

# 刃具 Cutting Tools



## 全磨制铣刀

### Solid Ground-Flute Cutter

目前生产的铣刀品种有：

高速钢材料：

- 3-25mm 直柄立铣刀  
1/8" -1"
- 3-25mm 直柄键槽铣刀  
1/8" -1"
- 63-200mm 锯片铣刀
- 40-75mm 螺钉槽铣刀
- 超薄型大、小直径锯片  
铣刀、螺钉槽铣刀
- 含铝高速钢立铣刀
- 含钴高速钢立铣刀

硬质合金材料的：

- 锯片铣刀、螺钉槽铣刀、  
模具铣刀、旋锉铣刀。

还可根据用户的特殊需要或来图  
来样生产。

公制立铣刀、键槽铣刀按ISO生  
产。

英制立铣刀、键槽铣刀按美国标  
准ANSI.B94.19生产。

还可按西德标准DIN844/327或日  
本标准JISB4211生产。

**Present Varifies:**

**Made of HSS:**

- 3-25mm Straight Shank End  
Mills
- 1/8" -1"

- 3-25mm Straight Shank End  
Mills with Two Flutes
- 1/8" -1"

- 63-200mm Metal Slitting Saws
- 40-75mm Slotting Milling Cutters
- Superthin Metal Cutters, in  
Large/Small Diameter.

As well as HSSAL, HSSCO

**Made of carbide:**

Metal slitting Saws, Slotting Milling  
Cutter. Die-Cutters and Rotary Burrs.  
Special orders or designed drawing  
will be also accepted.

Metric System End Mills are  
produced according to ISO standard  
as well as DIN standard 844/327 or  
JISB 4211. Inch-End Mills are made  
in accordance with the American  
standard ANSI, B94.19.



镀层立铣刀  
Tin Coated End Mills

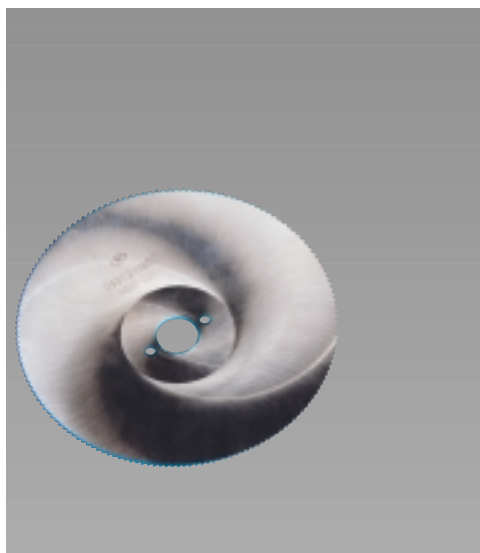
## 全磨制立铣刀

### Solid Ground-Flute End Mill



## 优质高效含钴铣刀

含钴刀具已在现代加工中普遍使用。  
我厂可根据用户需要生产各种类型的  
含钴高速钢立铣刀，锯片铣刀等。



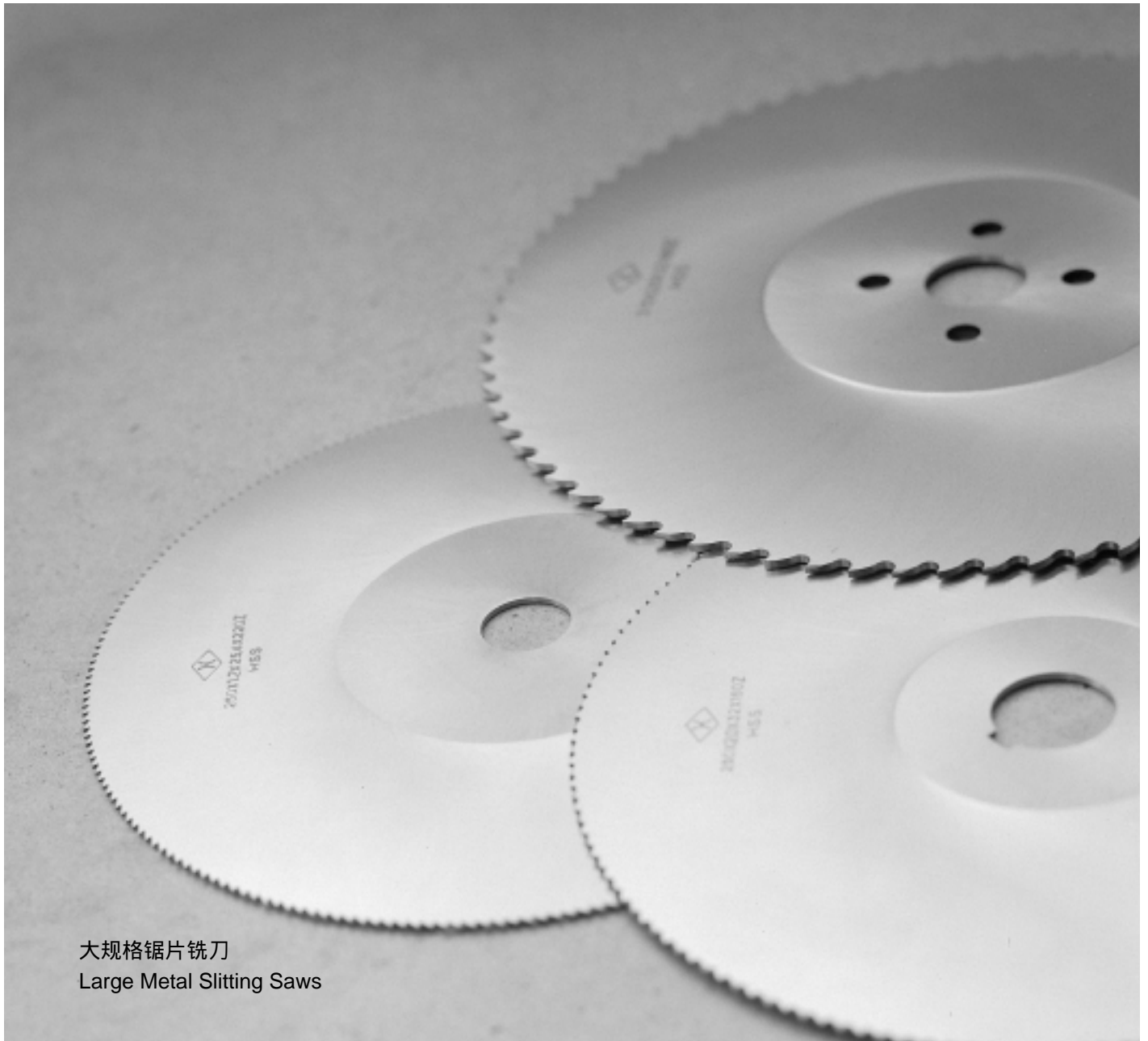
## 全磨制锯片铣刀

### Solid Ground Metal Slitting Saws

全磨制锯片铣刀切口铣刀，其齿形在热处理后，最后用CBN砂轮在CNC机床上磨削而成。前刃面与槽底圆弧连接光滑，齿形表面粗糙度值低，无脱碳层。切削刃锋利。使用全磨制铣刀，铣削轻快切屑流畅，能消除毛刺，铣刀使用寿命长。细齿铣刀特别适用于加工薄壁零件。

Slotting milling cutters and solid ground metal slitting saws, after the ground to form by CBN grinding wheel on CNC grinding machine. The highly finished top face was connected smoothly to the arc in bottom of flute, there's no decarbonised layer, cutting edge is sharp. Solid-ground end mill cuts quickly with fluent swarf without burr and the life of end mill is long.

The fine teeth mill is particularly suitable for machine thin wall parts.



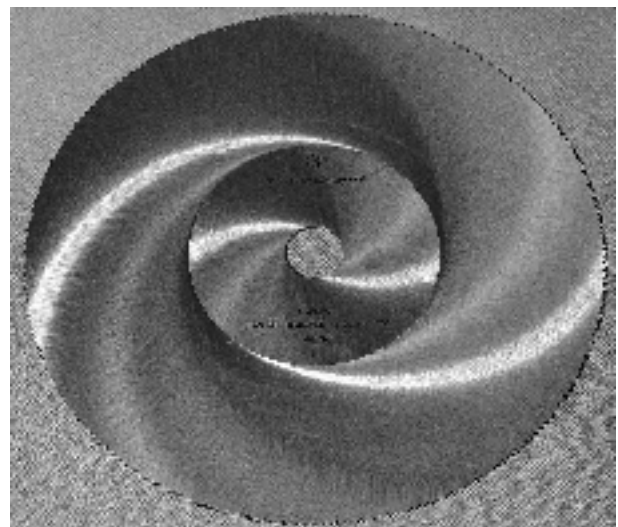
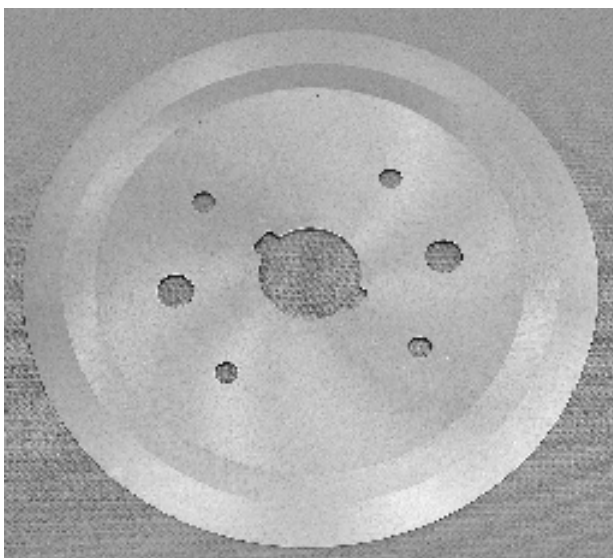
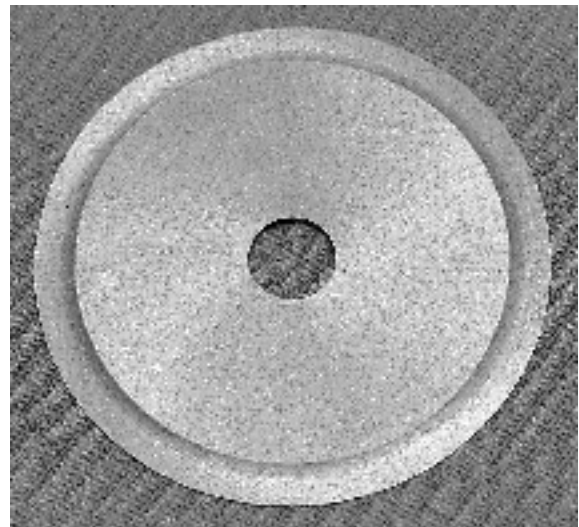
大规格锯片铣刀  
Large Metal Slitting Saws

# 全磨制锯片铣刀

## Solid Ground Metal Slitting Saws

直径 Diameter (mm)	厚度 Thickness (mm)	内孔 Diameter of Hole (mm)	齿数 Teeth No.
80	0.8	27	115
100	1	32	180
150	1.5	32	600
200	1.2	32	160
210	1.5	32	240
250	1	25.4 32	220
	1.2		300
250	1.6	25.4 31.75	64 80
	1.8		100 160
	2		180 220
	2.5		无齿
	3		无齿
300	1.6	31.75 32	80 120
	2		220 300
	2.5		450
	3		无齿
315	2.5	31.75 32	80 120
	3		180 220
350	6		300

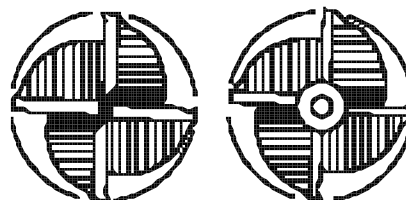
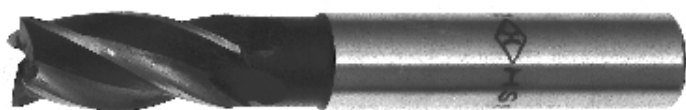
型式	齿型
A	
B	
C	
BW	



# 全磨制立铣刀

## Solid Ground-Flute End Mills

Code No. 101- 102-



中心切削 (无中心孔)和一般用途 (有中心孔)两种立铣刀可供用户选择。

中心切削立铣刀可用于铣削凹槽、模腔、仿型板等。  
 We have various types of cutters for you to select: 1.

Center Cutting End Mills (without center hold). 2. General Purpose End Mills (with center hole)

The Center Cutting End Mills are designed for pocketing, die sinking, tractor controlled and cavity milling operations.

立铣刀齿数有3、4、5、6、8齿五种。订货时请写明编号、齿数、有无中心孔。如: 102-017, 4齿, 物中心孔。

There are five type of teeth number of End Mill, 3, 4, 5, 6, or 8 teeth.

In ordering, please state the code number, teeth number & with or without centre hole e.g. 102-017, 4 teeth without centre hole.

公制立铣刀、键槽铣刀按ISO生产。

英制立铣刀、键槽铣刀按美国标准ANSI, B94.19生产。  
 还可按西德标准DIN844/327或日本标准JISB4211生产。

Metric System End Mills are produced according to ISO standard as well as DIN Standard 844/327 or JIS B4211

Inch-End Mills are made in accordance with the American Standard ANSI, B94.19.

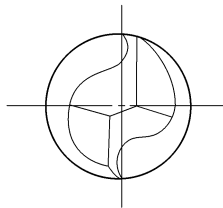
(mm)				
刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	编号 Code No.
3	4	8	40	101-001
4	4	11	43	101-002
5	5	13	47	101-003
6	6	13	57	101-004
7	8	16	60	101-005
8	8	19	63	101-006
9	10	19	69	101-007
10	10	22	72	101-008
11	12	22	79	101-009
12	12	26	83	101-010
14	12	26	83	101-011
16	16	32	92	101-012
18	16	32	92	101-013
20	20	38	104	101-014
22	20	38	104	101-015
25	25	45	121	101-016

(inch)				
刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	编号 Code No.
1/8	3/8	3/8	2 <sup>5</sup> / <sub>16</sub>	102-017
3/16	3/8	1/2	2 <sup>3</sup> / <sub>8</sub>	102-018
1/4	3/8	5/8	2 <sup>7</sup> / <sub>16</sub>	102-019
5/16	3/8	3/4	2 <sup>1</sup> / <sub>2</sub>	102-020
3/8	3/8	3/4	2 <sup>1</sup> / <sub>2</sub>	102-021
7/16	3/8	1	2 <sup>11</sup> / <sub>16</sub>	102-022
1/2	1/2	1 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	102-023
9/16	1/2	1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	102-024
5/8	5/8	1 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	102-025
11/16	5/8	1 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	102-026
3/4	3/4	1 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	102-027
7/8	7/8	1 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	102-028
1	1	2	4 <sup>1</sup> / <sub>2</sub>	102-029

# 全磨制键槽铣刀

## Solid Ground-Flute Two-Flute End Mills

Code No. 103- 104-



(mm)

刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	编号 Code No.
3	4	5	37	103-030
4	4	7	39	103-031
5	5	8	42	103-032
6	6	8	52	103-033
7	8	10	54	103-034
8	8	11	55	103-035
10	10	13	63	103-036
12	12	16	73	103-037
14	12	16	73	103-038
16	16	19	79	103-039
18	16	19	79	103-040
20	20	22	88	103-041
22	20	22	88	103-042
25	25	26	102	103-043

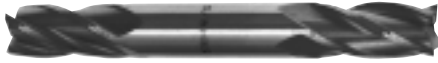
(inch)

刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	编号 Code No.
1/8	3/8	3/8	2 <sup>5</sup> / <sub>16</sub>	104-044
3/16	3/8	7/16	2 <sup>5</sup> / <sub>16</sub>	104-045
1/4	3/8	1/2	2 <sup>5</sup> / <sub>16</sub>	104-046
5/16	3/8	9/16	2 <sup>5</sup> / <sub>16</sub>	104-047
3/8	3/8	1/2	2 <sup>5</sup> / <sub>16</sub>	104-048
7/16	3/8	13/16	2 <sup>1</sup> / <sub>2</sub>	104-049
1/2	3/8	13/16	2 <sup>1</sup> / <sub>2</sub>	104-050
1/2	1/2	1	3	104-051
9/16	1/2	1 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	104-052
5/8	1/2	1 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	104-053
11/16	1/2	1 <sup>5</sup> / <sub>16</sub>	3 <sup>5</sup> / <sub>16</sub>	104-054
3/4	1/2	1 <sup>5</sup> / <sub>16</sub>	3 <sup>5</sup> / <sub>16</sub>	104-055
5/8	5/8	1 <sup>5</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	104-056
11/16	5/8	1 <sup>5</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	104-057
3/4	5/8	1 <sup>5</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	104-058
13/16	5/8	1 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	104-059
7/8	5/8	1 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	104-060
1	5/8	1 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	104-061
7/8	7/8	1 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	104-062
1	7/8	1 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	104-063

## 全磨制双头立铣刀

### Solid-Ground Double-End End Mills

Code No. 132-



(mm)				
刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	编号 Code No.
1/8	3/8	3/8	3-1/6	132-274
3/16	3/8	1/2	3-1/4	132-275
1/4	3/8	5/8	3-3/8	132-276
5/16	3/8	3/4	3-1/2	132-277
3/8	3/8	3/4	3-1/2	132-278
1/2	1/2	1	4-1/8	132-279
5/8	5/8	1-3/8	5	132-280
3/4	3/4	1-5/8	5-5/8	132-281
7/8	7/8	1-7/8	6-1/8	132-282
1	1	1-7/8	6-3/8	132-283

## 全磨制双头键槽铣刀

### Solid-Ground Double-End Two-Flute End Mills

Code No. 133-



(inch)				
刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	编号 Code No.
1/8	3/8	3/8	3-1/16	133-284
5/32	3/8	7/16	3-1/8	133-285
3/16	3/8	7/16	3-1/8	133-286
7/32	3/8	1/2	3-1/8	133-287
1/4	3/8	1/2	3-1/8	133-288
9/32	3/8	9/16	3-1/8	133-289
5/16	3/8	9/16	3-1/8	133-290
11/32	3/8	9/16	3-1/8	133-291
3/8	3/8	9/16	3-1/8	133-292
13/32	1/2	13/16	3-3/4	133-293
7/16	1/2	13/16	3-3/4	133-294
15/32	1/2	13/16	3-3/4	133-295
1/2	1/2	13/16	3-3/4	133-296
9/16	5/8	1-1/8	4-1/2	133-297
5/8	5/8	1-1/8	4-1/2	133-298
11/16	3/4	1-5/16	5	133-299
3/4	3/4	1-5/16	5	133-300
7/8	7/8	1-9/16	5-1/2	133-301
1	1	1-5/8	5-7/8	133-302

# 全磨制锯片铣刀

## Solid Ground Metal Slitting Saws

Code No. 105-



(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.	编号 Code No.
60	1	16	36	105-303
	1.5			105-304
	2		30	105-305
	2.5			105-306
75	1	22	36	105-307
	1.5			105-308
	2		30	105-309
	2.5			105-310
	3	105-311		
110	1.5	27	50	105-312
	2			105-313
	2.5		40	105-314
	3			105-315
	3.5			105-316
150	2	32	60	105-317
	2.5			105-318
	3		50	105-319
	3.5			105-320
	4			105-321
200	3	32	60	105-322
	3.5			105-323
	4		50	105-324
	5			105-325

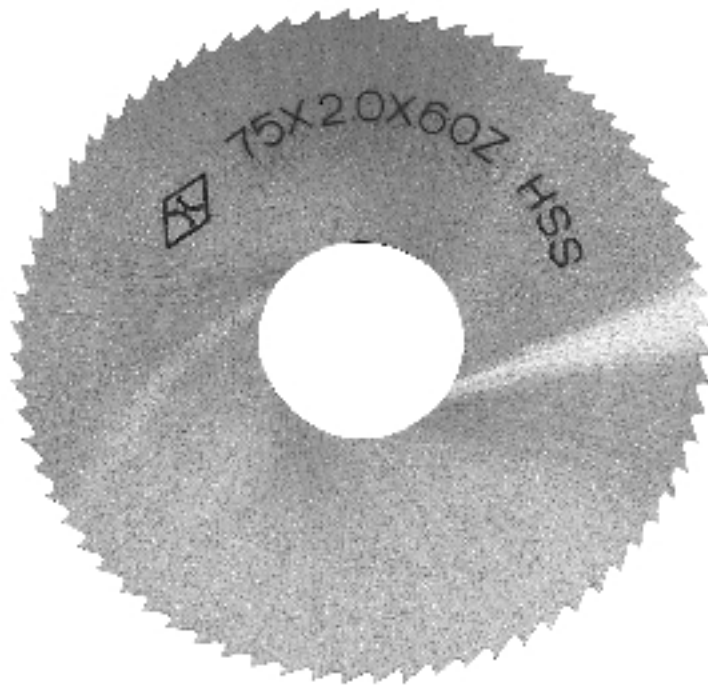
(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.	编号 Code No.
63	1	16	48	105-064
	1.6			105-065
	2		40	105-066
	2.5			105-067
	3	105-068		
80	1.6	22	48	105-069
	2			105-070
	2.5		40	105-071
	3			105-072
	4	105-073		
100	1.6	22 (27)	48	105-074
	2			105-075
	2.5			105-076
	3		40	105-077
	4			105-078
	5	105-079		
125	1.6	22 (27)	64	105-080
	2			105-081
	2.5		48	105-082
	3			105-083
	4			105-084
	5	40	105-085	
160	2	32	64	105-086
	2.5			105-087
	3		48	105-088
	4			105-089
200	3	32	64	105-090
	4			105-091
	5		48	105-092
	6			105-093

# 全磨制螺钉槽铣刀 (切口铣刀)

## Solid Ground-Flute Slotting Milling Cutters

Code No. 106-



(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.		编号 Code No.
			I	III	
	0.3				106-094
	0.4				106-095
40	0.5	13	72	90	106-096
	0.6				106-097
	0.8				106-098
	1				106-099
	0.5				106-100
	0.6				106-101
	0.8				106-102
60	1	16	60	72	106-103
	1.2				106-104
	1.6				106-105
	2				106-106
	1				106-107
	1.2				106-108
	1.6				106-109
75	2	22	60	72	106-110
	2.5				106-111
	3				106-112
	4				106-113
	5				

订货时请写明编号、齿数，如106-094，72齿。  
 In ordering, Please state the code number and number of teeth e.g. 106-094, 72 teeth.

(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.		编号 Code No.
			I	III	
	0.3				106-326
	0.4			56	106-327
40	0.5	13			106-328
	0.6			50	106-329
	0.8			44	106-330
	1			40	106-331
	0.5				106-332
	0.6			72	106-333
	0.8				106-334
60	1	16		60	106-335
	1.2				106-336
	1.5				106-337
	2			50	106-338
	1			72	106-339
	1.2				106-340
	1.5				106-341
	2			60	106-342
75	2.5	22			106-343
	3				106-344
	4			50	106-345
	5				106-346

## 全磨制硬质合金螺钉槽铣刀

### Solid-Ground Carbide Slotting Milling Cutters

Code No. 134-

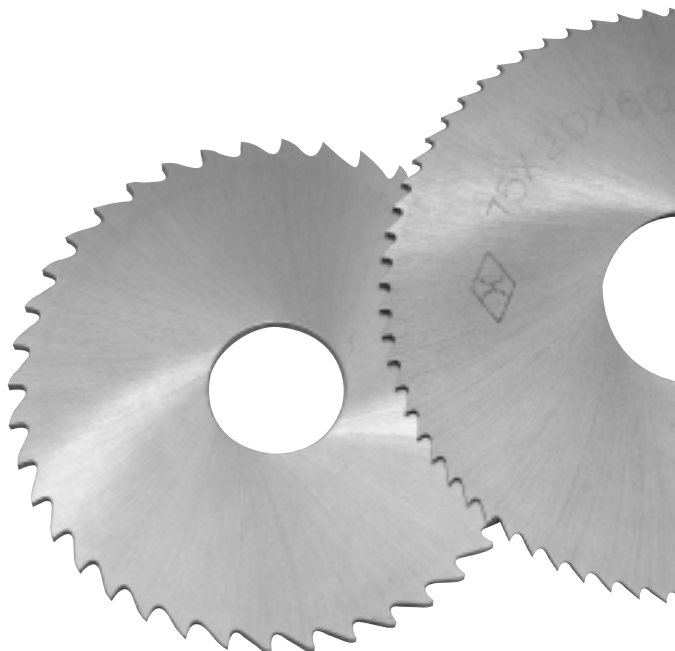
(mm)				
直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.	编号 Code No.
40	0.3	13	56	134-347
	0.4			134-348
	0.5			134-349
	0.6		50	134-350
	0.8		44	134-351
	1		40	134-352
60	.5	16	72	134-353
	0.6			134-354
	0.8		134-355	
	1		60	134-356
	1.2		134-357	
	1.5		134-358	
	2		50	134-359
75	1	22	72	134-360
	1.2			134-361
	1.5			134-362
	2		60	134-363
	2.5		134-364	
	3		134-365	
	4		50	134-366
	5		134-367	

## 全磨制硬质合金锯片铣刀

### Solid-Ground Carbide Metal Slitting Saws

Code No. 135-

(mm)				
直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.	编号 Code No.
60	1	16	36	135-368
	1.5			135-369
	2		30	135-370
	2.5			135-371
75	1	22	36	135-372
	1.5			135-373
	2			135-374
	2.5		30	135-375
	3			135-376
110	1.5	27	50	135-377
	2			135-378
	2.5		40	135-379
	3			135-380
	3.5			135-381
(mm)				
直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.	编号 Code No.
63	1	16	48	135-382
	1.6			135-383
	2		40	135-384
	2.5			135-385
	3			135-386
80	1.6	22	48	135-387
	2			135-388
	2.5		40	135-389
	3			135-390
	4			135-391
100	1.6	22 (27)	48	135-392
	2			135-393
	2.5		40	135-394
	3			135-395
	4			135-396
125	5	22 (27)	64	135-397
	1.6			135-398
	2		135-399	
	2.5		48	135-400
	3			135-401
4	135-402			
	5	40	135-403	



## 螺钉槽铣刀 (切口铣刀)

### Slotting Milling Cutters

Code No. 107- 108-



(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.	编号 Code No.
40	0.3	13	56	107-115
	0.4			107-116
	0.5			107-117
	0.6			107-118
	0.8			107-119
	1			107-120
60	0.5	16	60	107-121
	0.6			107-122
	0.8			107-123
	1			107-124
	1.2			107-125
	1.5			107-126
	2			107-127
75	1	22	60	107-128
	1.2			107-129
	1.5			107-130
	2			107-131
	2.5			107-132
	3			107-133
	4			107-134
	5			107-135

(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.		编号 Code No.
			I	III	
40	0.3	13	72	90	108-136
	0.4				108-137
	0.5				108-138
	0.6				108-139
	0.8				108-140
	1				108-141
60	0.5	16	60	72	108-142
	0.6				108-143
	0.8				108-144
	1				108-145
	1.2				108-146
	1.6				108-147
	2				108-148
75	1	22	60	72	108-149
	1.2				108-150
	1.6				108-151
	2				108-152
	2.5				108-153
	3				108-154
	4				108-155
	5				108-156

## 锯片铣刀

### Metal Slitting Saws

Code No. 109- 110-



(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.	编号 Code No.
60	1	16	36	109-157
	1.5			109-158
	2			109-159
	2.5			109-160
	1			109-161
75	1.5	22	36	109-162
	2			109-163
	2.5			109-164
	3			109-165
	1.5			109-166
110	2	27	50	109-167
	2.5			109-168
	3			109-169
	3.5			109-170
	2			109-171
150	2.5	32	60	109-172
	3			109-173
	3.5			109-174
	4			109-175
	3			109-176
200	3.5	32	60	109-177
	4			109-178
	4			109-179
	5			109-179

(mm)

直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.		编号 Code No.
			I	III	
63	1	16	48	40	110-180
	1.6				110-181
	2				110-182
	2.5				110-183
	3				110-184
80	1.6	22	48	40	110-185
	2				110-186
	2.5				110-187
	3				110-188
	4				110-189
100	1.6	22 (27)	48	40	110-190
	2				110-191
	2.5				110-192
	3				110-193
	4				110-194
125	5	22 (27)	48	40	110-195
	1.6				110-196
	2				110-197
	2.5				110-198
	3				110-199
160	4	32	64	48	110-200
	5				110-201
	2				110-202
	2.5				110-203
	3				110-204
200	4	32	64	48	110-205
	3				110-206
	4				110-207
	4				110-208
	6				110-209

## 直柄立铣刀

### Straight Shank End Mills

Code No. 111-



(mm)							
刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	齿数 Teeth No.			编号 Code No.
				I	II	III	
3	4	8	40				111-210
4	4	11	43				111-211
5	5	13	47				111-212
6	6	13	57		4		111-213
7	8	16	60				111-214
8	8	19	63				111-215
9	10	19	69	3	4		111-216
10	10	22	72				111-217
11	12	22	79			5	111-218
12	12	26	83				111-219
14	12	26	83				111-220
16	16	32	92				111-221
18	16	32	92			6	111-222
20	20	38	104				111-223

## 直柄键槽铣刀

### Straight Shank Two-Flute End Mills

Code No. 112-



(mm)				
刃部直径 Mill Dia.	柄部直径 Shank Dia.	刃部长度 Flute Length	全长 Overall Length	编号 Code No.
3	4	5	37	112-224
4	4	7	39	112-225
5	5	8	42	112-226
6	6	8	52	112-227
7	8	10	54	112-228
8	8	11	55	112-229
10	10	13	63	112-230
12	12	16	73	112-231
14	12	16	73	112-232
16	16	19	79	112-233
18	16	19	79	112-234
20	20	22	88	112-235

## 手用铰刀

### Hand Reamers

精度分H8、H9二级。

Two Accuracy Class: H8, H9

Code No. 113-



(mm)							
直径 Diameter	刃长 Flute Length	全长 Overall Length	编号 Code No.	直径 Diameter	刃长 Flute Length	全长 Overall Length	编号 Code No.
3	40	65	114-259	3	58	80	114-268
4	50	75	114-260	4	68	93	114-269
5	60	85	114-261	5	73	100	114-270
6	70	95	114-262	6	105	135	114-271
8	95	125	114-263	8	145	180	114-272
10	120	155	114-264	10	175	215	114-273
12	140	180	114-265				
16	160	200	114-266				
20	180	225	114-267				

(mm)							
直径 Diameter	刃长 Flute Length	全长 Overall Length	编号 Code No.	直径 Diameter	刃长 Flute Length	全长 Overall Length	编号 Code No.
3	31	62	113-236	15	81	163	113-248
4	38	76	113-237	16	87	175	113-249
5	44	87	113-238	17	87	175	113-250
6	47	93	113-239	18	93	188	113-251
7	54	107	113-240	19	93	188	113-252
8	58	115	113-241	20	100	201	113-253
9	62	124	113-242	21	100	201	113-254
10	66	133	113-243	22	107	215	113-255
11	71	142	113-244	23	107	215	113-256
12	76	152	113-245	24	115	231	113-257
13	76	152	113-246	25	115	231	113-258
14	81	163	113-247				

## 1: 50锥度销子铰刀

### 1: 50 Taper Pin Reamers

Code No. 114-



## 锥柄立铣刀

### Taper Shank End Mills

Code No. 115-



直径 Diameter	刃长 Flute Length	全长 Overall Length	齿数			莫氏锥柄号 Morse Taper No.
			Teeth No.			
			I	II	III	
14	26	111	5			
16	32	117				2
18						
20	38	123	3	4	6	
22		140				
25	45	147				3
28						
32	53	178				4
36	63		4	6	8	
40		221				

## 锥柄键槽铣刀

### Taper Shank Two-Flute End Mills

Code No. 116-



直径 Diameter	刃长 Flute Length	全长 Overall Length	莫氏锥柄号 Morse Taper No.				
				14	24	110	
				16	28	115	
18	32	120	2				
20	36	125					
22							
25	40	145	3				
28	45	150					
32	50	155					
36	55	185	4				
40	60	190					
45	65	195					
50							

## 直柄圆锥形球头模具铣刀

### Die Sinking End Mills-Tapered Ball Nose End Mills with Parallel Shank

Code No. 136-



圆锥形球头铣刀主要用于各种形状模具的铣削加工。生产规格分短型、标准型和长型、锥度半角为 $3^\circ$ 、 $5^\circ$ 、 $7^\circ$ 、 $10^\circ$ 四种，球头直径： $d2.5$ ~ $d20$ mm。

Conical ball-nose, and mill is mainly manufacturing various shape die sets, we have various type of cutters: short, standard, long, coning semiangle has four types of  $3^\circ$ ,  $5^\circ$ ,  $7^\circ$ ,  $10^\circ$ , Ball-nose diameter:  $d2.5$ ~ $d20$ mm.

## 螺柄圆柱形球头模具钻刀

### Die Sinking End Mills-Cylindrical Ball Nose End Mills with Thread Shank

Code No. 137-



圆柱形球头铣刀主要用于各种形状模具的铣削加工。生产规格分短型、标准型和长型。球头直径： $d4$ ~ $D63$ mm。

Cylindrical ball-nose end mill mainly suit for machining various shape die sets. We have various type of cutters: short, standard, long. Ball-nose Diameter:  $d4$ ~ $d63$ mm.

## 粗加工立铣刀

### Rough Cut End Mills

Code No. 139-



- 可以生产含钴及不含钴高速钢粗加工立铣刀
- 可以按国家标准生产和非标准生产
- Provide with cobaltic HSS end mills
- Produce according to national standard or non standard

## 直柄T型槽铣刀

### T-Slot Cutters With Straight Shank

Code No. 126-



(mm)

直径 Diameter	厚度 Thick- ness	全长 Overall Length	柄部直径 Shank Dia.	直径 Diam- eter	厚度 Thick- ness	全长 Overall Length	柄部直径 Shank Dia.
11	3.5	53.5		32	14	90	16
12.5	6	57	10	36	15.5	101	
16	8	62		40	18	108	25
18	8	70	12	45	20	112	
21	9	74		50	22	124	
25	11	82	16	57	24	131	32
29	12.5	85		60	28	139	

## 直柄机用铰刀

### Machine Reamers With Straight Shank

Code No. 127-



(mm)

直径 Diameter	全长 Overall Length	刃长 Flute Length	精度 Class	直径 Diam- eter	全长 Overall Length	刃长 Flute Length	精度 Class
3	61	15		8	33	33	
3.2	65	16		9	36	36	
3.5	70	18		10	38	38	
4	75	19	H7	11	41	41	H7
4.5	80	21	H8	12	44	44	H8
5	86	23	H9	14	47	47	H9
5.5	93	26		16	52	52	
6	93	26		18	56	56	
7	109	31		20	60	60	

## 齿轮滚刀

### Gear Hobs

Code No. 128-



齿轮滚刀用于滚切直齿或斜齿渐开线圆柱齿轮。分模数制和径节制两种。滚刀的精度有A、B、C三种。通常生产单头、右旋、直沟1~10模数(或相应径节)的齿轮滚刀。订货时请注明:模数(或径节)的精度等级和名称。例:128-m1.5A级齿轮滚刀。

Gear Hobs are applied to cut involute cylindrical gears with straight or bevel teeth. They are divided into the module system and pitch system. Accuracy are grade, A, B, C. As usual, the single thread, right hand & straight flute gear hobs in module 1-10 (or relative pitch) are made. In ordering please state: module (or pitch), accuracy grade and name, e.g. 128-m1.5A Gear Hob.

## 直齿三面刃铣刀

### Side Milling Cutters with Straight Teeth

Code No. 117-



(mm)								
直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.		直径 Diameter	厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.
			I	II				
50	4	16	14	12	63	14	22	16 14
	5					16		
	6					5		
	7					6		
	8					7		
63	10	22	16	14	80	8	27	18 16
	4					10		
	5					12		
	6					14		
	7					16		
63	8	22	16	14	80	18	27	18 16
	10					20		
	12							

## 对称双角铣刀

### Symmetric Double-Angle Milling Cutters

Code No. 118-

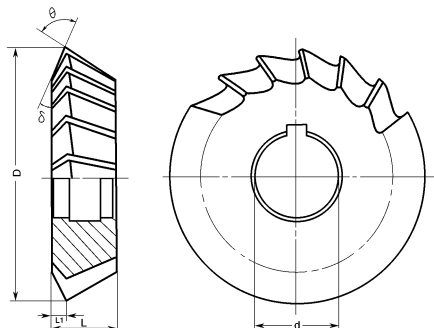


(mm)							
直径 Diameter	厚度 Thick- ness	内孔 Diam- eter of Hole	齿数 Teeth No.	直径 Diam- eter	厚度 Thick- ness	内孔 Diam- eter of Hole	齿数 Teeth No.
22°	6	45°	18				
25°	7	90°	27				
30°	8	18°	10				
40°	10	22°	12				
60°	14	25°	13				
90°	20	100	30°	14	32	24	
80	18°	8	27	80	45°	18	22
	22°	10			60°	25	
	25°	11			90°	32	
	30°	12					

## 不对称双角铣刀

### Unsymmetric Double-Angle Milling Cutters

Code No. 119-



(mm)							
D	L	d	L1	Teeth No.			
40	50°	6	13	1.2	18		
	60°	8					
	70°	10					
	80°	10					
	85°	10					
50	90°	13	16	1.5	20		
	100°	13					
	55°	8				22	2
	60°	10					
	70°	10					
80°	13						
85°	13						
63	90°	16	27	3.2	22		
	100°	16					
	55°	10				27	3.5
	60°	13					
	70°	13					
80°	16						
85°	16						
80	50°	13	27	3.2	22		
	60°	16					
	70°	20					

## 单角铣刀

### Single Angle Cutters

Code No. 120-



(mm)				
直径 Diameter		厚度 Thickness	内孔 Diameter of Hole	齿数 Teeth No.
40	45° 50° 60°	8	13	18
	65° 70° 75°	10		
	80° 85° 90°			
50	45° 50° 55°	13	16	
	60° 65° 70°			
	75° 80° 85° 90°			
63	18°	6	22	20
	22°	7		
	25°	8		
	30° 40°	9		
	45° 50° 55° 60° 65° 70°	16		
	75° 80° 85° 90°	20		

## 凹半圆铣刀

### Concave Milling Cutters

Code No.121-



(mm)			
半圆半径 R	直径 Diameter	厚度 Thickness	内孔 Diameter of Hole
1	50	6	16
2	50	9	16
3	63	12	22
4	63	16	22
5	63	20	22
6	80	24	27
8	80	32	27
10	100	36	32
12	100	40	32

## 凸半圆铣刀

### Convex Milling Cutters

Code No. 122-



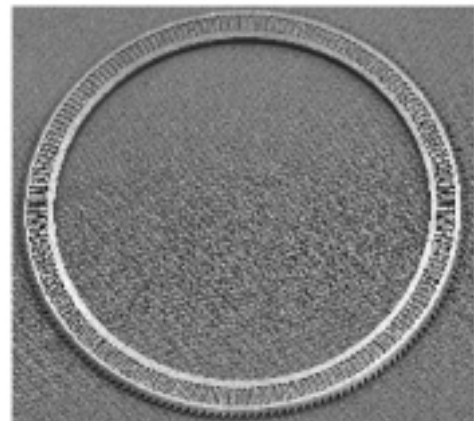
(mm)			
半圆半径 R	直径 Diameter	厚度 Thickness	内孔 Diameter of Hole
1	50	2	16
2	50	4	16
3	63	6	22
4	63	8	22
5	63	10	22
6	80	12	27
8	80	16	27
10	100	20	32
12	100	24	32

## 织袜铣刀

### Weaving Stockings End Mills

Code No. 138-

织袜铣刀专门为织袜厂织袜断丝而设计制造。我厂可根据用户需要，生产各种型号、规格的织袜铣刀。  
 Weaving stocking end mill is specially designed to weave stockings, cut silk for stocking factory. Our factory can manufacture weaving stocking end mill with various types and different specifications.



## 鲤鱼钳铣刀

### Slip-Joint Plier Milling Cutters

Code No. 129-



鲤鱼钳铣刀专门用于加工鲤鱼钳。生产规格一般有6”、8”等。订货时请注明：规格、名称。

例：129-6” 鲤鱼钳铣刀。

These cutters specialize in machining slip-joint pliers.

Production specifications: 6”, 8”, etc.

In ordering please state: specifications, name, e.g. 129-6”, slip-joint Plier Milling Cutters.

## 管子钳铣刀

### Pipe Wrench Milling Cutters

Code No. 130-



管子钳分有台虎、手柄、链条等形式，管子钳铣刀专门用于加工各式管子钳钳口或钳柄。

生产规格：台虎管子钳铣刀一般为1# - 4#，手柄管子钳铣刀一般为6” - 48”。订货时请注明：规格名称。

例：130-8” 手柄管子钳铣刀。

Pipe wrenches are of vice type, handle type, chain type, etc. These cutters specialize in machining assorted pipe wrench jaws or handles.

Production specifications:

Vice Type Pipe Wrench Cutters 1# - 4#

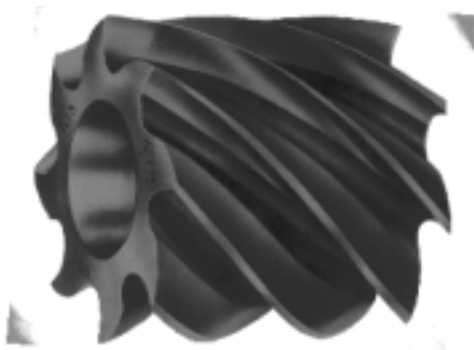
Handle Type Pipe Wrench Cutters 6” - 48”

In ordering please state: specifications, name, e.g. 130-8” Handle Type Pipe Wrench Milling Cutters.

## 圆柱铣刀

### Cylindrical Milling Cutters

Code No. 131-



(mm)

直径 Diameter	内孔 Diameter of Hole	厚度 Thickness	齿数 Teeth No.	
			粗齿 Coarse	细齿 Fine
50	22	50	6	8
		63		
		80		
63	27	50	8	10
		63		
		80		
80	32	100	8	12
		63		
		80		
		100		
		125		

## 花键铣刀

### Spline Milling Cutters

Code No. 123-



花键铣刀专门用于加工直齿花键轴。根据用户所加工的花键轴要求进行制造。

Spline Milling Cutters specialize in machining the spline shafts with straight teeth, which are made according to customers' requirements.

## 齿轮铣刀

### Gear Milling Cutters

Code No. 124-



齿轮铣刀为盘形单片式，是用仿形法铣切精度不太高的渐开线直齿圆柱齿轮的刀具。此铣刀分模数制(压力角为 $20^\circ$ )和径节制(压力角为 $41\frac{1}{2}^\circ$ )两种。生产规格一般为1~10模数(或相应的径节)。

订货时请注明: 模数(或径节)和名称。

例: 124-m5, 3号齿轮铣刀。

Gear Milling Cutters are of disk in shape and single blade type. They are a kind of tools which profile the involute cylindrical gears with straight teeth in general accuracy. They are divided into two, the modular system (pressure angle  $20^\circ$ ) and the pitch system (pressure angle  $14\frac{1}{2}^\circ$ ). Production specifications: module 1-10 (or relative pitch).

in ordering please state: module (or pitch), Cutter number, name e.g. m5, 3#

Gear Milling Cutters.

## 齿条铣刀

### Rack Milling Cutters

Code No. 125-



齿条铣刀专门用于加工齿条。有模数和径节，精和粗之分。生产规格一般为1~10模数(或相应的径节)。

订货时请注明: 模数(或径节)、名称。

例: 125-m3, 25精切齿条铣刀。

Rack Milling Cutters are applied specially to machining racks. They are divided into the module system and the pitch system, coarse cut and fine cut.

Production specifications: Module 1-10 (or relative pitch).

In ordering please state: module (or pitch), name e.g. m3,25 Fine cut Rack Milling Cutters.