D 6.0	4	2	50	16	6	6
HM-4EL-D 6.0	HM-2EL-D 6.0	4	2	75	20	6	6
HM-4EM-D 6.0	HM-2EM-D 6.0	4	2	100	20	6	6
HM-4E-D 8.0	HM-2E-D 8.0	4	2	60	20	8	8
HM-4EZ-D 8.0	HM-2EZ-D 8.0	4	2	75	25	8	8

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

HM 系列适合 HM Suitable series	被加工材料适用表 Test sheet for processed material									
	● 非常适合 fit as a pudding for a friar' s mouth					● 适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC					
			●	●	●					

直柄平头立铣刀—HM

Straight shank flat end milling



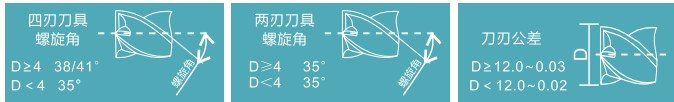
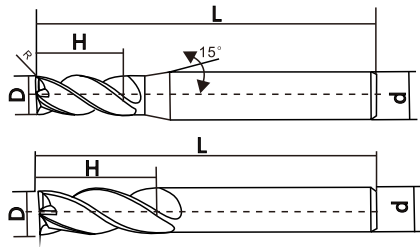
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	D
HM-4EL-D 8.0	HM-2EL-D 8.0	4	2	100	25	8	8
HM-4E-D 10.0	HM-2E-D 10.0	4	2	75	25	10	10
HM-4EL-D 10.0	HM-2EL-D 10.0	4	2	100	30	10	10
HM-4E-D 12.0	HM-2E-D 12.0	4	2	75	30	12	12
HM-4EL-D 12.0	HM-2EL-D 12.0	4	2	100	35	12	12
HM-4E-D 14.0	HM-2E-D 14.0	4	2	75	32	14	14
HM-4EL-D 14.0	HM-2EL-D 14.0	4	2	100	40	14	14
HM-4E-D 16.0	HM-2E-D 16.0	4	2	100	45	16	16
HM-4EL-D 16.0	HM-2EL-D 16.0	4	2	150	50	16	16
HM-4E-D 18.0	HM-2E-D 18.0	4	2	100	45	18	18
HM-4EL-D 18.0	HM-2EL-D 18.0	4	2	150	55	18	18
HM-4E-D 20.0	HM-2E-D 20.0	4	2	100	45	20	20
HM-4EL-D 20.0	HM-2EL-D 20.0	4	2	150	55	20	20

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

HM 系列适合 HM Suitable series	被加工材料适用表 Test sheet for processed material									
	● 非常适合 fit as a pudding for a friar' s mouth					● 适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel,hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC					
			●	●	●					

直柄R铣刀—HM

Straight shank R end milling



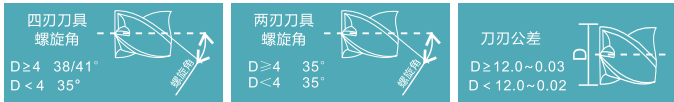
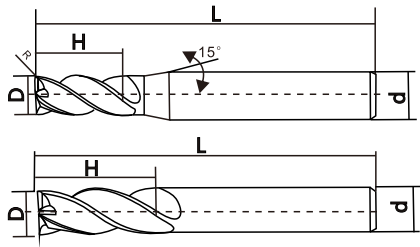
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
HM-4R-D 1.0-R 0.2	HM-2R-D 1.0-R 0.2	4	2	50	3	4	0.2	1	
HM-4R-D 2.0-R 0.2	HM-2R-D 2.0-R 0.2	4	2	50	6	4	0.2	2	
HM-4R-D 3.0-R 0.2	HM-2R-D 3.0-R 0.2	4	2	50	8	4	0.2	3	
HM-4R-D 3.0-R 0.5	HM-2R-D 3.0-R 0.2	4	2	50	8	4	0.5	3	
HM-4R-D 4.0-R 0.3	HM-2R-D 3.0-R 0.5	4	2	50	11	4	0.3	4	
HM-4R-D 4.0-R 0.5	HM-2R-D 4.0-R 0.3	4	2	50	11	4	0.5	4	
HM-4R-D 1.0-R 0.2	HM-2R-D 4.0-R 0.5	4	2	50	3	6	0.2	1	
HM-4R-D 2.0-R 0.2	HM-2R-D 1.0-R 0.2	4	2	50	6	6	0.2	2	
HM-4R-D 3.0-R 0.2	HM-2R-D 2.0-R 0.2	4	2	50	8	6	0.2	3	
HM-4R-D 4.0-R 0.3	HM-2R-D 3.0-R 0.2	4	2	50	11	6	0.3	4	
HM-4R-D 4.0-R 0.5	HM-2R-D 4.0-R 0.3	4	2	50	11	6	0.5	4	
HM-4R-D 5.0-R 0.5	HM-2R-D 4.0-R 0.5	4	2	50	13	6	0.5	5	
HM-4R-D 5.0-R 1.0	HM-2R-D 5.0-R 0.5	4	2	50	13	6	1.0	5	
HM-4R-D 6.0-R 0.3	HM-2R-D 5.0-R 1.0	4	2	50	16	6	0.3	6	
HM-4R-D 6.0-R 0.5	HM-2R-D 6.0-R 0.3	4	2	50	16	6	0.5	6	
HM-4R-D 6.0-R 1.0	HM-2R-D 6.0-R 0.5	4	2	50	16	6	1.0	6	
HM-4RL-D 6.0-R 0.5	HM-2R-D 6.0-R 1.0	4	2	75	20	6	0.5	6	
HM-4RL-D 6.0-R 1.0	HM-2RL-D 6.0-R 0.5	4	2	75	20	6	1.0	6	
HM-4R-D 8.0-R 0.3	HM-2RL-D 6.0-R 1.0	4	2	60	20	8	0.3	8	
HM-4R-D 8.0-R 0.5	HM-2R-D 8.0-R 0.3	4	2	60	20	8	0.5	8	
HM-4R-D 8.0-R 1.0	HM-2R-D 8.0-R 1.0	4	2	60	20	8	1.0	8	
HM-4RZ-D 8.0-R 0.5	HM-2RZ-D 8.0-R 0.5	4	2	75	25	8	0.5	8	
HM-4RZ-D 8.0-R 1.0	HM-2RZ-D 8.0-R 1.0	4	2	75	25	8	1.0	8	
HM-4RL-D 8.0-R 0.5	HM-2RL-D 8.0-R 0.5	4	2	100	25	8	0.5	8	

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

HM 系列适合 HM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar's mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC					
			●	●	●					

直柄R铣刀—HM

Straight shank R end milling



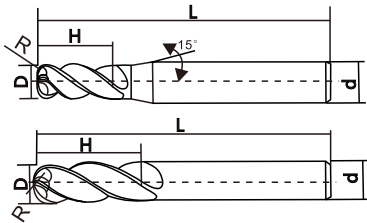
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
HM-4RL-D 8.0T-R 1.0	HM-2RL-D 8.0T-R 1.0	4	2	100	25	8	1.0	8	
HM-4R-D 10.0ST-R 0.5 ●	HM-2R-D 10.0T-R 0.5	4	2	75	25	10	0.5	10	
HM-4R-D 10.0T-R 1.0	HM-2R-D 10.0T-R 1.0	4	2	75	25	10	1.0	10	
HM-4R-D 10.0T-R 2.0	HM-2R-D 10.0T-R 2.0	4	2	75	25	10	2.0	10	
HM-4RL-D 10.0T-R 0.5	HM-2RL-D 10.0T-R 0.5	4	2	100	30	10	0.5	10	
HM-4RL-D 10.0T-R 1.0	HM-2RL-D 10.0T-R 1.0	4	2	100	30	10	1.0	10	
HM-4RL-D 10.0T-R 2.0	HM-2RL-D 10.0T-R 2.0	4	2	100	30	10	2.0	10	
HM-4R-D 12.0T-R 0.5 ●	HM-2R-D 12.0T-R 0.5	4	2	75	30	12	0.5	12	
HM-4R-D 12.0T-R 1.0	HM-2R-D 12.0T-R 1.0	4	2	75	30	12	1.0	12	
HM-4R-D 14.0T-R 0.5	HM-2R-D 14.0T-R 0.5	4	2	75	35	14	0.5	14	
HM-4R-D 14.0T-R 1.0	HM-2R-D 14.0T-R 1.0	4	2	75	35	14	1.0	14	
HM-4R-D 16.0T-R 1.0	HM-2R-D 16.0T-R 1.0	4	2	100	45	16	1.0	16	
HM-4R-D 16.0T-R 2.0	HM-2R-D 16.0T-R 2.0	4	2	100	45	16	2.0	16	
HM-4R-D 16.0T-R 3.0	HM-2R-D 16.0T-R 3.0	4	2	100	45	16	3.0	16	
HM-4RL-D 16.0T-R 1.0	HM-2RL-D 16.0T-R 1.0	4	2	150	50	16	1.0	16	
HM-4RL-D 16.0T-R 2.0	HM-2RL-D 16.0T-R 2.0	4	2	150	50	16	2.0	16	
HM-4RL-D 16.0T-R 3.0	HM-2RL-D 16.0T-R 3.0	4	2	150	50	16	3.0	16	
HM-4R-D 18.0T-R 1.0	HM-2R-D 18.0T-R 1.0	4	2	100	45	18	1.0	18	
HM-4R-D 18.0T-R 2.0	HM-2R-D 18.0T-R 2.0	4	2	100	45	18	2.0	18	
HM-4R-D 20.0T-R 1.0	HM-2R-D 20.0T-R 1.0	4	2	100	45	20	1.0	20	
HM-4R-D 20.0T-R 2.0	HM-2R-D 20.0T-R 2.0	4	2	100	45	20	2.0	20	
HM-4R-D 20.0T-R 3.0	HM-2R-D 20.0T-R 3.0	4	2	100	45	20	3.0	20	
HM-4RL-D 20.0T-R 1.0	HM-2RL-D 20.0T-R 1.0	4	2	150	55	20	1.0	20	
HM-4RL-D 20.0T-R 3.0	HM-2RL-D 20.0T-R 3.0	4	2	150	55	20	3.0	20	

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

HM 系列适合 HM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar's mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC					
			●	●	●					

直柄球头铣刀—HM

Straight shank ball end milling



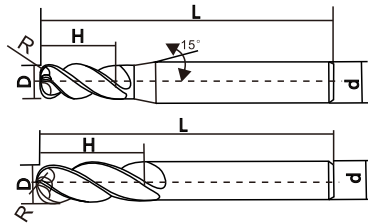
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
HM-4B-R 0.5S	HM-4RL-D 8.0T-R 1.0	4	2	50	2	4	0.5	1	
HM-4B-R 0.75S	HM-4R-D 10.0ST-R 0.5	4	2	50	3	4	1.75	1.5	
HM-4B-R 1.0S	HM-4R-D 10.0T-R 1.0	4	2	50	4	4	1.0	2	
HM-4B-R 1.25S	HM-4R-D 10.0T-R 2.0	4	2	50	5	4	1.25	2.5	
HM-4B-R 1.5S	HM-4RL-D 10.0T-R 0.5	4	2	50	6	4	1.5	3	
HM-4B-R 2.0S	HM-4RL-D 10.0T-R 1.0	4	2	50	8	4	2.0	4	
HM-4B-R 1.75S	HM-4RL-D 10.0T-R 2.0	4	2	50	7	4	1.75	3.5	
HM-4B-R 0.5	HM-4R-D 12.0T-R 0.5	4	2	50	2	6	0.5	1	
HM-4B-R 0.75	HM-4R-D 12.0T-R 1.0	4	2	50	3	6	1.75	1.5	
HM-4B-R 1.0	HM-4R-D 14.0T-R 0.5	4	2	50	4	6	1.0	2	
HM-4B-R 1.25	HM-4R-D 14.0T-R 1.0	4	2	50	5	6	1.25	2.5	
HM-4B-R 1.5	HM-4R-D 16.0T-R 1.0	4	2	50	6	6	1.5	3	
HM-4B-R 1.75	HM-4R-D 16.0T-R 2.0	4	2	50	7	6	1.75	3.5	
HM-4B-R 2.0	HM-4R-D 16.0T-R 3.0	4	2	50	8	6	2.0	4	
HM-4B-R 2.5	HM-4RL-D 16.0T-R 1.0	4	2	50	10	6	2.5	5	
HM-4B-R 3.0	HM-4RL-D 16.0T-R 2.0	4	2	50	12	6	3.0	6	
HM-4BL-R 3.0	HM-4RL-D 16.0T-R 3.0	4	2	75	12	6	3.0	6	
HM-4B-R 4.0	HM-4R-D 18.0T-R 1.0	4	2	60	16	8	4.0	8	
HM-4BZ-R 4.0	HM-4R-D 18.0T-R 2.0	4	2	75	16	8	4.0	8	
HM-4BL-R 4.0	HM-4R-D 20.0T-R 1.0	4	2	100	16	8	4.0	8	
HM-4B-R 5.0	HM-4R-D 20.0T-R 2.0	4	2	75	20	10	5.0	10	
HM-4BL-R 5.0	HM-4R-D 20.0T-R 3.0	4	2	100	20	10	5.0	10	
HM-4R-R 6.0	HM-4RL-D 20.0T-R 1.0	4	2	75	24	12	6.0	12	
HM-4BL-R 6.0	HM-4RL-D 20.0T-R 3.0	4	2	100	24	12	6.0	12	

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

HM 系列适合 HM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar's mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC					
			●	●	●					

直柄球头铣刀—HM

Straight shank ball end milling



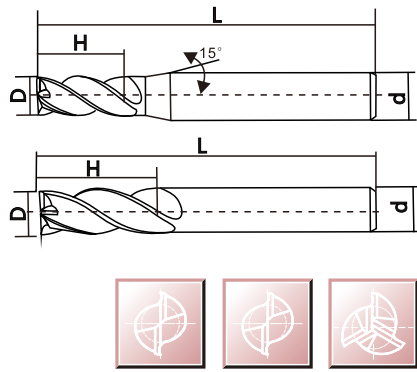
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
HM-4B-R 7.0	HM-2B-R 7.0	4	2	75	28	14	7.0	14	
HM-4BL-R 7.0	HM-2BL-R 7.0	4	2	100	28	14	7.0	14	
HM-4BL-R 7.0	HM-2BL-R 7.0	4	2	100	32	16	8.0	16	
HM-4B-R 8.0	HM-2B-R 8.0	4	2	100	32	16	8.0	16	
HM-4B-R 9.0	HM-2BL-R 8.0	4	2	100	36	18	9.0	18	
HM-4BL-R 9.0	HM-2B-R 9.0	4	2	150	36	18	9.0	18	
HM-4B-R 10.0	HM-2B-R 10.0	4	2	100	40	20	10.0	20	
HM-4BL-R 10.0	HM-2BL-R 10.0	4	2	150	40	20	10.0	20	

● 为常备库存。此外，其它规格也可另行订制。 The "●"specifications are standing stock. In addition, other specifications can be customized.

HM 系列适合 HM Suitable series	被加工材料适用表 Test sheet for processed material									
	非常合适 fit as a pudding for a friar's mouth					适合 appropriate				
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC					
			●	●	●					

直柄平头立铣刀—AM

Straight shank flat end milling



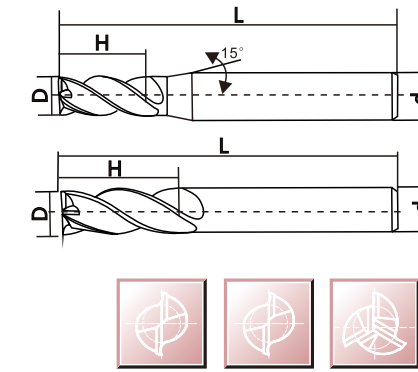
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions				
三刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d(h6)	D	
AM-3E-D 1.0S	AM-2E-D 1.0S	3	2	50	3	4	1	
AM-3E-D 1.5S	AM-2E-D 1.5S	3	2	50	4	4	1.5	
AM-3E-D 2.0S	AM-2E-D 2.0S	3	2	50	6	4	2	
AM-3E-D 2.5S	AM-2E-D 2.5S	3	2	50	7	4	2.5	
AM-3E-D 3.0S	AM-2E-D 3.0S	3	2	50	8	4	3	
AM-3E-D 3.5S	AM-2E-D 3.5S	3	2	50	10	4	3.5	
AM-3E-D 4.0	AM-2E-D 4.0	3	2	50	11	4	4	
AM-3E-D 1.0	AM-2E-D 1.0	3	2	50	3	6	1	
AM-3E-D 1.5	AM-2E-D 1.5	3	2	50	4	6	1.5	
AM-3E-D 2.0	AM-2E-D 2.0	3	2	50	6	6	2	
AM-3E-D 2.5	AM-2E-D 2.5	3	2	50	7	6	2.5	
AM-3E-D 3.0	AM-2E-D 3.0	3	2	50	8	6	3	
AM-3E-D 3.5	AM-2E-D 3.5	3	2	50	10	6	3.5	
AM-3E-D 4.0S	AM-2E-D 4.0S	3	2	50	11	6	4	
AM-3EZ-D 4.0S	AM-2EZ-D 4.0S	3	2	60	16	6	4	
AM-3E-D 5.0S	AM-2E-D 5.0S	3	2	50	13	6	5	
AM-3EZ-D 5.0S	AM-2EZ-D 5.0S	3	2	60	20	6	5	
AM-3E-D 6.0	AM-2E-D 6.0	3	2	60	18	6	6	
AM-3E-D 6.0	AM-2EL-D 6.0	3	2	75	25	6	6	
AM-3EL-D 8.0	AM-2E-D 8.0	3	2	60	20	8	8	
AM-3EZ-D 8.0	AM-2EZ-D 8.0	3	2	75	30	8	8	
AM-3EL-D 8.0	AM-2EL-D 8.0	3	2	100	30	8	8	
AM-3E-D 10.0	AM-2E-D 10.0	3	2	75	30	10	10	
AM-3EL-D 10.0	AM-2EL-D 10.0	3	2	100	35	10	10	

● 为常备库存。此外，其它规格也可另行订制。 The "●" specifications are standing stock. In addition, other specifications can be customized.

AM 系列适合 ZAM Suitable series	被加工材料适用表 Test sheet for processed material									
	● 非常适合 fit as a pudding for a friar's mouth									
	● 适合 appropriate									
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC					
								●		

直柄平头立铣刀—AM

Straight shank flat end milling



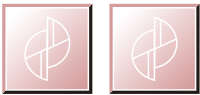
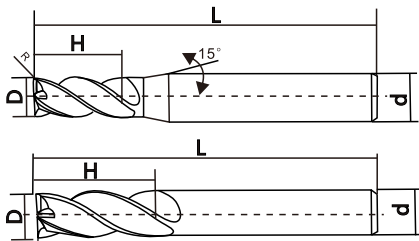
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions			
三刃订货号 Three edges order number	两刃订货号 Two edges order number			L	H	d (h6)	D (h9)
AM-3E-D 12.0	AM-2E-D 12.0	3	2	75	32	12	12
AM-3EL-D 12.0	AM-2EL-D 12.0	3	2	100	40	12	12
AM-3E-D 14.0	AM-2E-D 14.0	3	2	75	35	14	14
AM-3EL-D 14.0	AM-2EL-D 14.0	3	2	100	40	14	14
AM-3E-D 16.0	AM-2E-D 16.0	3	2	100	45	16	16
AM-3EL-D 16.0	AM-2EL-D 16.0	3	2	150	50	16	16
AM-3E-D 20.0	AM-2E-D 20.0	3	2	100	45	20	20
AM-3EL-D 20.0	AM-2EL-D 20.0	3	2	150	55	20	20

● 为常备库存。此外，其它规格也可另行订制。 The "●" specifications are standing stock. In addition, other specifications can be customized.

AM 系列适合 ZAM Suitable series	被加工材料适用表 Test sheet for processed material									
	● 非常合适 fit as a pudding for a friar's mouth									
	● 适合 appropriate									
	碳素钢 carbon steel	合金刚 Alloy steel	预硬钢、淬硬刚 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC				●	

直柄R铣刀—AM

Straight shank R end milling



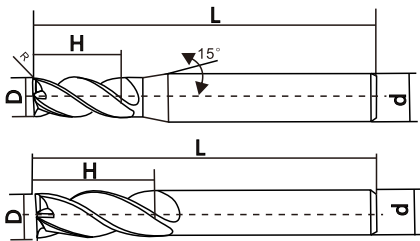
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
三刃订货号 Three edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
AM-3R-D 1.0S-R 0.2	AM-2R-D 1.0S-R 0.2	3	2	50	3	4	0.2	1	
AM-3R-D 2.0S-R 0.2	AM-2R-D 2.0S-R 0.2	3	2	50	6	4	0.2	2	
AM-3R-D 3.0S-R 0.2	AM-2R-D 3.0S-R 0.2	3	2	50	8	4	0.2	3	
AM-3R-D 3.0S-R 0.5	AM-2R-D 3.0S-R 0.5	3	2	50	8	4	0.5	3	
AM-3R-D 4.0S-R 0.3	AM-2R-D 4.0S-R 0.3	3	2	50	11	4	0.3	4	
AM-3R-D 1.0-R 0.2	AM-2R-D 1.0-R 0.2	3	2	50	3	6	0.2	1	
AM-3R-D 2.0-R 0.2	AM-2R-D 2.0-R 0.2	3	2	50	6	6	0.2	2	
AM-3R-D 3.0-R 0.2	AM-2R-D 3.0-R 0.2	3	2	50	8	6	0.2	3	
AM-3R-D 4.0-R 0.3	AM-2R-D 4.0-R 0.3	3	2	50	11	6	0.3	4	
AM-3R-D 6.0-R 0.3	AM-2R-D 6.0-R 0.3	3	2	60	18	6	0.3	6	
AM-3R-D 6.0-R 0.5	AM-2R-D 6.0-R 0.5	3	2	60	18	6	0.5	6	
AM-3R-D 6.0-R 1.0	AM-2R-D 6.0-R 1.0	3	2	60	18	6	1.0	6	
AM-3RL-D 6.0-R 1.0	AM-2RL-D 6.0-R 1.0	3	2	75	25	6	1.0	6	
AM-3R-D 8.0-R 0.3	AM-2R-D 8.0-R 0.3	3	2	60	20	8	0.3	8	
AM-3R-D 8.0-R 0.5	AM-2R-D 8.0-R 0.5	3	2	60	20	8	0.5	8	
AM-3R-D 8.0-R 1.0	AM-2R-D 8.0-R 1.0	3	2	60	20	8	1.0	8	
AM-3RL-D 8.0-R 1.0	AM-2RL-D 8.0-R 1.0	3	2	75	30	8	1.0	8	
AM-3R-D 10.0-R 0.5	AM-2R-D 10.0-R 0.5	3	2	75	30	10	0.5	10	
AM-3R-D 10.0-R 1.0	AM-2R-D 10.0-R 1.0	3	2	75	30	10	1.0	10	
AM-3R-D 10.0-R 2.0	AM-2R-D 10.0-R 2.0	3	2	75	35	10	2.0	10	
AM-3RL-D 10.0-R 1.0	AM-2RL-D 10.0-R 1.0	3	2	100	35	10	1.0	10	
AM-3RL-D 10.0-R 2.0	AM-2RL-D 10.0-R 2.0	3	2	100	35	10	2.0	10	
AM-3R-D 12.0-R 0.5	AM-2R-D 12.0-R 0.5	3	2	75	32	12	0.5	12	
AM-3R-D 12.0-R 1.0	AM-2R-D 12.0-R 1.0	3	2	75	32	12	1.0	12	

● 为常备库存。此外，其它规格也可另行订制。 The "●" specifications are standing stock. In addition, other specifications can be customized.

AM 系列适合 ZAM Suitable series	被加工材料适用表 Test sheet for processed material										
	● 非常适合 fit as a pudding for a friar's mouth										
	◎ 适合 appropriate										
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
			~40HRC	~50HRC	~55HRC				◎		

直柄R铣刀—AM

Straight shank R end milling



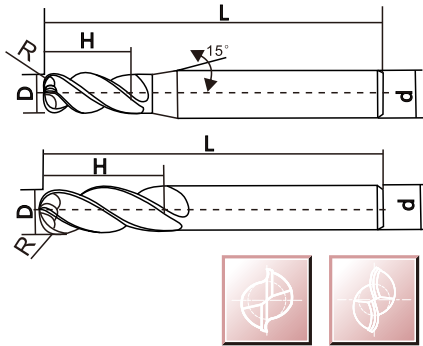
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
三刃订货号 Three edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R±0.02	D	
AM-3R-D 14.0-R 0.5	AM-2R-D 14.0-R 0.5	3	2	75	35	14	0.5	14	
AM-3R-D 14.0-R 1.0	AM-2R-D 14.0-R 1.0	3	2	75	35	14	1.0	14	
AM-3R-D 16.0-R 1.0	AM-2R-D 16.0-R 1.0	3	2	100	45	16	1.0	16	
AM-3R-D 16.0-R 2.0	AM-2R-D 16.0-R 2.0	3	2	100	45	16	2.0	16	
AM-3R-D 16.0-R 3.0	AM-2R-D 16.0-R 3.0	3	2	100	50	16	3.0	16	
AM-3RL-D 16.0-R 1.0	AM-2RL-D 16.0-R 1.0	3	2	150	50	16	1.0	16	
AM-3RL-D 16.0-R 2.0	AM-3424L-D 16.0-R 2.0	3	2	150	50	16	2.0	16	
AM-3RL-D 16.0-R 3.0	AM-2RL-D 16.0-R 3.0	3	2	150	45	16	3.0	16	
AM-3R-D 18.0-R 1.0	AM-2R-D 18.0-R 1.0	3	2	100	45	18	1.0	18	
AM-3R-D 18.0-R 2.0	AM-2R-D 18.0-R 2.0	3	2	100	45	18	2.0	18	
AM-3R-D 20.0-R 1.0	AM-2R-D 20.0-R 1.0	3	2	100	45	20	1.0	20	
AM-3R-D 20.0-R 2.0	AM-2R-D 20.0-R 2.0	3	2	100	45	20	2.0	20	
AM-3R-D 20.2-R 3.0	AM-2R-D 20.2-R 3.0	3	2	100	45	20	3.0	20	
AM-3RL-D 20.0-R 1.0	AM-2RL-D 20.0-R 1.0	3	2	150	55	20	1.0	20	
AM-3RL-D 20.0-R 2.0	AM-2RL-D 20.0-R 2.0	3	2	150	55	20	2.0	20	
AM-3RL-D 20.0-R 3.0	AM-2RL-D 20.0-R 3.0	3	2	150	55	20	3.0	20	

● 为常备库存。此外，其它规格也可另行订制。 The "●" specifications are standing stock. In addition, other specifications can be customized.

AM 系列适合 ZAM Suitable series	被加工材料适用表 Test sheet for processed material									
	● 非常适合 fit as a pudding for a friar' s mouth									
	◎ 适合 appropriate									
	碳素钢 carbon steel	合金刚 Alloy steel	预硬钢、淬硬刚 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy
			~40HRC	~50HRC	~55HRC				◎	

直柄球头铣刀—AM

Straight shank ball end milling



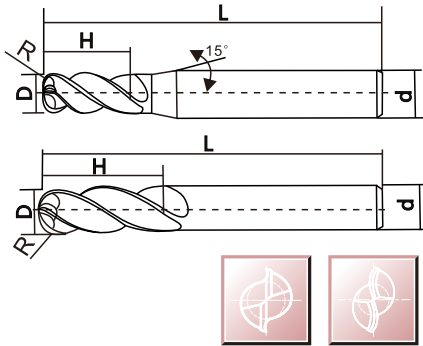
订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D	
AM-4B-R 0.5S	AM-2B-R 0.5S	4	2	50	2	4	0.5	1	
AM-4B-R 0.75S	AM-2B-R 0.75S	4	2	50	3	4	1.75	1.5	
AM-4B-R 1.0S	AM-2B-R 1.0S	4	2	50	4	4	1.0	2	
AM-4B-R 1.25S	AM-2B-R 1.25S	4	2	50	5	4	1.25	2.5	
AM-4B-R 1.5S	AM-2B-R 1.5S	4	2	50	6	4	1.5	3	
AM-4B-R 2.0S	AM-2B-R 2.0S	4	2	50	8	4	2.0	4	
AM-4B-R 1.75S	AM-2B-R 1.75S	4	2	50	7	4	1.75	3.5	
AM-4B-R 0.5	AM-2B-R 0.5	4	2	50	2	6	0.5	1	
AM-4B-R 0.75	AM-2B-R 0.75	4	2	50	3	6	1.75	1.5	
AM-4B-R 1.0	AM-2B-R 1.0	4	2	50	4	6	1.0	2	
AM-4B-R 1.25	AM-2B-R 1.25	4	2	50	5	6	1.25	2.5	
AM-4B-R 1.5	AM-2B-R 1.5	4	2	50	6	6	1.5	3	
AM-4B-R 1.75	AM-2B-R 1.75	4	2	50	7	6	1.75	3.5	
AM-4B-R 2.0	AM-2B-R 2.0	4	2	60	8	6	2.0	4	
AM-4B-R 2.5	AM-2B-R 2.5	4	2	60	10	6	2.5	5	
AM-4B-R 3.0	AM-2B-R 3.0	4	2	60	12	6	3.0	6	
AM-4BL-R 3.0	AM-2BL-R 3.0	4	2	75	12	6	3.0	6	
AM-4B-R 4.0	AM-2B-R 4.0	4	2	60	16	8	4.0	8	
AM-4BZ-R 4.0	AM-2BZ-R 4.0	4	2	75	16	8	4.0	8	
AM-4BL-R 4.0	AM-2BL-R 4.0	4	2	100	16	8	4.0	8	
AM-4B-R 5.0	AM-2B-R 5.0	4	2	75	20	10	5.0	10	
AM-4BL-R 5.0	AM-2BL-R 5.0	4	2	100	20	10	5.0	10	
AM-4B-R 6.0	AM-2B-R 6.0	4	2	75	24	12	6.0	12	
AM-4BL-R 6.0	AM-2BL-R 6.0	4	2	100	24	12	6.0	12	

●为常备库存。此外，其它规格也可另行订制。 The “●”specifications are standing stock. In addition, other specifications can be customized.

AM 系列适合 ZAM Suitable series	被加工材料适用表 Test sheet for processed material										
	☺ 非常合适 fit as a pudding for a friar's mouth						☺ 适合 appropriate				
	碳素钢 carbon steel	合金刚 Alloy steel	预硬钢、淬硬刚 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resisting alloy
			~40HRC	~50HRC	~55HRC						
								☺			

直柄球头铣刀—AM

Straight shank ball end milling



订货号 Order number		齿数Z The number of teeth		基本尺寸 (mm) Basic dimensions					
四刃订货号 Four edges order number	两刃订货号 Two edges order number			L	H	d (h6)	R	D (h9)	
AM-4B-R 7.0	AM-2B-R 7.0	4	2	75	28	14	7.0	14	
AM-4BL-R 7.0	AM-2BL-R 7.0	4	2	100	28	14	7.0	14	
AM-4B-R 8.0	AM-2B-R 8.0	4	2	100	32	16	8.0	16	
AM-4BL-R 8.0	AM-2BL-R 8.0	4	2	150	32	16	8.0	16	
AM-4B-R 9.0	AM-2B-R 9.0	4	2	100	36	18	9.0	18	
AM-4BL-R 9.0	AM-2BL-R 9.0	4	2	150	36	18	9.0	18	
AM-4B-R 10.0	AM-2B-R 10.0	4	2	100	40	20	10.0	20	
AM-4BL-R 10.0	AM-2BL-R 10.0	4	2	150	40	20	10.0	20	

●为常备库存。此外，其它规格也可另行订制。 The “●”specifications are standing stock. In addition, other specifications can be customized.

AM 系列适合 ZAM Suitable series	被加工材料适用表 Test sheet for processed material										
	☉ 非常适合 fit as a pudding for a friar's mouth										
	☉ 适合 appropriate										
	碳素钢 carbon steel	合金钢 Alloy steel	预硬钢、淬硬钢 Pre hardened steel, hardened steel			不锈钢 stainless steel	铸铁球墨铸铁 Cast iron nodular cast iron	铜合金 copper alloy	铝合金 aluminium alloy	钛合金 titanium alloy	耐热合金 heat-resist alloy
			~40HRC	~50HRC	~55HRC						
								☉			