



哈工®

哈尔滨工具厂第一分厂

HARBIN TOOLS WORKS FIRST BRANCH

- ◆ 可转位齿轮滚刀
- ◆ 可转位齿轮铣刀
- ◆ 克林贝尔格硬切刀
- ◆ 可转位平面铣刀
- ◆ 可转位槽铣刀
- ◆ 可转位插补镗铣刀
- ◆ 可转位两面刃铣刀
- ◆ 可转位螺旋铣刀
- ◆ 可转位专用铣刀



企业简介

INTRODUCTION TO ENTERPRISE

哈尔滨工具厂第一分厂始建于1990年，是一家以生产齿轮加工刀具为主的现代化企业，主要产品“哈工牌”可转位硬质合金齿轮滚刀、可转位齿轮粗精加工盘铣刀、克林贝尔格硬切刀和可转位铣削刀具，其中可转位硬质合金齿轮滚刀全国首家生产，克林贝尔格硬切刀和可转位齿轮滚刀于2011年获国家专利。

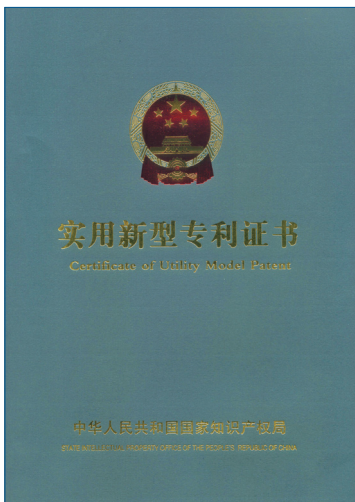
可转位齿轮滚刀是针对现代高效滚齿机缺乏相应刀具而设计的一种既能提高加工效率，又能反复使用的长寿滚刀，主要应用于中大齿轮加工行业。可转位硬质合金齿轮粗、精加工盘铣刀广泛应用于风电和回转支撑等领域。可转位铣削刀具主要应用于航空航天、铁路、风电、机床、模具等领域，深受用户好评。

欢迎国内外新老用户前来洽谈贸易、交流技术、共创辉煌。

The Harbin Tools works first branch was founded in 1990, is a modern enterprise mainly the production of gear cutting tools, the main product "Ha Gong brand" indexable carbide gear hobs, coarse and fine bit gear can be transferred processing disc cutter, Klingelberg's hard cutter and indexable milling tools, which can be transferred Carbide the gear hob first national production, Klingelberg's hard cutter and indexable gear hobs in 2011 by the national patent.

The indexable gear hobs lack of appropriate tools designed for modern high-efficiency gear hobbing one can not only improve the processing efficiency, longevity hob and can be used repeatedly, Mainly used in large gear processing industry can be transferred to bit carbide gear crude, finishing disk cutter is widely used indexable milling tools in the field of wind power and slewing, mainly used in the aerospace, rail, wind power, machine tools, molds, and other fields, praised by users.

Welcome new and old customers at home and abroad to negotiate trade, exchange of technology, create brilliant.



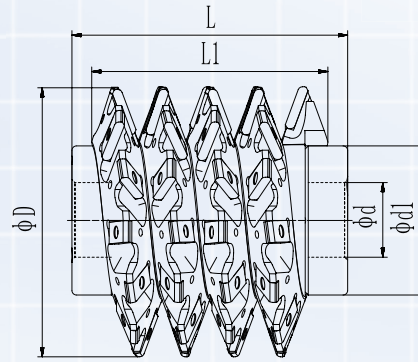
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可转位标准滚刀

HOBS



模数 Module	型号 Type	D	d	齿圈模块数 NO. of segments	L1	L	d1	齿形类型 Overlapping Form
6	HGLM6-215	215	60	6	113	183	125	A
	HGLM6-240	240	60	6	113	183	160	
7	HGLM7-215	215	60	6	132	200	125	A
	HGLM7-240	240	60	6	132	200	160	
8	HGLM8-215	215	60	6	151	220	125	A
	HGLM8-240	240	60	6	151	220	160	
	HGLM8-270	270	80	6	151	220	180	
9	HGLM9-215	215	60	6	169	240	125	A
	HGLM9-240	240	60	6	169	240	160	
	HGLM9-270	270	80	6	169	240	180	
10	HGLM10-215	215	60	6	189	258	125	B
	HGLM10-240	240	60	6	189	258	160	
	HGLM10-270	270	80	6	189	258	180	
12	HGLM12-240	240	80	6	226	302	140	B
	HGLM12-270	270	80	6	226	302	180	
	HGLM12-350	350	80	6	226	302	240	
14	HGLM14-270	270	80	6	264	338	180	B
	HGLM14-350	350	80	6	264	338	240	
16	HGLM16-270	270	80	6	302	380	160	B
	HGLM16-350	350	80	6	302	380	220	
18	HGLM18-270	270	80	5	283	355	145	B
	HGLM18-350	350	80	5	283	355	220	
20	HGLM20-350	350	80	5	314	386	220	B
	HGLM20-450	450	80	5	314	386	270	

标准滚刀，单头右手螺旋，依据 GB/T6084-2001 标准，B 级精度等级。左手螺旋，A 级精度等级滚刀需定制。

Hobs are generally produced in a single thread right-hand design in class B according to GB/T6084-2001. Hobs in class A respectively left-hand design on request.

刀具配件

SPARE PARTS

刀片螺钉 / Insert screw

HD50-90



刀片螺钉 / Insert screw

HD50-120



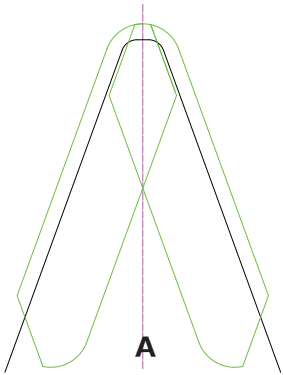
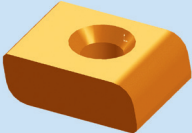
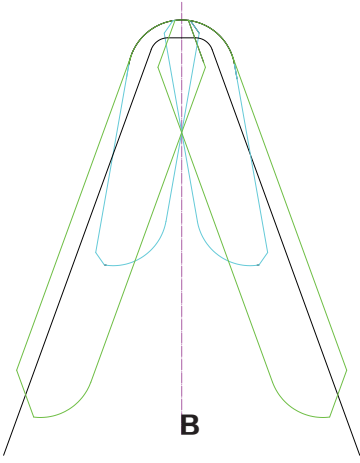
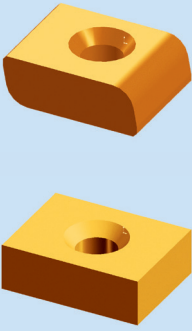
刀片螺钉 / Insert screw

HD50-160



刀片

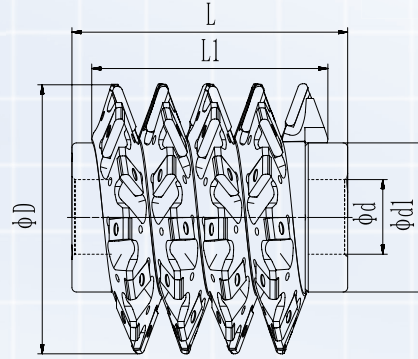
INSERTS

齿形类型 Overlapping Form	刀片 Inserts	刀片尺寸 Inserts Dimension
		<p>刀片尺寸按用户使用要求进行优化设计</p> <p>Inserts size according to user's requirements for optimization design</p>
		<p>刀片尺寸按用户使用要求进行优化设计</p> <p>Inserts size according to user's requirements for optimization design</p>

刀片合金牌号 : YC30S
 Insert available in grade: YC30S

可转位留磨滚刀

ROUGHING HOBS WITH PROTUBERANCE



模数 Module	型号 Type	D	d	齿圈模块数 NO. of segments	L1	L	d1	齿形类型 Overlapping Form
6	HGLM6-215	215	60	6	113	183	125	A
	HGLM6-240	240	60	6	113	183	160	
7	HGLM7-215	215	60	6	132	200	125	A
	HGLM7-240	240	60	6	132	200	160	
8	HGLM8-215	215	60	6	151	220	125	A
	HGLM8-240	240	60	6	151	220	160	
	HGLM8-270	270	80	6	151	220	180	
9	HGLM9-215	215	60	6	169	240	125	A
	HGLM9-240	240	60	6	169	240	160	
	HGLM9-270	270	80	6	169	240	180	
10	HGLM10-215	215	60	6	189	258	125	B
	HGLM10-240	240	60	6	189	258	160	
	HGLM10-270	270	80	6	189	258	180	
12	HGLM12-240	240	80	6	226	302	140	B
	HGLM12-270	270	80	6	226	302	180	
	HGLM12-350	350	80	6	226	302	240	
14	HGLM14-270	270	80	6	264	338	180	B
	HGLM14-350	350	80	6	264	338	240	
16	HGLM16-270	270	80	6	302	380	160	C
	HGLM16-350	350	80	6	302	380	220	
18	HGLM18-270	270	80	5	283	355	145	C
	HGLM18-350	350	80	5	283	355	220	
20	HGLM20-350	350	80	5	314	386	220	C
	HGLM20-450	450	80	5	314	386	270	

标准滚刀，单头右手螺旋，依据 GB/T6084-2001 标准，B 级精度等级。左手螺旋，A 级精度等级滚刀需定制。

Hobs are generally produced in a single thread right-hand design in class B according to GB/T6084-2001. Hobs in class A respectively left-hand design on request.

刀具配件

SPARE PARTS

刀片螺钉 / Insert screw

HD50-90



刀片螺钉 / Insert screw

HD50-120



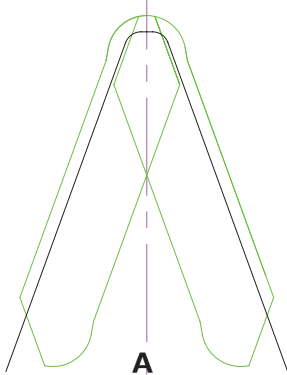
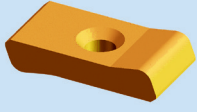
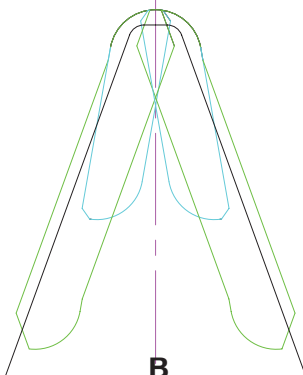
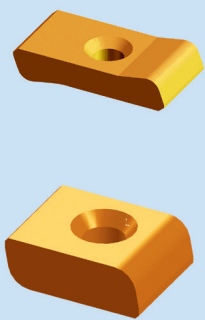
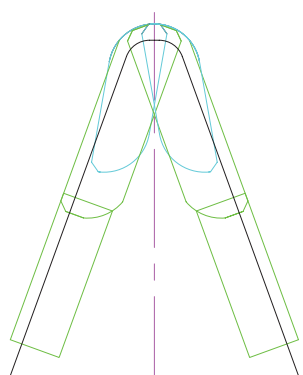
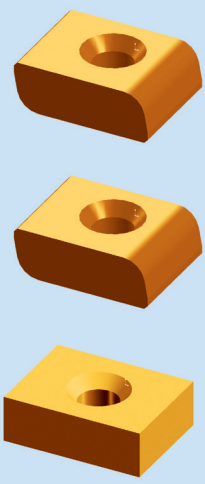
刀片螺钉 / Insert screw

HD50-160



刀片

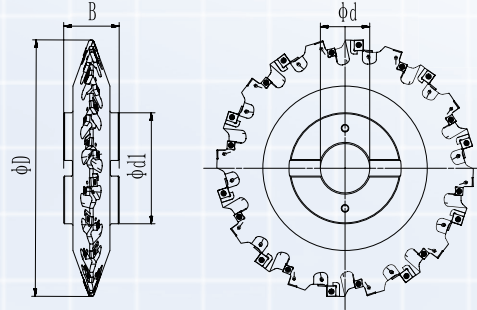
INSERTS

齿形类型 Overlapping Form	刀片 Inserts	刀片尺寸 Inserts Dimension
 <p style="text-align: center;">A</p>		<p>刀片尺寸按用户使用要求进行优化设计 Inserts size according to user's requirements for optimization design</p>
 <p style="text-align: center;">B</p>		<p>刀片尺寸按用户使用要求进行优化设计 Inserts size according to user's requirements for optimization design</p>
 <p style="text-align: center;">C</p>		<p>刀片尺寸按用户使用要求进行优化设计 Inserts size according to user's requirements for optimization design</p>

刀片合金牌号 : YC30S
Insert available in grade: YC30S

可转位齿轮粗铣刀

ROUGHING GASHER



模数 Module	型号 Type	D	d	B	d1	齿形类型 Over lapping Form
6	HGCM6-300	300	50	50	120	A
	HGCM6-350	350	60	50	140	
	HGCM6-400	400	80	70	170	
8	HGCM8-300	300	50	50	120	B
	HGCM8-350	350	60	50	140	
	HGCM8-400	400	80	70	170	
10	HGCM10-300	300	50	60	120	B
	HGCM10-350	350	60	60	140	
	HGCM10-400	400	80	70	170	
12	HGCM12-300	300	50	70	120	B
	HGCM12-350	350	60	70	140	
	HGCM12-450	450	80	90	170	
14	HGCM14-300	300	60	70	120	B
	HGCM14-400	400	60	70	140	
	HGCM14-450	450	80	90	170	
16	HGCM16-350	350	60	90	140	B
	HGCM16-400	400	80	90	170	
	HGCM16-450	450	100	90	190	
18	HGCM18-350	350	60	90	140	B
	HGCM18-400	400	80	90	170	
	HGCM18-450	450	100	90	190	
20	HGCM20-400	400	60	90	130	B
	HGCM20-450	450	100	90	190	
22	HGCM22-400	400	80	90	170	B
	HGCM22-450	450	100	90	190	
24	HGCM24-400	400	80	100	170	B
	HGCM24-450	450	100	100	190	
26	HGCM26-400	400	80	120	170	B
	HGCM26-450	450	100	120	190	
28	HGCM28-400	400	80	120	170	C
	HGCM28-450	450	100	120	190	
30	HGCM30-400	400	80	120	170	C
	HGCM30-450	450	100	120	190	
32	HGCM32-400	400	80	120	190	C
34	HGCM34-400	400	80	120	190	C
36	HGCM36-400	400	80	140	190	C

刀具配件

SPARE PARTS

刀片螺钉 / Insert screw

HD50-90



刀片螺钉 / Insert screw

HD50-120



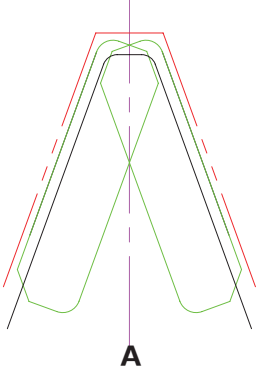
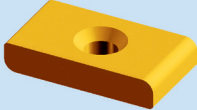
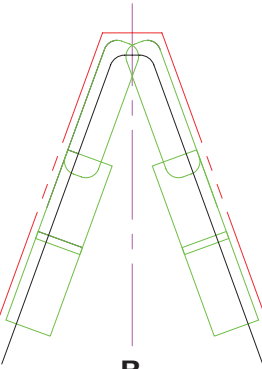
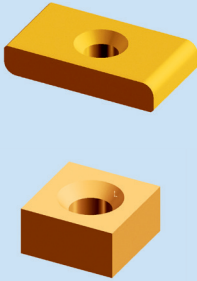
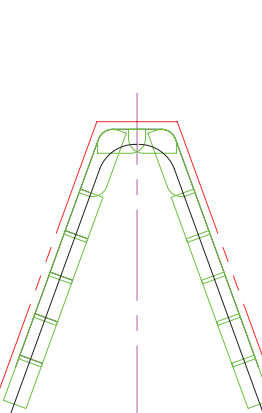
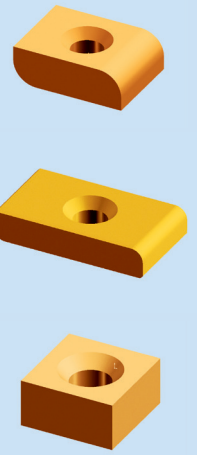
刀片螺钉 / Insert screw

HD50-160



刀片

INSERTS

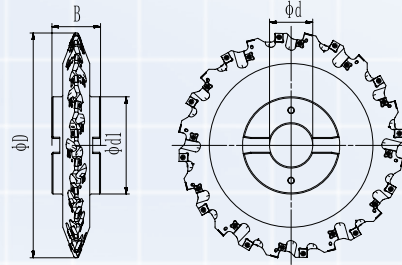
齿形类型 Overlapping Form	刀片 Inserts	刀片尺寸 Inserts Dimension
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 <p style="text-align: center;">B</p>		<p style="text-align: center;">19.05X14.3X4.76 19.05X14.3X6.35 12.7X12.7X6.35 19.05X14.3X6.35</p>
 <p style="text-align: center;">C</p>		<p style="text-align: center;">12.7X12.7X6.35</p> <p style="text-align: center;">19.05X14.3X6.35 19.05X14.3X7.94 19.05X14.3X9.52</p> <p style="text-align: center;">12.7X12.7X6.35 19.05X14.3X6.35</p>

刀片合金牌号 :YC30S
Insert available in grade: YC30S

刀片尺寸根据实际情况选用, 或根据用户要求选用
The Inserts size is selected according to the practical situation, or selected according to user requirements.

可转位齿轮半精铣刀

SEMI_FINISHING GASHER



模数 Module	型号 Type	D	d	B	d1	齿形类型 Overlapping Form
6	HGBJM6-300	300	80	90	160	A B
	HGBJM6-360	360	80	90	170	
	HGBJM6-420	420	80	90	180	
8	HGBJM8-300	300	80	90	160	A B
	HGBJM8-360	360	80	90	170	
	HGBJM8-420	420	80	90	180	
10	HGBJM10-300	300	80	90	160	A B
	HGBJM10-360	360	80	90	170	
	HGBJM10-420	420	80	90	180	
12	HGBJM12-300	300	80	90	160	A B
	HGBJM12-360	360	80	90	170	
	HGBJM12-420	420	80	90	180	
14	HGBJM14-300	300	80	90	160	A B C
	HGBJM14-360	360	80	90	170	
	HGBJM14-420	420	80	90	180	
16	HGBJM16-360	360	80	90	170	A B C
	HGBJM16-420	420	80	90	180	
18	HGBJM18-360	360	80	90	170	A B C
	HGBJM18-420	420	80	90	180	
20	HGBJM20-420	420	80	90	180	A B C
22	HGBJM22-420	420	80	90	180	A B C

刀具配件

SPARE PARTS

刀片螺钉 / Insert screw

HD50-90



刀片螺钉 / Insert screw

HD50-120



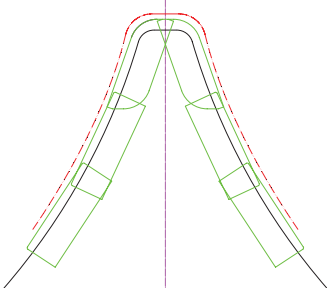
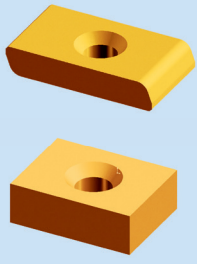
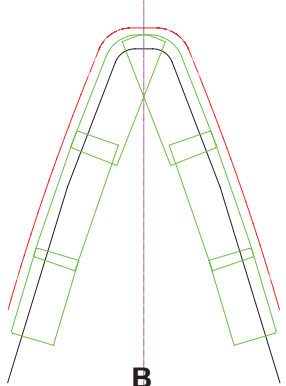
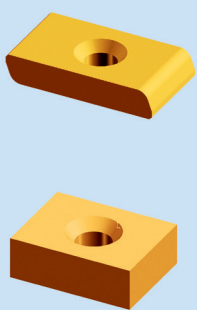
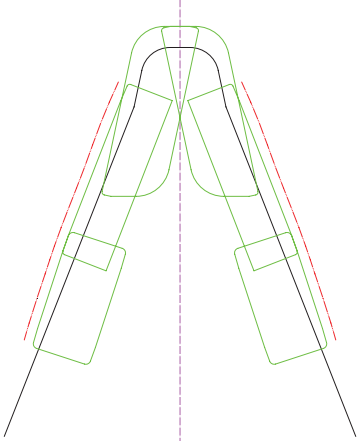
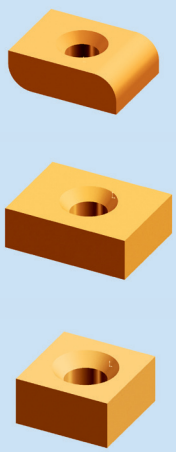
刀片螺钉 / Insert screw

HD50-160



刀片

INSERTS

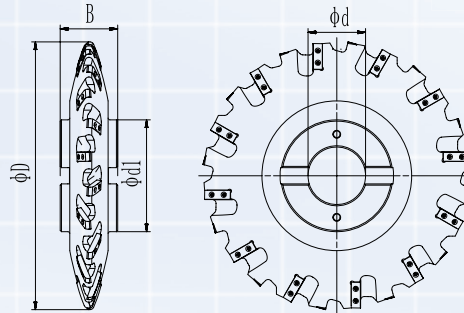
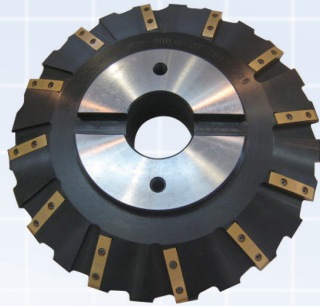
齿形类型 Overlapping Form	刀片 Inserts	刀片尺寸 Inserts dimension
 <p style="text-align: center;">A</p>		<p>19.05x14.3x6.35 25.4x14.3x4.76 25.4x14.3x6.35 12.7X12.7X6.35 19.05X14.3X6.35</p>
 <p style="text-align: center;">B</p>		<p>19.05x14.3x6.35 25.4x14.3x4.76 25.4x14.3x6.35 12.7X12.7X6.35 19.05X14.3X6.35</p>
 <p style="text-align: center;">C</p>		<p>19.05X14.3X6.35 28.75X14.3X9.53 19.05X14.3X6.35 28.75X14.3X6.35 25.4X14.3X6.35 12.7X12.7X6.35 19.05X14.3X6.35</p>

刀片合金牌号 : YC30S
Insert available in grade: YC30S

刀片尺寸根据实际情况选用, 或根据用户要求选用
The Inserts size is selected according to the practical situation, or selected according to user requirements.

可转位齿轮内精铣刀

FINISHING GASHER (INTERNAL)



模数 Module	型号 Type	D	d	B	d1	齿形类型 Overlapping Form
6	HGNJM6-300	300	80	90	160	A B
	HGNJM6-360	360	80	90	170	
	HGNJM6-420	420	80	90	180	
8	HGNJM8-300	300	80	90	160	A B
	HGNJM8-360	360	80	90	170	
	HGNJM8-420	420	80	90	180	
10	HGNJM10-300	300	80	90	160	A B
	HGNJM10-360	360	80	90	170	
	HGNJM10-420	420	80	90	180	
12	HGNJM12-300	300	80	90	160	A B
	HGNJM12-360	360	80	90	170	
	HGNJM12-420	420	80	90	180	
14	HGNJM14-300	300	80	90	160	A B
	HGNJM14-360	360	80	90	170	
	HGNJM14-420	420	80	90	180	
16	HGNJM16-360	360	80	90	170	A B
	HGNJM16-420	420	80	90	180	
18	HGNJM18-360	360	80	90	170	A B
	HGNJM18-420	420	80	90	180	
20	HGNJM20-420	420	80	90	180	A B
22	HGNJM22-420	420	80	90	180	A B

刀具配件

SPARE PARTS

刀片螺钉 / Insert screw

HD50-90



刀片螺钉 / Insert screw

HD50-120



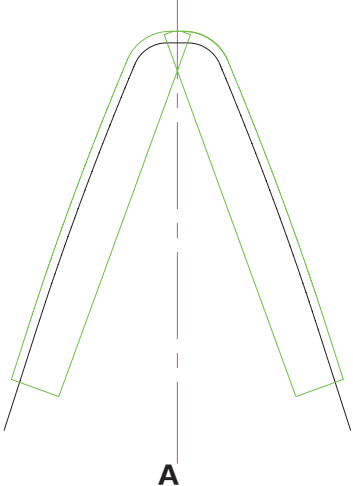
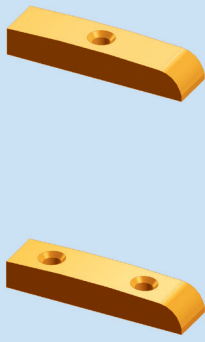
刀片螺钉 / Insert screw

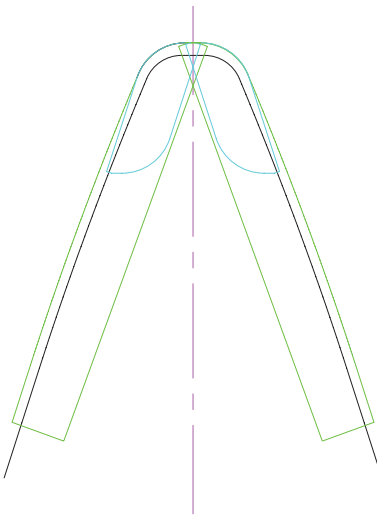
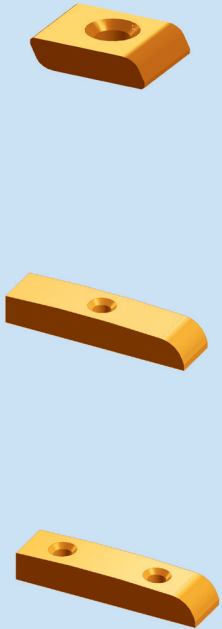
HD50-160



刀片

INSERTS

齿形类型 Overlapping Form	刀片 Inserts	刀片尺寸 Inserts dimension
 <p style="text-align: center;">A</p>		<p>19.05X14.3X4 28.26X14.3X6.35 38.1X14.3X7.14 38.1X14.3X7.94</p> <p>44.45X14.3X8.72 50.8X14.3X9.53 57.1X14.3X9.53 66.7X14.3X9.53</p>

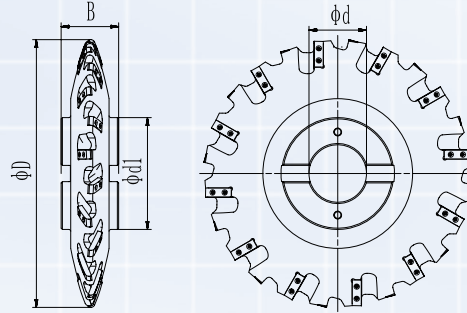
 <p style="text-align: center;">B</p>		<p>19.05X14.3X3.81 19.05X14.3X4.76 19.05X14.3X6.35 25.4X14.3X6.35 28.58X14.3X9.53 31.8X14.3X7.14</p> <p>19.05X14.3X4 28.26X14.3X6.35 38.1X14.3X7.14 38.1X14.3X7.94</p> <p>44.45X14.3X8.72 50.8X14.3X9.53 57.1X14.3X9.53 66.7X14.3X9.53</p>
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刀片合金牌号 :YC30S
Insert available in grade: YC30S

齿侧刀片依据齿轮廓磨制
Design of flank inserts depends on gear data

可转位齿轮外精铣刀

FINISHING GASHER (EXTERNAL)



模数 Module	型号 Type	D	d	B	d1	齿形类型 Overlapping Form
6	HGWJM6-300	300	80	90	160	A B
	HGWJM6-360	360	80	90	170	
	HGWJM6-420	420	80	90	180	
8	HGWJM8-300	300	80	90	160	A B
	HGWJM8-360	360	80	90	170	
	HGWJM8-420	420	80	90	180	
10	HGWJM10-300	300	80	90	160	A B
	HGWJM10-360	360	80	90	170	
	HGWJM10-420	420	80	90	180	
12	HGWJM12-300	300	80	90	160	A B
	HGWJM12-360	360	80	90	170	
	HGWJM12-420	420	80	90	180	
14	HGWJM14-300	300	80	90	160	A B
	HGWJM14-360	360	80	90	170	
	HGWJM14-420	420	80	90	180	
16	HGWJM16-360	360	80	90	170	A B
	HGWJM16-420	420	80	90	180	
18	HGWJM18-360	360	80	90	170	A B
	HGWJM18-420	420	80	90	180	
20	HGWJM20-420	420	80	90	180	A B
22	HGWJM22-420	420	80	90	180	A B

刀具配件

SPARE PARTS

刀片螺钉 / Insert screw

HD50-90



刀片螺钉 / Insert screw

HD50-120



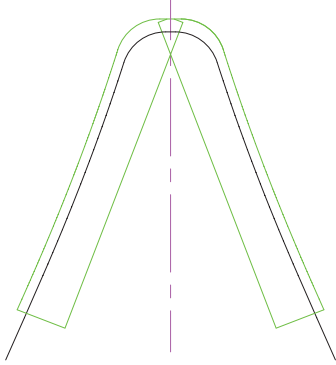
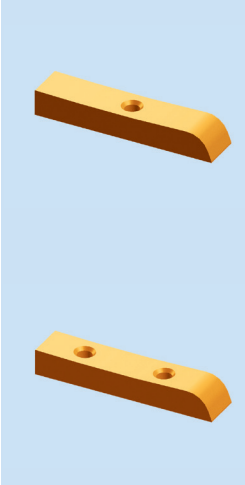
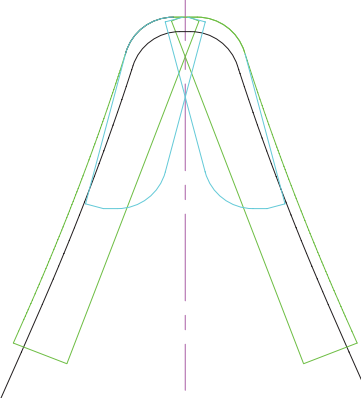

刀片螺钉 / Insert screw

HD50-160



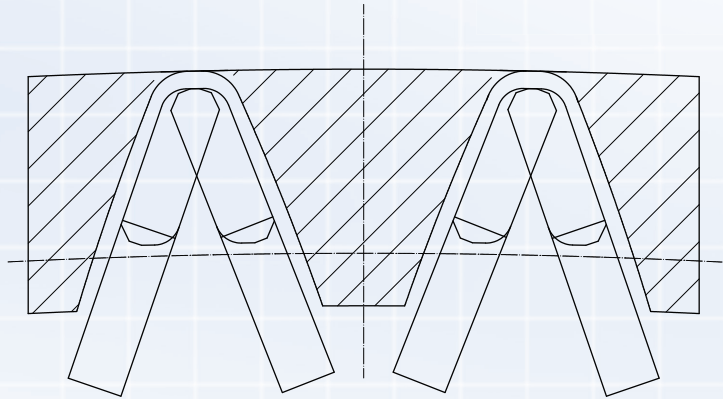
刀片

INSERTS

齿形类型 Overlapping Form	刀片 Inserts	刀片尺寸 Inserts dimension
 <p style="text-align: center;">A</p>		<p>19.05X14.3X4 28.26X14.3X6.35 38.1X14.3X7.14 38.1X14.3X7.94</p> <p>44.45X14.3X8.72 50.8X14.3X9.53 57.1X14.3X9.53 66.7X14.3X9.53</p>
 <p style="text-align: center;">B</p>		<p>19.05X14.3X3.81 19.05X14.3X4.76 19.05X14.3X6.35 25.4X14.3X6.35 28.58X14.3X9.53 31.8X14.3X7.14</p> <p>19.05X14.3X4 28.26X14.3X6.35 38.1X14.3X7.14 38.1X14.3X7.94</p> <p>44.45X14.3X8.72 50.8X14.3X9.53 57.1X14.3X9.53 66.7X14.3X9.53</p>

可转位双圆盘齿轮粗铣刀

DUPLEX-ROUGHING TOOLS

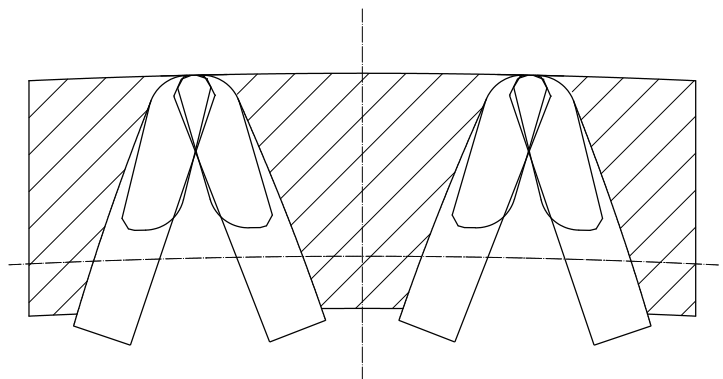


双圆盘粗铣刀可同时加工两个齿槽，刀片交错排列，使得粗加工的效率大大提升

Duples-roughing tools can process two tooth at the same trme the blade staggered,to enhance the maching efficiency

可转位双圆盘齿轮精铣刀

DUPLEX-FINISHING TOOLS

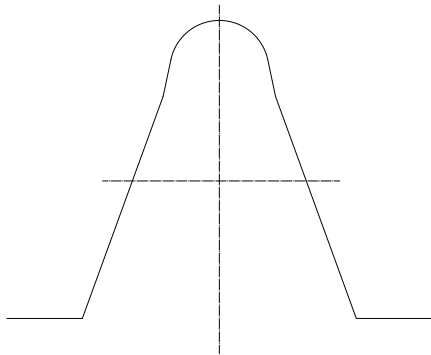


双圆盘精铣刀可同时加工两个渐开线齿槽，主齿的特殊渐开线设计搭配副齿的齿顶加工，更高效、更经济。

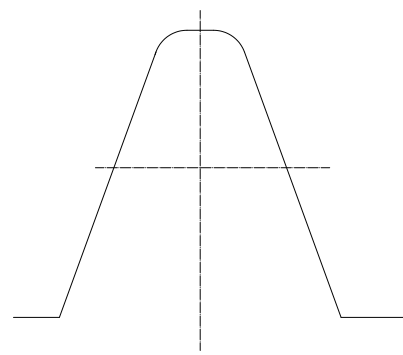
It can machine two involute tooth at the same time,the special design,more efficient and more economic

双头可转位齿轮滚刀

DOUBLE HOB



粗加工
Roughing



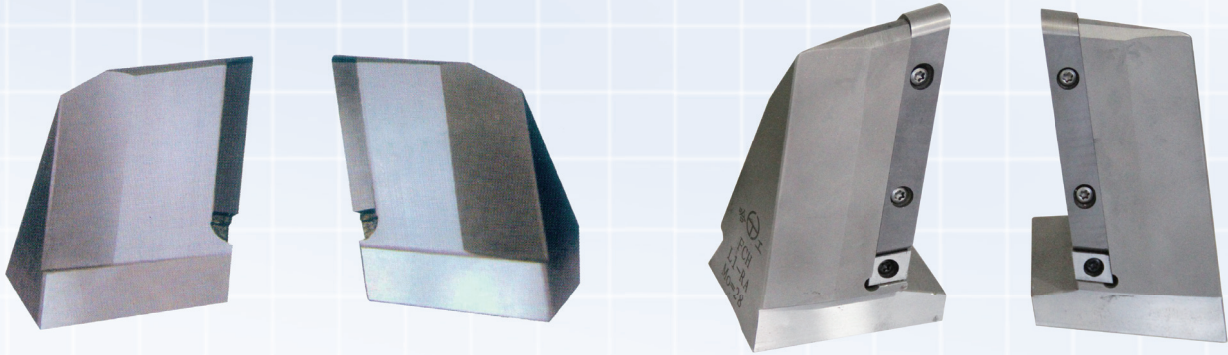
精加工
Finishing

M6-M12
留磨滚刀可定制双头
标准滚刀精度可达 A 级

M6-M12
Double hob can made for roughing hobs
Standard hob reach A Class

克林贝尔格硬切刀

INDEXABLE CYLINDRICAL GEAR PRE-GRINDING HOB



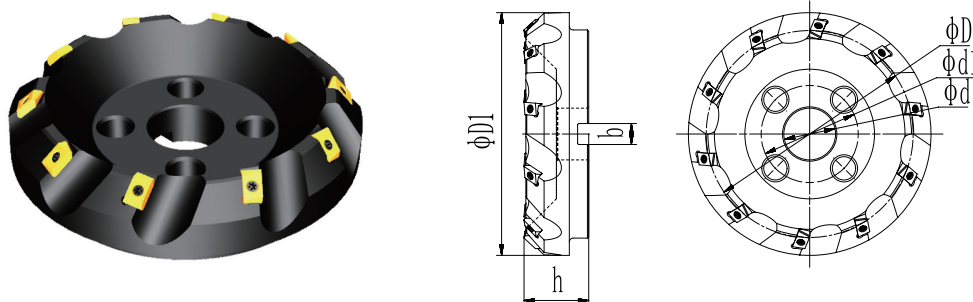
型号 Type	模数 Module	型号 Type	模数 Module	型号 Type	模数 Module	
R100	M2.6	R170	M7	R260	M8	
	M3.2		M8		M10	
	M4		M10		M12	
	M5		M12		M14	
R135	M4	R210	M8		GMC160	M17
	M5		M10	M10		
	M6		M12	M12		
	M7		M14	M14		
						M17
						M24
						M28

克林贝尔格硬切刀适用于克林贝尔格机床对螺旋伞齿轮淬火后的精加工。
 刀刃采用CBN复合片与刀体整体焊接，具有刚性好、一致性好的特点。加工出的齿轮接触区好，光洁度高。

Klingenberg HPG cutting blade is for Klingenberg cyclo palloid geometry finishing spiral bevel gear after heat treatment.
 Cutting edge with CNB and welded the whole body, with the features of consistency and rigidity. The gear area is good, finish high.

可转位平面粗铣刀 (主偏角 45°、轴向正前角、径向负前角)

INDEXABLE FACE ROUGH MILLS (main declination angle 45°, axial positive rake angle, radial negative rake angle)



型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts	接口形式 Mounting type
	D	h	D1	d	b	d1		
HGMA100-LSE323	100	50	127.6	32	14.3	—	8	B
HGMA100L-LSE323	100	50	127.6	32	14.3	—	8	B
HGMA125-LSE323	125	50	152.6	40	16.2	—	9	B
HGMA125L-LSE323	125	50	152.6	40	16.2	—	9	B
HGMA160-LSE323	160	50	187.6	40	16.2	—	10	B
HGMA160L-LSE323	160	50	187.6	40	16.2	—	10	B
HGMA200-LSE323	200	63	227.6	60	25.7	101.6	12	C
HGMA200L-LSE323	200	63	227.6	60	25.7	101.6	12	C
HGMA250-LSE323	250	63	277.6	60	25.7	101.6	14	C
HGMA250L-LSE323	250	63	277.6	60	25.7	101.6	14	C

HGMA...LSE323 系列, 最大切深 7mm, 为正负前角铣刀, 适用于小功率机床或小切深铣削。用于粗加工钢、铸铁及灰口铸铁等材料。

Series HGMA...LSE32 is suitable for small power machine or small cutting depth milling. The maximum cutting depth is 7mm, It's positive and negative rake angle milling cutters for roughing of steel, cast iron and gray cast iron materials.

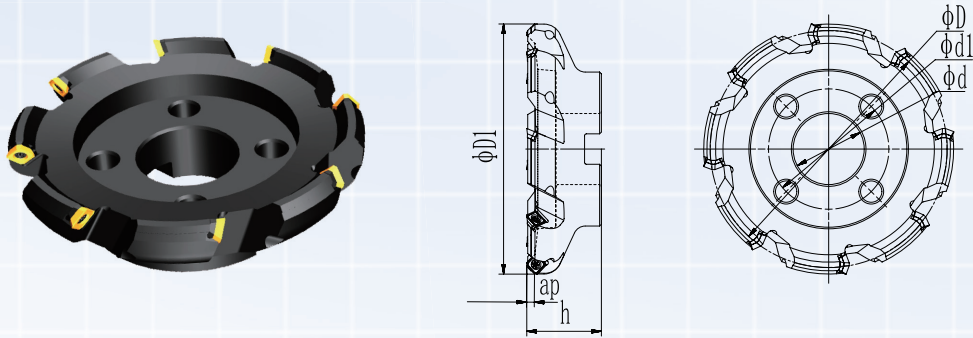
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
Φ100-Φ250	LSE323R02		HD40	HT15
Φ100L-Φ250L	LSE323L02			

可转位平面铣刀 (主偏角 45°、有刀垫)

INDEXABLE FACE MILLS (main declination angle 45° with parallel)



型号 Type	基本尺寸 Basic dimension					齿数 Number of inserts			接口形式 Mounting type
	D	D1	d	h	最大 Max ap	V	W	X	
HGMA050-SEET	50	62.5	22	40	6.0	3	4	5	A
HGMA063-SEET	63	75.5	22	40	6.0	4	5	6	A
HGMA080-SEET	80	92.5	27	50	6.0	4	6	8	B
HGMA100-SEET	100	112.5	32	50	6.0	5	7	10	B
HGMA125-SEET	125	137.5	40	63	6.0	6	8	12	B
HGMA160-SEET	160	172.5	40	63	6.0	7	10	16	C
HGMA200-SEET	200	212.5	60	63	6.0	8	12	20	C
HGMA250-SEET	250	262.5	60	63	6.0	10	14	24	C

HGMA...SEET 系列, 最大切深 6mm, 切削力小。适用于加工中心、中小型铣床上加工钢、不锈钢、铸铁、铝、钛合金等材料, 进行普通面铣、45° 倒角铣等加工。硬质合金刀垫有利于保护刀体, 提高刀体的寿命。该铣刀 V\W\X 三种不同齿数, 订货时请注明粗齿 V, 中齿 W, 细齿 X。

Series HGMA...SEET, is suitable for CNC, small and medium-sized milling machining to face mill and 45° chamfer mill steel, stainless steel, cast iron, aluminum, titanium and other materials, the maximum cutting depth is 6mm, power of cutting is small. Carbide parallel helps to protect the cutter body and improve the life of the cutter body. The cutter has three different number of teeth V \ W \ X, please specify when order, roughing teeth V, middle teeth W, finishing teeth X.

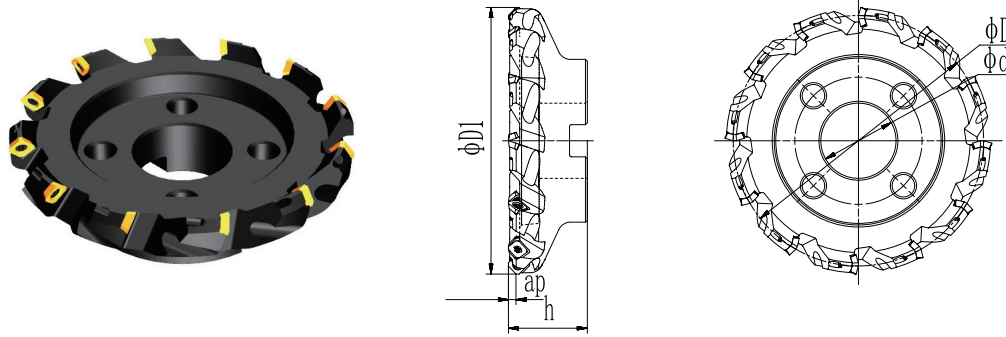
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts	螺钉 Screw	扳手 Wrench	刀垫 Parallel	刀垫螺钉 Screw
					
φ50-φ250	SEET1304PM 	HD40-11-P	HT15	DD	M5-M3.5-07-P

可转位平面铣刀 (主偏角 45°, 无刀垫)

INDEXABLE FACE MILLS (main declination angle 45° . without parallel)






型号 Type	基本尺寸 Basic dimension					齿数 Number of inserts			接口形式 Mounting type
	D	D1	d	h	最大 Max ap	V	W	X	
HGMA050-SEEW	50	62.5	22	40	6.0	3	4	5	A
HGMA063-SEEW	63	75.5	22	40	6.0	4	5	6	A
HGMA080-SEEW	80	92.5	27	50	6.0	4	6	8	B
HGMA100-SEEW	100	112.5	32	50	6.0	5	7	10	B
HGMA125-SEEW	125	137.5	40	63	6.0	6	8	12	B
HGMA160-SEEW	160	172.5	40	63	6.0	7	10	16	C
HGMA200-SEEW	200	212.2	60	63	6.0	8	12	20	C
HGMA250-SEEW	250	262.5	60	63	6.0	10	14	24	C

HGMA...SEEW 系列, 最大切深 6mm, 具有高的制造精度、切削力小。适用于加工中心、中小型铣床上加工钢、不锈钢、铸铁、铝、钛合金等材料, 进行普通面铣、45° 倒角铣等加工。该铣刀 V\W\X 三种不同齿数, 订货时请注明粗齿 V, 中齿 W, 细齿 X。

Series HGMA...SEEW is suitable for CNC, small and medium-sized milling machine to face mill and 45° chamfer mill steel, stainless steel, cast iron, aluminum, titanium and other materials, The maximum cutting depth is 6mm, The power of cutting is small. The cutter has three different number of teeth V\W\X, please specify when order, roughing teeth V, middle teeth W, finishing teeth X.

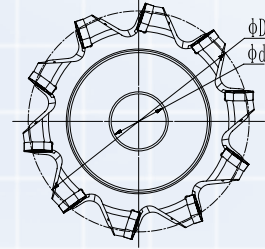
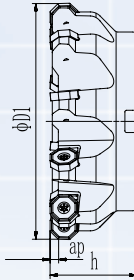
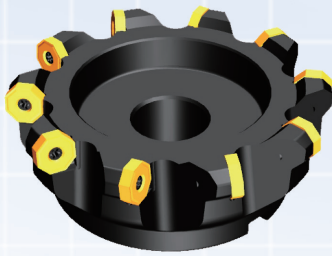
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
φ50-φ250	SEEW1204		HD50-12-60-N	HT20

可转位平面铣刀

INDEXABLE FACE MILLS






型号 Type	基本尺寸 Basic dimension					齿数 Number of inserts	接口形式 Mounting type
	D	D1	d	h	最大 Max a_p		
HGMA063-ON	63	78	22	40	5	5	A
HGMA080-ON	80	95	27	50	5	6	B
HGMA100-ON	100	115	32	63	5	7	B
HGMA125-ON	125	140	40	63	5	8	B
HGMA160-ON	160	175	40	63	5	10	C
HGMA200-ON	200	215	60	63	5	12	C
HGMA250-ON	250	265	60	63	5	14	C
HGMA315-ON	315	330	60	80	5	16	C

HGMA...ON 系列，双负前角及超厚刀片使刀具安全性更高，整体抗冲击性能优异，刀具自修光性能良好。尤其是在高进给的情况下，修光效果明显优于同类其它刀具，刀片具有十六个刃，经济效益显著。

Series HGMA...ON, the double negative rake angle, and extra-thick blade of the tool and more secure, the overall impact performance, a good tool self-study light performance. Especially in the case of high feed wiper effect significantly better than other similar knives, blades have disabilities six blade significant economic benefits.

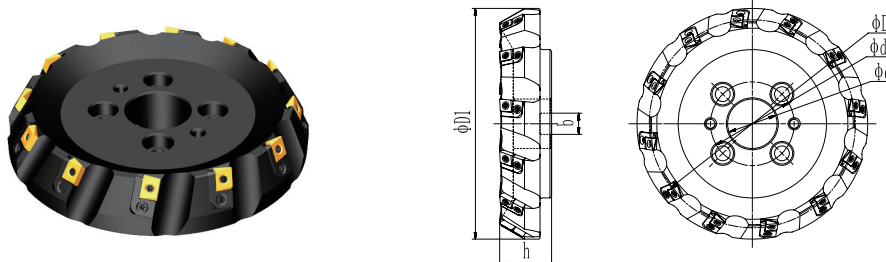
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
Φ63-Φ315	ON...		HD50-13-60-N	HT20

可转位平面粗铣刀（主偏角 60°、轴向正前角、径向负前角）

INDEXABLE FACE ROUGH MILLS (main declination angle 60°、axial positive rake angle、radial negative rake angle)



型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts	接口形式 Mounting type
	D	h	D1	d	b	d1		
HGMB160-LSE434	160	63	192.5	40	16.2	—	8	B
HGMB160L-LSE434	160	63	192.5	40	16.2	—	8	B
HGMB200-LSE434	200	63	232.1	60	25.7	101.6	10	C
HGMB200L-LSE434	200	63	232.1	60	25.7	101.6	10	C
HGMB250-LSE434	250	63	281.9	60	25.7	101.6	12	C
HGMB250L-LSE434	250	63	281.9	60	25.7	101.6	12	C
HGMB315-LSE434	315	63	346.7	60	25.7	101.6+177.8	14	C
HGMB315L-LSE434	315	63	346.7	60	25.7	101.6+177.8	14	C
HGMB400-LSE434	400	63	431.7	60	25.7	101.6+177.8	16	C
HGMB400L-LSE434	400	63	431.7	60	25.7	101.6+177.8	16	C
HGMB500-LSE434	500	63	531.7	60	25.7	101.6+177.8	20	C
HGMB500L-LSE434	500	63	531.7	60	25.7	101.6+177.8	20	C

HGMB... LSE434 系列，最大切深 13mm，适用于中型、重型的铣削加工。为正负前角铣刀，用于粗加工钢、铸铁及灰口铸铁等材料。

Series HGMB ... LSE434 is suitable for medium and heavy-duty milling. The maximum cutting depth is 13mm. It's positive and negative rake angle cutter for roughing steel, cast iron and gray cast iron materials.

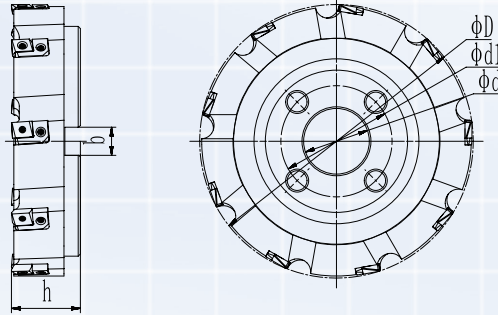
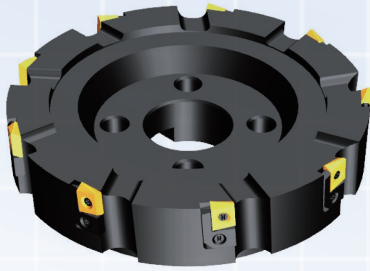
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		螺钉 Screw	扳手 Wrench	L座 L-Type Holder	L座螺钉 Screw of L-Type Holder	L座扳手 Wrench of L-Type Holder
							
Φ160-Φ500	LSE434R01		HD50-16-T20	HT20	NE04-10	HD50-16-T20	HT20
Φ160L-Φ500L	LSE434L01		HD50-16-T20	HT20	NE04-10	HD50-16-T20	HT20

可转位平面粗铣刀 (主偏角 90°、轴向负前角、径向负前角)

INDEXABLE FACE ROUGH MILLS (main declination angle 90° axial positive rake angle radial negative rake angle)



型号 Type	基本尺寸 Basic dimension		安装尺寸 Mounting dimension			齿数 Number of inserts	接口形式 Mounting type
	D	h	d	b	d1		
HGMD160-LSE434	160	63	40	16.2	—	6	B
HGMD160L-LSE434	160	63	40	16.2	—	6	B
HGMD200-LSE434	200	63	60	25.7	101.6	8	C
HGMD200L-LSE434	200	63	60	25.7	101.6	8	C
HGMD250-LSE434	250	63	60	25.7	101.6	10	C
HGMD250L-LSE434	250	63	60	25.7	101.6	10	C
HGMD315-LSE434	315	80	60	25.7	101.6+177.8	12	C
HGMD315L-LSE434	315	80	60	25.7	101.6+177.8	12	C
HGMD400-LSE434	400	80	60	25.7	101.6+177.8	16	C
HGMD400L-LSE434	400	80	60	25.7	101.6+177.8	16	C
HGMD500-LSE434	500	80	60	25.7	101.6+177.8	20	C
HGMD500L-LSE434	500	80	60	25.7	101.6+177.8	20	C

HGMD...LSE434 系列, 最大切深 16mm, 铣刀具有双负前角, 适用于在中等传动功率的机床上加工钢、铸铁的台阶平面或平面。

Series HGMD...LSE434, the maximum cutting depth is 16mm, the cutter has a double negative rake angle, suitable for medium transmission power machine for machining steel, cast iron the stepped plane or plane.

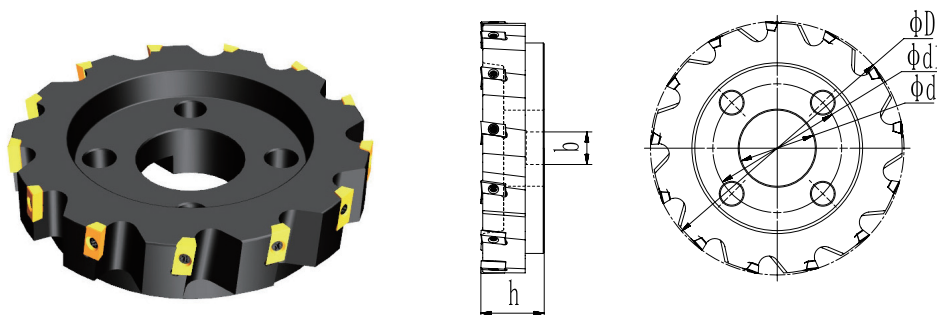
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		螺钉 Screw	扳手 Wrench	L座 L-Type Holder	L座螺钉 Screw of L-Type Holder	L座扳手 Wrench of L-Type Holder
							
Φ160-Φ500	LSE434R01		HD50-16-T20	HT20	NE04-10	HD40-13	HT15
Φ160L-Φ500L	LSE434L01						

可转位平面粗铣刀 (主偏角 90°、轴向正前角、径向正前角)

INDEXABLE FACE ROUGH MILLS (main declination angle 90° axial positive rake angle radial positive rake angle)







型号 Type	基本尺寸 Basic dimension		安装尺寸 Mounting dimension			齿数 Number of inserts	接口形式 Mounting type
	D	h	d	b	d1		
HGMD050-CDE334	50	40	22	10.3	—	5	A
HGMD063-CDE334	63	40	22	10.3	—	6	A
HGMD080-CDE334	80	50	27	12.3	—	7	B
HGMD100-CDE334	100	50	32	14.3	—	8	B
HGMD125-CDE334	125	63	40	16.2	—	10	B
HGMD160-CDE334	160	63	40	16.2	—	13	B
HGMD200-CDE334	200	63	60	25.7	101.6	13	C

HGMD...CDE334 系列, 最大切深 18mm, 适用于重型铣削, 正前角铣刀, 适用于钛、不锈钢及其它耐高温合金或有色金属, 用于铣削有倒角及圆角的直角平面。

Series HGMD...CDE334 is suitable for heavy milling, the maximum cutting depth is 18mm, It's positive rake angle milling cutter, suitable for titanium, stainless steel and other high-temperature alloys or non-ferrous metals, for milling the plane with chamfer and fillet.

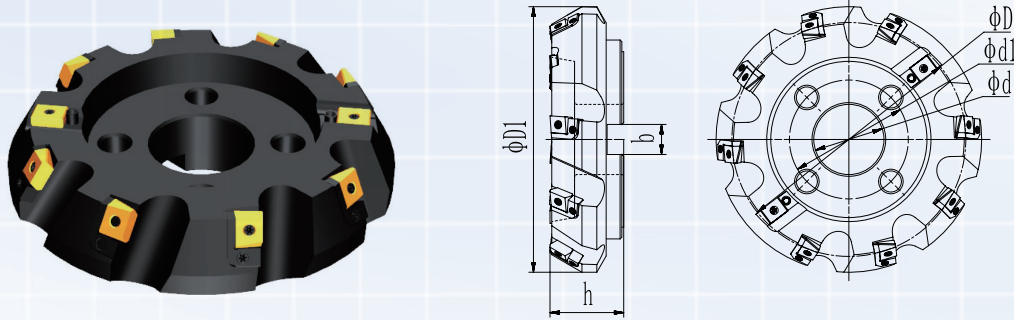
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
φ050-φ200	CDE334R01		HD40-11	HT15
	CDE334R04			

可转位平面粗精复合铣刀 (主偏角 60°)

INDEXABLE FACE ROUGH AND FINISHING MILLS (main declination angle 60°)



型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts		接口形式 Mounting type
	D	h	D1	d	b	d1	圆周齿 Circle	端齿 End	
HGMFB160-LSE434	160	63	192.5	40	16.2	—	6	2	B
HGMFB160L-LSE434	160	63	192.5	40	16.2	—	6	2	B
HGMFB200-LSE434	200	63	232.1	60	25.7	101.6	8	2	C
HGMFB200L-LSE434	200	63	232.1	60	25.7	101.6	8	2	C
HGMFB250-LSE434	250	63	281.9	60	25.7	101.6	10	2	C
HGMFB250L-LSE434	250	63	281.9	60	25.7	101.6	10	2	C
HGMFB315-LSE434	315	63	346.7	60	25.7	101.6+177.8	12	4	C
HGMFB315L-LSE434	315	63	346.7	60	25.7	101.6+177.8	12	4	C
HGMFB400-LSE434	400	80	431.5	60	25.7	101.6+177.8	16	4	C
HGMFB400L-LSE434	400	80	431.5	60	25.7	101.6+177.8	16	4	C

HGMFB...LSE434 系列, 最大切深 13mm, 适用于在中等功率情况下粗铣、精铣。这是一种非常耐用的刀具, 圆周安装粗切刀片, 端面装有精切刀片, 铣刀即可以用于粗铣, 也可以用于精铣。圆周齿为正负前角。

Series HGMFB...LSE434 is suitable for roughing and finishing milling in medium power machine. The maximum cutting depth is 13mm. This is a very durable tool, the circumference with roughing blade, end with finishing blade. It can be used for roughing & finishing. Circumference teeth is positive and negative rake angle.

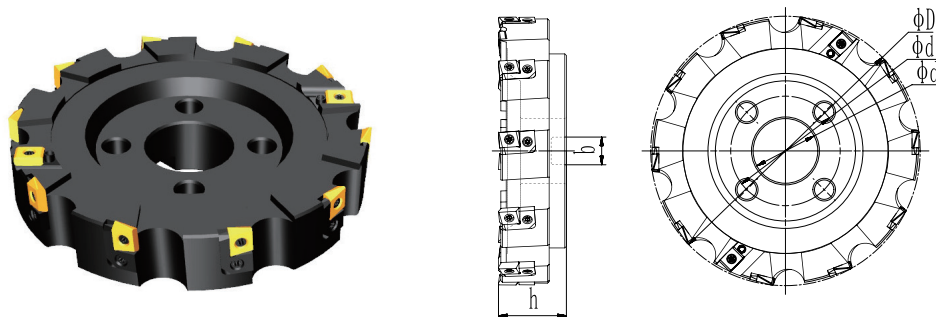
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		L 座 L-Type Holder	螺钉 Screw	扳手 Wrench	偏心销 Eccentric pin
Φ160-Φ400	圆周齿 Circle LSE434R01		NE04-10	HD50-16-T20	HT20	-
	端齿 End LCE434-01		-			29.125
Φ160L-Φ400L	圆周齿 Circle LSE434L01		NE04-10	HD50-16-T20	HT20	-
	端齿 End YCE434-01		-			29.125

可转位平面粗精复合铣刀 (主偏角 90°)

INDEXABLE FACE ROUGH MILLS (main declination angle 90°)











型号 Type	基本尺寸 Basic dimension		安装尺寸 Mounting dimension			齿数 Number of inserts		接口形式 Mounting type
	D	h	d	b	d1	圆周齿 Circle	端齿 End	
HGMFD160-LSE434	160	63	40	16.2	—	6	2	B
HGMFD160L-LSE434	160	63	40	16.2	—	6	2	B
HGMFD200-LSE434	200	63	60	25.7	101.6	8	2	C
HGMFD200L-LSE434	200	63	60	25.7	101.6	8	2	C
HGMFD250-LSE434	250	63	60	25.7	101.6	10	2	C
HGMFD250L-LSE434	250	63	60	25.7	101.6	10	2	C
HGMFD315-LSE434	315	80	60	25.7	101.6+177.8	12	2	C
HGMFD315L-LSE434	315	80	60	25.7	101.6+177.8	12	2	C
HGMFD400-LSE434	400	80	60	25.7	101.6+177.8	16	2	C
HGMFD400L-LSE434	400	80	60	25.7	101.6+177.8	16	2	C
HGMFD500-LSE434	500	80	60	25.7	101.6+177.8	20	4	C
HGMFD500L-LSE434	500	80	60	25.7	101.6+177.8	20	4	C

HGMFD...LSE434 系列, 最大切深 16mm, 铣刀适用于中等传动功率机床上粗加工或粗精复合加工钢、铸铁和灰铸铁。圆周安装粗切刀片, 端面装有精切刀片, 铣刀即可以用于粗铣, 也可以用于精铣。圆周齿为双负前角。

Series HGMFD...LSE434 is suitable for roughing and finishing milling in medium power machine. The maximum cutting depth is 16mm. The circumference with roughing blade, end with finishing blade. It can be used for roughing & finishing. Circumference teeth is double negative rake angle.

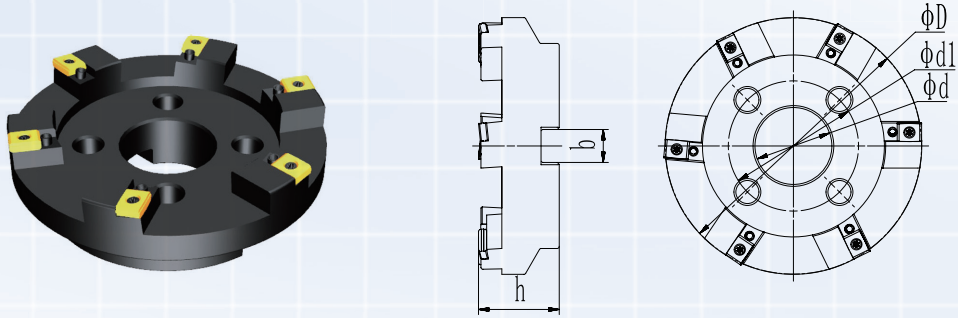
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		L座 L-Type Holder	螺钉 Screw	扳手 Wrench	偏心销 Eccentric pin
						
Φ160-Φ500	圆周齿 Circle LSE434R01		NE04-10	HD50-16-T20	HT20	-
	端齿 End LCE434-01		-			29.125
Φ160L-Φ500L	圆周齿 Circle LSE434L01		NE04-10	HD50-16-T20	HT20	-
	端齿 End YCE434-01		-			29.125

可转位平面精铣刀 (主偏角 90°)

INDEXABLE FACE FINISHING MILLS (main declination angle 90°)






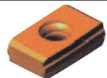
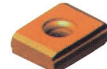
型号 Type	基本尺寸 Basic dimension		安装尺寸 Mounting dimension			齿数 Number of inserts	接口形式 Mounting type
	D	h	d	b	d1		
HGMJ100	100	50	32	14.3	—	2	B
HGMJ100L	100	50	32	14.3	—	2	B
HGMJ125	125	50	40	16.2	—	4	B
HGMJ125L	125	50	40	16.2	—	4	B
HGMJ160	160	63	40	16.2	—	4	B
HGMJ160L	160	63	40	16.2	—	4	B
HGMJ200	200	63	60	25.7	101.6	6	C
HGMJ200L	200	63	60	25.7	101.6	6	C
HGMJ250	250	63	60	25.7	101.6	6	C
HGMJ250L	250	63	60	25.7	101.6	6	C
HGMJ315	315	63	60	25.7	101.6+177.8	8	C
HGMJ315L	315	63	60	25.7	101.6+177.8	8	C
HGMJ400	400	80	60	25.7	101.6+177.8	12	C
HGMJ400L	400	80	60	25.7	101.6+177.8	12	C
HGMJ500	500	80	60	25.7	101.6+177.8	12	C
HGMJ500L	500	80	60	25.7	101.6+177.8	12	C

HGMJ 系列, 最大切深 0.30mm, 用于加工表面质量要求较高的场合, 如机床导轨, 汽轮机中分面夹持板、机床工作台、箱体结合面等要求平面度、平行度和表面粗糙度较高的平面。由于可转位精刀片切削刃为椭圆形, 可消除铣床主轴倾斜的影响, 所以, 能高速进给精铣。每齿进给量可达 2~4mm。

Series HGMJ is used for high surface quality requirements, such as machine guide, work bench, faceted clamping plate. The maximum cutting depth is 0.30mm. The indexable face finishing blade and cutting edge is oval, so the affect of milling spindle inclination is removing. You can high-speed feed and finishing mill. Feed is up to 2 ~ 4mm per tooth.

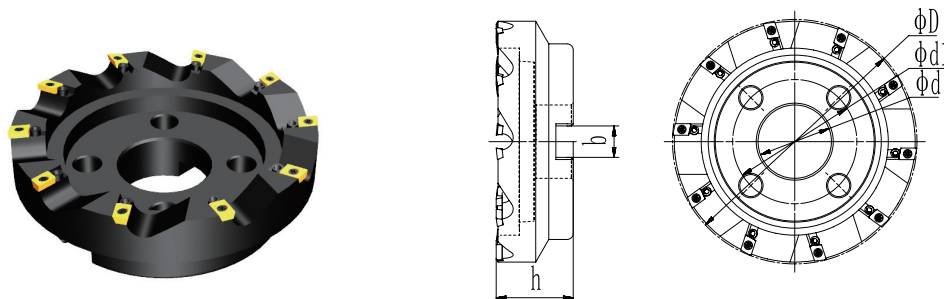
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts		螺钉 Screw	扳手 Wrench	偏心销 Eccentric pin
					
$\phi 100(L)-\phi 125(L)$	YCE323-01		HD40-09	HT15	29.125
$\phi 160(L)-\phi 500(L)$	YCE434-01		HD50-16-T20	HT20	29.125

可转位清根平面精铣刀 (主偏角 90°)

INDEXABLE RECTANGULAR FACE FINISHING MILLS (main declination angle 90°)







型号 Type	基本尺寸 Basic dimension		安装尺寸 Mounting dimension			齿数 Number of inserts	接口形式 Mounting type
	D	h	d	b	D1		
HGMJQ080	80	50	27	12.3	—	4	B
HGMJQ100	100	50	32	14.3	—	6	B
HGMJQ125	125	63	40	16.2	—	6	B
HGMJQ160	160	63	40	16.2	66.7	8	C
HGMJQ200	200	63	60	25.7	101.6	10	C
HGMJQ250	250	63	60	25.7	101.6	12	C
HGMJQ315	315	63	60	25.7	101.6+177.8	18	C

HGMJQ 系列, 是一种可以进行精根加工的平面精铣刀, 特别适合于台阶等要求清根的场所, 以及其它加工表面平面度、平和度和表面粗糙度等要求较高的场合。

Series HGMJQ is rectangular face finishing mills, especially suitable for level required clear root, high demand of machining surface flatness, and surface roughness.

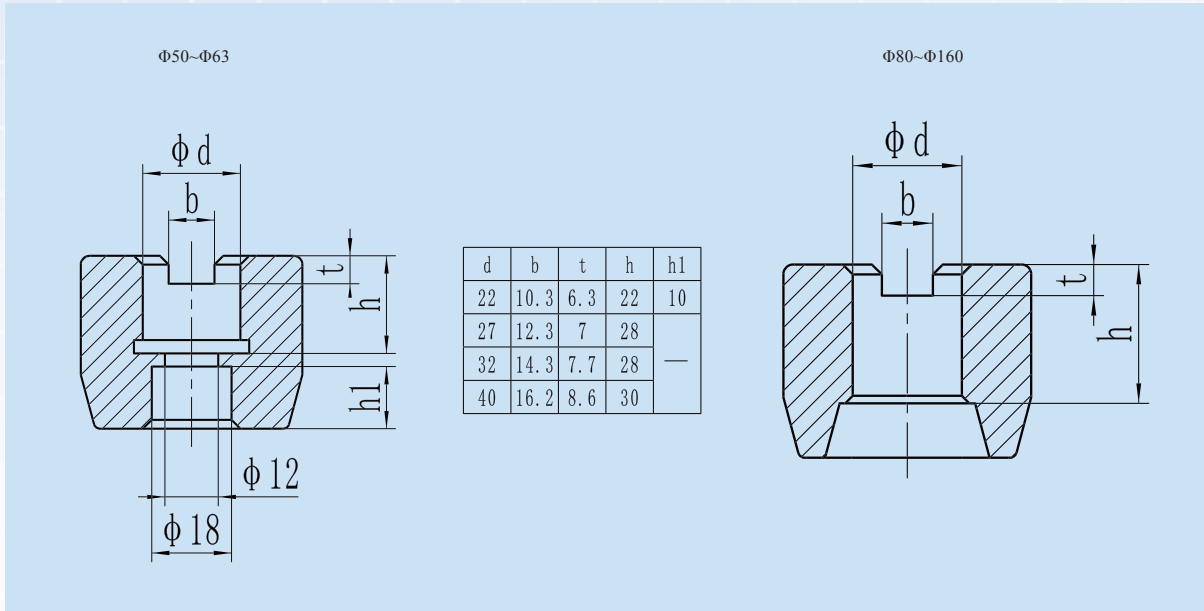
刀具配件

SPARE PARTS

刀具直径 Tool diameter D	刀片 Inserts	螺钉 Screw	扳手 Wrench	偏心销 Eccentric pin
				
Φ080-Φ315	YDA323L110 	HD40-11	HT15	29.125

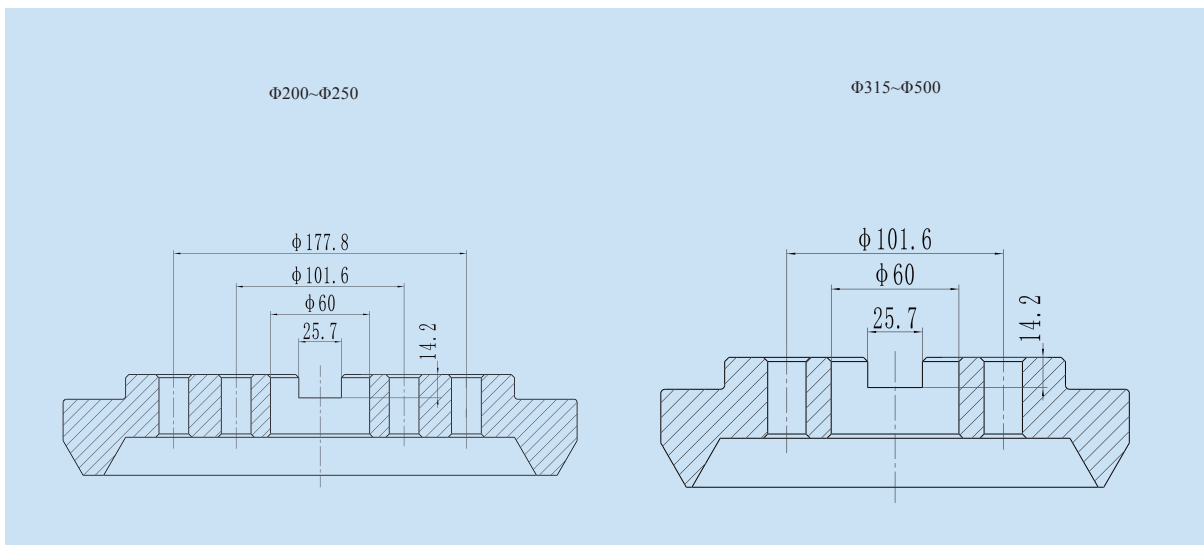
可转位平面铣刀安装尺寸

MOUNTING DIMENSION OF INDEXABLE FACE MILLS



接口形式: A型
Mounting type:A

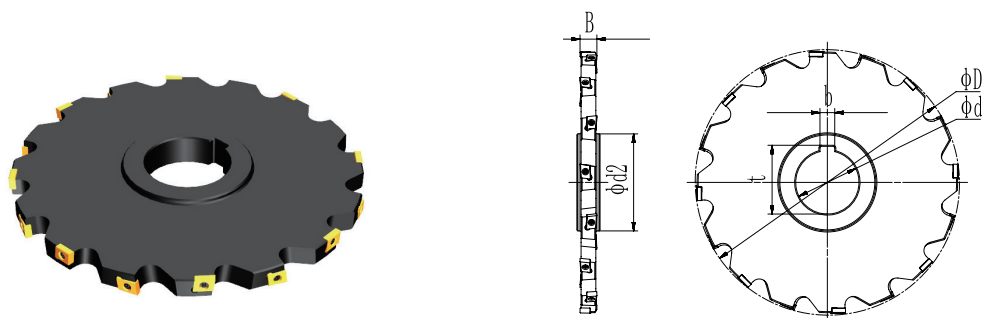
接口形式: B型
Mounting type:B



接口形式: C型
Mounting type:C

可转位槽铣刀 (正负前角)

INDEXABLE GROOVY MILLS (positive negative rake angle)





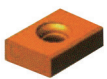
型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts
	D	B	d ₂	d	b	t	
HGGS160-14-I-CNE323	160	14	68	40	10	43.5	10
HGGS160-16-I-CNE323	160	16	68	40	10	43.5	10
HGGS200-14-I-CNE323	200	14	80	50	12	53.6	12
HGGS200-16-I-CNE323	200	16	80	50	12	53.6	12
HGGS250-14-I-CNE323	250	14	92	60	14	64.2	16
HGGS250-16-I-CNE323	250	16	92	60	14	64.2	16
HGGS315-14-I-CNE323	315	14	92	60	14	64.2	20
HGGS315-16-I-CNE323	315	16	92	60	14	64.2	20

HGGS...I-CNE323 系列为轴向键连接型，铣刀特点是设计的几何参数（径向负前角、轴向正前角），能保证在高效加工时平稳铣削工件槽型，适用于龙门铣床、镗铣床及普通铣床等。更换不同材质刀片可加工钢、铸铁等材料。

Series HGGS...I-CNE323 is axial key connection type cutters. Feature is the design of the geometric parameters (radial negative rake angle, axial positive rake angle), to ensure the smooth and efficient processing milling workpiece Groove, Which applies to the milling machine, boring and milling machine and ordinary milling machine and so on. Changing different material blade can be processed steel, cast iron and other materials.

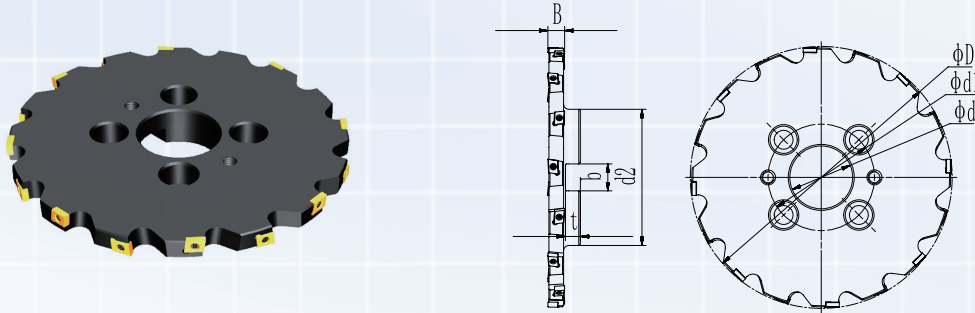
刀具配件

SPARE PARTS

槽宽 Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
14-16	CNE323		HD40-09	HT15

可转位槽铣刀 (正负前角)

INDEXABLE FACE ROUGH MILLS (positive negative rake angle)





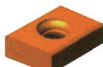
型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension				齿数 Number of inserts
	D	B	d ₂	d	b	t	d1	
HGGS200-14-II-CNE323	200	14	130	60	25.7	14.2	101.6	12
HGGS200-16-II-CNE323	200	16	130	60	25.7	14.2	101.6	12
HGGS250-14-II-CNE323	250	14	130	60	25.7	14.2	101.6	16
HGGS250-16-II-CNE323	250	16	130	60	25.7	14.2	101.6	16
HGGS315-14-II-CNE323	315	14	130	60	25.7	14.2	101.6	20
HGGS315-16-II-CNE323	315	16	130	60	25.7	14.2	101.6	20
HGGS400-14-II-CNE323	400	14	221	60	25.7	14.2	101.6+177.8	22
HGGS400-16-II-CNE323	400	16	221	60	25.7	14.2	101.6+177.8	22
HGGS500-14-II-CNE323	500	14	221	60	25.7	14.2	101.6+177.8	24
HGGS500-16-II-CNE323	500	16	221	60	25.7	14.2	101.6+177.8	24

HGGS...II-CNE323 系列为端面键连接型，铣刀特点是设计的几何参数（径向负前角、轴向正前角），能保证在高效加工时平稳铣削工件槽型，适用于龙门铣床、镗铣床及普通铣床等。更换不同材质刀片可加工钢、铸铁等材料。

Series of HGGS...II-CNE323 for end face key connection type cutters. characteristics designed geometric parameters (radial negative rake angle, axial positive rake angle), to ensure the smooth and efficient processing milling workpiece Groove, applicable milling machine, boring and milling machine and ordinary milling machine and so on. Changing different material blade can be processed steel, cast iron and other materials.

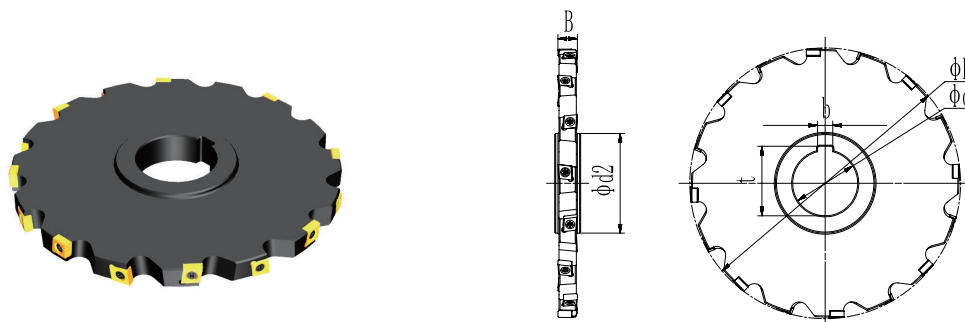
刀具配件

SPARE PARTS

槽宽 Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
14-16	CNE323		HD40-09	HT15

可转位槽铣刀（正负前角）

INDEXABLE FACE ROUGH MILLS (positive negative rake angle)



型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts
	D	B	d ₂	d	b	t	
HGGS160-18-I-CNE44	160	18	68	40	10	43.5	10
HGGS160-20-I-CNE44	160	20	68	40	10	43.5	10
HGGS160-22-I-CNE44	160	22	68	40	10	43.5	10
HGGS200-18-I-CNE44	200	18	80	50	12	53.6	12
HGGS200-20-I-CNE44	200	20	80	50	12	53.6	12
HGGS200-22-I-CNE44	200	22	80	50	12	53.6	12
HGGS250-18-I-CNE44	250	18	92	60	14	64.2	16
HGGS250-20-I-CNE44	250	20	92	60	14	64.2	16
HGGS250-22-I-CNE44	250	22	92	60	14	64.2	16
HGGS315-18-I-CNE44	315	18	92	60	14	64.2	20
HGGS315-20-I-CNE44	315	20	92	60	14	64.2	20
HGGS315-22-I-CNE44	315	22	92	60	14	64.2	20

HGGS...I-CNE44 系列为轴向键连接型，铣刀特点是设计的几何参数（径向负前角、轴向正前角），能保证在高效加工时平稳铣削工件槽型，适用于龙门铣床、镗铣床及普通铣床等。更换不同材质刀片可加工钢、铸铁等材料。

Series HGGS...I-CNE44 is axial key connection type cutters. feature is the design of the geometric parameters (radial negative rake angle, axial positive rake angle), to ensure the smooth and efficient processing milling workpiece Groove. Which applies to the milling machine, boring and milling machine and ordinary milling machine and so on. Changing different material blade can be processed steel, cast iron and other materials

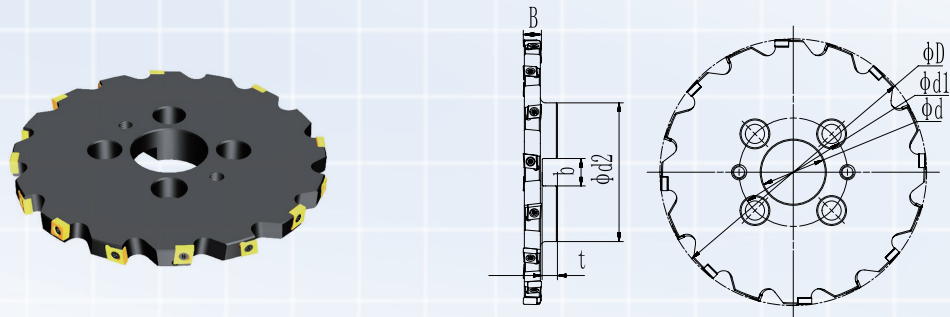
刀具配件

SPARE PARTS

槽宽 Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
18-22	CNE44		HD50-16-T20	HT20

可转位槽铣刀 (正负前角)

INDEXABLE FACE ROUGH MILLS (positive negative rake angle)






型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension				齿数 Number of inserts
	D	B	d ₂	d	b	t	d1	
HGGS200-18-II-CNE44	200	18	130	60	25.7	14.2	101.6	12
HGGS200-20-II-CNE44	200	20	130	60	25.7	14.2	101.6	12
HGGS200-22-II-CNE44	200	22	130	60	25.7	14.2	101.6	12
HGGS250-18-II-CNE44	250	18	130	60	25.7	14.2	101.6	16
HGGS250-20-II-CNE44	250	20	130	60	25.7	14.2	101.6	16
HGGS250-22-II-CNE44	250	22	130	60	25.7	14.2	101.6	16
HGGS315-18-II-CNE44	315	18	130	60	25.7	14.2	101.6	20
HGGS315-20-II-CNE44	315	20	130	60	25.7	14.2	101.6	20
HGGS315-22-II-CNE44	315	22	130	60	25.7	14.2	101.6	20
HGGS400-18-II-CNE44	400	18	221	60	25.7	14.2	101.6+177.8	22
HGGS400-20-II-CNE44	400	20	221	60	25.7	14.2	101.6+177.8	22
HGGS400-22-II-CNE44	400	22	221	60	25.7	14.2	101.6+177.8	22
HGGS500-18-II-CNE44	500	18	221	60	25.7	14.2	101.6+177.8	24
HGGS500-20-II-CNE44	500	20	221	60	25.7	14.2	101.6+177.8	24
HGGS500-22-II-CNE44	500	22	221	60	25.7	14.2	101.6+177.8	24

HGGS...II-CNE44 系列为端面键连接型，铣刀特点是设计的几何参数（径向负前角、轴向正前角），能保证在高效加工时平稳铣削工件槽型，适用于龙门铣床、镗铣床及普通铣床等。更换不同材质刀片可加工钢、铸铁等材料。

Series HGGS...II-CNE44 is end face key connection type. Feature is the design of the geometric parameters (radial negative rake angle, axial positive rake angle), to ensure the smooth and efficient processing milling workpiece Groove, Which applies to milling machine, boring and milling machine and ordinary milling machine and so on. Changing different material blade can be processed steel, cast iron and other materials.

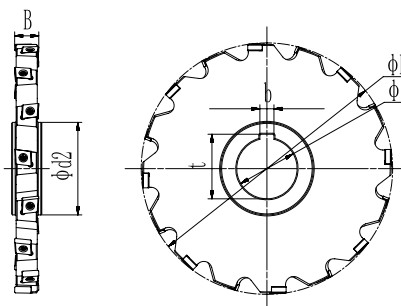
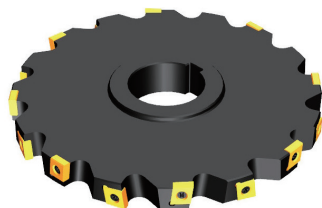
刀具配件

SPARE PARTS

槽宽 Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
18-22	CNE44		HD50-16-T20	HT20

可转位槽铣刀 (正负前角)

INDEXABLE FACE ROUGH MILLS (positive negative rake angle)






型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts
	D	B	d ₂	d	b	t	
HGGS160-24-I-CNE454	160	24	68	40	10	43.5	10
HGGS160-26-I-CNE454	160	26	68	40	10	43.5	10
HGGS160-28-I-CNE454	160	28	68	40	10	43.5	10
HGGS160-30-I-CNE454	160	30	68	40	10	43.5	10
HGGS200-24-I-CNE454	200	24	80	50	12	53.6	12
HGGS200-26-I-CNE454	200	26	80	50	12	53.6	12
HGGS200-28-I-CNE454	200	28	80	50	12	53.6	12
HGGS200-30-I-CNE454	200	30	80	50	12	53.6	12
HGGS250-24-I-CNE454	250	24	92	60	14	64.2	16
HGGS250-26-I-CNE454	250	26	92	60	14	64.2	16
HGGS250-28-I-CNE454	250	28	92	60	14	64.2	16
HGGS250-30-I-CNE454	250	30	92	60	14	64.2	16
HGGS315-24-I-CNE454	315	24	92	60	14	64.2	20
HGGS315-26-I-CNE454	315	26	92	60	14	64.2	20
HGGS315-28-I-CNE454	315	28	92	60	14	64.2	20
HGGS315-30-I-CNE454	315	30	92	60	14	64.2	20

HGGS...II-CNE454 系列为端面键连接型，铣刀特点是设计的几何参数（径向负前角、轴向正前角），能保证在高效加工时平稳铣削工件槽型，适用于龙门铣床、镗铣床及普通铣床等。更换不同刀片材质可加工钢、铸铁等材料。

Series HGGS ... II-CNE454 end face key connection type. Feature is the design of the geometric parameters geometric parameters (radial negative rake angle, axial positive rake angle), to ensure the smooth and efficient processing milling workpiece Groove, Which applies to milling machine, boring and milling machine and ordinary milling machine and so on. Changing different material blade can be processed steel, cast iron and other materials.

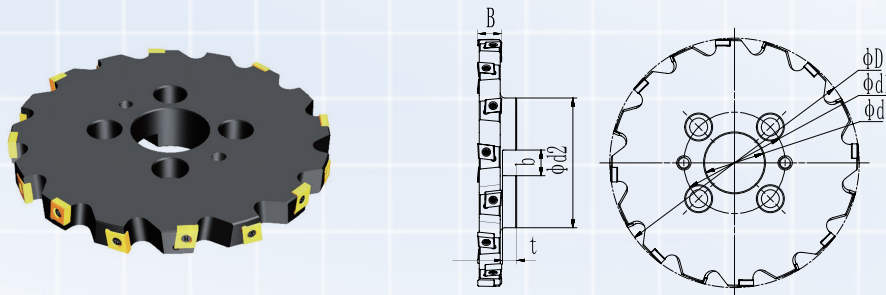
刀具配件

SPARE PARTS

槽宽 Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
24-30	CNE454		HD50-16-T20	HT20

可转位槽铣刀 (正负前角)

INDEXABLE GROOVY MILLS (positive negative rake angle)





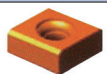
型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension				齿数 Number of inserts
	D	B	d ₂	d	b	t	d ₁	
HGGS200-24-II-CNE454	200	24	130	60	25.7	14.2	101.6	12
HGGS200-26-II-CNE454	200	26	130	60	25.7	14.2	101.6	12
HGGS200-28-II-CNE454	200	28	130	60	25.7	14.2	101.6	12
HGGS200-30-II-CNE454	200	30	130	60	25.7	14.2	101.6	12
HGGS250-24-II-CNE454	250	24	130	60	25.7	14.2	101.6	16
HGGS250-26-II-CNE454	250	26	130	60	25.7	14.2	101.6	16
HGGS250-28-II-CNE454	250	28	130	60	25.7	14.2	101.6	16
HGGS250-30-II-CNE454	250	30	130	60	25.7	14.2	101.6	16
HGGS315-24-II-CNE454	315	24	130	60	25.7	14.2	101.6	20
HGGS315-26-II-CNE454	315	26	130	60	25.7	14.2	101.6	20
HGGS315-28-II-CNE454	315	28	130	60	25.7	14.2	101.6	20
HGGS315-30-II-CNE454	315	30	130	60	25.7	14.2	101.6	20
HGGS400-24-II-CNE454	400	24	221	60	25.7	14.2	101.6+177.8	22
HGGS400-26-II-CNE454	400	26	221	60	25.7	14.2	101.6+177.8	22
HGGS400-28-II-CNE454	400	28	221	60	25.7	14.2	101.6+177.8	22
HGGS400-30-II-CNE454	400	30	221	60	25.7	14.2	101.6+177.8	22

HGGS...II-CNE454 系列为端面键连接型，铣刀特点是设计的几何参数（径向负前角、轴向正前角），能保证在高效加工时平稳铣削工件槽型，适用于龙门铣床、镗铣床及普通铣床等。更换不同刀片材质可加工钢、铸铁等材料。

Series HGGS ... II-CNE454 end face key connection type. Feature is the design of the geometric parameters geometric parameters (radial negative rake angle, axial positive rake angle), to ensure the smooth and efficient processing milling workpiece Groove, Which applies to milling machine, boring and milling machine and ordinary milling machine and so on. Changing different material blade can be processed steel, cast iron and other materials.

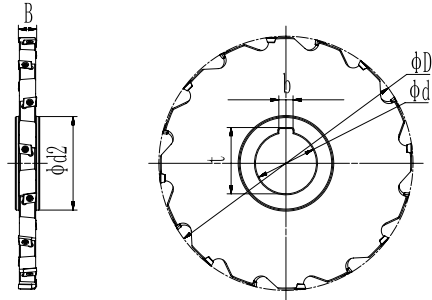
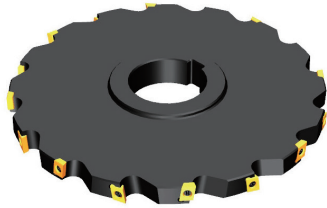
刀具配件

SPARE PARTS

槽宽 Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
24-30	CNE454		HD50-16-T20	HT20

可转位槽铣刀 (正前角)

INDEXABLE CROOVY MILLS (double positive rake angle)



型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts		
	D	B	d ₂	d	b	t	左 L	中 M	右 R
HGGS100-14-I-CDE	100	14	48	27	7	29.8	3	—	3
HGGS100-16-I-CDE	100	16	48	27	7	29.8	3	—	3
HGGS100-18-I-CDE	100	18	48	27	7	29.8	3	—	3
HGGS100-20-I-CDE	100	20	48	27	7	29.8	3	—	3
HGGS100-22-I-CDE	100	22	48	27	7	29.8	3	—	3
HGGS125-14-I-CDE	125	14	68	40	10	43.5	4	—	4
HGGS125-16-I-CDE	125	16	68	40	10	43.5	4	—	4
HGGS125-18-I-CDE	125	18	68	40	10	43.5	4	—	4
HGGS125-20-I-CDE	125	20	68	40	10	43.5	4	—	4
HGGS125-22-I-CDE	125	22	68	40	10	43.5	4	—	4
HGGS160-14-I-CDE	160	14	68	40	10	43.5	5	—	5
HGGS160-16-I-CDE	160	16	68	40	10	43.5	5	—	5
HGGS160-18-I-CDE	160	18	68	40	10	43.5	5	—	5
HGGS160-20-I-CDE	160	20	68	40	10	43.5	5	—	5
HGGS160-22-I-CDE	160	22	68	40	10	43.5	5	—	5
HGGS160-24-I-CDE	160	24	68	40	10	43.5	3	3	3
HGGS160-26-I-CDE	160	26	68	40	10	43.5	3	3	3
HGGS160-28-I-CDE	160	28	68	40	10	43.5	3	3	3
HGGS160-30-I-CDE	160	30	68	40	10	43.5	3	3	3
HGGS200-14-I-CDE	200	14	80	50	12	53.6	6	—	6
HGGS200-16-I-CDE	200	16	80	50	12	53.6	6	—	6
HGGS200-18-I-CDE	200	18	80	50	12	53.6	6	—	6
HGGS200-20-I-CDE	200	20	80	50	12	53.6	6	—	6
HGGS200-22-I-CDE	200	22	80	50	12	53.6	6	—	6
HGGS200-24-I-CDE	200	24	80	50	12	53.6	4	4	4
HGGS200-26-I-CDE	200	26	80	50	12	53.6	4	4	4
HGGS200-28-I-CDE	200	28	80	50	12	53.6	4	4	4
HGGS200-30-I-CDE	200	30	80	50	12	53.6	4	4	4

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型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts		
	D	B	d ₂	d	b	t	左 L	中 M	右 R
HGGS250-14- I -CDE	250	14	92	60	14	64.2	8	—	8
HGGS250-16- I -CDE	250	16	92	60	14	64.2	8	—	8
HGGS250-18- I -CDE	250	18	92	60	14	64.2	8	—	8
HGGS250-20- I -CDE	250	20	92	60	14	64.2	8	—	8
HGGS250-22- I -CDE	250	22	92	60	14	64.2	8	—	8
HGGS250-24- I -CDE	250	24	92	60	14	64.2	5	5	5
HGGS250-26- I -CDE	250	26	92	60	14	64.2	5	5	5
HGGS250-28- I -CDE	250	28	92	60	14	64.2	5	5	5
HGGS250-30- I -CDE	250	30	92	60	14	64.2	5	5	5
HGGS315-14- I -CDE	315	14	92	60	14	64.2	10	—	10
HGGS315-16- I -CDE	315	16	92	60	14	64.2	10	—	10
HGGS315-18- I -CDE	315	18	92	60	14	64.2	10	—	10
HGGS315-20- I -CDE	315	20	92	60	14	64.2	10	—	10
HGGS315-22- I -CDE	315	22	92	60	14	64.2	10	—	10
HGGS315-24- I -CDE	315	24	92	60	14	64.2	6	6	6
HGGS315-26- I -CDE	315	26	92	60	14	64.2	6	6	6
HGGS315-28- I -CDE	315	28	92	60	14	64.2	6	6	6
HGGS315-30- I -CDE	315	30	92	60	14	64.2	6	6	6

HGGS...I-CDE 系列为轴向键连接型，具有双正前角几何参数，切削刃小、刀片型号切向排列，具有高的切削效率。适用于加工槽及台阶面。更换不同材质刀片，可以加工钢、铸铁、钛合金、不锈钢及其它耐高温合金或有色金属等。

HGGS ... I-CDE series of axial key connection type, geometric parameters with double positive rake angle, the cutting blade is small blade Model tangential arrangement, having a high cutting efficiency. Apply to the processing tank and stepped surface. Changing different material blade, can be processed steel, cast iron, titanium, stainless steel and other high-temperature alloys or non-ferrous metals.

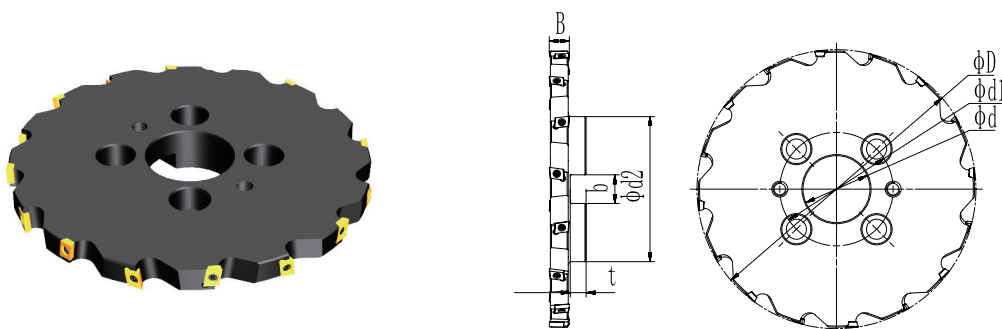
刀具配件

SPARE PARTS

槽宽 B Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
14-16	L, M CDE313L01		HD40-11	HT15
	R CDE313R01		HD40-11	HT15
18-30	L, M CDE323L05		HD40-11	HT15
	R CDE323R05		HD40-11	HT15

可转位槽铣刀 (正前角)

INDEXABLE CROOVY MILLS (double positive rake angle)

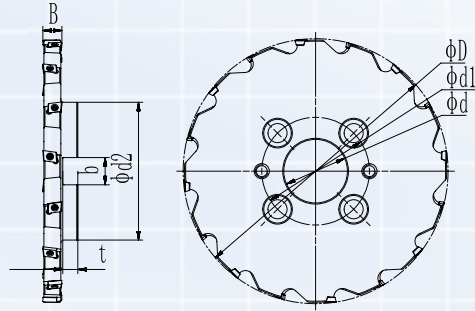


型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension				齿数 Number of inserts		
	D	B	d ₂	d	b	t	d ₁	左 L	中 M	右 R
HGGS200-14-II-CDE	200	14	130	60	25.7	14.2	101.6	6	—	6
HGGS200-16-II-CDE	200	16	130	60	25.7	14.2	101.6	6	—	6
HGGS200-18-II-CDE	200	18	130	60	25.7	14.2	101.6	6	—	6
HGGS200-20-II-CDE	200	20	130	60	25.7	14.2	101.6	6	—	6
HGGS200-22-II-CDE	200	22	130	60	25.7	14.2	101.6	6	—	6
HGGS200-24-II-CDE	200	24	130	60	25.7	14.2	101.6	4	4	4
HGGS200-26-II-CDE	200	26	130	60	25.7	14.2	101.6	4	4	4
HGGS200-28-II-CDE	200	28	130	60	25.7	14.2	101.6	4	4	4
HGGS200-30-II-CDE	200	30	130	60	25.7	14.2	101.6	4	4	4
HGGS250-14-II-CDE	250	14	130	60	25.7	14.2	101.6	8	—	8
HGGS250-16-II-CDE	250	16	130	60	25.7	14.2	101.6	8	—	8
HGGS250-18-II-CDE	250	18	130	60	25.7	14.2	101.6	8	—	8
HGGS250-20-II-CDE	250	20	130	60	25.7	14.2	101.6	8	—	8
HGGS250-22-II-CDE	250	22	130	60	25.7	14.2	101.6	8	—	8
HGGS250-24-II-CDE	250	24	130	60	25.7	14.2	101.6	5	5	5
HGGS250-26-II-CDE	250	26	130	60	25.7	14.2	101.6	5	5	5
HGGS250-28-II-CDE	250	28	130	60	25.7	14.2	101.6	5	5	5
HGGS250-30-II-CDE	250	30	130	60	25.7	14.2	101.6	5	5	5
HGGS315-14-II-CDE	315	14	130	60	25.7	14.2	101.6	10	—	10
HGGS315-16-II-CDE	315	16	130	60	25.7	14.2	101.6	10	—	10
HGGS315-18-II-CDE	315	18	130	60	25.7	14.2	101.6	10	—	10
HGGS315-20-II-CDE	315	20	130	60	25.7	14.2	101.6	10	—	10
HGGS315-22-II-CDE	315	22	130	60	25.7	14.2	101.6	10	—	10
HGGS315-24-II-CDE	315	24	130	60	25.7	14.2	101.6	6	6	6
HGGS315-26-II-CDE	315	26	130	60	25.7	14.2	101.6	6	6	6
HGGS315-28-II-CDE	315	28	130	60	25.7	14.2	101.6	6	6	6
HGGS315-30-II-CDE	315	30	130	60	25.7	14.2	101.6	6	6	6

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可转位槽铣刀 (正前角)

INDEXABLE CROOVY MILLS (double positive rake angle)



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


型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension				齿数 Number of inserts		
	D	B	d ₂	d	b	t	d ₁	左 L	中 M	右 R
HGGS400-14-II-CDE	400	14	221	60	25.7	14.2	101.6+177.8	11	—	11
HGGS400-16-II-CDE	400	16	221	60	25.7	14.2	101.6+177.8	11	—	11
HGGS400-18-II-CDE	400	18	221	60	25.7	14.2	101.6+177.8	11	—	11
HGGS400-20-II-CDE	400	20	221	60	25.7	14.2	101.6+177.8	11	—	11
HGGS400-22-II-CDE	400	22	221	60	25.7	14.2	101.6+177.8	11	—	11
HGGS400-24-II-CDE	400	24	221	60	25.7	14.2	101.6+177.8	7	7	7
HGGS400-26-II-CDE	400	26	221	60	25.7	14.2	101.6+177.8	7	7	7
HGGS400-28-II-CDE	400	28	221	60	25.7	14.2	101.6+177.8	7	7	7
HGGS400-30-II-CDE	400	30	221	60	25.7	14.2	101.6+177.8	7	7	7

HGGS...II-CDE 系列为端面键连接型，双正前角，切削刃小、刀片切向排列结构，具有高的切削效率。适用于加工槽及台阶面。更换不同材质的刀片，可以加工钢、铸铁、钛合金、不锈钢及其它耐高温合金或有色金属等。

Series HGGS ... II-CDE is end key connection type, double positive rake angle, the cutting blade is small, the blade tangential arrangement structure, having a high cutting efficiency. Apply to the processing groove and stepped surface. Changing different material blade can be processed steel, cast iron, titanium, and other high-temperature alloys or non-ferrous metals.

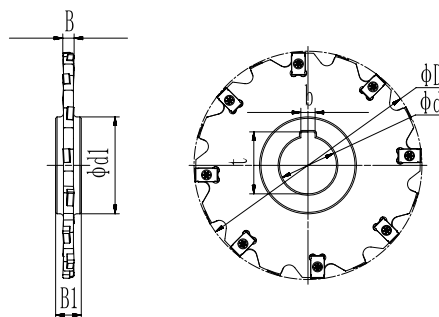
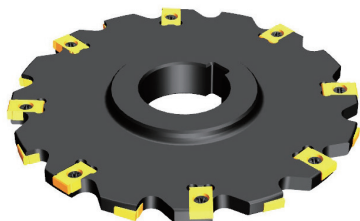
刀具配件

SPARE PARTS

槽宽 B Groove width	刀片 Inserts		螺钉 Wcrew	扳手 Wrench
				
14-16	L、M CDE313L01		HD40-11	HT15
	R CDE313R01		HD40-11	HT15
18-30	L、M CDE323L05		HD40-11	HT15
	R CDE323R05		HD40-11	HT15

可转位槽铣刀 (B=7~12mm)

INDEXABLE CROOVY MILLS



型号 Type	基本尺寸 Basic dimension				安装尺寸 Mounting dimension			齿数 Number of inserts
	D	B	d ₁	B ₁	d	b	t	
HGGS100-7-I-LNE	100	7	48	18	27	7	29.8	10
HGGS100-8-I-LNE	100	8	48	18	27	7	29.8	10
HGGS100-10-I-LNE	100	10	48	18	27	7	29.8	9
HGGS100-12-I-LNE	100	12	48	18	27	7	29.8	9
HGGS125-7-I-LNE	125	7	58	18	40	10	43.5	12
HGGS125-8-I-LNE	125	8	58	18	40	10	43.5	12
HGGS125-10-I-LNE	125	10	58	18	40	10	43.5	12
HGGS125-12-I-LNE	125	12	58	18	40	10	43.5	12
HGGS160-7-I-LNE	160	7	68	18	40	10	43.5	16
HGGS160-8-I-LNE	160	8	68	18	40	10	43.5	16
HGGS160-10-I-LNE	160	10	68	18	40	10	43.5	15
HGGS160-12-I-LNE	160	12	68	18	40	10	43.5	15
HGGS200-7-I-LNE	200	7	80	18	50	12	53.6	18
HGGS200-8-I-LNE	200	8	80	18	50	12	53.6	18
HGGS200-10-I-LNE	200	10	80	18	50	12	53.6	18
HGGS200-12-I-LNE	200	12	80	18	50	12	53.6	18
HGGS250-8-I-LNE	250	8	92	22	60	14	64.2	22
HGGS250-10-I-LNE	250	10	92	22	60	14	64.2	21
HGGS250-12-I-LNE	250	12	92	22	60	14	64.2	21
HGGS315-8-I-LNE	315	8	92	30	60	14	64.2	24
HGGS315-10-I-LNE	315	10	92	30	60	14	64.2	24
HGGS315-12-I-LNE	315	12	92	30	60	14	64.2	24

HGGS...I-LNE 系列为轴向键连接型, 设计刚性好, 适用于钢、铸铁工件的窄槽铣削。更换不同材质刀片, 可铣削钢、铸铁、钛合金、不锈钢等, 可应用于数控机床、普通铣床、镗铣床及龙门铣床等。

Series HGGS ... I-LNE is axial key connection type, suitable for milling narrow slot. Changing different material blade can be processed steel, cast iron, titanium, stainless steel, etc., which can be used in CNC machine tools, milling machines, boring and milling machine.

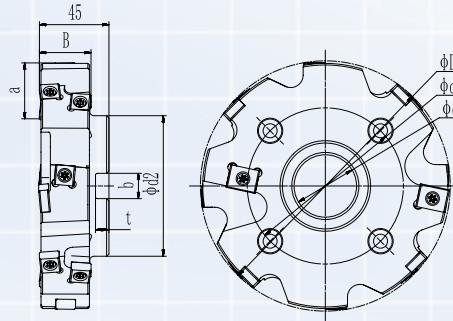
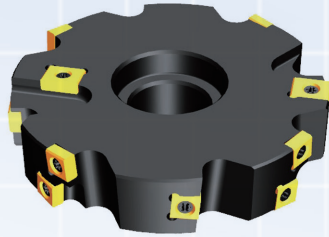
刀具配件

SPARE PARTS

槽宽 Groove width	刀片 Inserts		螺钉 Screw		扳手 Wrench
7	LNE322K05PH12		HD40-06		HT15
8-12	LNE323K05PH12		HD40-07	B=12 时: 左右两齿装 HD40-09 中齿装 HD0-07	HT15

可转插补镗铣刀

INDEXABLE CIRCULAR INTERPOLATION BORING MILLS









型号 Type	基本尺寸 Basic dimension				安装尺寸 Mounting dimension				齿数 Number of inserts	
	D	d ₂	a	B	d	b	t	d ₁	圆周齿 Circle	侧齿 End
HGGC085-030	85	60	15	30	32	14.2	7.7	—	6	1
HGGC125-030	125	90	15	30	40	16.2	8.6	—	9	1
HGGC160-030	160	90	30	30	40	16.2	8.6	—	12	2
HGGC200-040	200	160	30	40	60	25.7	14.2	101.6	15	2
HGGC250-040	250	200	45	40	60	25.7	14.2	101.6	18	6
HGGC315-040	315	220	45	40	60	25.7	14.2	101.6+177.8	21	6
HGGC400-040	400	280	60	40	60	25.7	14.2	101.6+177.8	27	8
HGGC500-040	500	380	60	40	60	25.7	14.2	101.6+177.8	33	8

HGGC 系列，插补镗铣是将镗刀镗削或铣刀进行圆周插补铣削的两种方法相结合的综合加工。刀具即径向进给同时又轴向进给，特别适用于大型或不规格外形零件的孔止口端加工，减少了刀具，空行程运动为零，提高了加工效率及孔端的尺寸精度。在加工中心设备上圆镗插补铣削是新加工最经济理想刀具，降低了加工时间和刀具费用。

Series HGGC is a combination of the two methods of processing. Which is boring and milling boring. Tool is both radial feed and axial feed, especially suitable for large or not specifications shape parts of the hole for the mouth-end processing, can improve processing efficiency and accuracy of the size of the hole end. This type of cutter is a new processing which is economic tool to reduce the processing time and tool costs.

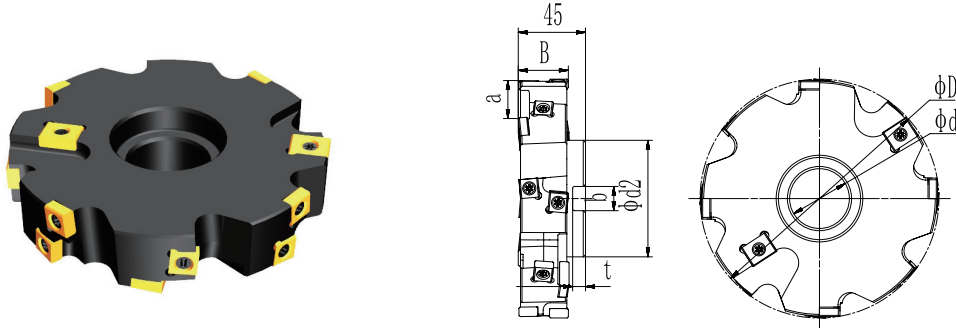
刀具配件

SPARE PARTS

槽宽 B Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
30	圆周齿 Circle SNC44-60		HD40-11	HT15
	侧齿 End LNE434-02		HD50-16-T20	HT15
40	圆周齿 Circle SNC55		HD50-16-T20	HT20
	侧齿 End LNE434-02		HD50-16-T20	HT20

可转位插补镗铣刀 (双侧端齿)

INDEXABLE CIRCULAR INTERPOLATION BORING MILLS (bilateral end teeth)









型号 Type	基本尺寸 Basic dimension				安装尺寸 Mounting dimension				齿数 Number of inserts	
	D	d ₂	a	B	d	b	t	d ₁	圆周齿 Circle	侧齿 End
HGGC085-030-C	85	60	15	30	32	14.2	7.7	—	6	2
HGGC125-030C	125	90	15	30	40	16.2	8.6	—	9	2
HGGC160-030C	160	90	30	30	40	16.2	8.6	—	12	4
HGGC200-040C	200	160	30	40	60	25.7	14.2	101.6	15	4
HGGC250-040C	250	200	45	40	60	25.7	14.2	101.6	18	12
HGGC315-040C	315	220	45	40	60	25.7	14.2	101.6+177.8	21	12
HGGC400-040C	400	280	60	40	60	25.7	14.2	101.6+177.8	27	16
HGGC500-040C	500	380	60	40	60	25.7	14.2	101.6+177.8	33	16

HGG...C 系列, 具备了插补镗铣刀性能外, 同时铣刀在基面端切削区域增加了端面齿, 可以实现轴向端面正切、反切进刀运动, 是双孔止口端面加工的最理想刀具。

Series HGG ... C, with a performance of interpolation boring milling there are end teeth on the cutting area of the base surface. It's a ideal tool to process double hole .

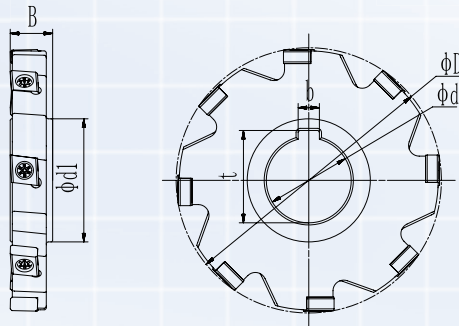
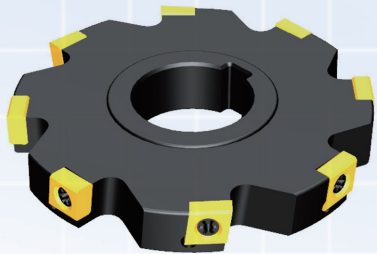
刀具配件

SPARE PARTS

槽宽 B Groove width	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
30	圆周齿 Circle SNC44-60		HD40-11	HT15
	侧齿 End LNE434-02		HD50-16-T20	HT15
40	圆周齿 Circle SNC55		HD50-16-T20	HT20
	侧齿 End LNE434-02		HD50-16-T20	HT20

可转位两面刃粗铣刀 (正负前角)

INDEXABLE MILLS WITH DOUBLE EDGES (positive negative rake angle)






型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts
	D	B	d ₁	d	b	t	
HGGE125-CNE	125	20	58	40	10	43.5	8
HGGE125L-CNE	125	20	58	40	10	43.5	8
HGGE160-CNE	160	20	68	40	10	43.5	10
HGGE160L-CNE	160	20	68	40	10	43.5	10
HGGE200-CNE	200	25	80	50	12	53.6	12
HGGE200L-CNE	200	25	80	50	12	53.6	12
HGGE250-CNE	250	25	92	60	14	64.2	16
HGGE250L-CNE	250	25	92	60	14	64.2	16

HGGE...CNE 系列, 为轴向键连接型, 具有正的轴向前角、负的径向前角, 适用于单独或组合加工各种台阶面工平面, 刀片切向排列, 可以高效铣削钢及铸铁等材料。

Series HGGE... CNE is axial key connection type, having a positive axial rake angle and a negative radial rake angle, suitable for the processing of various stepped surface machining plane, the blade tangential arrangement, can be processed steel and cast iron.

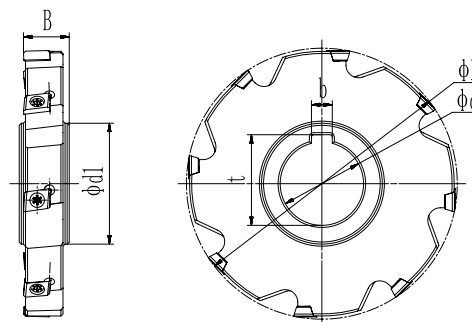
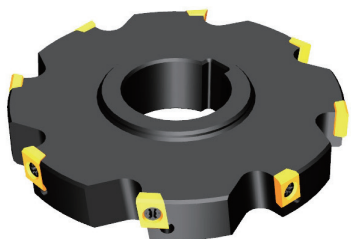
刀具配件

SPARE PARTS

直径 Diameter	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
Φ125-250	CNE44		HD50-16-T20	HT20

可转位两面刃粗铣刀 (正前角)

INDEXABLE MILLS WITH DOUBLE EDGES (double positive rake angle)



型号 Type	基本尺寸 Basic dimension			安装尺寸 Mounting dimension			齿数 Number of inserts
	D	B	d_1	d	b	t	
HGGE125-CDE	125	20	58	40	10	43.5	8
HGGE125L-CDE	125	20	58	40	10	43.5	8
HGGE160-CDE	160	20	68	40	10	43.5	10
HGGE160L-CDE	160	20	68	40	10	43.5	10
HGGE200-CDE	200	25	80	50	12	53.6	12
HGGE200L-CDE	200	25	80	50	12	53.6	12
HGGE250-CDE	250	25	92	60	14	64.2	16
HGGE250L-CDE	250	25	92	60	14	64.2	16

HHGE...CDE 系列, 为轴向键连接型, 具有双正前角, 切削力小, 切削效率较高, 适用于单独或组合加工各种台阶面或平面, 更换不同材质的刀片, 可以加工钢、铸铁、钛合金, 不锈钢及其它耐高温合金、铝合金或有色金属等。

Series HHGE...CDE is axial key connection type, having a double positive rake angle, small cutting force, high cutting efficiency. It applies to processing step surface or plane. Changing different material blade can be processed steel, cast iron, titanium, stainless steel, etc.

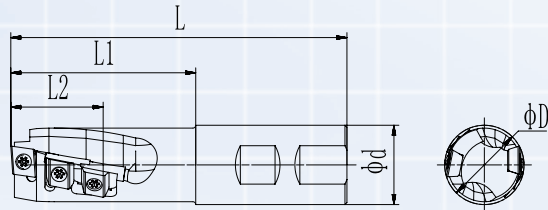
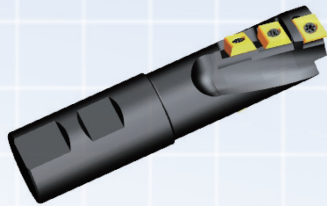
刀具配件

SPARE PARTS

型号 Type	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
HGGE...CDE	CDE323R05		HD40-11	HT15
HGGE...L-CDE	CDE323L05		HD40-11	HT15

可转位螺旋立铣刀

INDEXABLE HELIX END MILLS





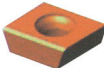
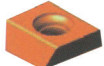
型号 Type	基本尺寸 Basic dimension					刀片数 Number of inserts		刃沟数 Number of groove
	D	d	L	L1	L2	CDE313R01	SPE-33R01	
HGLX032-044WEL	32	32	135	75	44	1	5	2
HGLX040-051WEL	40	40	150	80	51	2	12	4
HGLX050-059WEL	50	50	170	90	59	2	14	4
HGLX050-080WEL	50	50	190	110	80	2	20	4

HGLX...WEL 系列，适用于在多种机床上铣削立面、台阶面。更换不同材质的刀片，可加工各种钢、铸铁、有色金属，包括钛合金和稀有金属等。

Series HGLX ... WEL is for milling stepped surface. Changing different material blade can be processed steel, cast iron, titanium, stainless steel, rare metal.

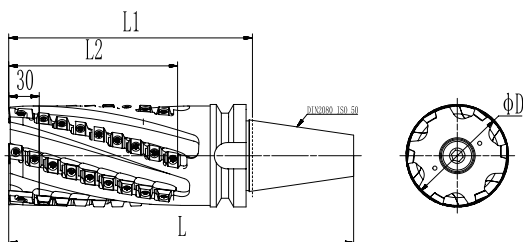
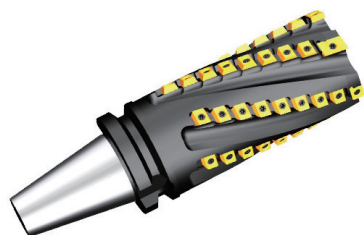
刀具配件

SPARE PARTS

型号 Type	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
HGLX...WEL	CDE313R01		HD40-09	HT15
	SPE-33R01		HD40-09	HT15

可转位螺旋立铣刀

INDEXABLE HELIX END MILLS





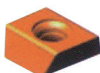
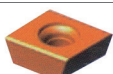
型号 Type	基本尺寸 Basic dimension				刀片数 Number of inserts		刃沟数 Number of groove
	D	L	L1	L2	SPE-55R02	SPE-55R03	
HGLX063-065-BT50	63	240	113	65	8+4	2	4
HGLX063-090-BT50	63	265	138	90	14+4	2	4
HGLX080-100V-BT50	80	276	150	100	16+4	2	4
HGLX080-100W-BT50	80	276	150	100	24+6	3	6
HGLX100-118W-BT50	100	297	170	118	30+6	3	6
HGLX063-140-BT50	63	320	193.5	146	26+4	2	4
HGLX063-200V-BT50	80	380	253	200	38+4	2	4
HGLX080-200W-BT50	80	380	253	200	57+6	2	6

HGLX...BT50 系列，适用于在多种机床上进行大切深、大走刀粗铣立面及台阶面。其螺旋立铣刀头部可更换，当头部损坏时，可快速更换，使用方便而且降低工具费。可换头有 HGKHT...L 和 HGKHT...M 两种，HGKHT...L 适用于铣削立面及前端面铣削量不大的台阶面，HGKHT...M 端面切削齿增加一倍，适用于铣削前端铣削量较大的台阶面。铣刀出厂时前端装 HGKHT...L 可换头，柄部形式为 DIN2050 50 号柄，若用户要求配置 HGKHT...M 可换头及其它标准的柄部形式，订货时须注明。

Series HGLX ... BT50 is suitable for large depth of cut and large roughing milling stepped surface. Helical cutter head can be replaced when the head is damaged. It is easy to use and reduced tool costs. There are two kinds of replaced head, HGKHT ... L, and HGKHT ... M. HGKHT ... L is suitable for milling facade and front surface that the milling amount is not large. HGKHT ... M is suitable for milling a stepped surface that the milling amount is large. The tool is assembled HGKHT...L interchangeable head, shank DIN2050 50 when the tool is ex-work. If user need HGKHT ... M or other shank please specify.

刀具配件

SPARE PARTS

型号 Type	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
HGLX...BT50	SPE-55R02		HD50-16-T20	HT20
	SPE-55R03		HD50-16-T20	HT20

可换头

INTERCHANGEABLE HEAD



型号 Type	D	H	d	刀片型号 / 刀片数 Type / Number of inserts		刃沟数 Number of groove
				SPE-55R02	SPE-55R03	
HGKHT 063-030-L	63	29.8	16	4	2	4
HGKHT 080-030V-L	80	29.8	20	4	2	4
HGKHT 080-030W-L	80	29.8	20	6	3	6
HGKHT 100-030W-L	100	29.8	20	6	3	6










0.6	D	H	d	刀片型号 / 刀片数 Type / Number of inserts			刃沟数 Number of groove	拉紧螺钉数量 Number of Tighten screw	锁紧螺钉数量 Number of Locking screw
				SPE-55R02	SPE-55R03	SPE-55R04			
HGKHT 063-030-M	63	30.5	16	2	2	2	4	1	2
HGKHT 080-030V-M	80	30.5	20	2	2	2	4	1	2
HGKHT 080-030W-M	80	30.5	20	3	3	3	6	1	2
HGKHT 100-030W-M	100	30.5	20	3	3	3	6	1	2

HGKHT...L/M 系列可换头是 HGLX...BT50 系列螺旋立铣刀配用的 L/M 类可换头。

Series HGKHT...L/M's interchangeable head is HGLX...BT50 equipped with L/M Series.

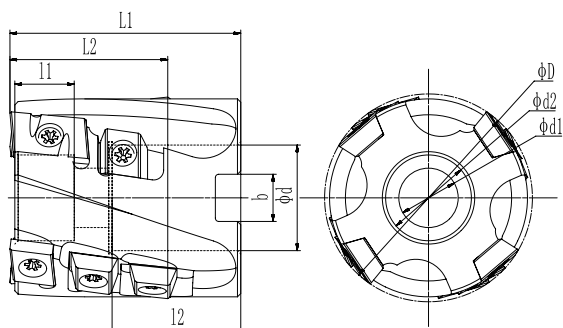
刀具配件

SPARE PARTS

适用直径 Applicable diameter	刀片 Inserts		螺钉 Screw	扳手 Wrench	拉紧螺钉 Tighten screw
					
Φ63	SPE-55R02		HD50-16-T20	HT20	70070-434M
	SPE-55R03				
	SPE-55R04				
Φ80-100	SPE-55R02		HD50-16-T20	HT20	70070-435M
	SPE-55R03				
	SPE-55R04				

套式可转位螺旋立铣刀

INDEXABLE HELIX END MILLS WITH HOLE



型号 Type	D	L ₁	L ₂	l ₁	l ₂	d	d ₁	d ₂	b	螺旋沟 Spiral groove	刀片型号 / 刀片数 Type / Number of inserts		
											SPE55R020	SPE55R03	SPE55R04
HGLX063-047-TS	63	70	47	18	40	32	26	26	14.3	4	6	2	2
HGLX080-064-TS	80	80	64	18	45	32	26	26	14.3	6	15	3	3
HGLX100-084-TS	100	100	84	22	55	40	56	56	16.2	6	21	3	3
HGLX125-092-TS	125	110	92	26	60	50	82	82	18.3	8	32	4	4
HGLX160-070-TS	160	104	70	30	60	60	100	100	25.7	10	30	5	5

HGLX...TS 系列, 适用于在大功率机床上, 粗铣大型工件的槽孔和台阶面, 更换不同的刀杆, 可满足不同工件加工的要求。更换不同材质的刀片, 可加工钢、铸铁、有色金属等多种材料。

Series HGLX...TS is applied to high-power machine, Roughing large workpiece's slot and stepped surface, which can meet the requirements of different workpieces when replace the arbor, Changing different material blade can be processed steel, cast iron, Non-ferrous metals

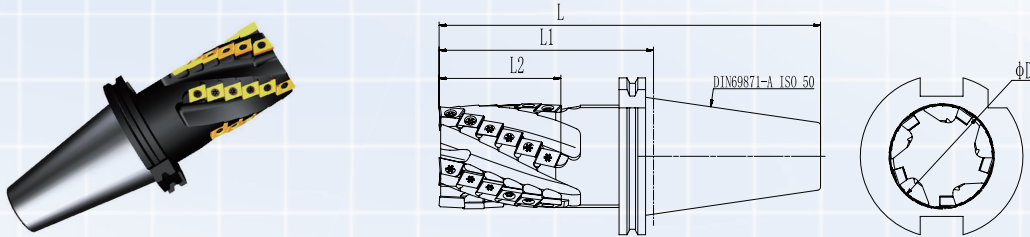
刀具配件

SPARE PARTS

适用直径 Applicable diameter	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
Φ63	SPE-55R02		HD50-13-T20	HT20
	SPE-55R03			
	SPE-55R04			
Φ80-100	SPE-55R02		GD50-16-T20	
	SPE-55R03			
	SPE-55R04			

可转位高效螺旋立铣刀

INDEXABLE HIGH EFFICIENCY HELIX END MILLS







型号 Type	D	L	L1	L2	螺旋沟 Spiral groove	刀片数 Number of blade	
						端齿 End teeth	圆周齿 Circumferential teeth
HGLX050-060V07-GX	50	217	115	60	3	3	12
HGLX050-060W07-GX	50	217	115	60	4	4	16
HGLX050-060X07-GX	50	217	115	60	5	5	20
HGLX063-072V07-GX	63	215	113	72	4	4	20
HGLX063-095V07-GX	63	240	138	95	4	4	28
HGLX063-072W07-GX	63	215	113	72	5	5	25
HGLX063-095W07-GX	63	240	138	95	5	5	35
HGLX063-072X07-GX	63	215	113	72	6	6	30
HGLX063-095X07-GX	63	240	138	95	6	6	42
HGLX080-095V07-GX	80	252	150	95	5	5	35
HGLX080-095W07-GX	80	252	150	95	6	6	42
HGLX080-095X07-GX	80	252	150	95	8	8	56

HGLX...GX 系列, 适用于在大功率机床上高效铣削立面、台阶面、槽及凹腔。与一般可转位螺旋立铣刀比较, 该铣刀有效齿增加一倍, 因此进给量可增加 2~2.5 倍。更换不同材质的刀片, 可加工钢、铸铁、有色金属, 包括钛合金和稀有金属。铣刀柄部型式, 可根据用户的要求设计制造。

Series HGLX...GX, is for high-power machine to mill facade, stepped surface, slot and cavity. Compared with indexable spiral end mill, The cutter's effective tooth is doubling. The feed amount is 2 to 2.5 times increase. Changing different material blade can be processed steel, cast iron, titanium, Non-ferrous metals and rare metals. The cutter's shank can be designed and manufactured according to user requirements.

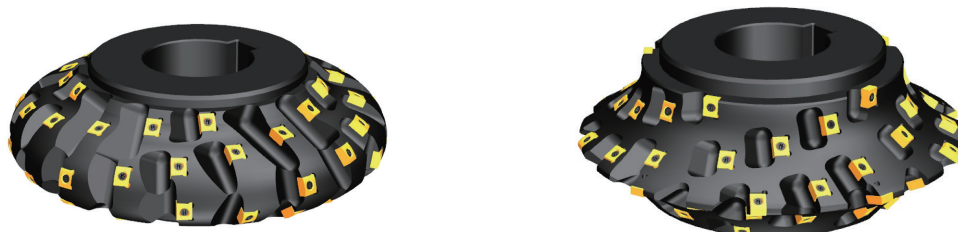
刀具配件

SPARE PARTS

适用刀具 Type	刀片 Inserts		螺钉 Screw	扳手 Wrench
				
HGLX...GX	ZDE324K08		HD40-11	HT15
	CDE322LKH03		HD40-11	HT15

可转位螺杆转子铣刀

INDEXABLE SCREW ROTOR MILLS



1. 可转位螺杆转子铣刀是一款专业化刀具，适于在专用机床上对螺杆转子进行高效粗铣加工。
2. 铣刀刀片切向排列，充分利用了硬质合金抗压特点，能承受大的切削载荷，切削刃有较高的强度、提高了铣削效率。铣刀零件少、刀片转位方便快捷，该铣刀粗加工螺杆转子，可得到明显的经济效益。我公司可根据用户提出的螺旋转子截形尺寸，粗铣刀可预留精加工量。铣刀外廓形线是通过硬质合金特制刀片分段搭接逼近曲线，为国内许多专业厂家设计制造了直径180~400不同型线、各种规格的可转位螺杆转子铣刀，铣刀外径及安装尺寸等设计按用户设备定制适用的铣刀。

1. Indexable screw rotor cutter is a specialized tool suitable for rough milling screw rotor on machine.
2. Cutter blade tangential arrangement, make full use of the hard alloy compression characteristics, can bear large cutting load, cutting edge has high strength, improve the milling efficiency. The milling cutter has fewer parts and the cutter blade is convenient and quick, and the cutter can be processed with a screw rotor, and the obvious economic benefit can be obtained. Our company can be based on the user's spiral rotor section size, rough milling cutter can be reserved for the amount of refined. Cutter outer contour line is through a special hard alloy blade sectional lapping curve approximation, the domestic many professional manufacturers for the design and manufacturing the diameter of 180 to 400 different types of lines, a variety of specifications of the transposition of the screw rotor milling cutter, milling cutter diameter and installation size design customized according to the user equipment is suitable for milling cutter.

可转位道岔铣刀

INDEXABLE COPYING MILLS



我公司可根据用户的需要进行各种非标铣刀的制造

According to the needs of users, can manufacture all kinds of non_standard mills.

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