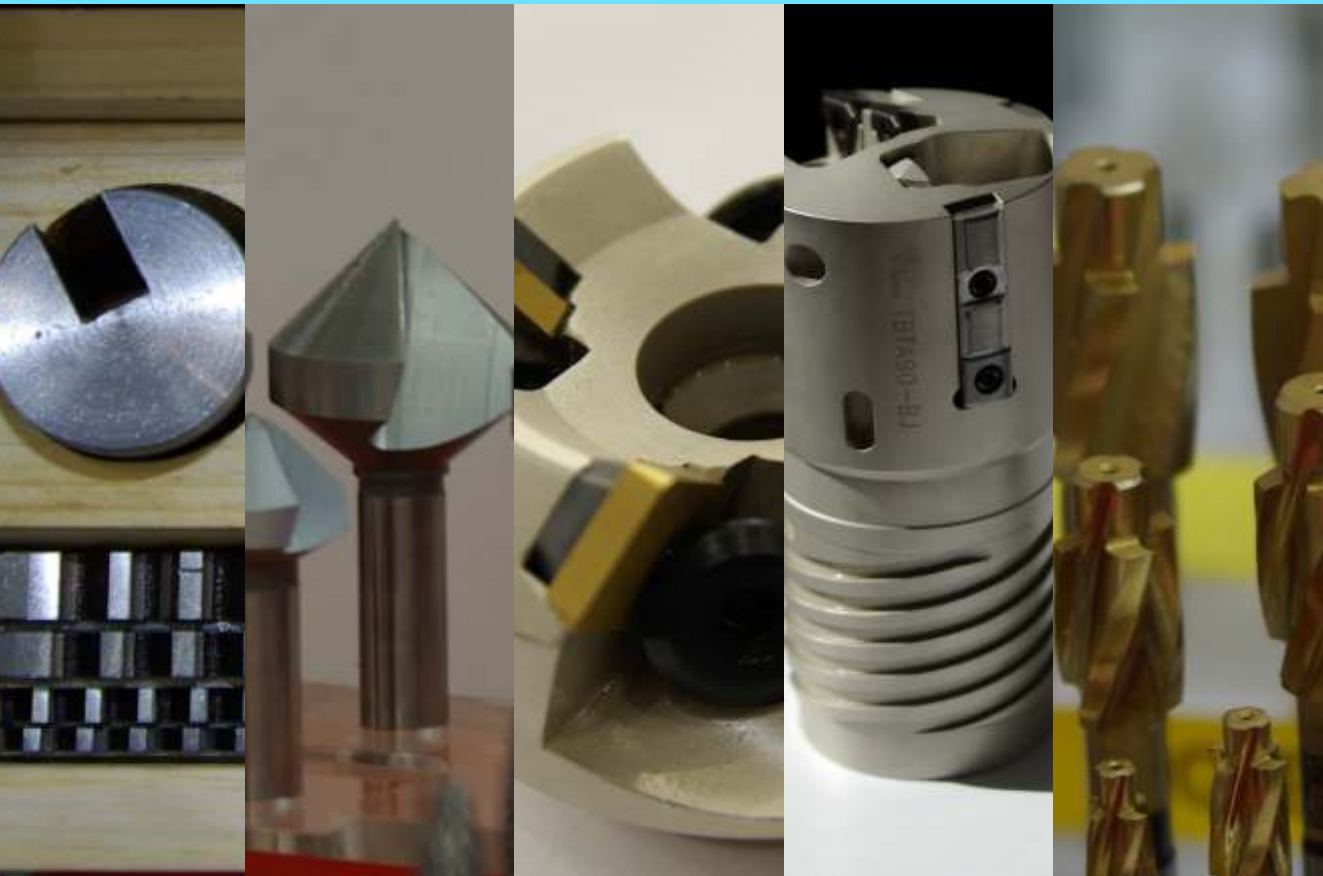


Metal Cutting

TOOLS



HSS CUTTER TOOLS 高速钢刀具

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Hss Step Drill

高速钢阶梯钻

*Plastic, Wood and Material without center punching.



- * Two Flute Metric
- * Sizes for all standard machine tables. Safety-stop feature Prevents breaking the machine-table slot. Threads stop one Short of going threads T nut to prevent a stud from jacking the nut out of the table.
- 2刃高速钢阶梯钻
- 专为薄钢板、塑料、有色金属等材料钻孔而设计
- 柄部设计圆柄、快换六角柄

| SIZE | STEPS | HOLE SIZE | SHANK DIA | OVERALL LENGTH | HSS ORDER # | HSS TIN ORDER # |
|-----------|-------|--|-----------|----------------|-------------|-----------------|
| 4~10 | 7 | 4,5,6,7,8,9,10 | 6 | 65 | 3000-4410 | 3001-4410 |
| 4~12 | 5 | 4,6,8,10,12 | 6 | 65 | 3000-4412 | 3001-4412 |
| 4~12 | 9 | 4,5,6,7,8,9,10,11,12 | 6 | 65 | 3000-9412 | 3001-9412 |
| 4~20 | 13 | 4,5,6,7,8,9,10,11,12,14,16,18,20 | 8 | 75 | 3000-3420 | 3001-3420 |
| 4~22 | 14 | 4,5,6,7,8,9,10,11,12,14,16,18,20,22 | 8 | 81 | 3000-4422 | 3001-4422 |
| 4~24 | 11 | 4,6,8,10,12,14,16,18,20,22,24 | 10 | 81 | 3000-4424 | 3001-4424 |
| 4~30 | 14 | 4,6,8,10,12,14,16,18,20,22,24,26,28,30 | 10 | 100 | 3000-5430 | 3001-5430 |
| 4~32 | 15 | 4,6,8,10,12,14,16,18,20,22,24,26,28,30,32 | 8 | 66 | 3000-5432 | 3001-5432 |
| 6~18 | 7 | 6,8,10,12,14,16,18 | 8 | 66 | 3000-8618 | 3001-8618 |
| 6~20 | 8 | 6,8,10,12,14,16,18,20 | 8 | 66 | 3000-8620 | 3001-8620 |
| 6~30 | 13 | 6,8,10,12,14,16,18,20,22,24,26,28,30 | 10 | 98 | 3000-3630 | 3001-3630 |
| 5~35 | 13 | 5,8,10,12,15,18,20,22,25,27,30,32,35 | 13 | 73 | 3000-3535 | 3001-3535 |
| 6~38 | 12 | 6,9,13,16,19,21,23,26,29,32,35,38 | 10 | 100 | 3000-2638 | 3001-2638 |
| 6~26.75 | 8 | 6,9,11,4,17,25,19,21,25,26,75 | 10 | 75 | 3000-7626 | 3001-7626 |
| 4~39 | 13 | 4,6,9,12,15,18,21,24,27,30,33,36,39 | 12 | 107 | 3000-3439 | 3001-3439 |
| 6~39 | 12 | 6,9,12,15,18,21,24,27,30,33,36,39 | 12 | 111 | 3000-2639 | 3001-2639 |
| 6~32 | 8 | 6,9,11,2,14,5,18,2,22,3,27,9,32 | 12 | 75 | 3000-8632 | 3001-8632 |
| 5~28 | 7 | 5,8,8,11,8,15,3,19,24,5,28 | 10 | 69 | 3000-7528 | 3001-7528 |
| 6~37 | 12 | 6,9,12,5,15,2,18,6,20,4,22,5,26,28,3,30,5,24,37 | 10 | 100 | 3000-2637 | 3001-2637 |
| 4.8~10.65 | 5 | 4,8,6,4,7,2,9,6,10,65 | 6 | 65 | 3000-5410 | 3001-5410 |
| 6~25 | 7 | 6,9,12,16,20,22,5,25 | 10 | 65 | 3000-7625 | 3001-7625 |
| 6~32 | 8 | 6,8,12,16,20,22,5,25,28,5,32 | 12 | 75 | 3000-9632 | 3001-9632 |
| 6~40 | 16 | 6,9,17,23,29,30,31,32,33,34,35,36,37,38,39,40 | 13 | 105 | 3000-6640 | 3001-6640 |
| 12.5~30.5 | 7 | 12,5,15,2,18,6,20,4,22,5,28,3,30,5 | 12 | 75 | 3000-7123 | 3001-7123 |
| 9~36 | 10 | 9,12,15,18,21,24,27,30,33,36 | 12 | 81 | 3000-1936 | 3001-1936 |
| 5~30.5 | 11 | 5,7,5,10,12,5,15,2,18,6,20,4,22,5,25,5,28,3,30,5 | 12 | 90 | 3000-1530 | 3001-1530 |
| 5~38 | 14 | 5,7,5,10,13,16,19,21,23,26,29,31,33,35,38 | 12 | 95 | 3000-1538 | 3001-1538 |
| 6~32 | 9 | 6,9,12,16,20,22,5,25,28,5,32 | 13 | 76 | 3000-8633 | 3001-8633 |
| 4~39 | 13 | 4,6,9,12,15,18,21,24,27,30,33,36,39 | 10 | 107 | 3000-3440 | 3001-3440 |

六角柄高速钢阶梯钻

1/4标准六角接头

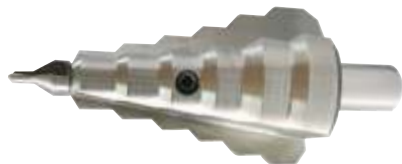


六角柄，主要应用于家用手电钻等要求不高的场合

| SIZE | STEPS | HOLE SIZE | SHANK DIA | OVERALL LENGTH | HSS ORDER # | HSS TIN ORDER # |
|------|-------|--|-----------|----------------|-------------|-----------------|
| 4~12 | 9 | 4,5,6,7,8,9,10,11,12 | 6.35 | 65 | 3006-9412 | 3007-9412 |
| 4~20 | 13 | 4,5,6,7,8,9,10,11,12,14,16,18,20 | 6.35 | 75 | 3006-3420 | 3007-3420 |
| 4~30 | 14 | 4,6,8,10,12,14,16,18,20,22,24,26,28,30 | 6.35 | 81 | 3006-5430 | 3007-5430 |

HSS Step Drill with interchan-geable center bits

高速钢钻尖嵌入式阶梯钻



4 FLUTE



3 FLUTE

- 三刃或者四刃设计
- 钻尖可拆卸更换, 降低成本
- 改用中心钻后, 其定心更为精准.

| SIZE | FLUTE | SETPS | SHANK DIA | OVERALL LENGTH | HSS ORDER # | HSS TIN ORDER # |
|-----------|-------|-------|-----------|----------------|-------------|-----------------|
| 2.5~32 | 3 | 8 | 10 | 77 | 3010-2532 | 3011-2532 |
| 2.5~38 | 3 | 12 | 10 | 98 | 3010-2538 | 3011-2538 |
| 6.3~30.5 | 4 | 8 | 12 | 85 | 3010-6330 | 3011-6330 |
| 6.3~38 | 3 | 11 | 10 | 98 | 3010-6338 | 3011-6338 |
| 6.3~26.57 | 4 | 9 | 12 | 92 | 3010-6326 | 3011-6326 |
| 6.3~32 | 3 | 7 | 10 | 77 | 3010-6332 | 3011-6332 |
| 6.3~36 | 4 | 11 | 12 | 85 | 3010-6336 | 3011-6336 |
| 9~36 | 4 | 10 | 12 | 85 | 3010-6396 | 3011-6396 |
| 6.3~37 | 4 | 11 | 12 | 100 | 3010-6337 | 3011-6337 |

H.s.s Center Bits



| HSS ORDER # | HSS TIN ORDER # | HSS ORDER # | HSS TIN ORDER # |
|-------------|-----------------|-------------|-----------------|
| 3015-0025 | 3016-0025 | 3015-0070 | 3016-0070 |



Hss Step Drill

高速钢阶梯钻

*Plastic, Wood and Material without center punching.



- * Two Flute Metric
- * Sizes for all standard machine tables.
- Safety-stop feature Prevents breaking the machine-table slot. Threads stop one Short of going threads T nut to prevent a Stud from jacking the nut out of the table.

- 二刃高速钢阶梯钻
- 专为薄钢板、塑料、有色金属等材料钻孔而设计
- 柄部设计圆柄、三角柄及快换六角柄（柄径1/4标准）



Triangle Shank
三角柄



Hexagon Shank
六方柄
(1/4)

| SIZE | STEPS | SHANK DIA | OVERALL LENGTH | HSS ORDER # | HSS TIN ORDER # | HSS ORDER # | HSS TIN ORDER # | HSS ORDER # | HSS TIN ORDER # |
|-------------|-------|-----------|----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 3/16~1/2 | 6 | 1/4 | 3-3/8 | 3004-3162 | 3005-3162 | | | 3006-3162 | 3007-3162 |
| 1/8~1/2 | 13 | 1/4 | 3-1/16 | 3004-1812 | 3005-1812 | 3008-1812 | 3009-1812 | 3006-1812 | 3007-1812 |
| 1/4~3/4 | 9 | 3/8 | 2-1/2 | 3004-1434 | 3005-1434 | 3008-1434 | 3009-1434 | 3006-1434 | 3007-1434 |
| 3/16~7/8 | 12 | 3/8 | 3 | 3004-3178 | 3005-3178 | 3008-3178 | 3009-3178 | | |
| 1/4~1 | 10 | 1/2 | 3-3/8 | 3004-1410 | 3005-1410 | | | | |
| 1/4~1-3/8 | 9 | 11/32 | 2-1/2 | 3004-1413 | 3005-1413 | 3008-1413 | 3009-1413 | | |
| 1/4~7/8 | 11 | 3/8 | 2-3/4 | 3004-1478 | 3005-1478 | | | | |
| 9/16~1 | 8 | 3/8 | 2-7/16 | 3004-9610 | 3005-9610 | 3008-9610 | 3009-9610 | | |
| 13/16~1-3/8 | 10 | 3/8 | 2-3/4 | 3004-1316 | 3005-1316 | 3008-1316 | 3009-1316 | | |

Hss Step Drills Sets

套装阶梯钻



3PCS/SET STEP DRILL INCLUDES:

4~12mm----1PCS
6~20mm----1PCS
6~30mm----1PCS
Metal or Wooden BOX

4~12mm----1PCS
4~20mm----1PCS
6~30mm----1PCS
Metal or Wooden BOX

UN-Coated
ORDER No.

Tin-Coated
ORDER No.

3020-0302

3021-0302

UN-Coated
ORDER No.

Tin-Coated
ORDER No.

3020-0312

3021-0312

5PCS/SET STEP DRILL INCLUDES:

4~12mm----1PCS
4~20mm----1PCS
5~28mm----1PCS
4~30mm----1PCS
4~39mm----1PCS
Wooden BOX

UN-Coated
ORDER No.

Tin-Coated
ORDER No.

3020-0303

3021-0303

Hss Conical Drill

高速钢伞钻



- * Two Flute Metric
HSS Conical Drill bore clean holes in pipes, sheet metal & synthetic materials. For use in both hand and machine operations - such as auto body rust proofing & knockout punches.
- 二刃设计, 应用于电力/汽车/机械工程及航空领域.
 - 高速钢伞钻, 适用于小于4mm薄钢板, 有色金属等加工.
 - 可按要求定制特殊尺寸



Triangle Shank
三角柄

| SIZE | SHANK mm | OVERALL LENGTH mm | HSS ORDER # | HSS TIN ORDER # | HSS ORDER # | HSS TIN ORDER # |
|---------|-------------|-------------------------|-------------------|-----------------------|-------------------|-----------------------|
| 3~14 | 6 | 58 | 3100-0314 | 3101-0314 | 3102-0314 | 3103-0314 |
| 4~30.5 | 12 | 102 | 3100-0430 | 3101-0430 | | |
| 6~20 | 8 | 63 | 3100-0620 | 3101-0620 | | |
| 3~22.5 | 8 | 73 | 3100-0322 | 3101-0322 | | |
| 3~31 | 10 | 102 | 3100-0331 | 3101-0331 | | |
| 6~25.4 | 9 | 78 | 3100-0625 | 3101-0625 | | |
| 5~20 | 8 | 71 | 3100-0520 | 3101-0520 | | |
| 5~30 | 8 | 91 | 3100-0530 | 3101-0530 | | |
| 8~20 | 8 | 63 | 3100-0820 | 3101-0820 | 3102-0820 | 3103-0820 |
| 16~30.5 | 12 | 77 | 3100-1630 | 3101-1630 | | |
| 25~40 | 10 | 89 | 3100-2540 | 3101-2540 | | |
| 35~50 | 12 | 97 | 3100-3550 | 3101-3550 | | |
| 40~61 | 13 | 103 | 3100-4061 | 3101-4061 | | |
| 5~25.4 | 10 | 87 | 3100-0524 | 3101-0524 | | |
| 5~22.5 | 8 | 79 | 3100-0522 | 3101-0522 | | |
| 5~31 | 9 | 103 | 3100-0522 | 3101-0531 | | |

Hss Conical Drill With Interchan-Shank

组装柄圆锥钻



* Two Flute Metric

The independent shank, the screw screws tight, the easy to operate is easy to disassemble

- 组装柄圆锥钻其目的在于压缩较大直径产品的成本。
- 可以更换不同的柄径，来适应加工设备的要求。

| SIZE | SHANK DIA | SHANK LENGTH | OVERALL LENGTH | UN-Coatde ORDER No. | TIN-Coated ORDER No. |
|-------|-----------|--------------|----------------|---------------------|----------------------|
| 26~40 | 12 | 30 | 92 | 3104-2640 | 3105-2640 |
| 25~40 | 12 | 30 | 92 | 3104-2545 | 3105-2545 |
| 35~50 | 12 | 30 | 95 | 3104-3555 | 3105-3555 |
| 36~50 | 12 | 30 | 95 | 3104-3650 | 3105-3650 |
| 26~40 | 12 | 25 | 85 | 3104-2641 | 3105-2641 |
| 36~50 | 12 | 25 | 88 | 3104-3651 | 3105-3651 |
| 46~60 | 13 | 25 | 91 | 3104-4660 | 3105-4660 |

Hss Conical Drill

高速钢伞钻



- * Two Flute Metric
HSS Conical Drill bore clean holes in pipes, sheet metal & synthetic materials. For use in both hand and machine operations - such as auto body rust proofing & knockout punches.
- 2刃设计, 应用于电力/汽车/机械工程及航空领域
- 高速钢伞钻, 适用于小于4mm薄钢板, 有色金属等加工.
- 可按要求定制特殊尺寸

| SIZE | SHANK DIA | OVERALL LENGTH | UN-Coated ORDER No. | TIN-Coated ORDER No. |
|----------|-----------|----------------|---------------------|----------------------|
| 1/8~1/2 | 1/4 | 2 | 3120-1812 | 3121-1812 |
| 1/4~3/4 | 3/8 | 2-1/4 | 3120-1434 | 3121-1434 |
| 3/16~1/2 | 1/2 | 3 | 3120-3161 | 3121-3161 |
| 1/8~3/8 | 1/2 | 2-1/4 | 3120-1838 | 3121-1838 |
| 3/8~7/8 | 3/8 | 2-1/4 | 3120-3878 | 3121-3878 |

Hss Conical Drill Sets

高速钢套装伞钻

3PCS/SET CONICAL DRILL INCLUDES:

3-14mm-----1PCS

8-20mm-----1PCS

6-30mm-----1PCS

In metal or wooden BOX case

Tin-Coated/uncoated type both available

We can produce matching according to the requirement of the customer

- 木盒或者铁盒包装
- 镀钛或者非镀钛形式均可
- 我们能根据客户的需求生产配套



| SIZE | UN-Coated ORDER No. | TIN-Coated ORDER No. |
|---------------------|---------------------|----------------------|
| 3PCS/SET WOODEN BOX | 3110-3001 | 3110-3002 |
| 3PCS/SET METAL BOX | 3111-3001 | 3111-3002 |

Hss Center Drill

高速钢铁制中心钻



60° & 90° Included Angle
High Speed Steel
Right Hand
DIN 333A

- 高速钢无护锥型
- 符合DIN333A标准

| Model | DRILL DIAMETER | BODY DIAMETER | OVERALL LENGTH | Milled 60° ORDER No. | Milled 90° ORDER No. |
|-------|----------------|---------------|----------------|----------------------|----------------------|
| A0.5 | 0.5 | 3.15 | 25 | 3506-0005 | 3506-1005 |
| A0.8 | 0.8 | 3.15 | 31.5 | 3506-0008 | 3506-1008 |
| A1.0 | 1.0 | 3.15 | 31.5 | 3506-0010 | 3506-1010 |
| A1.25 | 1.25 | 3.15 | 31.5 | 3506-0012 | 3506-1012 |
| A1.6 | 1.6 | 4.0 | 35.5 | 3506-0016 | 3506-1016 |
| A2.0 | 2.0 | 5.0 | 40 | 3506-0020 | 3506-1020 |
| A2.5 | 2.5 | 6.3 | 45 | 3506-0025 | 3506-1025 |
| A3.15 | 3.15 | 8.0 | 50 | 3506-0031 | 3506-1031 |
| A4.0 | 4.0 | 10.0 | 56 | 3506-0040 | 3506-1040 |
| A5.0 | 5.0 | 12.5 | 63 | 3506-0050 | 3506-1050 |
| A6.3 | 6.3 | 16.0 | 71 | 3506-0063 | 3506-1063 |
| A8.0 | 8.0 | 20 | 80 | 3506-0080 | 3506-1080 |
| A10 | 10 | 25 | 100 | 3506-0100 | 3506-1100 |

Hss Center Drill

高速钢全磨制中心钻



60° & 90° Included Angle
High Speed Steel
Right Hand
DIN 333A

- 由于磨制槽不像传统的铣制槽，它有更好更锋利的切削刃。这样保障更好的切削及较长的寿命。
- 符合DIN333A标准
- 有镀钛和非镀钛产品提供

| Model | DRILL DIAMETER | BODY DIAMETER | OVERALL LENGTH | Ground 60° UN-Coated ORDER No. | Ground 60° TIN-Coated ORDER No. | Ground 90° UN-Coated ORDER No. | Ground 90° TIN-Coated ORDER No. |
|-------|----------------|---------------|----------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|
| A0.5 | 0.5 | 3.15 | 25 | 3516-0005 | 3516-2005 | 3516-1005 | 3516-3005 |
| A0.8 | 0.8 | 3.15 | 31.5 | 3516-0008 | 3516-2008 | 3516-1008 | 3516-3008 |
| A1.0 | 1.0 | 3.15 | 31.5 | 3516-0010 | 3516-2010 | 3516-1010 | 3516-3010 |
| A1.25 | 1.25 | 3.15 | 31.5 | 3516-0012 | 3516-2012 | 3516-1012 | 3516-3012 |
| A1.6 | 1.6 | 4.0 | 35.5 | 3516-0016 | 3516-2016 | 3516-1016 | 3516-3016 |
| A2.0 | 2.0 | 5.0 | 40 | 3516-0020 | 3516-2020 | 3516-1020 | 3516-3020 |
| A2.5 | 2.5 | 6.3 | 45 | 3516-0025 | 3516-2025 | 3516-1025 | 3516-3025 |
| A3.15 | 3.15 | 8.0 | 50 | 3516-0031 | 3516-2031 | 3516-1031 | 3516-3031 |
| A4.0 | 4.0 | 10.0 | 56 | 3516-0040 | 3516-2040 | 3516-1040 | 3516-3040 |
| A5.0 | 5.0 | 12.5 | 63 | 3516-0050 | 3516-2050 | 3516-1050 | 3516-3050 |
| A6.3 | 6.3 | 16.0 | 71 | 3516-0063 | 3516-2063 | 3516-1063 | 3516-3063 |
| A8.0 | 8.0 | 20 | 80 | 3516-0080 | 3516-2080 | 3516-1080 | 3516-3080 |
| A10 | 10 | 25 | 100 | 3516-0100 | 3516-2100 | 3516-1100 | 3516-3100 |

Hss Spiral Flute Center Drill

高速钢螺旋槽中心钻



60° & 90° Included Angle
High Speed Steel
Right Hand
DIN 333A

- 在全磨制基础上加上了螺旋刃，比直槽全磨制切削更轻快，排屑更顺畅。
- 符合DIN333A标准
- 有镀钛和非镀钛产品提供

| Model | DRILL DIAMETER | BODY DIAMETER | OVERALL LENGTH | 60° | | 90° | |
|-------|----------------|---------------|----------------|---------------------|----------------------|---------------------|----------------------|
| | | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| A0.5 | 0.5 | 3.15 | 25 | | | | |
| A0.8 | 0.8 | 3.15 | 31.5 | | | | |
| A1.0 | 1.0 | 3.15 | 31.5 | | | | |
| A1.25 | 1.25 | 3.15 | 31.5 | | | | |
| A1.6 | 1.6 | 4.0 | 35.5 | 3516-0316 | 3516-2316 | 3506-1316 | 3516-3316 |
| A2.0 | 2.0 | 5.0 | 40 | 3516-0320 | 3516-2320 | 3506-1320 | 3516-3320 |
| A2.5 | 2.5 | 6.3 | 45 | 3516-0325 | 3516-2325 | 3506-1325 | 3516-3325 |
| A3.15 | 3.15 | 8.0 | 50 | 3516-0331 | 3516-2331 | 3506-1331 | 3516-3331 |
| A4.0 | 4.0 | 10.0 | 56 | 3516-0440 | 3516-2440 | 3506-1440 | 3516-3440 |
| A5.0 | 5.0 | 12.5 | 63 | | | | |
| A6.3 | 6.3 | 16.0 | 71 | | | | |
| A8.0 | 8.0 | 20 | 80 | | | | |
| A10 | 10 | 25 | 100 | | | | |

目前工厂暂时只能从1.6mm做到4mm，其它规格还在试制阶段。

Hss Center Drill

高速钢B型中心钻



60° & 90° Included Angle
High Speed Steel
Right Hand
DIN 333B

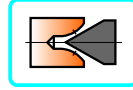
- 高速钢带护锥型。
- 符合DIN333B标准

| Model | DRILL DIAMETER | BODY DIAMETER | OVERALL LENGTH | Milled 60° | | Ground 60° | | Milled 90° | | Ground 90° | |
|-------|----------------|---------------|----------------|---------------------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|--|
| | | | | UN-Coated ORDER No. | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. | |
| B1 | 1.0 | 4.0 | 33.5 | 3526-0010 | 3536-0010 | 3536-2010 | 3526-1010 | 3536-1010 | 3536-3010 | | |
| B1.25 | 1.25 | 5.0 | 38 | 3526-0012 | 3536-0012 | 3536-2012 | 3526-1012 | 3536-1012 | 3536-3012 | | |
| B1.6 | 1.6 | 6.3 | 43 | 3526-0016 | 3536-0016 | 3536-2016 | 3526-1016 | 3536-1016 | 3536-3016 | | |
| B2 | 2.0 | 8.0 | 48 | 3526-0020 | 3536-0020 | 3536-2020 | 3526-1020 | 3536-1020 | 3536-3020 | | |
| B2.5 | 2.5 | 10.0 | 53 | 3526-0025 | 3536-0025 | 3536-2025 | 3526-1025 | 3536-1025 | 3536-3025 | | |
| B3.15 | 3.15 | 11.2 | 57 | 3526-0031 | 3536-0031 | 3536-2031 | 3526-1031 | 3536-1031 | 3536-3031 | | |
| B4 | 4.0 | 14.0 | 64 | 3526-0040 | 3536-0040 | 3536-2040 | 3526-1040 | 3536-1040 | 3536-3040 | | |
| B5 | 5.0 | 18.0 | 72 | 3526-0050 | 3536-0050 | 3536-2050 | 3526-1050 | 3536-1050 | 3536-3050 | | |
| B6.3 | 6.3 | 20.0 | 77 | 3526-0063 | 3536-0063 | 3536-2063 | 3526-1063 | 3536-1063 | 3536-3063 | | |

注：此产品分铣制和全磨制产品。

Hss Radius Type Center Drill

高速钢R型中心钻



DIN333 Form R
Right hand

- 符合DIN333R标准
- 全磨制制造，刃口锋利，切削轻快，寿命更长。

| Model | DRILL | | BODY DIAMETER mm | DRILL LENGTH mm | OVERALL LENGTH mm | Ground | |
|-------|----------------|--------------|------------------------|-----------------------|-------------------------|------------------------|-------------------------|
| | DIAMETER mm | Radius mm | | | | UN-Coated ORDER No. | TIN-Coated ORDER No. |
| R0.5 | 0.5 | 1.6 | 3.15 | 2.72 | 25 | 3591-0005 | 3591-1005 |
| R0.8 | 0.8 | 2.5 | 3.15 | 2.65 | 25 | 3591-0008 | 3591-1008 |
| R1.0 | 1.0 | 3.15 | 3.15 | 3.0 | 31.5 | 3591-0010 | 3591-1010 |
| R1.25 | 1.25 | 4.0 | 3.15 | 3.35 | 31.5 | 3591-0012 | 3591-1012 |
| R1.6 | 1.6 | 4.5 | 4.0 | 4.25 | 35.5 | 3591-0016 | 3591-1016 |
| R2.0 | 2.0 | 5.5 | 5.0 | 5.3 | 40 | 3591-0020 | 3591-1020 |
| R2.5 | 2.5 | 7.0 | 6.3 | 6.7 | 45 | 3591-0025 | 3591-1025 |
| R3.15 | 3.15 | 9.5 | 8.0 | 8.5 | 50 | 3591-0031 | 3591-1031 |
| R4.0 | 4.0 | 11.0 | 10.0 | 10.6 | 56 | 3591-0040 | 3591-1040 |
| R5.0 | 5.0 | 14.0 | 12.5 | 13.2 | 63 | 3591-0050 | 3591-1050 |
| R6.3 | 6.3 | 18.0 | 16 | 17 | 71 | 3591-0063 | 3591-1063 |

Hss Center Drill

高速钢英制中心钻

Plain Type



| Ind No. | BODY DIAMETER In | Drill DIAMETER In | Drill LENGTH In | OVERALL LENGTH In | Milled 60° | Ground 60° | Ground 60° | Milled 90° | Ground 90° | Ground 90° |
|---------|------------------|-------------------|-----------------|-------------------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|
| | | | | | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. |
| 00 | 1/8 | .025 | 1/16 | 1-1/4 | 3546-0001 | 3556-0001 | 3556-2001 | 3546-1001 | 3556-1001 | 3556-3001 |
| 0 | 1/8 | 1/32 | 1/32 | 1-1/4 | 3546-0002 | 3556-0002 | 3556-2002 | 3546-1002 | 3556-1002 | 3556-3002 |
| 1/0 | 1/8 | .040 | 1/16 | 1-1/4 | 3546-0003 | 3556-0003 | 3556-2003 | 3546-1003 | 3556-1003 | 3556-3003 |
| 1 | 1/8 | 3/64 | 3/64 | 1-1/4 | 3546-0010 | 3556-0010 | 3556-2010 | 3546-1010 | 3556-1010 | 3556-3010 |
| 2 | 3/16 | 5/64 | 5/64 | 1-7/8 | 3546-0020 | 3556-0020 | 3556-2020 | 3546-1020 | 3556-1020 | 3556-3020 |
| 3 | 1/4 | 7/64 | 7/64 | 2 | 3546-0030 | 3556-0030 | 3556-2030 | 3546-1030 | 3556-1030 | 3556-3030 |
| 4 | 5/16 | 1/8 | 1/8 | 2-1/8 | 3546-0040 | 3556-0040 | 3556-2040 | 3546-1040 | 3556-1040 | 3556-3040 |
| 4-1/2 | 3/8 | 9/64 | 9/64 | 2-1/8 | 3546-0045 | 3556-0045 | 3556-2045 | 3546-1045 | 3556-1045 | 3556-3045 |
| 5 | 7/16 | 3/16 | 3/16 | 2-3/4 | 3546-0050 | 3556-0050 | 3556-2050 | 3546-1050 | 3556-1050 | 3556-3050 |
| 6 | 1/2 | 7/32 | 7/32 | 3 | 3546-0060 | 3556-0060 | 3556-2060 | 3546-1060 | 3556-1060 | 3556-3060 |
| 7 | 5/8 | 1/4 | 1/4 | 3-1/4 | 3546-0070 | 3556-0070 | 3556-2070 | 3546-1070 | 3556-1070 | 3556-3070 |
| 8 | 3/4 | 5/16 | 5/16 | 3-1/4 | 3546-0080 | 3556-0080 | 3556-2080 | 3546-1080 | 3556-1080 | 3556-3080 |

Hss Center Drill

高速钢英制中心钻

Bell Type



| Ind No. | BODY DIAMETER In | Drill DIAMETER In | Drill LENGTH In | OVERALL LENGTH In | Milled 60° | Ground 60° | Ground 60° | Milled 90° | Ground 90° | Ground 90° |
|---------|------------------|-------------------|-----------------|-------------------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|
| | | | | | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. |
| 11 | 1/8 | 3/64 | .100 | 1-1/4 | 3546-0110 | 3556-0110 | 3556-4110 | 3546-1110 | 3556-1110 | 3556-5110 |
| 12 | 3/16 | 1/16 | .150 | 1-1/4 | 3546-0120 | 3556-0120 | 3556-4120 | 3546-1120 | 3556-1120 | 3556-5120 |
| 13 | 1/4 | 3/32 | .200 | 2 | 3546-0130 | 3556-0130 | 3556-4130 | 3546-1130 | 3556-1130 | 3556-5130 |
| 14 | 5/16 | 7/64 | .250 | 2-1/8 | 3546-0140 | 3556-0140 | 3556-4140 | 3546-1140 | 3556-1140 | 3556-5140 |
| 15 | 7/16 | 5/32 | .350 | 2-3/4 | 3546-0150 | 3556-0150 | 3556-4150 | 3546-1150 | 3556-1150 | 3556-5150 |
| 16 | 1/2 | 3/16 | .400 | 3 | 3546-0160 | 3556-0160 | 3556-4160 | 3546-1160 | 3556-1160 | 3556-5160 |
| 17 | 5/8 | 7/32 | .500 | 3-1/4 | 3546-0170 | 3556-0170 | 3556-4170 | 3546-1170 | 3556-1170 | 3556-5170 |
| 18 | 3/4 | 1/4 | .600 | 3-1/2 | 3546-0180 | 3556-0180 | 3556-4180 | 3546-1180 | 3556-1180 | 3556-5180 |
| 19 | 7/8 | 5/16 | - | 3-5/8 | 3546-0190 | 3556-0190 | 3556-4190 | 3546-1190 | 3556-1190 | 3556-5190 |
| 20 | 1 | 3/8 | - | 3-3/4 | 3546-0200 | 3556-0200 | 3556-4200 | 3546-1200 | 3556-1200 | 3556-5200 |

Hss BS Center Drill

高速钢BS-R型中心钻



Bs328 Form R
Right hand
• 符合BS328 R标准

| Model | DRILL | | BODY DIAMETER in | Milled UN-Coated ORDER No. | Ground UN-Coated ORDER No. | Ground TIN-Coated ORDER No. |
|--------|----------------|--------------|------------------------|----------------------------------|----------------------------------|-----------------------------------|
| | DIAMETER in | Radius in | | | | |
| BSR3-0 | 0.02 | 3/32 | 1/8 | 3592-0003 | 3593-0003 | 3593-1003 |
| BSR2-0 | 1/32 | 7/64 | 1/8 | 3592-0002 | 3593-0002 | 3593-1002 |
| BSR0 | 0.025 | 1/8 | 1/8 | 3592-0001 | 3593-0001 | 3593-1001 |
| BSR1 | 3/64 | 5/32 | 1/8 | 3592-0010 | 3593-0010 | 3593-1010 |
| BSR2 | 5/64 | 7/32 | 3/16 | 3592-0020 | 3593-0020 | 3593-1020 |
| BSR3 | 7/64 | 9/32 | 1/4 | 3592-0030 | 3593-0030 | 3593-1030 |
| BSR4 | 1/8 | 3/8 | 5/16 | 3592-0040 | 3593-0040 | 3593-1040 |
| BSR5 | 3/16 | 1/2 | 7/16 | 3592-0050 | 3593-0050 | 3593-1050 |
| BSR6 | 7/32 | 9/16 | 1/2 | 3592-0060 | 3593-0060 | 3593-1060 |
| BSR7 | 1/4 | 45/64 | 5/8 | 3592-0070 | 3593-0070 | 3593-1070 |
| BSR8 | 5/16 | 7/8 | 3/4 | 3592-0080 | 3593-0080 | 3593-1080 |

Hss BS Center Drill

高速钢BS型中心钻



Bs328 Form
Right hand
• 符合BS328 标准

| Model | DRILL DIAMETER in | BODY DIAMETER in | OVERALL LENGTH in | Milled UN-Coated ORDER No. | Ground UN-Coated ORDER No. | Ground TIN-Coated ORDER No. |
|-------|-------------------------|------------------------|-------------------------|----------------------------------|----------------------------------|-----------------------------------|
| | | | | | | |
| Bs1 | 3/64 | 1/8 | 1-1/2 | 3572-0010 | 3573-0010 | 3573-1010 |
| Bs2 | 1/16 | 3/16 | 1-3/4 | 3572-0020 | 3573-0020 | 3573-1020 |
| Bs3 | 3/32 | 1/4 | 2 | 3572-0030 | 3573-0030 | 3573-1030 |
| Bs4 | 1/8 | 5/16 | 2-1/4 | 3572-0040 | 3573-0040 | 3573-1040 |
| Bs5 | 3/16 | 7/16 | 2-1/2 | 3572-0050 | 3573-0050 | 3573-1050 |
| Bs6 | 1/4 | 5/8 | 3 | 3572-0060 | 3573-0060 | 3573-1060 |
| Bs7 | 5/16 | 3/4 | 3-1/2 | 3572-0070 | 3573-0070 | 3573-1070 |

Hss Long Series Center Drill

高速钢加长型英制中心钻



60° & 90°
Included
Angle Right

| Ind No. | BODY DIAMETER In | DRILL DIAMETER In | OVERALL LENGTH In | Milled 60° | Ground 60° | Ground 60° | Milled 90° | Ground 90° | Ground 90° |
|---------|------------------|-------------------|-------------------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|
| | | | | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. |
| 1A | 1/8 | 3/64 | 3 | 3560-0013 | 3561-0013 | 3561-1013 | 3560-1013 | 3561-1013 | 3561-2013 |
| 1B | 1/8 | 3/64 | 4 | 3560-0014 | 3561-0014 | 3561-1014 | 3560-1014 | 3561-1014 | 3561-2014 |
| 1C | 1/8 | 3/64 | 5 | 3560-0015 | 3561-0015 | 3561-1015 | 3560-1015 | 3561-1015 | 3561-2015 |
| 1D | 1/8 | 3/64 | 6 | 3560-0016 | 3561-0016 | 3561-1016 | 3560-1016 | 3561-1016 | 3561-2016 |
| 2A | 3/16 | 5/64 | 3 | 3560-0023 | 3561-0023 | 3561-1023 | 3560-1023 | 3561-1023 | 3561-2023 |
| 2B | 3/16 | 5/64 | 4 | 3560-0024 | 3561-0024 | 3561-1024 | 3560-1024 | 3561-1024 | 3561-2024 |
| 2C | 3/16 | 5/64 | 5 | 3560-0025 | 3561-0025 | 3561-1025 | 3560-1025 | 3561-1025 | 3561-2025 |
| 2D | 3/16 | 5/64 | 6 | 3560-0026 | 3561-0026 | 3561-1026 | 3560-1026 | 3561-1026 | 3561-2026 |
| 3A | 1/4 | 7/64 | 3 | 3560-0033 | 3561-0033 | 3561-1033 | 3560-1033 | 3561-1033 | 3561-2033 |
| 3B | 1/4 | 7/64 | 4 | 3560-0034 | 3561-0034 | 3561-1034 | 3560-1034 | 3561-1034 | 3561-2034 |
| 3C | 1/4 | 7/64 | 5 | 3560-0035 | 3561-0035 | 3561-1035 | 3560-1035 | 3561-1035 | 3561-2035 |
| 3D | 1/4 | 7/64 | 6 | 3560-0036 | 3561-0036 | 3561-1036 | 3560-1036 | 3561-1036 | 3561-2036 |
| 4A | 5/16 | 1/8 | 3 | 3560-0043 | 3561-0043 | 3561-1043 | 3560-1043 | 3561-1043 | 3561-2043 |
| 4B | 5/16 | 1/8 | 4 | 3560-0044 | 3561-0044 | 3561-1044 | 3560-1044 | 3561-1044 | 3561-2044 |
| 4C | 5/16 | 1/8 | 5 | 3560-0045 | 3561-0045 | 3561-1045 | 3560-1045 | 3561-1045 | 3561-2045 |
| 4D | 5/16 | 1/8 | 6 | 3560-0046 | 3561-0046 | 3561-1046 | 3560-1046 | 3561-1046 | 3561-2046 |
| 4-1/2A | 3/8 | 9/64 | 4 | 3560-0047 | 3561-0047 | 3561-1047 | 3560-1047 | 3561-1047 | 3561-2047 |
| 4-1/2B | 3/8 | 9/64 | 5 | 3560-0048 | 3561-0048 | 3561-1048 | 3560-1048 | 3561-1048 | 3561-2048 |
| 4-1/2C | 3/8 | 9/64 | 6 | 3560-0049 | 3561-0049 | 3561-1049 | 3560-1049 | 3561-1049 | 3561-2049 |
| 5A | 7/16 | 3/16 | 4 | 3560-0054 | 3561-0054 | 3561-1054 | 3560-1054 | 3561-1054 | 3561-2054 |
| 5B | 7/16 | 3/16 | 5 | 3560-0055 | 3561-0055 | 3561-1055 | 3560-1055 | 3561-1055 | 3561-2055 |
| 5C | 7/16 | 3/16 | 6 | 3560-0056 | 3561-0056 | 3561-1056 | 3560-1056 | 3561-1056 | 3561-2056 |
| 6A | 1/2 | 7/32 | 4 | 3560-0064 | 3561-0064 | 3561-1064 | 3560-1064 | 3561-1064 | 3561-2064 |
| 6B | 1/2 | 7/32 | 5 | 3560-0065 | 3561-0065 | 3561-1065 | 3560-1065 | 3561-1065 | 3561-2065 |
| 6C | 1/2 | 7/32 | 6 | 3560-0066 | 3561-0066 | 3561-1066 | 3560-1066 | 3561-1066 | 3561-2066 |
| 7A | 5/8 | 1/4 | 6 | 3560-0076 | 3561-0075 | 3561-1075 | 3560-1076 | 3561-1075 | 3561-2075 |
| 8A | 3/4 | 5/16 | 6 | 3560-0086 | 3561-0086 | 3561-1086 | 3560-1086 | 3561-1086 | 3561-2086 |

| Model | DRILL DIAMETER mm | BODY DIAMETER mm | OVERALL LENGTH mm | Milled 60° | Ground 60° | Ground 60° | Milled 90° | Ground 90° | Ground 90° |
|-----------|-------------------|------------------|-------------------|---------------------|---------------------|----------------------|---------------------|---------------------|----------------------|
| | | | | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. | UN-Coated ORDER No. | UN-Coated ORDER No. | TIN-Coated ORDER No. |
| A0.75-60 | 0.75 | 3.5 | 60 | 3563-0010 | 3563-1010 | 3563-2010 | 3563-3010 | 3563-4010 | 3563-5010 |
| A1-60 | 1.0 | 4.0 | 60 | 3563-0012 | 3563-1012 | 3563-2012 | 3563-3012 | 3563-4012 | 3563-5012 |
| A1.5-60 | 1.5 | 5.0 | 60 | 3563-0014 | 3563-1014 | 3563-2014 | 3563-3014 | 3563-4014 | 3563-5014 |
| A2-80 | 2.0 | 6.0 | 80 | 3563-0016 | 3563-1016 | 3563-2016 | 3563-3016 | 3563-4016 | 3563-5016 |
| A2.5-80 | 2.5 | 8.0 | 80 | 3563-0018 | 3563-1018 | 3563-2018 | 3563-3018 | 3563-4018 | 3563-5018 |
| A3-80 | 3 | 8.0 | 80 | 3563-0020 | 3563-1020 | 3563-2020 | 3563-3020 | 3563-4020 | 3563-5020 |
| A3-100 | 3 | 10.0 | 100 | 3563-0022 | 3563-1022 | 3563-2022 | 3563-3022 | 3563-4022 | 3563-5022 |
| A4-100 | 4 | 10.0 | 100 | 3563-0024 | 3563-1024 | 3563-2024 | 3563-3024 | 3563-4024 | 3563-5024 |
| A4-100a | 4 | 12.0 | 100 | 3563-0026 | 3563-1026 | 3563-2026 | 3563-3026 | 3563-4026 | 3563-5026 |
| A0.75-120 | 0.75 | 3.5 | 120 | 3563-0028 | 3563-1028 | 3563-2028 | 3563-3028 | 3563-4028 | 3563-5028 |
| A1-120 | 1.0 | 4.0 | 120 | 3563-0030 | 3563-1030 | 3563-2030 | 3563-3030 | 3563-4030 | 3563-5030 |
| A1.5-120 | 1.5 | 5.0 | 120 | 3563-0032 | 3563-1032 | 3563-2032 | 3563-3032 | 3563-4032 | 3563-5032 |
| A2-120 | 2.0 | 6.0 | 120 | 3563-0034 | 3563-1034 | 3563-2034 | 3563-3034 | 3563-4034 | 3563-5034 |
| A2.5-120 | 2.5 | 8.0 | 120 | 3563-0036 | 3563-1036 | 3563-2036 | 3563-3036 | 3563-4036 | 3563-5036 |
| A3-120 | 3 | 8.0 | 120 | 3563-0038 | 3563-1038 | 3563-2038 | 3563-3038 | 3563-4038 | 3563-5038 |
| A3-120a | 3 | 10.0 | 120 | 3563-0040 | 3563-1040 | 3563-2040 | 3563-3040 | 3563-4040 | 3563-5040 |
| A4-120 | 4 | 10.0 | 120 | 3563-0042 | 3563-1042 | 3563-2042 | 3563-3042 | 3563-4042 | 3563-5042 |
| A4-120a | 4 | 12.0 | 120 | 3563-0044 | 3563-1044 | 3563-2044 | 3563-3044 | 3563-4044 | 3563-5044 |

Hss Spotting & Center Drill

高速钢定心钻



| DRILL DIAMETER in | OVERALL LENGTH in | 60° RIGHT ORDER No. | 60° LEFT ORDER No. | 90° RIGHT ORDER No. | 90° LEFT ORDER No. | 118° RIGHT ORDER No. | 118° LEFT ORDER No. |
|----------------------|----------------------|------------------------|-----------------------|------------------------|-----------------------|-------------------------|------------------------|
| 1/8 | 1-1/4 | 3583-0010 | 3583-1010 | 3583-2010 | 3583-3010 | 3583-4010 | 3583-5010 |
| 3/16 | 1-3/8 | 3583-0012 | 3583-1012 | 3583-2012 | 3583-3012 | 3583-4012 | 3583-5012 |
| 1/4 | 1-1/2 | 3583-0014 | 3583-1014 | 3583-2014 | 3583-3014 | 3583-4014 | 3583-5014 |
| 5/16 | 1-1/2 | 3583-0016 | 3583-1016 | 3583-2016 | 3583-3016 | 3583-4016 | 3583-5016 |
| 3/8 | 2 | 3583-0018 | 3583-1018 | 3583-2018 | 3583-3018 | 3583-4018 | 3583-5018 |
| 7/16 | 2 | 3583-0020 | 3583-1020 | 3583-2020 | 3583-3020 | 3583-4020 | 3583-5020 |
| 1/2 | 2 | 3583-0022 | 3583-1022 | 3583-2022 | 3583-3022 | 3583-4022 | 3583-5022 |
| 5/8 | 2-1/4 | 3583-0024 | 3583-1024 | 3583-2024 | 3583-3024 | 3583-4024 | 3583-5024 |
| 3/4 | 2-1/4 | 3583-0026 | 3583-1026 | 3583-2026 | 3583-3026 | 3583-4026 | 3583-5026 |
| 7/8 | 2-1/2 | 3583-0028 | 3583-1028 | 3583-2028 | 3583-3028 | 3583-4028 | 3583-5028 |
| 1 | 2-1/2 | 3583-0030 | 3583-1030 | 3583-2030 | 3583-3030 | 3583-4030 | 3583-5030 |
| 1-1/4 | 4 | 3583-0032 | 3583-1032 | 3583-2032 | 3583-3032 | 3583-4032 | 3583-5032 |
| 1-1/2 | 5 | 3583-0034 | 3583-1034 | 3583-2034 | 3583-3034 | 3583-4034 | 3583-5034 |
| 1-3/4 | 5-1/2 | 3583-0036 | 3583-1036 | 3583-2036 | 3583-3036 | 3583-4036 | 3583-5036 |
| 2 | 6 | 3583-0038 | 3583-1038 | 3583-2038 | 3583-3038 | 3583-4038 | 3583-5038 |

Hss Center Drill Sets

套装中心钻



12PCS/Set CENTER DRILLS

* 60° Included Angle

* High Speed Steel

* Right Hand

INCLUDES: (包含如下规格数量)

A1.0 --1PCS

A1.6 --1PCS

A2.0 --2PCS

A2.5 --2PCS

A3.15 --3PCS

A4.0 --2PCS

A5.0 --1PCS

Milled 60° ORDER No. 3502-0001

Ground 60° ORDER No.3503-0001



5PCS/Set CENTER DRILLS

* 60° Included Angle

* High Speed Steel

* Right Hand

INCLUDES: (包含如下规格数量)

No.1 --1PCS

No.2 --1PCS

No.3 --1PCS

No.4 --1PCS

No.5 --1PCS

Milled 60° ORDER No. 3546-1001

Ground 60° ORDER No.3546-2001



5PCS/Set Long Series CENTER DRILLS

* 60° Included Angle

* High Speed Steel

* Right Hand

INCLUDES: (包含如下规格数量)

No.1B --1PCS

No.2B --1PCS

No.3B --1PCS

No.4B --1PCS

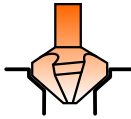
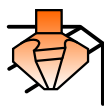
No.5A --1PCS

Milled 60° ORDER No. 3560-1000

Ground 60° ORDER No.3560-1001

Hss 3Flute Countersink Drill

高速钢三刃铰钻



*DIN 335-C(90°) and DIN334-D(60°)

This highly productive countersink cutter is a much improved version of the traditional multi-flute milling cutter

- * wide flutes provide good chip evacuation
- * positive cut
- * constant profile aids regrinding of the tool
- * self-centering of the cutting mill
- * virtually eliminates vibration

• 3刃铰钻，广泛应用于产品倒角、孔口倒角等场合。
• 磨制刃口，切削顺畅，寿命更长。

| SIZE | SHANK mm | OVERALL LENGTH mm | 60° | | 82° | | 90° | |
|------|-------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 4.3 | 4 | 40 | 3200-0043 | 3200-1043 | 3200-2043 | 3200-3043 | 3200-4043 | 3200-5043 |
| 5.0 | 4 | 40 | 3200-0050 | 3200-1050 | 3200-2050 | 3200-3050 | 3200-4050 | 3200-5050 |
| 5.3 | 4 | 40 | 3200-0053 | 3200-1053 | 3200-2053 | 3200-3053 | 3200-4053 | 3200-5053 |
| 5.6 | 5 | 45 | 3200-0056 | 3200-1056 | 3200-2056 | 3200-3056 | 3200-4056 | 3200-5056 |
| 5.8 | 5 | 45 | 3200-0058 | 3200-1058 | 3200-2058 | 3200-3058 | 3200-4058 | 3200-5058 |
| 6.0 | 5 | 45 | 3200-0060 | 3200-1060 | 3200-2060 | 3200-3060 | 3200-4060 | 3200-5060 |
| 6.3 | 5 | 45 | 3200-0063 | 3200-1063 | 3200-2063 | 3200-3063 | 3200-4063 | 3200-5063 |
| 7.0 | 6 | 45 | 3200-0070 | 3200-1070 | 3200-2070 | 3200-3070 | 3200-4070 | 3200-5070 |
| 7.3 | 6 | 50 | 3200-0073 | 3200-1073 | 3200-2073 | 3200-3073 | 3200-4073 | 3200-5073 |
| 8.0 | 6 | 50 | 3200-0080 | 3200-1080 | 3200-2080 | 3200-3080 | 3200-4080 | 3200-5080 |
| 8.3 | 6 | 50 | 3200-0083 | 3200-1083 | 3200-2083 | 3200-3083 | 3200-4083 | 3200-5083 |
| 9.4 | 6 | 50 | 3200-0094 | 3200-1094 | 3200-2094 | 3200-3094 | 3200-4094 | 3200-5094 |
| 10.0 | 6 | 50 | 3200-0100 | 3200-1100 | 3200-2100 | 3200-3100 | 3200-4100 | 3200-5100 |
| 10.4 | 6 | 50 | 3200-0104 | 3200-1104 | 3200-2104 | 3200-3104 | 3200-4104 | 3200-5104 |
| 11.5 | 8 | 56 | 3200-0115 | 3200-1115 | 3200-2115 | 3200-3115 | 3200-4115 | 3200-5115 |
| 12.0 | 8 | 56 | 3200-0120 | 3200-1120 | 3200-2120 | 3200-3120 | 3200-4120 | 3200-5120 |
| 12.4 | 8 | 56 | 3200-0124 | 3200-1124 | 3200-2124 | 3200-3124 | 3200-4124 | 3200-5124 |
| 13.4 | 8 | 56 | 3200-0134 | 3200-1134 | 3200-2134 | 3200-3134 | 3200-4134 | 3200-5134 |
| 14.4 | 8 | 56 | 3200-0144 | 3200-1144 | 3200-2144 | 3200-3144 | 3200-4144 | 3200-5144 |
| 14.4 | 10 | 60 | 3200-0145 | 3200-1145 | 3200-2145 | 3200-3145 | 3200-4145 | 3200-5145 |
| 15.0 | 10 | 60 | 3200-0150 | 3200-1150 | 3200-2150 | 3200-3150 | 3200-4150 | 3200-5150 |
| 16.0 | 6 | 60 | 3200-0160 | 3200-1160 | 3200-2160 | 3200-3160 | 3200-4160 | 3200-5160 |
| 16.5 | 10 | 60 | 3200-0165 | 3200-1165 | 3200-2165 | 3200-3165 | 3200-4165 | 3200-5165 |
| 19.0 | 10 | 63 | 3200-0190 | 3200-1190 | 3200-2190 | 3200-3190 | 3200-4190 | 3200-5190 |
| 20.5 | 10 | 63 | 3200-0205 | 3200-1205 | 3200-2205 | 3200-3205 | 3200-4205 | 3200-5205 |
| 23.0 | 10 | 67 | 3200-0230 | 3200-1230 | 3200-2230 | 3200-3230 | 3200-4230 | 3200-5230 |
| 25.0 | 10 | 67 | 3200-0250 | 3200-1250 | 3200-2250 | 3200-3250 | 3200-4250 | 3200-5250 |
| 25.0 | 12 | 67 | 3200-0251 | 3200-1251 | 3200-2251 | 3200-3251 | 3200-4251 | 3200-5251 |
| 26.0 | 10 | 67 | 3200-0260 | 3200-1260 | 3200-2260 | 3200-3260 | 3200-4260 | 3200-5260 |
| 28.0 | 12 | 71 | 3200-0280 | 3200-1280 | 3200-2280 | 3200-3280 | 3200-4280 | 3200-5280 |
| 30.0 | 12 | 71 | 3200-0300 | 3200-1300 | 3200-2300 | 3200-3300 | 3200-4300 | 3200-5300 |
| 31.0 | 12 | 71 | 3200-0310 | 3200-1310 | 3200-2310 | 3200-3310 | 3200-4310 | 3200-5310 |
| 31.5 | 12 | 71 | 3200-0315 | 3200-1315 | 3200-2315 | 3200-3315 | 3200-4315 | 3200-5315 |
| 32.0 | 12 | 78 | 3200-0320 | 3200-1320 | 3200-2320 | 3200-3320 | 3200-4320 | 3200-5320 |
| 34.0 | 12 | 78 | 3200-0340 | 3200-1340 | 3200-2340 | 3200-3340 | 3200-4340 | 3200-5340 |
| 35.0 | 12 | 78 | 3200-0350 | 3200-1350 | 3200-2350 | 3200-3350 | 3200-4350 | 3200-5350 |
| 37.0 | 15 | 85 | 3200-0370 | 3200-1370 | 3200-2370 | 3200-3370 | 3200-4370 | 3200-5370 |
| 40.0 | 15 | 89 | 3200-0400 | 3200-1400 | 3200-2400 | 3200-3400 | 3200-4400 | 3200-5400 |
| 45.0 | 15 | 90 | 3200-0450 | 3200-1450 | 3200-2450 | 3200-3450 | 3200-4450 | 3200-5450 |
| 50.0 | 15 | 90 | 3200-0500 | 3200-1500 | 3200-2500 | 3200-3500 | 3200-4500 | 3200-5500 |
| 55.0 | 16 | 95 | 3200-0550 | 3200-1550 | 3200-2550 | 3200-3550 | 3200-4550 | 3200-5550 |

Hss 3Flute Countersink Hexagon Shank

六方柄三刃铰钻



- 3刃铰钻六方柄设计，适用于快换夹头，电动工具等场合使用。
- 磨制刃口，切削顺畅，寿命更长。

| SIZE | SHANK | OVERALL LENGTH mm | 60° | | 82° | | 90° | |
|------|-------|----------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 6.3 | 1/4 | 31 | 3206-0063 | 3206-1063 | 3206-2063 | 3206-3063 | 3206-4063 | 3206-5063 |
| 7.0 | 1/4 | 31 | 3206-0070 | 3206-1070 | 3206-2070 | 3206-3070 | 3206-4070 | 3206-5070 |
| 7.3 | 1/4 | 31 | 3206-0073 | 3206-1073 | 3206-2073 | 3206-3073 | 3206-4073 | 3206-5073 |
| 8.0 | 1/4 | 31 | 3206-0080 | 3206-1080 | 3206-2080 | 3206-3080 | 3206-4080 | 3206-5080 |
| 8.3 | 1/4 | 31 | 3206-0083 | 3206-1083 | 3206-2083 | 3206-3083 | 3206-4083 | 3206-5083 |
| 9.4 | 1/4 | 31 | 3206-0094 | 3206-1094 | 3206-2094 | 3206-3094 | 3206-4094 | 3206-5094 |
| 10.0 | 1/4 | 34 | 3206-0100 | 3206-1100 | 3206-2100 | 3206-3100 | 3206-4100 | 3206-5100 |
| 10.4 | 1/4 | 34 | 3206-0104 | 3206-1104 | 3206-2104 | 3206-3104 | 3206-4104 | 3206-5104 |
| 11.5 | 1/4 | 34 | 3206-0115 | 3206-1115 | 3206-2115 | 3206-3115 | 3206-4115 | 3206-5115 |
| 12.0 | 1/4 | 35 | 3206-0120 | 3206-1120 | 3206-2120 | 3206-3120 | 3206-4120 | 3206-5120 |
| 12.4 | 1/4 | 35 | 3206-0124 | 3206-1124 | 3206-2124 | 3206-3124 | 3206-4124 | 3206-5124 |
| 13.4 | 1/4 | 35 | 3206-0134 | 3206-1134 | 3206-2134 | 3206-3134 | 3206-4134 | 3206-5134 |
| 14.4 | 1/4 | 35 | 3206-0144 | 3206-1144 | 3206-2144 | 3206-3144 | 3206-4144 | 3206-5144 |
| 15.0 | 1/4 | 40 | 3206-0150 | 3206-1150 | 3206-2150 | 3206-3150 | 3206-4150 | 3206-5150 |
| 16.0 | 1/4 | 40 | 3206-0160 | 3206-1160 | 3206-2160 | 3206-3160 | 3206-4160 | 3206-5160 |
| 16.5 | 1/4 | 40 | 3206-0165 | 3206-1165 | 3206-2165 | 3206-3165 | 3206-4165 | 3206-5165 |
| 19.0 | 1/4 | 41 | 3206-0190 | 3206-1190 | 3206-2190 | 3206-3190 | 3206-4190 | 3206-5190 |
| 20.5 | 1/4 | 41 | 3206-0205 | 3206-1205 | 3206-2205 | 3206-3205 | 3206-4205 | 3206-5205 |

Hss 3Flute Countersink Drill

高速钢加长柄三刃镗钻



Long Series....

- 3刃镗钻, 长柄系列。
- 磨制刃口, 切削顺畅。

| SIZE | SHANK mm | OVERALL LENGTH mm | 60° | | 82° | | 90° | |
|------|-------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 6.3 | 5 | 100 | 3201-1063 | 3201-2063 | 3201-3063 | 3201-4063 | 3201-5063 | 3201-6063 |
| 7.0 | 6 | 100 | 3201-1070 | 3201-2070 | 3201-3070 | 3201-4070 | 3201-5070 | 3201-6070 |
| 7.3 | 6 | 100 | 3201-1073 | 3201-2073 | 3201-3073 | 3201-4073 | 3201-5073 | 3201-6073 |
| 8.0 | 6 | 100 | 3201-1080 | 3201-2080 | 3201-3080 | 3201-4080 | 3201-5080 | 3201-6080 |
| 8.3 | 6 | 100 | 3201-1083 | 3201-2083 | 3201-3083 | 3201-4083 | 3201-5083 | 3201-6083 |
| 9.4 | 6 | 100 | 3201-1094 | 3201-2094 | 3201-3094 | 3201-4094 | 3201-5094 | 3201-6094 |
| 10.0 | 6 | 100 | 3201-1100 | 3201-2100 | 3201-3100 | 3201-4100 | 3201-5100 | 3201-6100 |
| 10.4 | 6 | 100 | 3201-1104 | 3201-2104 | 3201-3104 | 3201-4104 | 3201-5104 | 3201-6104 |
| 11.5 | 8 | 100 | 3201-1115 | 3201-2115 | 3201-3115 | 3201-4115 | 3201-5115 | 3201-6115 |
| 12.4 | 8 | 100 | 3201-1124 | 3201-2124 | 3201-3124 | 3201-4124 | 3201-5124 | 3201-6124 |
| 13.4 | 8 | 100 | 3201-1134 | 3201-2134 | 3201-3134 | 3201-4134 | 3201-5134 | 3201-6134 |
| 15.0 | 10 | 100 | 3201-1150 | 3201-2150 | 3201-3150 | 3201-4150 | 3201-5150 | 3201-6150 |
| 16.5 | 10 | 100 | 3201-1165 | 3201-2165 | 3201-3165 | 3201-4165 | 3201-5165 | 3201-6165 |
| 19.0 | 10 | 100 | 3201-1190 | 3201-2190 | 3201-3190 | 3201-4190 | 3201-5190 | 3201-6190 |
| 20.5 | 10 | 100 | 3201-1205 | 3201-2205 | 3201-3205 | 3201-4205 | 3201-5205 | 3201-6205 |
| 25.0 | 10 | 100 | 3201-1250 | 3201-2250 | 3201-3250 | 3201-4250 | 3201-5250 | 3201-6250 |

Hss 3Flute Taper Shank Countersink

锥柄三刃镗钻



- 锥柄3刃镗钻DIN335标准，应用与机械设备，柄部设计符合莫氏标准。
- 磨制刃口，切削顺畅，寿命更长。
- 可以按照客户特殊要求设计柄部尺寸。

| SIZE | SHANK | OVERALL LENGTH mm | 60° | | 82° | | 90° | |
|------|-------|----------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 15 | MT1 | 85 | 3230-0015 | 3231-0015 | 3232-0015 | 3233-0015 | 3234-0015 | 3235-0015 |
| 16.5 | MT1 | 85 | 3230-0016 | 3231-0016 | 3232-0016 | 3233-0016 | 3234-0016 | 3235-0016 |
| 19 | MT2 | 100 | 3230-0019 | 3231-0019 | 3232-0019 | 3233-0019 | 3234-0019 | 3235-0019 |
| 20.5 | MT2 | 100 | 3230-0020 | 3231-0020 | 3232-0020 | 3233-0020 | 3234-0020 | 3235-0020 |
| 23 | MT2 | 106 | 3230-0023 | 3231-0023 | 3232-0023 | 3233-0023 | 3234-0023 | 3235-0023 |
| 25 | MT2 | 106 | 3230-0025 | 3231-0025 | 3232-0025 | 3233-0025 | 3234-0025 | 3235-0025 |
| 26 | MT2 | 106 | 3230-0026 | 3231-0026 | 3232-0026 | 3233-0026 | 3234-0026 | 3235-0026 |
| 28 | MT2 | 112 | 3230-0028 | 3231-0028 | 3232-0028 | 3233-0028 | 3234-0028 | 3235-0028 |
| 30 | MT2 | 112 | 3230-0030 | 3231-0030 | 3232-0030 | 3233-0030 | 3234-0030 | 3235-0030 |
| 31 | MT2 | 112 | 3230-0031 | 3231-0031 | 3232-0031 | 3233-0031 | 3234-0031 | 3235-0031 |
| 34 | MT2 | 118 | 3230-0034 | 3231-0034 | 3232-0034 | 3233-0034 | 3234-0034 | 3235-0034 |
| 37 | MT2 | 118 | 3230-0037 | 3231-0037 | 3232-0037 | 3233-0037 | 3234-0037 | 3235-0037 |
| 40 | MT3 | 140 | 3230-0040 | 3231-0040 | 3232-0040 | 3233-0040 | 3234-0040 | 3235-0040 |
| 45 | MT3 | 145 | 3230-0045 | 3231-0045 | 3232-0045 | 3233-0045 | 3234-0045 | 3235-0045 |
| 50 | MT3 | 150 | 3230-0050 | 3231-0050 | 3232-0050 | 3233-0050 | 3234-0050 | 3235-0050 |
| 63 | MT4 | 180 | 3230-0063 | 3231-0063 | 3232-0063 | 3233-0063 | 3234-0063 | 3235-0063 |
| 65 | MT4 | 180 | 3230-0065 | 3231-0065 | 3232-0065 | 3233-0065 | 3234-0065 | 3235-0065 |
| 80 | MT4 | 190 | 3230-0080 | 3231-0080 | 3232-0080 | 3233-0080 | 3234-0080 | 3235-0080 |
| 100 | MT4 | 200 | 3230-0100 | 3231-0100 | 3232-0100 | 3233-0100 | 3234-0100 | 3235-0100 |

Hss Single Flute Countersink

高速钢单刃锪钻



- 单刃锪钻。
- 磨制刃口，切削顺畅。

| SIZE | SHANK mm | OVERALL LENGTH mm | 60° | | 82° | | 90° | |
|-------|-------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 1/8 | 1/8 | 1-1/2 | 3210-0018 | 3210-1018 | 3210-2031 | 3210-3018 | 3210-4018 | 3210-5018 |
| 3/16 | 3/16 | 1-1/2 | 3210-0031 | 3210-1031 | 3210-2031 | 3210-3031 | 3210-4031 | 3210-5031 |
| 1/4 | 3/16 | 2 | 3210-0014 | 3210-1014 | 3210-2014 | 3210-3014 | 3210-4014 | 3210-5014 |
| 1/4 | 1/4 | 2 | 3210-0015 | 3210-1015 | 3210-2015 | 3210-3015 | 3210-4015 | 3210-5015 |
| 5/16 | 1/4 | 2 | 3210-0051 | 3210-1051 | 3210-2051 | 3210-3051 | 3210-4051 | 3210-5051 |
| 3/8 | 1/4 | 2 | 3210-0038 | 3210-1038 | 3210-2038 | 3210-3038 | 3210-4038 | 3210-5038 |
| 1/2 | 1/4 | 2 | 3210-0012 | 3210-1012 | 3210-2012 | 3210-3012 | 3210-4012 | 3210-5012 |
| 5/8 | 3/8 | 2-1/4 | 3210-0058 | 3210-1058 | 3210-2058 | 3210-3058 | 3210-4058 | 3210-5058 |
| 5/8 | 1/2 | 2-1/4 | 3210-0059 | 3210-1059 | 3210-2059 | 3210-3059 | 3210-4059 | 3210-5059 |
| 3/4 | 3/8 | 2-3/4 | 3210-0034 | 3210-1034 | 3210-2034 | 3210-3034 | 3210-4034 | 3210-5034 |
| 3/4 | 1/2 | 2-3/4 | 3210-0035 | 3210-1035 | 3210-2035 | 3210-3035 | 3210-4035 | 3210-5035 |
| 7/8 | 1/2 | 2-3/4 | 3210-0078 | 3210-1078 | 3210-2078 | 3210-3078 | 3210-4078 | 3210-5078 |
| 1 | 1/2 | 2-3/4 | 3210-0100 | 3210-1100 | 3210-2100 | 3210-3100 | 3210-4100 | 3210-5100 |
| 1-1/4 | 1/2 | 3 | 3210-0114 | 3210-1114 | 3210-2114 | 3210-3114 | 3210-4114 | 3210-5114 |
| 1-1/4 | 3/4 | 3 | 3210-0115 | 3210-1115 | 3210-2115 | 3210-3115 | 3210-4115 | 3210-5115 |
| 1-1/2 | 1/2 | 3-1/2 | 3210-0112 | 3210-1112 | 3210-2112 | 3210-3112 | 3210-4112 | 3210-5112 |
| 1-1/2 | 3/4 | 3-1/2 | 3210-0113 | 3210-1113 | 3210-2113 | 3210-3113 | 3210-4113 | 3210-5113 |
| 1-3/4 | 3/4 | 3-1/2 | 3210-0134 | 3210-1134 | 3210-2134 | 3210-3134 | 3210-4134 | 3210-5134 |
| 2 | 3/4 | 3-3/4 | 3210-0200 | 3210-1200 | 3210-2200 | 3210-3200 | 3210-4200 | 3210-5200 |
| 2-1/2 | 3/4 | 5 | 3210-0212 | 3210-1212 | 3210-2212 | 3210-3212 | 3210-4212 | 3210-5212 |
| 3 | 3/4 | 5-1/2 | 3210-0300 | 3210-1300 | 3210-2300 | 3210-3300 | 3210-4300 | 3210-5300 |

Hss 3Flute Countersink

三刃铰钻



- For producing machined countersinks in holes.
- Right hand (clockwise rotation) cutting direction.
- 磨制刃口，切削顺畅。
- 可以按照客户特殊要求设计柄部尺寸。

| SIZE | SHANK | OVERALL LENGTH mm | 60° | | 82° | | 90° | |
|-------|-------|----------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 1/4 | 1/4 | 1-1/2 | 3220-0014 | 3220-1014 | 3220-2014 | 3220-3014 | 3220-4014 | 3220-5014 |
| 1/4 | 3/16 | 1-1/2 | 3220-0015 | 3220-1015 | 3220-2015 | 3220-3015 | 3220-4015 | 3220-5015 |
| 3/8 | 1/4 | 1-3/4 | 3220-0038 | 3220-1038 | 3220-2038 | 3220-3038 | 3220-4038 | 3220-5038 |
| 1/2 | 1/4 | 2 | 3220-0012 | 3220-1012 | 3220-2012 | 3220-3012 | 3220-4012 | 3220-5012 |
| 1/2 | 3/8 | 2 | 3220-0013 | 3220-1013 | 3220-2013 | 3220-3013 | 3220-4013 | 3220-5013 |
| 5/8 | 1/4 | 2-1/4 | 3220-0058 | 3220-1058 | 3220-2058 | 3220-3058 | 3220-4058 | 3220-5058 |
| 5/8 | 3/8 | 2-1/4 | 3220-0059 | 3220-1059 | 3220-2059 | 3220-3059 | 3220-4059 | 3220-5059 |
| 3/4 | 1/2 | 2-1/4 | 3220-0034 | 3220-1034 | 3220-2034 | 3220-3034 | 3220-4034 | 3220-5034 |
| 1 | 1/2 | 2-3/4 | 3220-0100 | 3220-1100 | 3220-2100 | 3220-3100 | 3220-4100 | 3220-5100 |
| 1-1/4 | 1/2 | 3 | 3220-0114 | 3220-1114 | 3220-2114 | 3220-3114 | 3220-4114 | 3220-5114 |
| 1-1/2 | 1/2 | 3 | 3220-0112 | 3220-1112 | 3220-2112 | 3220-3112 | 3220-4112 | 3220-5112 |
| 1-1/2 | 3/4 | 3 | 3220-0113 | 3220-1113 | 3220-2113 | 3220-3113 | 3220-4113 | 3220-5113 |
| 2 | 3/4 | 3-1/4 | 3220-0200 | 3220-1200 | 3220-2200 | 3220-3200 | 3220-4200 | 3220-5200 |

Hss 4Flute Countersink

高速钢四刃铰钻



- 四刃铰钻。
- 磨制刃口，切削平滑。

| SIZE | SHANK | OVERALL LENGTH | 60° | 60° | 82° | 82° | 90° | 90° |
|-------|-------|----------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 1/2 | 1/2 | 3-7/8 | 3264-0012 | 3264-1012 | 3264-2012 | 3264-3012 | 3264-4012 | 3264-5012 |
| 5/8 | 1/2 | 4 | 3264-0058 | 3264-1058 | 3264-2058 | 3264-3058 | 3264-4058 | 3264-5058 |
| 3/4 | 1/2 | 4-1/8 | 3264-0034 | 3264-1034 | 3264-2034 | 3264-3034 | 3264-4034 | 3264-5034 |
| 7/8 | 1/2 | 4-1/4 | 3264-0078 | 3264-1078 | 3264-2078 | 3264-3078 | 3264-4078 | 3264-5078 |
| 1 | 1/2 | 4-3/8 | 3264-0100 | 3264-1100 | 3264-2100 | 3264-3100 | 3264-4100 | 3264-5100 |
| 1-1/4 | 1/2 | 5 | 3264-0114 | 3264-1114 | 3264-2114 | 3264-3114 | 3264-4114 | 3264-5114 |
| 1-1/2 | 1/2 | 5-3/8 | 3264-0112 | 3264-1112 | 3264-2112 | 3264-3112 | 3264-4112 | 3264-5112 |

Hss 6Flute Countersink

六刃铰钻



- For producing machined countersinks in holes.
- Right hand (clockwise rotation) cutting direction.
- 6刃刀口，切削轻快。
- 可以按照客户特殊要求设计柄部尺寸。

| SIZE | SHANK | OVERALL LENGTH | 60° | 60° | 82° | 82° | 90° | 90° |
|-------|-------|----------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 3/16 | 3/16 | 1-1/2 | 3266-0031 | 3266-1031 | 3266-2031 | 3266-3031 | 3266-4031 | 3266-5031 |
| 1/4 | 1/4 | 2 | 3266-0014 | 3266-1014 | 3266-2014 | 3266-3014 | 3266-4014 | 3266-5014 |
| 5/16 | 1/4 | 2 | 3266-0051 | 3266-1051 | 3266-2051 | 3266-3051 | 3266-4051 | 3266-5051 |
| 3/8 | 1/4 | 2 | 3266-0038 | 3266-1038 | 3266-2038 | 3266-3038 | 3266-4038 | 3266-5038 |
| 1/2 | 1/4 | 2 | 3266-0012 | 3266-1012 | 3266-2012 | 3266-3012 | 3266-4012 | 3266-5012 |
| 5/8 | 1/2 | 2-1/2 | 3266-0058 | 3266-1058 | 3266-2058 | 3266-3058 | 3266-4058 | 3266-5058 |
| 3/4 | 1/2 | 2-3/4 | 3266-0034 | 3266-1034 | 3266-2034 | 3266-3034 | 3266-4034 | 3266-5034 |
| 7/8 | 1/2 | 2-3/4 | 3266-0078 | 3266-1078 | 3266-2078 | 3266-3078 | 3266-4078 | 3266-5078 |
| 1 | 1/2 | 2-3/4 | 3266-0100 | 3266-1100 | 3266-2100 | 3266-3100 | 3266-4100 | 3266-5100 |
| 1-1/4 | 3/4 | 3-3/8 | 3266-0114 | 3266-1114 | 3266-2114 | 3266-3114 | 3266-4114 | 3266-5114 |
| 1-1/2 | 3/4 | 3-1/2 | 3266-0112 | 3266-1112 | 3266-2112 | 3266-3112 | 3266-4112 | 3266-5112 |
| 1-3/4 | 1 | 4-1/4 | 3266-0134 | 3266-1134 | 3266-2134 | 3266-3134 | 3266-4134 | 3266-5134 |
| 2 | 1 | 4-3/8 | 3266-0200 | 3266-1200 | 3266-2200 | 3266-3200 | 3266-4200 | 3266-5200 |

Hss Countersink Sets Series

高速钢套装铰钻系列



6Pcs/Set 3Flute Countersink **6pcs/set:Includes** **8,10,12.4,16.5,20.5,25mm**

60° Order No .3240-0068
82° Order No .3240-0088
90° Order No .3240-0098
60° Tin-Coated Order No.3240-1068
82° Tin-Coated Order No.3240-1088
90° Tin-Coated Order No.3240-1098



6Pcs/Set 3Flute Countersink **6pcs/set:Includes** **6.3,8.3,10.4,12.4,16.5,20.5mm**

60° Order No.3240-0066
82° Order No.3240-0086
90° Order No.3240-0096
60° Tin-Coated Order No.3240-1066
82° Tin-Coated Order No.3240-1086
90° Tin-Coated Order No.3240-1096



6Pcs/Set 3Flute Countersink HEXAGON SHANK **6pcs/set: Includes** **6.3,8.3,10.4,12.4,16.5,20.5mm**

60° Order No .3206-0466
82° Order No .3206-0486
90° Order No .3206-0496
60° Tin-Coated Order No.3206-2466
82° Tin-Coated Order No.3206-2486
90° Tin-Coated Order No.3206-2496



12Pcs/Set 3Flute Countersink **12pcs/set:Includes** **5.3,5.8,6.3,7.3,8.3,9.4,10.4,12.4,13.4,16.5,20.5,25mm**

60° Order No.3240-0165
82° Order No.3240-0185
90° Order No.3240-0195
60° Tin-Coated Order No.3240-1165
82° Tin-Coated Order No.3240-1185
90° Tin-Coated Order No.3240-1195

17Pcs/Set 3Flute Countersink **17pcs/set:Includes** **4.3,5.0,6.0,6.3,7.0,8.0,8.3,10,10.4,11.5,12.4,15,** **16.5(Shank 10mm)19,20.5,23,25mm**

60° Order No.3240-0171
82° Order No.3240-0172
90° Order No.3240-0173
60° Tin-Coated Order No.3240-1171
82° Tin-Coated Order No.3240-1172
90° Tin-Coated Order No.3240-1173



5Pcs/Set Hss 3Flute Countersink
5pcs/set: Includes
1/4, 3/8, 1/2, 3/4 and 1"

- 60° Order No.3220-0065
- 82° Order No.3220-0085
- 90° Order No.3220-0095
- 60° Tin-Coated Order No.3220-1065
- 82° Tin-Coated Order No.3220-1085
- 90° Tin-Coated Order No.3220-1095

6Pcs/Set Hss 3Flute Countersink
6pcs/set: Includes
1/4, 3/8, 1/2, 5/8, 3/4 and 1"

- 60° Order No.3220-0066
- 82° Order No.3220-0086
- 90° Order No.3220-0096
- 60° Tin-Coated Order No.3220-1066
- 82° Tin-Coated Order No.3220-1086
- 90° Tin-Coated Order No.3220-1096



5Pcs/Set Hss 6flute Countersink
5pcs/set: Includes
1/4, 3/8, 1/2, 3/4 and 1"

- 60° Order No.3266-0050
- 82° Order No.3266-0052
- 90° Order No.3266-0054
- 60° Tin-Coated Order No.3266-1050
- 82° Tin-Coated Order No.3266-1052
- 90° Tin-Coated Order No.3266-1054

5Pcs/Set Hss 6Flute Countersink
8pcs/set: Includes
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8 and 1"

- 60° Order No.3266-0068
- 82° Order No.3266-0088
- 90° Order No.3266-0098
- 60° Tin-Coated Order No.3266-1068
- 82° Tin-Coated Order No.3266-1088
- 90° Tin-Coated Order No.3266-1098

10Pcs/Set Hss 6flute Countersink
10pcs/set: Includes
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1 and 1-1/4"

- 60° Order No.3266-0160
- 82° Order No.3266-0180
- 90° Order No.3266-0190
- 60° Tin-Coated Order No.3266-1160
- 82° Tin-Coated Order No.3266-1180
- 90° Tin-Coated Order No.3266-1190

11pcs/set Hss 6Flute Countersink
11Pcs/Set :Includes
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4 and 1-1/2"

- 60° Order No.3266-0161
- 82° Order No.3266-0181
- 90° Order No.3266-0191
- 60° Tin-Coated Order No.3266-1161
- 82° Tin-Coated Order No.3266-1181
- 90° Tin-Coated Order No.3266-1191



5Pcs/set Hss Single Flute Countersink

5pcs/set: Includes
1/4,3/8,1/2(With 1/4 Shk)
3/4,1(With 1/2 Shk)

- 60° Order No.3210-0065
- 82° Order No.3210-0085
- 90° Order No.3210-0095
- 60° Tin-Coated Order No.3210-1065
- 82° Tin-Coated Order No.3210-1085
- 90° Tin-Coated Order No.3210-1095

6Pcs/Set Hss Single Flute Countersink

6pcs/set: Includes
1/4,3/8,1/2,(With 1/4 Shk)
5/8,3/4,1(With 1/2 Shk)

- 60° Order No.3210-0066
- 82° Order No.3210-0086
- 90° Order No.3210-0096
- 60° Tin-Coated Order No.3210-1066
- 82° Tin-Coated Order No.3210-1086
- 90° Tin-Coated Order No.3210-1096

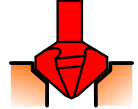
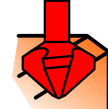
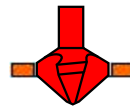
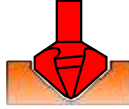
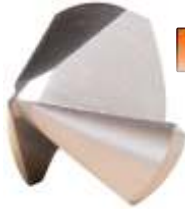
11pcs/set Hss Single Flute Countersink

11Pcs/Set:Includes
3/16,1/4,5/16,3/8,1/2,5/8,3/4,7/8,1,1-1/4 and 1-1/2

- 60° Order No.3210-0002
- 82° Order No.3210-0004
- 90° Order No.3210-0006
- 60° Tin-Coated Order No.3210-1002
- 82° Tin-Coated Order No.3210-1004
- 90° Tin-Coated Order No.3210-1006

Hss Helical Countersink

高速钢带钻尖铤钻



*This product can drill the thin steel plate, besides the function of chamfering ,
*So it doesnt need to drill a hole in the steel plate.

- 磨制钻尖，锋利刃口。
- 除了倒角以为，它还可以直接钻透薄钢板。

| SIZE | SHANK | OVERALL LENGTH | 60° | 60° | 82° | 82° | 90° | 90° |
|------|-------|----------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 10.0 | 6 | 50 | 3282-2100 | 3282-3100 | 3282-4100 | 3282-5100 | 3282-0100 | 3282-1100 |
| 10.4 | 6 | 50 | 3282-2104 | 3282-3104 | 3282-4104 | 3282-5104 | 3282-0104 | 3282-1104 |
| 12.4 | 8 | 56 | 3282-2124 | 3282-3124 | 3282-4124 | 3282-5124 | 3282-0124 | 3282-1124 |
| 13.4 | 8 | 56 | 3282-2134 | 3282-3134 | 3282-4134 | 3282-5134 | 3282-0134 | 3282-1134 |
| 16.5 | 10 | 60 | 3282-2165 | 3282-3165 | 3282-4165 | 3282-5165 | 3282-0165 | 3282-1165 |
| 20.5 | 10 | 63 | 3282-2205 | 3282-3205 | 3282-4205 | 3282-5205 | 3282-0205 | 3282-1205 |
| 23.0 | 10 | 67 | 3282-2230 | 3282-3230 | 3282-4230 | 3282-5230 | 3282-0230 | 3282-1230 |
| 25.0 | 10 | 67 | 3282-2250 | 3282-3250 | 3282-4250 | 3282-5250 | 3282-0250 | 3282-1250 |
| 30.0 | 12 | 71 | 3282-2300 | 3282-3300 | 3282-4300 | 3282-5300 | 3282-0300 | 3282-1300 |
| 31.0 | 12 | 71 | 3282-2310 | 3282-3310 | 3282-4310 | 3282-5310 | 3282-0310 | 3282-1310 |
| 32.0 | 12 | 78 | 3282-2320 | 3282-3320 | 3282-4320 | 3282-5320 | 3282-0320 | 3282-1320 |
| 35.0 | 12 | 78 | 3282-2350 | 3282-3350 | 3282-4350 | 3282-5350 | 3282-0350 | 3282-1350 |
| 40.0 | 15 | 89 | 3282-2400 | 3282-3400 | 3282-4400 | 3282-5400 | 3282-0400 | 3282-1400 |
| 45.0 | 15 | 90 | 3282-2450 | 3282-3450 | 3282-4450 | 3282-5450 | 3282-0450 | 3282-1450 |
| 50.0 | 15 | 95 | 3282-2500 | 3282-3500 | 3282-4500 | 3282-5500 | 3282-0500 | 3282-1500 |

Hss Weldon Shank Countersink

重型柄三刃镗钻



- 3刃镗钻重型柄设计，使用磁座钻快换夹头，应用于铁路、桥梁、造船等场合使用。
- 磨制刃口，切削拍肩顺畅。

| SIZE | SHANK | 60° | 60° | 82° | 82° | 90° | 90° |
|-------|-------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 20 | 19 | 3203-0020 | 3203-0120 | 3203-0220 | 3203-0320 | 3203-0420 | 3203-0520 |
| 25 | 19 | 3203-0025 | 3203-0125 | 3203-0225 | 3203-0325 | 3203-0425 | 3203-0525 |
| 30 | 19 | 3203-0030 | 3203-0130 | 3203-0230 | 3203-0330 | 3203-0430 | 3203-0530 |
| 40 | 19 | 3203-0040 | 3203-0140 | 3203-0240 | 3203-0340 | 3203-0440 | 3203-0540 |
| 50 | 19 | 3203-0050 | 3203-0150 | 3203-0250 | 3203-0350 | 3203-0450 | 3203-0550 |
| 55 | 19 | 3203-0055 | 3203-0155 | 3203-0255 | 3203-0355 | 3203-0455 | 3203-0555 |
| 63 | 19 | 3203-0063 | 3203-0163 | 3203-0263 | 3203-0363 | 3203-0463 | 3203-0563 |
| 1 | 3/4 | 3203-0010 | 3203-0110 | 3203-0210 | 3203-0310 | 3203-0410 | 3203-0510 |
| 1-1/4 | 3/4 | 3203-0012 | 3203-0112 | 3203-0212 | 3203-0312 | 3203-0412 | 3203-0512 |
| 1-1/2 | 3/4 | 3203-0014 | 3203-0114 | 3203-0214 | 3203-0314 | 3203-0414 | 3203-0514 |
| 1-3/4 | 3/4 | 3203-0016 | 3203-0116 | 3203-0216 | 3203-0316 | 3203-0416 | 3203-0516 |
| 2 | 3/4 | 3203-0018 | 3203-0118 | 3203-0218 | 3203-0318 | 3203-0418 | 3203-0518 |

Hss Countersink Interchangeable Shank

组装柄三刃镗钻



• 3刃镗钻, 将柄设计成可以拆卸组装的形式, 适合同一规格, 不同柄径的切换。压缩制造成本。适合所有的机械设备

| SHANK | SIZE | | | | | | |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | |
| M16-10-56 10 h9 56 | 3280-0501 | 3280-0549 | 3280-0605 | 3280-0653 | 3280-0709 | 3280-0757 | 3280-0785 |
| M16-12-56 12 h9 56 | 3280-0509 | 3280-0557 | 3280-0613 | 3280-0661 | 3280-0717 | 3280-0765 | 3280-0793 |
| M16-12-106 12 h9 106 | 3280-0517 | 3280-0565 | 3280-0621 | 3280-0669 | 3280-0725 | 3280-0773 | 3280-0801 |
| M16-12-156 12 h9 156 | 3280-0525 | 3280-0573 | 3280-0629 | 3280-0677 | 3280-0733 | 3280-0781 | 3280-0809 |
| M16-MK3-111 111 | | 3280-0581 | | 3280-0685 | | | 3280-0815 |
| M16-MK2-94 94 | 3280-0533 | 3280-0589 | 3280-0637 | 3280-0693 | 3280-0741 | 3280-0789 | 3280-0823 |
| M16-MK1-75 75 | 3280-0541 | 3280-0597 | 3280-0645 | 3280-0701 | 3280-0749 | 3280-0797 | 3280-0831 |

| mm SHANK | SIZE | | | | | | | | |
|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 31 | 34 | 37 | 40 | 45 | 50 | 63 | 80 |
| | M12-MK1-75 | 3280-0001 | 3280-0009 | 3280-0049 | | | | | |
| | M12-10-56 | | 3280-0017 | 3280-0057 | | | | | |
| | M12-12-56 | | 3280-0025 | 3280-0065 | | | | | |
| | M12-12-106 | | 3280-0033 | 3280-0073 | | | | | |
| | M12-12-156 | | 3280-0041 | 3280-0081 | | | | | |
| | M16-10-56 | | | | 3280-0089 | 3280-0129 | 3280-0177 | 3280-0225 | |
| | M16-12-56 | | | | | 3280-0137 | 3280-0185 | 3280-0233 | |
| | M16-12-106 | | | | 3280-0097 | 3280-0145 | 3280-0193 | 3280-0241 | |
| | M16-12-156 | | | | 3280-0105 | 3280-0153 | 3280-0201 | 3280-0249 | |
| | M16-MK3-111 | | | | | 3280-0161 | | 3280-0257 | |
| | M16-MK2-94 | | | | 3280-0113 | | 3280-0209 | 3280-0265 | |
| | M16-MK1-75 | | | | 3280-0121 | 3280-0169 | 3280-0217 | 3280-0273 | |
| | M24-MK3-106 | | | | | | | | 3280-0281 |
| | M24-MK2-99 | | | | | | | | 3280-0289 |

Hss Zero Flute Countersink

高速钢零刃铰钻



*The hole style deburring tool is designed to countersink and chamfer light metals and plastics

*The finish is smooth and free of burrs

*Lubrication is recommended

- 孔式铰钻,适用于有色金属、塑料、木头
- 可以顺利完成螺钉沉孔、毛刺去除。
- 建议使用冷却液进行金属切削。

| SIZE | SHANK | OVERALL LENGTH | 60° | | 82° | | 90° | |
|-------|-------|----------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 1~4 | 6.35 | 45 | 3270-0014 | 3270-1014 | 3270-2014 | 3270-3014 | 3270-4014 | 3270-5014 |
| 2~5 | 6 | 45 | 3270-0025 | 3270-1025 | 3270-2025 | 3270-3025 | 3270-4025 | 3270-5025 |
| 5~10 | 8 | 48 | 3270-0051 | 3270-1051 | 3270-2051 | 3270-3051 | 3270-4051 | 3270-5051 |
| 10~15 | 10 | 65 | 3270-0115 | 3270-1115 | 3270-2115 | 3270-3115 | 3270-4115 | 3270-5115 |
| 15~20 | 12 | 85 | 3270-0152 | 3270-1152 | 3270-2152 | 3270-3152 | 3270-4152 | 3270-5152 |
| 20~25 | 15 | 102 | 3270-0225 | 3270-1225 | 3270-2225 | 3270-3225 | 3270-4225 | 3270-5225 |
| 25~30 | 15 | 115 | 3270-0253 | 3270-1253 | 3270-2253 | 3270-3253 | 3270-4253 | 3270-5253 |
| 30~35 | 15 | 127 | 3270-0335 | 3270-1335 | 3270-2335 | 3270-3335 | 3270-4335 | 3270-5335 |
| 35~40 | 15 | 136 | 3270-0354 | 3270-1354 | 3270-2354 | 3270-3354 | 3270-4354 | 3270-5354 |
| 40~45 | 18 | 155 | 3270-0445 | 3270-1445 | 3270-2445 | 3270-3445 | 3270-4445 | 3270-5445 |
| 45~50 | 18 | 166 | 3270-0455 | 3270-1455 | 3270-2455 | 3270-3455 | 3270-4455 | 3270-5455 |

| SIZE | SHANK | RANGE OF HOLE | 60° | | 82° | | 90° | |
|------|-------|---------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 0 | 1/4 | 1/16~15/64 | 3271-0116 | 3271-1116 | 3271-2116 | 3271-3116 | 3271-4116 | 3271-5116 |
| 1 | 1/4 | 5/32~13/32 | 3271-0532 | 3271-1532 | 3271-2532 | 3271-3532 | 3271-4532 | 3271-5532 |
| 2 | 1/4 | 3/16~17/32 | 3271-0316 | 3271-1316 | 3271-2316 | 3271-3316 | 3271-4316 | 3271-5316 |
| 3 | 1/2 | 5/16~25/32 | 3271-0516 | 3271-1516 | 3271-2516 | 3271-3516 | 3271-4516 | 3271-5516 |
| 4 | 1/2 | 9/16~1/16 | 3271-0916 | 3271-1916 | 3271-2916 | 3271-3916 | 3271-4916 | 3271-5916 |
| 5 | 1/2 | 1/2~1-1/2 | | | 3271-2120 | 3271-3120 | | |
| 6 | 5/8 | 3/4~1-3/4 | | | 3271-2340 | 3271-3340 | | |
| 7 | 5/8 | 1"~2" | | | 3271-2100 | 3271-3100 | | |
| 8 | 3/4 | 1-1/4~2-1/2 | | | 3271-2114 | 3271-3114 | | |

Hss Zero Flute Countersink

高速钢六方柄零刃铤钻



快换六方柄，适合于电动工具
及手用快转接杆。
为软质材料设计，适合加工有色
金属，塑料，木材等产品。

| SIZE | SHANK | OVERALL LENGTH | 60° | 60° | 82° | 82° | 90° | 90° |
|-------|-------|----------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 1~4 | 6.35 | 45 | 3280-0014 | 3280-1014 | 3280-2014 | 3280-3014 | 3280-4014 | 3280-5014 |
| 2~5 | 6.35 | 45 | 3280-0025 | 3280-1025 | 3280-2025 | 3280-3025 | 3280-4025 | 3280-5025 |
| 5~10 | 6.35 | 48 | 3280-0051 | 3280-1051 | 3280-2051 | 3280-3051 | 3280-4051 | 3280-5051 |
| 10~15 | 9.525 | 65 | 3280-0115 | 3280-1115 | 3280-2115 | 3280-3115 | 3280-4115 | 3280-5115 |

| SIZE | SHANK | RANGE OF HOLE | 60° | 60° | 82° | 82° | 90° | 90° |
|------|-------|---------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| | | | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 0 | 1/4 | 1/16~15/64 | 3281-0116 | 3281-1116 | 3281-2116 | 3281-3116 | 3281-4116 | 3281-5116 |
| 1 | 1/4 | 5/32~13/32 | 3281-0532 | 3281-1532 | 3281-2532 | 3281-3532 | 3281-4532 | 3281-5532 |
| 2 | 1/4 | 3/16~17/32 | 3281-0316 | 3281-1316 | 3281-2316 | 3281-3316 | 3281-4316 | 3281-5316 |
| 3 | 3/8 | 5/16~25/32 | 3281-0516 | 3281-1516 | 3281-2516 | 3281-3516 | 3281-4516 | 3281-5516 |
| 4 | 3/8 | 9/16~1/16 | 3281-0916 | 3281-1916 | 3281-2916 | 3281-3916 | 3281-4916 | 3281-5916 |
| 5 | 3/8 | 1/2~1-1/2 | | | 3281-2120 | 3281-3120 | | |

Hss Zero Flute Countersink Sets

高速钢零刃铰钻套装



4Pcs/Set Zero Flute Countersink Metal Case

4pcs/set: Includes

2~5, 5~10, 10~15, 15~20mm

60° Order No .3270-0064

82° Order No .3270-0084

90° Order No .3270-0094

60° Tin-Coated Order No .3270-1064

82° Tin-Coated Order No .3270-1084

90° Tin-Coated Order No .3270-1094



5Pcs/Set Zero Flute Countersink WoodenBOX Case

5pcs/set: Includes

1~4, 2~5, 5~10, 10~15, 15~20mm

60° Order No.3270-0065

82° Order No.3270-0085

90° Order No.3270-0095

60° Tin-Coated Order No .3270-1065

82° Tin-Coated Order No .3270-1085

90° Tin-Coated Order No .3270-1095

6Pcs/Set Zero Flute Countersink WoodenBOX Case

6pcs/set: Includes

2~5, 5~10, 10~15, 15~20, 20~25, 25~30 mm

60° Order No.3270-0066

82° Order No.3270-0086

90° Order No.3270-0096

60° Tin-Coated Order No.3270-1066

82° Tin-Coated Order No.3270-1086

90° Tin-Coated Order No.3270-1096

5Pcs/Set Zero Flute Countersink Metal Case

5pcs/set: Includes

2~5, 5~10, 10~15, 15~20, 20~25mm

60° Order No .3270-0075

82° Order No .3270-0085

90° Order No .3270-0095

60° Tin-Coated Order No .3270-1075

82° Tin-Coated Order No .3270-1085

90° Tin-Coated Order No .3270-1095



5Pcs/Set Zero Flute Countersink WoodenBOX Case
5pcs/set: Includes
0#, 1#, 2#, 3#, 4#

- 60° Order No.3271-0604
- 82° Order No.3271-0804
- 90° Order No.3271-0904
- 60° Tin-Coated Order No.3271-1604
- 82° Tin-Coated Order No.3271-1804
- 90° Tin-Coated Order No.3271-1904



5Pcs/Set Zero Flute Countersink HEXagon Shank
5pcs/set: Includes
0#, 1#, 2#, 3#, 4#

- 60° Order No.3271-0610
- 82° Order No.3271-0810
- 90° Order No.3271-0910
- 60° Tin-Coated Order No.3271-1610
- 82° Tin-Coated Order No.3271-1810
- 90° Tin-Coated Order No.3271-1910



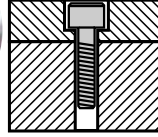
3Pcs/Set Zero Flute Countersink HEXagon Shank
Cutting diameters:

- ♦ 5/64" to 15/64"
- ♦ 1/8" to 11/32"
- ♦ 3/16" to 17/32"
- Includes 5/64", 1/8" and 3/16" drill bits

- 60° Order No.3282-9000
- 82° Order No.3282-9001
- 90° Order No.3282-9002
- 60° Tin-Coated Order No.3282-8000
- 82° Tin-Coated Order No.3282-8001
- 90° Tin-Coated Order No.3282-8002

Hss Straight Shank Counterbore

直柄带导柱平底铰钻



- *Use for enlarging holes for the socket heads of cap screws
- *features an oversized solid pilot
- *Straight Shank

- 为圆柱头螺钉等制造的沉孔刀。
- 适用于钢、铸铁、有色金属等材料加工沉孔。
- 低速切削，加适当冷却液进行。

| SIZE | PILOT DIA | CUTTER DIA | SHANK DIA | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|-----------|------------|-----------|----------------|---------------------|----------------------|
| M3 | 3.2 | 6.0 | 5.0 | 71 | 3600-0030 | 3600-1030 |
| M3 | 3.4 | 6.0 | 5.0 | 71 | 3600-0031 | 3600-1031 |
| M3.5 | 3.7 | 6.5 | 5.0 | 71 | 3600-0035 | 3600-1035 |
| M4 | 4.3 | 8.0 | 5.0 | 71 | 3600-0040 | 3600-1040 |
| M4 | 4.5 | 8.0 | 5.0 | 71 | 3600-0041 | 3600-1041 |
| M4.5 | 4.8 | 8.0 | 8.0 | 71 | 3600-0045 | 3600-1045 |
| M5 | 5.3 | 10 | 8.0 | 80 | 3600-0050 | 3600-1050 |
| M5 | 5.5 | 10 | 8.0 | 80 | 3600-0051 | 3600-1050 |
| M6 | 6.4 | 11 | 8.0 | 80 | 3600-0060 | 3600-1060 |
| M6 | 6.6 | 11 | 8.0 | 80 | 3600-0061 | 3600-1061 |
| M8 | 8.4 | 15 | 12.5 | 100 | 3600-0080 | 3600-1080 |
| M8 | 9 | 15 | 12.5 | 100 | 3600-0081 | 3600-1081 |
| M10 | 10.5 | 18 | 12.5 | 100 | 3600-0100 | 3600-1100 |
| M10 | 11 | 18 | 12.5 | 100 | 3600-0101 | 3600-1101 |
| M12 | 13 | 20 | 12.5 | 100 | 3600-0120 | 3600-1120 |
| M12 | 13.5 | 20 | 12.5 | 100 | 3600-0121 | 3600-1121 |
| M14 | 15 | 24 | 12.5 | 100 | 3600-0140 | 3600-1140 |
| M14 | 16 | 24 | 12.5 | 100 | 3600-0141 | 3600-1141 |
| M16 | 17 | 26 | 12.5 | 100 | 3600-0160 | 3600-1160 |
| M16 | 18 | 26 | 12.5 | 100 | 3600-0161 | 3600-1161 |
| M18 | 19 | 30 | 12.5 | 100 | 3600-0180 | 3600-1180 |
| M20 | 21 | 33 | 12.5 | 125 | 3600-0200 | 3600-1200 |
| M20 | 22 | 33 | 12.5 | 125 | 3600-0201 | 3600-1201 |
| M24 | 25.4 | 40 | 16 | 254 | 3600-0240 | 3600-1240 |

Hss Taper Shank Counterbore

带导柱锥柄平底铤钻



*Use for enlarging holes for the socket heads of cap screws

*features an oversized solid pilot

*Taper Shank

- 为圆柱头螺钉等制造的沉孔刀。
- 适用于钢、铸铁、有色金属等材料加工沉孔。
- 低速切削，加适当冷却液进行。

| SIZE | PILOT DIA | CUTTER DIA | SHANK DIA | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|-----------|------------|-----------|----------------|---------------------|----------------------|
| M10 | 10.5 | 18 | MT2 | 150 | 3602-0010 | 3602-1010 |
| M10 | 11 | 18 | MT2 | 150 | 3602-0011 | 3602-1011 |
| M12 | 13 | 20 | MT2 | 150 | 3602-0012 | 3602-1012 |
| M12 | 13.5 | 20 | MT2 | 150 | 3602-0013 | 3602-1013 |
| M14 | 15 | 24 | MT2 | 228 | 3602-0014 | 3602-1014 |
| M14 | 16 | 24 | MT2 | 228 | 3602-0015 | 3602-1015 |
| M16 | 17 | 26 | MT2 | 228 | 3602-0016 | 3602-1016 |
| M16 | 18 | 26 | MT2 | 228 | 3602-0017 | 3602-1017 |
| M18 | 19 | 30 | MT3 | 228 | 3602-0018 | 3602-1018 |
| M20 | 21 | 33 | MT3 | 254 | 3602-0020 | 3602-1020 |
| M20 | 22 | 33 | MT3 | 254 | 3602-0021 | 3602-1021 |
| M22 | 23 | 36 | MT3 | 254 | 3602-0022 | 3602-1022 |
| M24 | 25 | 40 | MT3 | 254 | 3602-0024 | 3602-1024 |

Hss Straight Shank Counterbore

直柄带导柱平底铰钻



*Use for enlarging holes for the socket heads of cap screws
*features an oversized solid pilot
*Straight Shank

- 为圆柱头螺钉等制造的沉孔刀。
- 适用于钢、铸铁、有色金属等材料加工沉孔。
- 低速切削，加适当冷却液进行。

| SIZE | PILOT DIA | CUTTER DIA | SHANK DIA | OVERALL LENGTH | ORDER # | Tin ORDER # |
|------|-----------|------------|-----------|----------------|-----------|-------------|
| 5# | .141 | .221 | 3/16 | 3 | 3603-0005 | 3603-1005 |
| 6# | .150 | .242 | 7/32 | 3 | 3603-0006 | 3603-1006 |
| 8# | 11/64 | 19/64 | 1/4 | 3 | 3603-0008 | 3603-1008 |
| 10# | 13/64 | 21/64 | 9/32 | 3-1/2 | 3603-0010 | 3603-1010 |
| 1/4 | 9/32 | 13/32 | 5/16 | 5 | 3603-0014 | 3603-1014 |
| 5/16 | 11/32 | 1/2 | 3/8 | 5 | 3603-0051 | 3603-1051 |
| 3/8 | 13/32 | 19/32 | 1/2 | 6 | 3603-0038 | 3603-1038 |
| 7/16 | 15/32 | 11/16 | 1/2 | 7 | 3603-0071 | 3603-1071 |
| 1/2 | 17/32 | 25/32 | 1/2 | 7-1/2 | 3603-0012 | 3603-1012 |
| 1/2 | 9/16 | 13/16 | 1/2 | 7-1/2 | 3603-0014 | 3603-1014 |
| 5/8 | 21/32 | 31/32 | 5/8 | 7-1/2 | 3603-0013 | 3603-1013 |
| 5/8 | 11/16 | 1 | 3/4 | 7-1/2 | 3603-0015 | 3603-1015 |
| 3/4 | 13/16 | 1-3/16 | 1 | 8 | 3603-0058 | 3603-1058 |
| 7/8 | 15/16 | 1-3/8 | 1 | 8 | 3603-0034 | 3603-1034 |
| 1 | 1-1/16 | 1-9/16 | 1 | 10 | 3603-0100 | 3603-1100 |

Hss Taper Shank Counterbore

带导柱锥柄平底铰钻



*Use for enlarging holes for the socket heads of cap screws
*features an oversized solid pilot
*Taper Shank

- 为圆柱头螺钉等制造的沉孔刀。
- 适用于钢、铸铁、有色金属等材料加工沉孔。
- 低速切削，加适当冷却液进行。

| SIZE | PILOT DIA | CUTTER DIA | SHANK DIA | OVERALL LENGTH | ORDER # | Tin ORDER # |
|------|-----------|------------|-----------|----------------|-----------|-------------|
| 1/4 | 9/32 | 13/32 | MT2 | 5-3/4 | 3604-0014 | 3604-1014 |
| 5/16 | 11/32 | 1/2 | MT2 | 6 | 3604-0051 | 3604-1051 |
| 3/8 | 13/32 | 19/32 | MT2 | 6-1/2 | 3604-0038 | 3604-1038 |
| 7/16 | 15/32 | 11/16 | MT2 | 7 | 3604-0071 | 3604-1071 |
| 1/2 | 17/32 | 25/32 | MT2 | 7-1/4 | 3604-0012 | 3604-1012 |
| 5/8 | 21/32 | 31/32 | MT3 | 7-1/2 | 3604-0058 | 3604-1058 |
| 5/8 | 11/16 | 1 | MT3 | 7-1/2 | 3604-0059 | 3604-1059 |
| 3/4 | 13/16 | 1-3/16 | MT3 | 9 | 3604-0034 | 3604-1034 |
| 7/8 | 15/16 | 1-3/8 | MT3 | 9 | 3604-0078 | 3604-1078 |
| 1 | 1-1/16 | 1-9/16 | MT3 | 10 | 3604-0100 | 3604-1100 |

Hss Counterbores Sets

直柄带导柱套装平底铰钻



Counterbore Sets

INCLUDES:

6Pcs/set: M3, M4, M5, M6, M8, M10

7Pcs/set: M3, M4, M5, M6, M8, M10, M12

8Pcs/set: M3, M4, M5, M6, M8, M10, M12, M14

PACKAGE:

6Pcs/set: Wooden case

7Pcs/set: Metal case

8Pcs/set: Wooden case

| SET | UN-Coated ORDER No | Tin-Coated ORDER No |
|------|-----------------------|------------------------|
| 6Pcs | 3600-0186 | 3600-1186 |
| 7Pcs | 3600-0187 | 3600-1187 |
| 8Pcs | 3600-0188 | 3600-1188 |



Counterbore Sets

INCLUDES:

6Pcs/set: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4

7Pcs/set: 6#, 8#, 10#, 1/4, 5/16, 3/8, 1/2

9Pcs/set: 6#, 8#, 10#, 12#, 1/4, 5/16, 3/8, 7/16, 1/2

PACKAGE:

6Pcs/set: Wooden case

7Pcs/set: Wooden case

9Pcs/set: Wooden case

| SET | UN-Coated ORDER No | Tin-Coated ORDER No |
|-------|-----------------------|------------------------|
| 6Pcs | 3603-0186 | 3603-1186 |
| 7Pcs | 3603-0187 | 3603-1187 |
| 9Pcs* | 3605-0909 | 3605-1909 |

*Long flute for socket head cap screws



New

Counterbore & Countersink Sets

14Pcs/Set INCLUDES:

7Pcs: Counterbore Bore : M3, M4, M5, M6, M8, M10, M12

7Pcs: Countersink 3Flute 90° : 10mm--1pcs

15mm--2pcs

20mm--1pcs

25mm--2pcs

30mm--1pcs

PACKAGE:

UN-Coated: 3604-0001

Tin-Coated: 3604-0002

7Pcs: Counterbore Bore : M3, M4, M5, M6, M8, M10, M12

7Pcs: Countersink 0Flute 90° : 5-10mm--1pcs

10-15mm--2pcs

15-20mm--1pcs

20-25mm--2pcs

25-30mm--1pcs

PACKAGE:

UN-Coated: 3604-0003

Tin-Coated: 3604-0004

Interchangeable Pilot Counterbore

可换导柱平底镗钻



*For interchangeable pilots.

*Staight shank & Taper Sahnk.

- 可换导向柱设计，加工不同孔径沉孔。
- 适用于钢、铸铁、有色金属等材料加工沉孔。
- 直柄和锥柄。
- 低速切削，加适当冷却液进行。

| SIZE | FLUTE | OVERALL LENGTH | HOLE SIZE | STRAIGHT SHANK | | STRAIGHT ORDER # | TAPER ORDER # | |
|--------|-------|----------------|-----------|----------------|--------|------------------|---------------|-----------|
| | | | | DIA | M.T. | | | |
| 3/16 | 3 | 3 | 3/32 | 15/64 | 3-1/16 | 1 | 3606-0002 | 3606-1002 |
| 13/64 | 3 | 3 | 3/32 | 15/64 | 3-1/16 | 1 | 3606-0004 | 3606-1004 |
| 7/32 | 3 | 3 | 3/32 | 15/64 | 3-1/16 | 1 | 3606-0006 | 3606-1006 |
| 15/64 | 3 | 3-13/16 | 3/32 | 15/64 | 3-1/16 | 1 | 3606-0008 | 3606-1008 |
| 1/4* | 3 | 3-13/16 | 3/32 | 15/64 | 3-1/16 | 1 | 3606-0010 | 3606-1010 |
| 17/64 | 3 | 3-13/16 | 3/32 | 17/64 | 3-1/16 | 1 | 3606-0012 | 3606-1012 |
| 9/32 | 3 | 3-13/16 | 3/32 | 17/64 | 3-1/16 | 1 | 3606-0014 | 3606-1014 |
| 19/64 | 3 | 3-13/16 | 3/32 | 17/64 | 3-1/16 | 1 | 3606-0016 | 3606-1016 |
| 5/16* | 3 | 3-13/16 | 3/32 | 19/64 | 3-1/16 | 1 | 3606-0018 | 3606-1018 |
| 21/64 | 3 | 3-13/16 | 3/32 | 5/16 | 3-1/16 | 1 | 3606-0020 | 3606-1020 |
| 11/32 | 3 | 3-13/16 | 3/32 | 5/16 | 3-1/16 | 1 | 3606-0022 | 3606-1022 |
| 23/64 | 3 | 4-1/16 | 5/32 | 5/16 | 3-1/16 | 1 | 3606-0024 | 3606-1024 |
| 3/8* | 3 | 4-1/16 | 5/32 | 5/16 | 3-1/16 | 1 | 3606-0026 | 3606-1026 |
| 25/64 | 3 | 4-1/16 | 5/32 | 3/8 | 3-1/16 | 1 | 3606-0028 | 3606-1028 |
| 13/32 | 3 | 4-1/16 | 5/32 | 3/8 | 3-1/16 | 1 | 3606-0030 | 3606-1030 |
| 27/64 | 3 | 4-1/16 | 5/32 | 3/8 | 3-1/16 | 1 | 3606-0032 | 3606-1032 |
| 7/16* | 3 | 4-1/16 | 5/32 | 3/8 | 3-1/16 | 1 | 3606-0034 | 3606-1034 |
| 29/64 | 3 | 4-5/16 | 3/16 | 7/16 | 3-1/16 | 1 | 3606-0036 | 3606-1036 |
| 15/32 | 3 | 4-5/16 | 3/16 | 7/16 | 3-1/16 | 1 | 3606-0038 | 3606-1038 |
| 31/64 | 3 | 4-5/16 | 3/16 | 7/16 | 3-1/16 | 1 | 3606-0040 | 3606-1040 |
| 1/2* | 3 | 4-5/16 | 3/16 | 7/16 | 3-1/16 | 1 | 3606-0042 | 3606-1042 |
| 33/64 | 3 | 4-5/16 | 3/16 | 1/2 | 3-1/16 | 1 | 3606-0044 | 3606-1044 |
| 17/32 | 3 | 4-5/16 | 3/16 | 1/2 | 3-1/16 | 1 | 3606-0046 | 3606-1046 |
| 35/64 | 3 | 4-5/16 | 3/16 | 1/2 | 3-1/16 | 1 | 3606-0048 | 3606-1048 |
| 9/16* | 3 | 4-5/16 | 3/16 | 1/2 | 3-1/16 | 1 | 3606-0050 | 3606-1050 |
| 37/64 | 3 | 5-1/8 | 3/16 | 1/2 | 3-7/8 | 2 | 3606-0052 | 3606-1052 |
| 19/32 | 3 | 5-1/8 | 3/16 | 1/2 | 3-7/8 | 2 | 3606-0054 | 3606-1054 |
| 39/64 | 3 | 5-1/8 | 3/16 | 1/2 | 3-7/8 | 2 | 3606-0056 | 3606-1056 |
| 5/8* | 3 | 5-1/8 | 3/16 | 1/2 | 3-7/8 | 2 | 3606-0058 | 3606-1058 |
| 41/64 | 3 | 5-1/8 | 3/16 | 1/2 | 3-7/8 | 2 | 3606-0060 | 3606-1060 |
| 21/32 | 3 | 5-1/8 | 3/16 | 1/2 | 3-7/8 | 2 | 3606-0062 | 3606-1062 |
| 43/64 | 3 | 5-1/8 | 3/16 | 1/2 | 3-7/8 | 2 | 3606-0064 | 3606-1064 |
| 11/16* | 3 | 5-3/8 | 1/4 | 1/2 | 3-7/8 | 2 | 3606-0066 | 3606-1066 |
| 45/64 | 3 | 5-3/8 | 1/4 | 1/2 | 3-7/8 | 2 | 3606-0068 | 3606-1068 |
| 23/32 | 3 | 5-3/8 | 1/4 | 1/2 | 3-7/8 | 2 | 3606-0070 | 3606-1070 |
| 47/64 | 3 | 5-3/8 | 1/4 | 1/2 | 3-7/8 | 2 | 3606-0072 | 3606-1072 |
| 3/4* | 3 | 5-3/8 | 1/4 | 5/8 | 3-7/8 | 2 | 3606-0074 | 3606-1074 |
| 49/64 | 3 | 5-3/8 | 1/4 | 5/8 | 3-7/8 | 2 | 3606-0076 | 3606-1076 |
| 25/32 | 3 | 5-3/8 | 1/4 | 5/8 | 3-7/8 | 2 | 3606-0078 | 3606-1078 |
| 51/64 | 3 | 5-3/8 | 1/4 | 5/8 | 3-7/8 | 2 | 3606-0080 | 3606-1080 |
| 13/16* | 3 | 5-3/8 | 1/4 | 3/4 | 3-7/8 | 2 | 3606-0082 | 3606-1082 |
| 53/64 | 3 | 5-3/8 | 1/4 | 3/4 | 3-7/8 | 2 | 3606-0084 | 3606-1084 |
| 27/32 | 3 | 5-3/8 | 1/4 | 3/4 | 3-7/8 | 2 | 3606-0086 | 3606-1086 |
| 55/64 | 3 | 5-3/8 | 1/4 | 3/4 | 3-7/8 | 2 | 3606-0088 | 3606-1088 |
| 7/8* | 3 | 6-1/8 | 1/4 | 3/4 | 4-5/8 | 2 | 3606-0090 | 3606-1090 |
| 57/64 | 3 | 6-1/8 | 1/4 | 3/4 | 4-5/8 | 2 | 3606-0092 | 3606-1092 |
| 29/32 | 3 | 6-1/8 | 1/4 | 3/4 | 4-5/8 | 2 | 3606-0094 | 3606-1094 |
| 59/64 | 3 | 6-1/8 | 1/4 | 3/4 | 4-5/8 | 3 | 3606-0096 | 3606-1096 |
| 15/16* | 3 | 6-3/8 | 1/4 | 3/4 | 4-5/8 | 3 | 3606-0098 | 3606-1098 |
| 61/64 | 3 | 6-3/8 | 5/16 | 3/4 | 4-5/8 | 3 | 3606-0100 | 3606-1100 |
| 31/32 | 3 | 6-3/8 | 5/16 | 3/4 | 4-5/8 | 3 | 3606-0102 | 3606-1102 |
| 63/64 | 3 | 6-3/8 | 5/16 | 3/4 | 4-5/8 | 3 | 3606-0104 | 3606-1104 |
| 1* | 3 | 6-3/8 | 5/16 | 3/4 | 4-5/8 | 3 | 3606-0106 | 3606-1106 |
| 1-1/16 | 3 | 6-3/8 | 5/16 | 1 | 4-5/8 | 3 | 3606-0108 | 3606-1108 |
| 1-1/8 | 3 | 6-3/8 | 5/16 | 1 | 4-5/8 | 3 | 3606-0110 | 3606-1110 |

| SIZE | FLUTE | OVERALL LENGTH | HOLE SIZE | STRAIGHT SHANK DIA | M.T. | STRAIGHT ORDER # | TAPER ORDER # |
|---------|-------|----------------|-----------|--------------------|------|------------------|---------------|
| 1-3/16 | 3 | 6-5/8 | 3/8 | 1×4-5/8 | 3 | 3606-0112 | 3606-1112 |
| 1-1/4 | 5 | 6-5/8 | 3/8 | 1×4-5/8 | 3 | 3606-0114 | 3606-1114 |
| 1-5/16 | 5 | 6-5/8 | 3/8 | 1×4-5/8 | 3 | 3606-0116 | 3606-1116 |
| 1-3/8 | 5 | 6-5/8 | 3/8 | 1×4-5/8 | 3 | 3606-0118 | 3606-1118 |
| 1-7/16 | 5 | 7-7/8 | 3/8 | 1-1/4×5-7/8 | 4 | 3606-0120 | 3606-1120 |
| 1-1/2 | 5 | 7-7/8 | 3/8 | 1-1/4×5-7/8 | 4 | 3606-0122 | 3606-1122 |
| 1-9/16 | 5 | 8-1/8 | 7/16 | 1-1/4×5-7/8 | 4 | 3606-0124 | 3606-1124 |
| 1-5/8 | 5 | 8-1/8 | 7/16 | 1-1/4×5-7/8 | 4 | 3606-0126 | 3606-1126 |
| 1-11/16 | 5 | 8-1/8 | 7/16 | 1-1/4×5-7/8 | 4 | 3606-0128 | 3606-1128 |
| 1-3/4 | 5 | 8-1/8 | 7/16 | 1-1/4×5-7/8 | 4 | 3606-0130 | 3606-1130 |
| 1-13/16 | 5 | 8-1/8 | 7/16 | 1-1/2×5-7/8 | 4 | 3606-0132 | 3606-1132 |
| 1-7/8 | 5 | 8-1/8 | 7/16 | 1-1/2×5-7/8 | 4 | 3606-0134 | 3606-1134 |
| 1-15/16 | 5 | 8-1/8 | 7/16 | 1-1/2×5-7/8 | 4 | 3606-0136 | 3606-1136 |
| 2 | 5 | 8-3/8 | 1/2 | 1-1/2×5-7/8 | 4 | 3606-0138 | 3606-1138 |
| 2-1/16 | 5 | 8-3/8 | 1/2 | - | 5 | | 3606-1140 |
| 2-1/8 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1142 |
| 2-3/16 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1144 |
| 2-1/4 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1146 |
| 2-5/16 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1148 |
| 2-3/8 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1150 |
| 2-7/16 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1152 |
| 2-1/2 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1154 |
| 2-9/16 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1156 |
| 2-5/8 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1158 |
| 2-3/4 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1160 |
| 2-7/8 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1162 |
| 3 | 5 | 9-7/8 | 1/2 | - | 5 | | 3606-1164 |

Pilot For Interchangeable Pilot Counterbore

导向柱



| PILOT SIZE | SHANK SIZE | | | | | | | | |
|------------|------------------|------------------|------------------|------------------|------------------|------------|-----------|-----------|-----------|
| | 3/32 | 1/8 | 5/32 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 |
| 1/8 | 3610-0002* | 3610-0020 | | | | | | | |
| 5/32 | 3610-0004* | 3610-0022 | 3610-0048 | | | | | | |
| 3/16 | 3610-0006 | 3610-0024 | 3610-0050* | 3610-0071 | | | | | |
| 7/32 | 3610-0008* | 3610-0026 | 3610-0052* | 3610-0072 | 3610-0114 | | | | |
| 1/4 | 3610-0010* | 3610-0028 | 3610-0054* | 3610-0074* | 3610-0116 | | | | |
| 9/32 | 3610-0012 | 3610-0030 | 3610-0056* | 3610-0076 | 3610-0118 | | | | |
| 5/16 | 3610-0014 | 3610-0032 | 3610-0058* | 3610-0078* | 3610-0120* | | | | |
| 11/32 | 3610-0016 | 3610-0034 | 3610-0060 | 3610-0080 | 3610-0122 | | | | |
| 23/64 | 3610-0017 | 3610-0035 | 3610-0061 | 3610-0081 | 3610-0123 | | | | |
| 3/8 | 3610-0018 | 3610-0036 | 3610-0062 | 3610-0082* | 3610-0124* | 3610-0156* | | | |
| 13/32 | | 3610-0038 | 3610-0064 | 3610-0084 | 3610-0126 | 3610-0158 | | | |
| 7/16 | | 3610-0040 | 3610-0066 | 3610-0086* | 3610-0128* | 3610-0160* | 3610-0200 | 3610-0248 | 3610-0300 |
| 15/32 | | 3610-0042 | 3610-0068 | 3610-0088 | 3610-0130 | 3610-0162 | 3610-0202 | 3610-0250 | 3610-0302 |
| 1/2 | | 3610-0044 | 3610-0070 | 3610-0090* | 3610-0132* | 3610-0164* | 3610-0204 | 3610-0252 | 3610-0304 |
| 17/32 | | 3610-0045 | | | | | | | |
| 9/16 | | 3610-0046 | | 3610-0092 | 3610-0134* | 3610-0166* | 3610-0206 | 3610-0254 | 3610-0306 |
| 19/32 | | | | 3610-0094 | 3610-0136 | 3610-0168 | 3610-0208 | 3610-0256 | 3610-0308 |
| 5/8 | | | | 3610-0096 | 3610-0138* | 3610-0170* | 3610-0210 | 3610-0258 | 3610-0310 |
| 21/32 | | | | 3610-0098 | 3610-0140 | 3610-0172 | 3610-0212 | 3610-0260 | 3610-0312 |
| 11/16 | | | | 3610-0100 | 3610-0142 | 3610-0174 | 3610-0214 | 3610-0262 | 3610-0314 |
| 23/32 | | | | 3610-0102 | 3610-0144 | 3610-0176 | 3610-0216 | 3610-0264 | 3610-0316 |
| 3/4 | | | | 3610-0104 | 3610-0146 | 3610-0178* | 3610-0218 | 3610-0266 | 3610-0318 |
| 25/32 | | | | 3610-0106 | 3610-0148 | 3610-0180 | 3610-0220 | 3610-0268 | 3610-0320 |
| 13/16 | | | | 3610-0108 | 3610-0150 | 3610-0182 | 3610-0222 | 3610-0270 | 3610-0322 |
| 27/32 | | | | 3610-0110 | 3610-0152 | 3610-0184 | 3610-0224 | 3610-0272 | 3610-0324 |
| 7/8 | | | | 3610-0112 | 3610-0154 | 3610-0186 | 3610-0226 | 3610-0274 | 3610-0326 |
| 29/32 | | | | | | 3610-0188 | 3610-0228 | 3610-0276 | 3610-0328 |
| 15/16 | | | | | | 3610-0190 | 3610-0230 | 3610-0278 | 3610-0330 |
| 31/32 | | | | | | 3610-0192 | 3610-0232 | 3610-0280 | 3610-0332 |
| 1 | | | | | | 3610-0194 | 3610-0234 | 3610-0282 | 3610-0334 |
| 1-1/32 | | | | | | | | | |
| 1-1/16 | | | | | | 3610-0196 | 3610-0236 | 3610-0284 | 3610-0336 |
| 1-3/32 | | | | | | | | | |
| 1-1/8 | | | | | | 3610-0198 | 3610-0238 | 3610-0286 | 3610-0338 |
| 1-5/32 | | | | | | | | | |
| 1-3/16 | | | | | | | 3610-0240 | 3610-0288 | 3610-0340 |
| 1-7/32 | | | | | | | | | |
| 1-1/4 | | | | | | | 3610-0242 | 3610-0290 | 3610-0342 |
| 1-5/16 | | | | | | | 3610-0244 | 3610-0292 | 3610-0344 |
| 1-3/8 | | | | | | | 3610-0246 | 3610-0294 | 3610-0346 |
| 1-13/32 | | | | | | | | | |
| 1-7/16 | | | | | | | | 3610-0296 | 3610-0348 |
| 1-1/2 | | | | | | | | 3610-0298 | 3610-0350 |
| 1-9/16 | | | | | | | | | 3610-0352 |
| 1-5/8 | | | | | | | | | 3610-0354 |
| 1-11/16 | | | | | | | | | 3610-0356 |
| 1-3/4 | | | | | | | | | 3610-0358 |
| 1-13/16 | | | | | | | | | 3610-0360 |
| 1-7/8 | | | | | | | | | 3610-0362 |
| 1-15/16 | | | | | | | | | 3610-0364 |
| 2 | | | | | | | | | 3610-0366 |

加粗字体为特殊型定做产品。

Interchangeable Pilot Counterbore Short Series

短系列可换导柱平底铰钻



*Use for enlarging holes for the socket heads of cap screws

*features an oversized solid pilot

- 为圆柱头螺钉等制造的沉孔刀。
- 适用于钢、铸铁、有色金属等材料加工沉孔。
- 低速切削，加适当冷却液进行。

| SIZE | HOLE SIZE | OVERALL LENGTH | RANGE OF PILOT SIZE | ORDER # | Tin ORDER # |
|--------|-----------|----------------|---------------------|-----------|-------------|
| 1/2 | 3/16 | 4-5/16 | 1/4-7/16 | 3607-0002 | 3607-1002 |
| 17/32 | 3/16 | 4-5/16 | 1/4-15/32 | 3607-0004 | 3607-1004 |
| 9/16 | 3/16 | 4-5/16 | 1/4-1/2 | 3607-0006 | 3607-1006 |
| 19/32 | 3/16 | 5-1/8 | 1/4-17/32 | 3607-0008 | 3607-1008 |
| 5/8 | 3/16 | 5-1/8 | 1/4-9/16 | 3607-0010 | 3607-1010 |
| 21/32 | 3/16 | 5-1/8 | 1/4-19/32 | 3607-0012 | 3607-1012 |
| 11/16 | 3/16 | 5-1/8 | 1/4-5/8 | 3607-0014 | 3607-1014 |
| 23/32 | 1/4 | 5-3/8 | 5/16-21/32 | 3607-0016 | 3607-1016 |
| 3/4 | 1/4 | 5-3/8 | 5/16-11/16 | 3607-0018 | 3607-1018 |
| 25/32 | 1/4 | 5-3/8 | 5/16-23/32 | 3607-0020 | 3607-1020 |
| 13/16 | 1/4 | 5-3/8 | 5/16-3/4 | 3607-0022 | 3607-1022 |
| 27/32 | 1/4 | 5-3/8 | 5/16-25/32 | 3607-0024 | 3607-1024 |
| 7/8 | 1/4 | 5-3/8 | 5/16-13/16 | 3607-0026 | 3607-1026 |
| 15/16 | 1/4 | 6-3/8 | 5/16-7/8 | 3607-0028 | 3607-1028 |
| 1 | 5/16 | 6-3/8 | 3/8-15/16 | 3607-0030 | 3607-1030 |
| 1-1/16 | 5/16 | 6-3/8 | 3/8-1 | 3607-0032 | 3607-1032 |
| 1-1/8 | 5/16 | 6-3/8 | 3/8-1 | 3607-0034 | 3607-1034 |
| 1-3/16 | 5/16 | 6-3/8 | 3/8-1-1/8 | 3607-0036 | 3607-1036 |
| 1-1/4 | 3/8 | 6-5/8 | 7/16-1-3/16 | 3607-0038 | 3607-1038 |
| 1-5/16 | 3/8 | 6-5/8 | 7/16-1-1/4 | 3607-0040 | 3607-1040 |
| 1-3/8 | 3/8 | 6-5/8 | 7/16-1-5/16 | 3607-0042 | 3607-1042 |
| 1-7/16 | 3/8 | 7-7/8 | 7/16-1-3/8 | 3607-0044 | 3607-1044 |
| 1-1/2 | 3/8 | 7-7/8 | 7/16-1-7/16 | 3607-0046 | 3607-1046 |
| 1-5/8 | 7/16 | 8-1/8 | 1/2-1-9/16 | 3607-0048 | 3607-1048 |
| 1-7/8 | 7/16 | 8-1/8 | 1/2-1-11/16 | 3607-0050 | 3607-1050 |
| 2 | 1/2 | 8-3/8 | 9/16-15/16 | 3607-0054 | 3607-1054 |
| 2-1/8 | 1/2 | 9-7/8 | 9/16-2-1/16 | 3607-0056 | 3607-1056 |
| 2-1/4 | 1/2 | 9-7/8 | 9/16-2-3/16 | 3607-0058 | 3607-1058 |
| 2-1/2 | 1/2 | 9-7/8 | 9/16-2-7/16 | 3607-0060 | 3607-1060 |
| 2-3/4 | 1/2 | 9-7/8 | 9/16-2-11/16 | 3607-0062 | 3607-1062 |
| 3 | 1/2 | 9-7/8 | 9/16-2-15/16 | 3607-0064 | 3607-1064 |

Interchangeable Pilot Counterbore Short Series

短系列可换导柱平底铰钻



| SIZE | HOLE SIZE | FLUTE LENGTH | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|-----------|--------------|----------------|---------------------|----------------------|
| 7.0 | 4 | 19 | 41 | 3614-0070 | 3614-1070 |
| 7.5 | 4 | 19 | 41 | 3614-0075 | 3614-1075 |
| 8.0 | 4 | 19 | 41 | 3614-0080 | 3614-1080 |
| 8.5 | 4 | 19 | 41 | 3614-0085 | 3614-1085 |
| 9.0 | 4 | 19 | 41 | 3614-0090 | 3614-1090 |
| 9.5 | 4 | 19 | 41 | 3614-0095 | 3614-1095 |
| 10.0 | 4 | 19 | 41 | 3614-0100 | 3614-1100 |
| 10.5 | 4 | 19 | 41 | 3614-0105 | 3614-1105 |
| 11.0 | 4 | 19 | 41 | 3614-0110 | 3614-1110 |
| 11.5 | 4 | 19 | 41 | 3614-0115 | 3614-1115 |
| 12.0 | 4 | 19 | 41 | 3614-0120 | 3614-1120 |
| 12.5 | 4 | 19 | 41 | 3614-0125 | 3614-1125 |
| 13.0 | 4 | 19 | 41 | 3614-0130 | 3614-1130 |
| 13.5 | 4 | 19 | 41 | 3614-0135 | 3614-1135 |
| 14.0 | 4 | 19 | 41 | 3614-0140 | 3614-1140 |
| 14.5 | 4 | 19 | 41 | 3614-0145 | 3614-1145 |
| 15.0 | 4 | 19 | 41 | 3614-0150 | 3614-1150 |
| 15.5 | 4 | 19 | 41 | 3614-0155 | 3614-1155 |
| 16.0 | 4 | 19 | 41 | 3614-0160 | 3614-1160 |
| 16.5 | 4 | 19 | 41 | 3614-0165 | 3614-1165 |
| 14.0 | 6 | 22 | 49 | 3614-0141 | 3614-1141 |
| 14.5 | 6 | 22 | 49 | 3614-0146 | 3614-1146 |
| 15.0 | 6 | 22 | 49 | 3614-0151 | 3614-1151 |
| 15.5 | 6 | 22 | 49 | 3614-0156 | 3614-1156 |
| 16.0 | 6 | 22 | 49 | 3614-0161 | 3614-1161 |
| 16.5 | 6 | 22 | 49 | 3614-0166 | 3614-1166 |
| 17.0 | 6 | 22 | 49 | 3614-0170 | 3614-1170 |
| 17.5 | 6 | 22 | 49 | 3614-0175 | 3614-1175 |
| 18.0 | 6 | 22 | 49 | 3614-0180 | 3614-1180 |
| 18.5 | 6 | 22 | 49 | 3614-0185 | 3614-1185 |
| 19.0 | 6 | 22 | 49 | 3614-0190 | 3614-1190 |
| 19.5 | 6 | 22 | 49 | 3614-0195 | 3614-1195 |
| 20.0 | 6 | 22 | 49 | 3614-0200 | 3614-1200 |
| 20.5 | 6 | 22 | 49 | 3614-0205 | 3614-1205 |
| 21.0 | 6 | 22 | 49 | 3614-0210 | 3614-1210 |
| 21.5 | 6 | 22 | 49 | 3614-0215 | 3614-1215 |
| 22.0 | 6 | 22 | 49 | 3614-0220 | 3614-1220 |
| 22.5 | 6 | 22 | 49 | 3614-0225 | 3614-1225 |
| 23.0 | 6 | 22 | 49 | 3614-0230 | 3614-1230 |
| 23.5 | 6 | 22 | 49 | 3614-0235 | 3614-1235 |
| 24.0 | 6 | 22 | 49 | 3614-0240 | 3614-1240 |
| 24.5 | 6 | 22 | 49 | 3614-0245 | 3614-1245 |
| 25.0 | 6 | 22 | 49 | 3614-0250 | 3614-1250 |
| 25.5 | 6 | 22 | 49 | 3614-0255 | 3614-1255 |
| 26.0 | 6 | 22 | 49 | 3614-0260 | 3614-1260 |
| 26.5 | 6 | 22 | 49 | 3614-0265 | 3614-1265 |
| 27.0 | 6 | 22 | 49 | 3614-0270 | 3614-1270 |
| 27.5 | 6 | 22 | 49 | 3614-0275 | 3614-1275 |
| 24.0 | 10 | 27 | 61 | 3614-0241 | 3614-1241 |
| 24.5 | 10 | 27 | 61 | 3614-0246 | 3614-1246 |
| 25.0 | 10 | 27 | 61 | 3614-0251 | 3614-1251 |

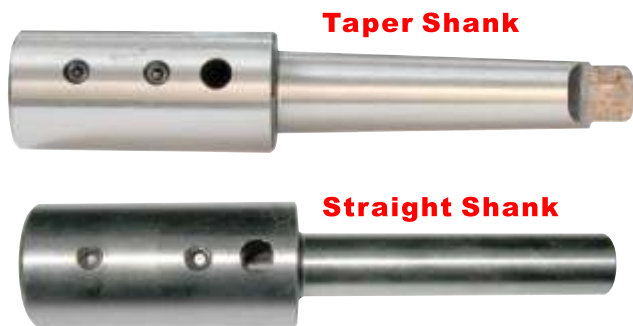
| SIZE | HOLE SIZE | FLUTE LENGTH | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|-----------|--------------|----------------|---------------------|----------------------|
| 25.5 | 10 | 27 | 61 | 3614-0256 | 3614-1256 |
| 26.0 | 10 | 27 | 61 | 3614-0261 | 3614-1261 |
| 26.5 | 10 | 27 | 61 | 3614-0266 | 3614-1266 |
| 27.0 | 10 | 27 | 61 | 3614-0271 | 3614-1271 |
| 27.5 | 10 | 27 | 61 | 3614-0276 | 3614-1276 |
| 28.0 | 10 | 27 | 61 | 3614-0280 | 3614-1280 |
| 28.5 | 10 | 27 | 61 | 3614-0285 | 3614-1285 |
| 29.0 | 10 | 27 | 61 | 3614-0290 | 3614-1290 |
| 29.5 | 10 | 27 | 61 | 3614-0295 | 3614-1295 |
| 30.0 | 10 | 27 | 61 | 3614-0300 | 3614-1300 |
| 30.5 | 10 | 27 | 61 | 3614-0305 | 3614-1305 |
| 31.0 | 10 | 27 | 61 | 3614-0310 | 3614-1310 |
| 32.0 | 10 | 27 | 61 | 3614-0320 | 3614-1320 |
| 33.0 | 10 | 27 | 61 | 3614-0330 | 3614-1330 |
| 34.0 | 10 | 27 | 61 | 3614-0340 | 3614-1340 |
| 35.0 | 10 | 27 | 61 | 3614-0350 | 3614-1350 |
| 36.0 | 10 | 27 | 61 | 3614-0360 | 3614-1360 |
| 37.0 | 10 | 27 | 61 | 3614-0370 | 3614-1370 |
| 38.0 | 10 | 27 | 61 | 3614-0380 | 3614-1380 |
| 39.0 | 10 | 27 | 61 | 3614-0390 | 3614-1390 |
| 40.0 | 10 | 27 | 61 | 3614-0400 | 3614-1400 |
| 41.0 | 10 | 27 | 61 | 3614-0410 | 3614-1410 |
| 42.0 | 10 | 27 | 61 | 3614-0420 | 3614-1420 |
| 43.0 | 10 | 27 | 61 | 3614-0430 | 3614-1430 |
| 44.0 | 10 | 27 | 61 | 3614-0440 | 3614-1440 |
| 45.0 | 10 | 27 | 61 | 3614-0450 | 3614-1450 |
| 46.0 | 10 | 27 | 61 | 3614-0460 | 3614-1460 |
| 47.0 | 10 | 27 | 61 | 3614-0470 | 3614-1470 |
| 48.0 | 10 | 27 | 61 | 3614-0480 | 3614-1480 |
| 49.0 | 10 | 27 | 61 | 3614-0490 | 3614-1490 |
| 50.0 | 10 | 27 | 61 | 3614-0500 | 3614-1500 |
| 51.0 | 10 | 27 | 61 | 3614-0510 | 3614-1510 |
| 52.0 | 10 | 27 | 61 | 3614-0520 | 3614-1520 |
| 53.0 | 10 | 27 | 61 | 3614-0530 | 3614-1530 |
| 54.0 | 10 | 27 | 61 | 3614-0540 | 3614-1540 |
| 55.0 | 10 | 27 | 61 | 3614-0550 | 3614-1550 |
| 56.0 | 10 | 27 | 61 | 3614-0560 | 3614-1560 |
| 57.0 | 10 | 27 | 61 | 3614-0570 | 3614-1570 |
| 58.0 | 10 | 27 | 61 | 3614-0580 | 3614-1580 |
| 60.0 | 10 | 27 | 61 | 3614-0600 | 3614-1600 |
| 62.0 | 10 | 27 | 61 | 3614-0620 | 3614-1620 |
| 64.0 | 10 | 27 | 61 | 3614-0640 | 3614-1640 |
| 65.0 | 10 | 27 | 61 | 3614-0650 | 3614-1650 |
| 66.0 | 10 | 27 | 61 | 3614-0660 | 3614-1660 |

Interchangeable pilot counterbores Shank Holder

*For interchangeable pilots counterbores Short Series

*Straight shank & Taper shank Holder.

- 专为短系列可换导柱平底铤钻设计连接柄。
- 分直柄和锥柄两种形式，适合不同的设备使用。



| SHANK Size | OVERALL LENGTH | HOLE DIA | ORDER No. |
|------------|----------------|----------|-----------|
| Φ10x50 | 82 | 10 | 3616-0010 |
| Φ12x65 | 120 | 14 | 3616-0012 |
| MT1 | 111 | 10 | 3616-0111 |
| MT2 | 135 | 14 | 3616-0120 |
| MT2 | 155 | 22 | 3616-0121 |
| MT3 | 174 | 22 | 3616-0130 |
| 3/8 | 3-5/8 | 7/16 | 3622-0380 |

Interchangeable Pilot Long Series

长系列导向柱



*For interchangeable pilots counterbores Short Series

• 专为长系列可换导柱平底铰钻设计导向柱

| SIZE | SHANK DIA | PILOT LENGTH | OVERALL LENGTH | ORDER No. | SIZE | SHANK DIA | PILOT LENGTH | OVERALL LENGTH | ORDER No. |
|------|-----------|--------------|----------------|-----------|------|-----------|--------------|----------------|-----------|
| 4.0 | 4 | 9 | 59 | 3615-0040 | 16.5 | 6 | 15 | 79 | 3615-0165 |
| 4.5 | 4 | 9 | 59 | 3615-0045 | 17.0 | 6 | 15 | 79 | 3615-0170 |
| 5.0 | 4 | 9 | 59 | 3615-0050 | 17.5 | 6 | 15 | 79 | 3615-0175 |
| 5.5 | 4 | 9 | 59 | 3615-0055 | 18.0 | 6 | 15 | 79 | 3615-0180 |
| 6.0 | 4 | 9 | 59 | 3615-0060 | 10.0 | 10 | 18 | 105 | 3615-0102 |
| 6.5 | 4 | 9 | 59 | 3615-0065 | 10.5 | 10 | 18 | 105 | 3615-0107 |
| 7.0 | 4 | 9 | 59 | 3615-0070 | 11.0 | 10 | 18 | 105 | 3615-0112 |
| 7.5 | 4 | 9 | 59 | 3615-0075 | 11.5 | 10 | 18 | 105 | 3615-0117 |
| 8.0 | 4 | 9 | 59 | 3615-0080 | 12.0 | 10 | 18 | 105 | 3615-0121 |
| 8.5 | 4 | 9 | 59 | 3615-0085 | 12.5 | 10 | 18 | 105 | 3615-0126 |
| 9.0 | 4 | 9 | 59 | 3615-0090 | 13.0 | 10 | 18 | 105 | 3615-0131 |
| 9.5 | 4 | 9 | 59 | 3615-0095 | 13.5 | 10 | 18 | 105 | 3615-0136 |
| 10.0 | 4 | 9 | 59 | 3615-0100 | 14.0 | 10 | 18 | 105 | 3615-0141 |
| 10.5 | 4 | 9 | 59 | 3615-0105 | 14.5 | 10 | 18 | 105 | 3615-0146 |
| 11.0 | 4 | 9 | 59 | 3615-0110 | 15.0 | 10 | 18 | 105 | 3615-0151 |
| 11.5 | 4 | 9 | 59 | 3615-0115 | 16.0 | 10 | 18 | 105 | 3615-0156 |
| 7.0 | 6 | 15 | 79 | 3615-0071 | 17.0 | 10 | 18 | 105 | 3615-0171 |
| 7.5 | 6 | 15 | 79 | 3615-0076 | 18.0 | 10 | 18 | 105 | 3615-0181 |
| 8.0 | 6 | 15 | 79 | 3615-0081 | 19.0 | 10 | 18 | 105 | 3615-0190 |
| 8.5 | 6 | 15 | 79 | 3615-0086 | 20.0 | 10 | 18 | 105 | 3615-0200 |
| 9.0 | 6 | 15 | 79 | 3615-0091 | 21.0 | 10 | 18 | 105 | 3615-0210 |
| 9.5 | 6 | 15 | 79 | 3615-0096 | 22.0 | 10 | 18 | 105 | 3615-0220 |
| 10.0 | 6 | 15 | 79 | 3615-0101 | 23.0 | 10 | 18 | 105 | 3615-0230 |
| 10.5 | 6 | 15 | 79 | 3615-0106 | 24.0 | 10 | 18 | 105 | 3615-0240 |
| 11.0 | 6 | 15 | 79 | 3615-0111 | 25.0 | 10 | 18 | 105 | 3615-0250 |
| 11.5 | 6 | 15 | 79 | 3615-0116 | 26.0 | 10 | 18 | 105 | 3615-0260 |
| 12.0 | 6 | 15 | 79 | 3615-0120 | 27.0 | 10 | 18 | 105 | 3615-0270 |
| 12.5 | 6 | 15 | 79 | 3615-0125 | 28.0 | 10 | 18 | 105 | 3615-0280 |
| 13.0 | 6 | 15 | 79 | 3615-0130 | 29.0 | 10 | 18 | 105 | 3615-0290 |
| 13.5 | 6 | 15 | 79 | 3615-0135 | 30.0 | 10 | 18 | 105 | 3615-0300 |
| 14.0 | 6 | 15 | 79 | 3615-0140 | 33.0 | 10 | 18 | 105 | 3615-0330 |
| 14.5 | 6 | 15 | 79 | 3615-0145 | 35.0 | 10 | 18 | 105 | 3615-0350 |
| 15.0 | 6 | 15 | 79 | 3615-0150 | 38.0 | 10 | 18 | 105 | 3615-0380 |
| 15.5 | 6 | 15 | 79 | 3615-0155 | 40.0 | 10 | 18 | 105 | 3615-0400 |
| 16.0 | 6 | 15 | 79 | 3615-0160 | | | | | |

| SIZE | SHANK DIA | PILOT LENGTH | OVERALL LENGTH | ORDER No. | SIZE | SHANK DIA | PILOT LENGTH | OVERALL LENGTH | ORDER No. |
|-------|-----------|--------------|----------------|-----------|-------|-----------|--------------|----------------|-----------|
| .187 | 5/32 | 3/8 | 2-1/4 | 3621-0020 | 5/16 | 5/32 | 3/8 | 2-1/4 | 3621-0034 |
| .204 | 5/32 | 3/8 | 2-1/4 | 3621-0022 | 21/64 | 5/32 | 3/8 | 2-1/4 | 3621-0036 |
| .213 | 5/32 | 3/8 | 2-1/4 | 3621-0024 | 11/32 | 5/32 | 3/8 | 2-1/4 | 3621-0038 |
| .229 | 5/32 | 3/8 | 2-1/4 | 3621-0026 | 3/8 | 5/32 | 3/8 | 2-1/4 | 3621-0040 |
| 1/4 | 5/32 | 3/8 | 2-1/4 | 3621-0028 | 25/64 | 5/32 | 3/8 | 2-1/4 | 3621-0042 |
| 17/16 | 5/32 | 3/8 | 2-1/4 | 3621-0030 | 13/32 | 5/32 | 3/8 | 2-1/4 | 3621-0044 |
| 9/32 | 5/32 | 3/8 | 2-1/4 | 3621-0032 | 7/16 | 5/32 | 3/8 | 2-1/4 | 3621-0046 |

Hss 4Flute Interchangeable Pilot Aircraft Counterbore

4刃长柄航空平底铰钻



*Long Series-1/2 or Smaller Shank
*Pilots are not included.

• 长柄系列，柄径1/2或者小于1/2。
• 导柱不包括在内。

| SIZE | SHANK DIA | HOLE SIZE | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. | SIZE | SHANK DIA | HOLE SIZE | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|-----------|-----------|----------------|---------------------|----------------------|--------|-----------|-----------|----------------|---------------------|----------------------|
| 3/16 | 7/32 | 3/32 | 4 | 3608-0316 | 3608-1316 | 11/16 | 1/2 | 3/16 | 5-3/8 | 3608-0111 | 3608-1111 |
| 7/32 | 7/32 | 3/32 | 4 | 3608-0732 | 3608-1732 | 23/32 | 1/2 | 3/16 | 5-3/8 | 3608-0233 | 3608-1233 |
| 1/4 | 15/64 | 3/32 | 4 | 3608-0140 | 3608-1140 | 3/4 | 1/2 | 3/16 | 5-3/8 | 3608-0340 | 3608-1340 |
| 9/32 | 17/64 | 3/32 | 4 | 3608-0932 | 3608-1932 | 25/32 | 1/2 | 3/16 | 5-3/8 | 3608-0253 | 3608-1253 |
| 5/16 | 19/64 | 3/32 | 4 | 3608-0516 | 3608-1516 | 13/16 | 1/2 | 3/16 | 5-3/8 | 3608-0131 | 3608-1131 |
| 11/32 | 5/16 | 3/32 | 4 | 3608-0113 | 3608-1113 | 7/8 | 1/2 | 3/16 | 5-1/8 | 3608-0780 | 3608-1780 |
| 3/8 | 5/16 | 3/32 | 4 | 3608-0380 | 3608-1380 | 15/16 | 1/2 | 3/16 | 5-3/8 | 3608-0151 | 3608-1151 |
| 13/32 | 3/8 | 1/8 | 4 | 3608-0133 | 3608-1133 | 1 | 1/2 | 3/16 | 5-3/8 | 3608-0200 | 3608-1200 |
| 7/16 | 3/8 | 1/8 | 4 | 3608-0716 | 3608-1716 | 1-1/16 | 1/2 | 3/16 | 5-1/2 | 3608-0216 | 3608-1216 |
| 15/32 | 7/16 | 1/8 | 4-1/4 | 3608-0153 | 3608-1153 | 1-1/8 | 1/2 | 3/16 | 5-1/2 | 3608-0218 | 3608-1218 |
| 1/2 | 7/16 | 1/8 | 4-1/4 | 3608-0120 | 3608-1120 | 1-3/16 | 1/2 | 3/16 | 5-1/2 | 3608-0236 | 3608-1236 |
| 17/32 | 1/2 | 1/8 | 4-1/4 | 3608-0173 | 3608-1173 | 1-1/4 | 1/2 | 1/4 | 5-1/2 | 3608-0214 | 3608-1214 |
| 9/16 | 1/2 | 1/8 | 4-1/4 | 3608-0916 | 3608-1916 | 1-5/16 | 1/2 | 1/4 | 5-1/2 | 3608-0251 | 3608-1251 |
| 19/32 | 1/2 | 1/8 | 4-1/4 | 3608-0193 | 3608-1193 | 1-3/8 | 1/2 | 1/4 | 5-1/2 | 3608-0238 | 3608-1238 |
| 5/8 | 1/2 | 1/8 | 4-1/4 | 3608-0580 | 3608-1580 | 1-7/16 | 1/2 | 1/4 | 5-1/2 | 3608-0271 | 3608-1271 |
| 21/32 | 1/2 | 3/16 | 5-3/8 | 3608-0213 | 3608-1213 | 1-1/2 | 1/2 | 1/4 | 5-1/2 | 3608-0212 | 3608-1212 |

Hss 4Flute Interchangeable Pilot Aircraft Counterbore

4刃短柄航空平底铰钻



* Can be used in 1/4 electric or pneumatic drills especially in aircraft work.

*1/4 Straight Shank.

• 短柄系列，柄径1/4。
• 导柱不包括在内。

| SIZE | HOLE SIZE | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. | SIZE | HOLE SIZE | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|-----------|----------------|---------------------|----------------------|--------|-----------|----------------|---------------------|----------------------|
| 1/4 | 3/32 | 2-3/8 | 3609-0140 | 3609-1140 | 23/32 | 3/16 | 3-1/8 | 3609-0233 | 3608-1233 |
| 9/32 | 3/32 | 2-3/8 | 3609-0932 | 3609-1932 | 3/4 | 3/16 | 3-1/8 | 3609-0340 | 3608-1340 |
| 5/16 | 3/32 | 2-3/8 | 3609-0516 | 3609-1516 | 25/32 | 3/16 | 3-1/8 | 3609-0253 | 3608-1253 |
| 11/32 | 3/32 | 2-3/8 | 3609-0113 | 3609-1113 | 13/16 | 3/16 | 3-1/8 | 3609-0131 | 3608-1131 |
| 3/8 | 3/32 | 2-3/8 | 3609-0380 | 3609-1380 | 27/32 | 3/16 | 3-1/8 | 3609-0273 | 3608-1273 |
| 13/32 | 1/8 | 2-13/16 | 3609-0133 | 3609-1133 | 7/8 | 3/16 | 3-1/8 | 3609-0780 | 3608-1780 |
| 7/16 | 1/8 | 2-13/16 | 3609-0716 | 3609-1716 | 15/16 | 3/16 | 3-1/8 | 3609-0151 | 3608-1151 |
| 15/32 | 1/8 | 2-13/16 | 3609-0153 | 3609-1153 | 31/32 | 3/16 | 3-1/8 | 3609-0313 | 3608-1313 |
| 1/2 | 1/8 | 2-13/16 | 3609-0120 | 3609-1120 | 1 | 3/16 | 3-1/8 | 3609-0200 | 3608-1200 |
| 17/32 | 1/8 | 2-13/16 | 3609-0173 | 3609-1173 | 1-1/16 | 3/16 | 4 | 3609-0216 | 3608-1216 |
| 9/16 | 1/8 | 2-13/16 | 3609-0916 | 3609-1916 | 1-1/8 | 3/16 | 4 | 3609-0218 | 3608-1218 |
| 19/32 | 1/8 | 2-13/16 | 3609-0193 | 3609-1193 | 1-1/4 | 3/16 | 4 | 3609-0214 | 3608-1214 |
| 5/8 | 1/8 | 2-13/16 | 3609-0580 | 3609-1580 | 1-3/8 | 3/16 | 4 | 3609-0238 | 3608-1238 |
| 21/32 | 3/16 | 3-1/8 | 3609-0213 | 3609-1213 | 1-1/2 | 3/16 | 4 | 3609-0212 | 3608-1212 |
| 11/16 | 3/16 | 3-1/8 | 3609-0111 | 3608-1111 | | | | | |

Interchangeable Pilot Sets

套装可换导柱平底铰钻



21pcs/set Included one each of following:

14Pcs Pilots: 4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5mm
 6Pcs Counterbore : 8.5,9.5,10.5,11.5,13.5,16.5mm
 1 Pcs Straight Shank or Taper Holder :



ORDER No. 3617-0121 (Straight Shank)
 ORDER No. 3617-0221 (MT1 Shank)

22pcs/set Included one each of following:

14Pcs Pilots: 12,13,14,15,16,17,18,19,20,21,22,23,24,25mm
 7Pcs Counterbore : 26,28,30,32,33,34,36mm
 1 Pcs MT2 or MT3 Taper Shank Holder:



MT2 ORDER No. 3617-0222 (Taper Shank)
 MT3 ORDER No. 3617-0223 (Taper Shank)

39Pcs/Set Inch 3Flute Counterbore

39pcs/set: Include

13Pcs Counterbores 1/4~1
 26Pcs pilots: 1/8, 5/32, 3/16, 1/4 with 3/32 shank
 3/16, 7/32, 1/4, 9/32, 5/16 with 5/32 shank
 1/4, 5/16, 3/8, 7/16, 1/2 with 3/16 shank
 5/16, 3/8, 7/16, 1/2, 9/16, 5/8 with 1/4 shank
 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, with 5/16 shank

Packed in wooden Case

UN-Coated Order No.3606-0391

Tin-Coated Order No.3606-1391

Taper Shank:

UN-Coated Order No.3607-0391

Tin-Coated Order No.3607-1391

21pcs/set Included one each of following:

14Pcs Pilots: 7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,13,14,15mm
 6Pcs Counterbore : 14.5,16.5,18.5,20.5,22.5,24.5mm
 1 Pcs MT2 Taper Shank Holder: 3616-0120



ORDER No. 3617-0421 (Taper Shank)

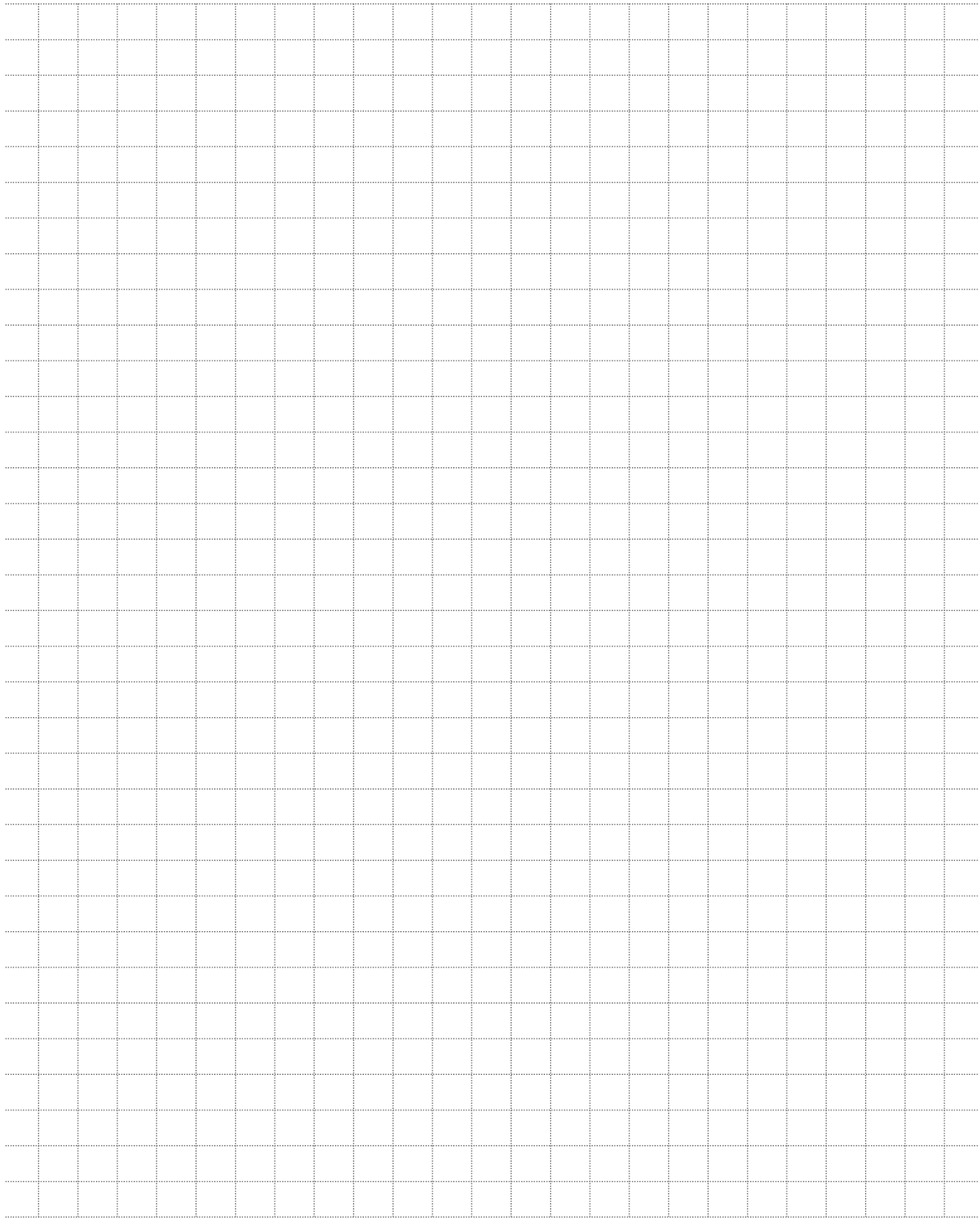
21pcs/set Included one each of following:

14Pcs Pilots: 0.187~7/16
 6Pcs Counterbore : 5/16~5/8
 1 Pcs Straight Shank or Taper Shank Holder

ORDER No. 3620-0121 (Straight Shank)

ORDER No. 3620-0221 (MT2 Shank)

NOTES



Corner Rounding End Mill

内立铣刀



*Relieved form can be resharpened many times without changing form.

*Used in milling rounded corners.

• 适合修整模具边缘, 菱角倒R等

| RADIUS SIZE | SHANK | CUTTER DIA | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------------|-------|------------|----------------|---------------------|----------------------|
| 1/32 | 3/8 | 3/8 | 2-1/2 | 3700-0002 | 3700-1002 |
| 3/64 | 3/8 | 7/16 | 2-1/2 | 3700-0004 | 3700-1004 |
| 1/16 | 3/8 | 7/16 | 2-1/2 | 3700-0006 | 3700-1006 |
| 5/64 | 3/8 | 1/2 | 2-1/2 | 3700-0008 | 3700-1008 |
| 3/32 | 3/8 | 1/2 | 2-1/2 | 3700-0010 | 3700-1010 |
| 3/32 | 1/2 | 1/2 | 2-1/2 | 3700-0012 | 3700-1012 |
| 7/64 | 3/8 | 5/8 | 2-1/2 | 3700-0014 | 3700-1014 |
| 1/8 | 1/2 | 5/8 | 3 | 3700-0016 | 3700-1016 |
| 1/8 | 3/8 | 5/8 | 3 | 3700-0018 | 3700-1018 |
| 1/8 | 3/4 | 5/8 | 3 | 3700-0020 | 3700-1020 |
| 9/64 | 1/2 | 3/4 | 3 | 3700-0022 | 3700-1022 |
| 5/32 | 1/2 | 3/4 | 3 | 3700-0024 | 3700-1024 |
| 11/64 | 1/2 | 3/4 | 3 | 3700-0026 | 3700-1026 |
| 3/16 | 1/2 | 7/8 | 2-15/16 | 3700-0028 | 3700-1028 |
| 3/16 | 1/2 | 7/8 | 3 | 3700-0030 | 3700-1030 |
| 3/16 | 3/4 | 7/8 | 3-1/8 | 3700-0032 | 3700-1032 |
| 13/64 | 1/2 | 7/8 | 3-1/8 | 3700-0034 | 3700-1034 |
| 13/64 | 3/4 | 7/8 | 3-1/8 | 3700-0036 | 3700-1036 |
| 7/32 | 3/4 | 7/8 | 3-1/4 | 3700-0038 | 3700-1038 |
| 7/32 | 1/2 | 7/8 | 3-1/4 | 3700-0040 | 3700-1040 |
| 15/64 | 1/2 | 7/8 | 3-1/8 | 3700-0042 | 3700-1042 |
| 1/4 | 1/2 | 1 | 3 | 3700-0044 | 3700-1044 |
| 1/4 | 1/2 | 1 | 3-1/8 | 3700-0046 | 3700-1046 |
| 1/4 | 3/4 | 1 | 3-1/4 | 3700-0048 | 3700-1048 |
| 17/64 | 1/2 | 1 | 3-1/8 | 3700-0050 | 3700-1050 |
| 17/64 | 3/4 | 1 | 3-1/8 | 3700-0052 | 3700-1052 |
| 9/32 | 1/2 | 1-1/8 | 3-1/4 | 3700-0054 | 3700-1054 |
| 9/32 | 5/8 | 1 | 3 | 3700-0056 | 3700-1056 |
| 9/32 | 3/4 | 1-1/8 | 3-1/4 | 3700-0058 | 3700-1058 |
| 19/64 | 1/2 | 1-1/8 | 3-1/4 | 3700-0060 | 3700-1060 |
| 19/64 | 3/4 | 1-1/8 | 3-1/4 | 3700-0062 | 3700-1062 |
| 5/16 | 1/2 | 1-1/8 | 3-1/4 | 3700-0064 | 3700-1064 |
| 5/16 | 3/4 | 1-1/8 | 3-1/4 | 3700-0066 | 3700-1066 |
| 5/16 | 5/8 | 1-1/8 | 3-1/2 | 3700-0068 | 3700-1068 |
| 5/16 | 7/8 | 1-1/8 | 3-1/2 | 3700-0070 | 3700-1070 |
| 21/64 | 1/2 | 1-1/8 | 3-1/4 | 3700-0072 | 3700-1072 |
| 21/64 | 3/4 | 1-1/8 | 3-1/4 | 3700-0074 | 3700-1074 |
| 11/32 | 1/2 | 1-1/8 | 3-1/2 | 3700-0076 | 3700-1076 |
| 11/32 | 3/4 | 1-1/8 | 3-1/2 | 3700-0078 | 3700-1078 |
| 3/8 | 1/2 | 1-1/4 | 3-1/2 | 3700-0080 | 3700-1080 |
| 3/8 | 3/4 | 1-1/4 | 3-1/2 | 3700-0082 | 3700-1082 |
| 3/8 | 7/8 | 1-1/4 | 3-3/4 | 3700-0084 | 3700-1084 |
| 13/32 | 3/4 | 1-1/4 | 3-1/2 | 3700-0086 | 3700-1086 |
| 7/16 | 3/4 | 1-3/8 | 3-3/4 | 3700-0088 | 3700-1088 |
| 7/16 | 3/4 | 1-3/8 | 4 | 3700-0090 | 3700-1090 |
| 7/16 | 1 | 1-3/8 | 4 | 3700-0092 | 3700-1092 |
| 15/32 | 3/4 | 1-3/8 | 3-3/4 | 3700-0094 | 3700-1094 |
| 1/2 | 1/2 | 1-1/2 | 3-7/8 | 3700-0096 | 3700-1096 |
| 1/2 | 3/4 | 1-1/2 | 3-7/8 | 3700-0098 | 3700-1098 |
| 1/2 | 1 | 1-1/2 | 4-1/8 | 3700-0100 | 3700-1100 |
| 17/32 | 3/4 | 1-1/2 | 3-7/8 | 3700-0102 | 3700-1102 |
| 17/32 | 1 | 1-1/2 | 4-1/8 | 3700-0104 | 3700-1104 |
| 9/16 | 3/4 | 1-5/16 | 4 | 3700-0106 | 3700-1106 |
| 9/16 | 1 | 1-5/16 | 4-1/4 | 3700-0108 | 3700-1108 |

| RADIUS SIZE | SHANK | CUTTER DIA | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------------|-------|------------|----------------|---------------------|----------------------|
| 19/32 | 3/4 | 1-15/16 | 4 | 3700-0110 | 3700-1110 |
| 19/32 | 1 | 1-15/16 | 4-1/4 | 3700-0112 | 3700-1112 |
| 5/8 | 3/4 | 1-15/16 | 4 | 3700-0114 | 3700-1114 |
| 5/8 | 1 | 1-15/16 | 4-1/4 | 3700-0116 | 3700-1116 |
| 21/32 | 3/4 | 1-15/16 | 4 | 3700-0118 | 3700-1118 |
| 21/32 | 1 | 1-15/16 | 4-1/4 | 3700-0120 | 3700-1120 |
| 11/16 | 3/4 | 2-1/4 | 4-1/8 | 3700-0122 | 3700-1122 |
| 11/16 | 1 | 2-1/4 | 4-5/16 | 3700-0124 | 3700-1124 |
| 23/32 | 3/4 | 2-1/4 | 4-1/8 | 3700-0126 | 3700-1126 |
| 23/32 | 1 | 2-1/4 | 4-5/16 | 3700-0128 | 3700-1128 |
| 3/4 | 3/4 | 1-7/8 | 4 | 3700-0130 | 3700-1130 |
| 3/4 | 3/4 | 2-1/4 | 4-1/8 | 3700-0132 | 3700-1132 |
| 3/4 | 1 | 2-1/4 | 4-5/16 | 3700-0134 | 3700-1134 |
| 25/32 | 3/4 | 2-1/4 | 4-1/8 | 3700-0136 | 3700-1136 |
| 25/32 | 1 | 2-1/4 | 4-5/16 | 3700-0138 | 3700-1138 |
| 13/16 | 3/4 | 2-1/4 | 4-1/8 | 3700-0140 | 3700-1140 |
| 13/16 | 1 | 2-1/4 | 4-5/16 | 3700-0142 | 3700-1142 |
| 27/32 | 3/4 | 2-1/2 | 4-1/2 | 3700-0144 | 3700-1144 |
| 27/32 | 1 | 2-1/2 | 4-1/2 | 3700-0146 | 3700-1146 |
| 7/8 | 3/4 | 2-1/2 | 4-1/2 | 3700-0148 | 3700-1148 |
| 7/8 | 1 | 2-1/2 | 4-1/2 | 3700-0150 | 3700-1150 |
| 15/16 | 3/4 | 2-5/8 | 4-1/2 | 3700-0152 | 3700-1152 |
| 15/16 | 1 | 2-5/8 | 4-3/4 | 3700-0154 | 3700-1154 |
| 1 | 3/4 | 2-5/8 | 4-1/2 | 3700-0156 | 3700-1156 |
| 1 | 1 | 2-5/8 | 4-3/4 | 3700-0158 | 3700-1158 |

Corner Rounding End Mill

内R立铣刀



*Relieved form can be resharpened many times without changing form.

*Used in milling rounded corners.

• 适合修整模具边缘, 菱角倒R等

| RADIUS SIZE | SHANK | CUTTER DIA | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------------|-------|------------|----------------|---------------------|----------------------|
| 1.0 | 10 | 8 | 60 | 3702-0010 | 3702-1010 |
| 1.25 | 10 | 8.5 | 60 | 3702-0012 | 3702-1012 |
| 1.5 | 10 | 9 | 60 | 3702-0015 | 3702-1015 |
| 1.6 | 10 | 9.5 | 60 | 3702-0016 | 3702-1016 |
| 2.0 | 10 | 10 | 60 | 3702-0020 | 3702-1020 |
| 2.5 | 10 | 11 | 60 | 3702-0025 | 3702-1025 |
| 3.0 | 12 | 12 | 60 | 3702-0030 | 3702-1030 |
| 3.5 | 12 | 13 | 60 | 3702-0035 | 3702-1035 |
| 4.0 | 12 | 14 | 60 | 3702-0040 | 3702-1040 |
| 4.5 | 12 | 15 | 60 | 3702-0045 | 3702-1045 |
| 5.0 | 12 | 16 | 60 | 3702-0050 | 3702-1050 |
| 6.0 | 16 | 20 | 67 | 3702-0060 | 3702-1060 |
| 7.0 | 16 | 22 | 71 | 3702-0070 | 3702-1070 |
| 8.0 | 16 | 24 | 71 | 3702-0080 | 3702-1080 |
| 9.0 | 25 | 26 | 85 | 3702-0090 | 3702-1090 |
| 10.0 | 25 | 28 | 85 | 3702-0100 | 3702-1100 |
| 11.0 | 25 | 32 | 90 | 3702-0110 | 3702-1110 |
| 12.0 | 25 | 34 | 90 | 3702-0120 | 3702-1120 |
| 13.0 | 25 | 42 | 100 | 3702-0130 | 3702-1130 |
| 14.0 | 25 | 44 | 100 | 3702-0140 | 3702-1140 |
| 15.0 | 25 | 46 | 100 | 3702-0150 | 3702-1150 |
| 16.0 | 25 | 48 | 100 | 3702-0160 | 3702-1160 |
| 18.0 | 25 | 52 | 100 | 3702-0180 | 3702-1180 |
| 20.0 | 25 | 56 | 112 | 3702-0200 | 3702-1200 |

Corner Rounding End Mill

螺纹柄圆端R立铣刀



*Screwed Shank
• 螺纹柄连接方式。

| RADIUS SIZE | SHANK | CUTTER DIA | OVERALL LENGTH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------------|-------|------------|----------------|---------------------|----------------------|
| 1.0 | 10 | 8 | 60 | 3703-0010 | 3703-1010 |
| 1.25 | 10 | 8.5 | 60 | 3703-0012 | 3703-1012 |
| 1.5 | 10 | 9 | 60 | 3703-0015 | 3703-1015 |
| 1.6 | 10 | 9.5 | 60 | 3703-0016 | 3703-1016 |
| 2.0 | 10 | 10 | 60 | 3703-0020 | 3703-1020 |
| 2.5 | 10 | 11 | 60 | 3703-0025 | 3703-1025 |
| 3.0 | 12 | 12 | 60 | 3703-0030 | 3703-1030 |
| 3.5 | 12 | 13 | 60 | 3703-0035 | 3703-1035 |
| 4.0 | 12 | 14 | 60 | 3703-0040 | 3703-1040 |
| 4.5 | 12 | 15 | 60 | 3703-0045 | 3703-1045 |
| 5.0 | 12 | 16 | 60 | 3703-0050 | 3703-1050 |
| 6.0 | 16 | 20 | 67 | 3703-0060 | 3703-1060 |
| 7.0 | 16 | 22 | 71 | 3703-0070 | 3703-1070 |
| 8.0 | 16 | 24 | 71 | 3703-0080 | 3703-1080 |
| 9.0 | 25 | 26 | 85 | 3703-0090 | 3703-1090 |
| 10.0 | 25 | 28 | 85 | 3703-0100 | 3703-1100 |
| 11.0 | 25 | 32 | 90 | 3703-0110 | 3703-1110 |
| 12.0 | 25 | 34 | 90 | 3703-0120 | 3703-1120 |
| 13.0 | 25 | 42 | 100 | 3703-0130 | 3703-1130 |
| 14.0 | 25 | 44 | 100 | 3703-0140 | 3703-1140 |
| 15.0 | 25 | 46 | 100 | 3703-0150 | 3703-1150 |
| 16.0 | 25 | 48 | 100 | 3703-0160 | 3703-1160 |
| 18.0 | 25 | 52 | 100 | 3703-0180 | 3703-1180 |
| 20.0 | 25 | 56 | 112 | 3703-0200 | 3703-1200 |

Corner Rounding End Mill Sets

套装圆端R立铣刀



4Pcs/Set Corner Rounding End Mill

4Pcs Includes:
1/2, 9/16, 5/8, 3/4 with 3/4 Shank

UN-Coated ORDER No.3701-0001
Tin-Coated ORDER No.3701-1001



8Pcs/Set Corner Rounding End Mill

8Pcs Includes:
1/16, 3/32, 1/8 With 3/8 Shank
3/16, 1/4, 5/16, 3/8 With 1/2 Shank

UN-Coated ORDER No.3701-0004
Tin-Coated ORDER No.3701-1004

8Pcs/Set Corner Rounding End Mill

8Pcs Includes:
3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4
With 3/4 Shank

UN-Coated ORDER No.3701-0006
Tin-Coated ORDER No.3701-1006

8Pcs/Set Corner Rounding End Mill

8Pcs Includes:
1, 2mm With 10mm Shank
3, 4, 5mm With 12mm Shank
6, 8, 10mm With 16mm Shank

UN-Coated ORDER No.3702-0006
Tin-Coated ORDER No.3702-1006

8Pcs/Set Corner Rounding End Mill

8Pcs Includes:
2mm With 10mm Shank
3, 4, 5mm With 12mm Shank
6, 8mm With 16mm Shank
10, 12mm With 25mm Shank

UN-Coated ORDER No.3702-0002
Tin-Coated ORDER No.3702-1002

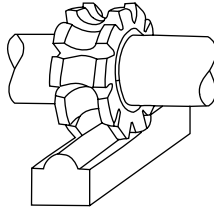
8Pcs/Set Corner Rounding End Mill

8Pcs Includes:
6, 8mm With 16mm Shank
10, 12, 14, 16, 18, 20mm With 25mm Shank

UN-Coated ORDER No.3702-0004
Tin-Coated ORDER No.3702-1004

Convex Milling Cutter

孔式凹半圆铣刀



- * Arbor Type
- * Convex cutter produce a concave half circle and are form relieved.
- * ANSI B94.19-1977
- 孔式结构。
- 英制凹半圆铣刀，符合 ANSI B94.19-1977标准

| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 1/16 | 2-1/4 | 1 | 3711-0002 | 3711-1002 |
| 3/32 | 2-1/4 | 1 | 3711-0004 | 3711-1004 |
| 1/8 | 2 | 7/8 | 3711-0006 | 3711-1006 |
| 1/8 | 2-1/4 | 1 | 3711-0008 | 3711-1008 |
| 5/32 | 2-1/4 | 1 | 3711-0010 | 3711-1010 |
| 3/16 | 2 | 7/8 | 3711-0012 | 3711-1012 |
| 3/16 | 2-1/4 | 1 | 3711-0014 | 3711-1014 |
| 7/32 | 2-1/4 | 1 | 3711-0016 | 3711-1016 |
| 1/4 | 2 | 7/8 | 3711-0018 | 3711-1018 |
| 1/4 | 2-1/2 | 1 | 3711-0020 | 3711-1020 |
| 9/32 | 2-1/2 | 1 | 3711-0022 | 3711-1022 |
| 5/16 | 2-1/4 | 7/8 | 3711-0024 | 3711-1024 |
| 5/16 | 2-3/4 | 1 | 3711-0026 | 3711-1026 |
| 11/32 | 2-3/4 | 1 | 3711-0028 | 3711-1028 |
| 3/8 | 2-1/4 | 7/8 | 3711-0030 | 3711-1030 |
| 3/8 | 2-3/4 | 1 | 3711-0032 | 3711-1032 |
| 13/32 | 2-3/4 | 1 | 3711-0034 | 3711-1034 |
| 7/16 | 2-1/4 | 7/8 | 3711-0036 | 3711-1036 |
| 7/16 | 3 | 1 | 3711-0038 | 3711-1038 |
| 1/2 | 2-1/4 | 7/8 | 3711-0040 | 3711-1040 |
| 1/2 | 3 | 1 | 3711-0042 | 3711-1042 |
| 9/16 | 2-3/4 | 1 | 3711-0044 | 3711-1044 |

| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 9/16 | 3 | 1 | 3711-0046 | 3711-1046 |
| 5/8 | 2-3/4 | 1 | 3711-0048 | 3711-1048 |
| 5/8 | 3-1/2 | 1-1/4 | 3711-0050 | 3711-1050 |
| 11/16 | 3 | 1 | 3711-0052 | 3711-1052 |
| 3/4 | 3 | 1 | 3711-0054 | 3711-1054 |
| 3/4 | 3-3/4 | 1-1/4 | 3711-0056 | 3711-1056 |
| 13/16 | 3-1/4 | 1 | 3711-0058 | 3711-1058 |
| 13/16 | 3-1/4 | 1-1/4 | 3711-0060 | 3711-1060 |
| 7/8 | 3-1/4 | 1 | 3711-0062 | 3711-1062 |
| 7/8 | 4 | 1-1/4 | 3711-0064 | 3711-1064 |
| 15/16 | 3-1/2 | 1 | 3711-0066 | 3711-1066 |
| 1 | 3-1/4 | 1 | 3711-0068 | 3711-1068 |
| 1 | 4-1/4 | 1-1/4 | 3711-0070 | 3711-1070 |
| 1-1/8 | 4 | 1-1/4 | 3711-0072 | 3711-1072 |
| 1-1/4 | 4 | 1-1/4 | 3711-0074 | 3711-1074 |
| 1-3/8 | 4-1/4 | 1-1/4 | 3711-0076 | 3711-1076 |
| 1-1/2 | 4-1/4 | 1-1/4 | 3711-0078 | 3711-1078 |
| 1-5/8 | 5-1/2 | 1-1/4 | 3711-0080 | 3711-1080 |
| 1-3/4 | 5-1/2 | 1-1/4 | 3711-0082 | 3711-1082 |
| 1-7/8 | 6 | 1-1/2 | 3711-0084 | 3711-1084 |
| 2 | 6 | 1-1/2 | 3711-0086 | 3711-1086 |

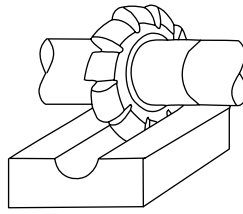
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| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 1.0 | 50 | 16 | 3713-0010 | 3713-1010 |
| 1.25 | 50 | 16 | 3713-0012 | 3713-1012 |
| 1.6 | 50 | 16 | 3713-0016 | 3713-1016 |
| 2.0 | 50 | 16 | 3713-0020 | 3713-1020 |
| 2.5 | 63 | 22 | 3713-0025 | 3713-1025 |
| 3.0 | 63 | 22 | 3713-0030 | 3713-1030 |
| 3.15 | 63 | 22 | 3713-0031 | 3713-1031 |
| 4.0 | 63 | 22 | 3713-0040 | 3713-1040 |
| 5.0 | 63 | 22 | 3713-0050 | 3713-1050 |

| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 6.0 | 80 | 27 | 3713-0060 | 3713-1060 |
| 6.3 | 80 | 27 | 3713-0063 | 3713-1063 |
| 8 | 80 | 27 | 3713-0080 | 3713-1080 |
| 10 | 100 | 32 | 3713-0100 | 3713-1100 |
| 12 | 100 | 32 | 3713-0120 | 3713-1120 |
| 12.5 | 100 | 32 | 3713-0125 | 3713-1125 |
| 16 | 125 | 32 | 3713-0160 | 3713-1160 |
| 20 | 125 | 32 | 3713-0200 | 3713-1200 |

Convex Milling Cutter

孔式凸半圆铣刀



- * Arbor Type
- * Convex cutter produce a concave half circle and are form relieved.
- * ANSI B94.19-1977
- 孔式结构。
- 英制凸半圆铣刀，符合 ANSI B94.19-1977标准

| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 1/16 | 2-1/4 | 1 | 3710-0002 | 3710-1002 |
| 3/32 | 2-1/4 | 1 | 3710-0004 | 3710-1004 |
| 1/8 | 2 | 7/8 | 3710-0006 | 3710-1006 |
| 1/8 | 2-1/4 | 1 | 3710-0008 | 3710-1008 |
| 5/32 | 2-1/4 | 1 | 3710-0010 | 3710-1010 |
| 3/16 | 2 | 7/8 | 3710-0012 | 3710-1012 |
| 3/16 | 2-1/4 | 1 | 3710-0014 | 3710-1014 |
| 7/32 | 2-1/4 | 1 | 3710-0016 | 3710-1016 |
| 1/4 | 2 | 7/8 | 3710-0018 | 3710-1018 |
| 1/4 | 2-1/2 | 1 | 3710-0020 | 3710-1020 |
| 9/32 | 2-1/2 | 1 | 3710-0022 | 3710-1022 |
| 5/16 | 2-1/4 | 7/8 | 3710-0024 | 3710-1024 |
| 5/16 | 2-3/4 | 1 | 3710-0026 | 3710-1026 |
| 11/32 | 2-3/4 | 1 | 3710-0028 | 3710-1028 |
| 3/8 | 2-1/4 | 7/8 | 3710-0030 | 3710-1030 |
| 3/8 | 2-3/4 | 1 | 3710-0032 | 3710-1032 |
| 13/32 | 2-3/4 | 1 | 3710-0034 | 3710-1034 |
| 7/16 | 2-1/4 | 7/8 | 3710-0036 | 3710-1036 |
| 7/16 | 3 | 1 | 3710-0038 | 3710-1038 |
| 1/2 | 2-1/4 | 7/8 | 3710-0040 | 3710-1040 |
| 1/2 | 3 | 1 | 3710-0042 | 3710-1042 |
| 9/16 | 2-3/4 | 1 | 3710-0044 | 3710-1044 |

| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 9/16 | 3 | 1 | 3710-0046 | 3710-1046 |
| 5/8 | 2-3/4 | 1 | 3710-0048 | 3710-1048 |
| 5/8 | 3-1/2 | 1-1/4 | 3710-0050 | 3710-1050 |
| 11/16 | 3 | 1 | 3710-0052 | 3710-1052 |
| 3/4 | 3 | 1 | 3710-0054 | 3710-1054 |
| 3/4 | 3-3/4 | 1-1/4 | 3710-0056 | 3710-1056 |
| 13/16 | 3-1/4 | 1 | 3710-0058 | 3710-1058 |
| 13/16 | 3-1/4 | 1-1/4 | 3710-0060 | 3710-1060 |
| 7/8 | 3-1/4 | 1 | 3710-0062 | 3710-1062 |
| 7/8 | 4 | 1-1/4 | 3710-0064 | 3710-1064 |
| 15/16 | 3-1/2 | 1 | 3710-0066 | 3710-1066 |
| 1 | 3-1/4 | 1 | 3710-0068 | 3710-1068 |
| 1 | 4-1/4 | 1-1/4 | 3710-0070 | 3710-1070 |
| 1-1/8 | 4 | 1-1/4 | 3710-0072 | 3710-1072 |
| 1-1/4 | 4 | 1-1/4 | 3710-0074 | 3710-1074 |
| 1-3/8 | 4-1/4 | 1-1/4 | 3710-0076 | 3710-1076 |
| 1-1/2 | 4-1/4 | 1-1/4 | 3710-0078 | 3710-1078 |
| 1-5/8 | 5-1/2 | 1-1/4 | 3710-0080 | 3710-1080 |
| 1-3/4 | 5-1/2 | 1-1/4 | 3710-0082 | 3710-1082 |
| 1-7/8 | 6 | 1-1/2 | 3710-0084 | 3710-1084 |
| 2 | 6 | 1-1/2 | 3710-0086 | 3710-1086 |

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| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 0.5 | 50 | 16 | — | — |
| 0.8 | 50 | 16 | — | — |
| 1.0 | 50 | 16 | 3712-0010 | 3712-1010 |
| 1.25 | 50 | 16 | 3712-0012 | 3712-1012 |
| 1.6 | 50 | 16 | 3712-0016 | 3712-1016 |
| 2.0 | 50 | 16 | 3712-0020 | 3712-1020 |
| 2.5 | 63 | 22 | 3712-0025 | 3712-1025 |
| 3.0 | 63 | 22 | 3712-0030 | 3712-1030 |
| 3.15 | 63 | 22 | 3712-0031 | 3712-1031 |
| 4.0 | 63 | 22 | 3712-0040 | 3712-1040 |

| RADIUS SIZE | CUTTER DIA | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------------|------------|----------|---------------|------------------|
| 5.0 | 63 | 22 | 3712-0050 | 3712-1050 |
| 6.0 | 80 | 27 | 3712-0060 | 3712-1060 |
| 6.3 | 80 | 27 | 3712-0063 | 3712-1063 |
| 8 | 80 | 27 | 3712-0080 | 3712-1080 |
| 10 | 100 | 32 | 3712-0100 | 3712-1100 |
| 12 | 100 | 32 | 3712-0120 | 3712-1120 |
| 12.5 | 100 | 32 | 3712-0125 | 3712-1125 |
| 16 | 125 | 32 | 3712-0160 | 3712-1160 |
| 20 | 125 | 32 | 3712-0200 | 3712-1200 |

Corner Rounding Milling Cutter

孔式1/4圆弧铣刀

- * Arbor Type.
- * Right Hand And Left Hand.
- * Designed for radius milling on arbor type milling machines.
- * They have form relieved, straight gashed teeth and can be resharpened by grinding the faces without changing the form.
- * ANSI B94.19-1977
- 孔式结构。
- 左手和右手结构。
- 英制1/4圆弧铣刀，符合ANSI B94.19-1977标准



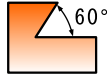
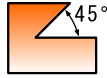
| RADIUS SIZE | CUTTER DIA | FACE WIDTH | HOLE DIA | HSS-Right ORDER No. | HSS-Co Right ORDER No. | HSS-Left ORDER No. | HSS-Co Left ORDER No. |
|-------------|------------|------------|----------|---------------------|------------------------|--------------------|-----------------------|
| 1/8 | 2 | 1/4 | 7/8 | 3714-0010 | 3714-1010 | 3715-0010 | 3715-1010 |
| 1/8 | 2-1/2 | 1/4 | 1 | 3714-0015 | 3714-1015 | 3715-0015 | 3715-1015 |
| 3/16 | 2-1/2 | 5/16 | 1 | 3714-0020 | 3714-1020 | 3715-0020 | 3715-1020 |
| 1/4 | 2-1/4 | 13/32 | 7/8 | 3714-0025 | 3714-1025 | 3715-0025 | 3715-1025 |
| 1/4 | 3 | 13/32 | 1 | 3714-0030 | 3714-1030 | 3715-0030 | 3715-1030 |
| 5/16 | 2-3/4 | 1/2 | 1 | 3714-0035 | 3714-1035 | 3715-0035 | 3715-1035 |
| 5/16 | 3 | 1/2 | 1 | 3714-0040 | 3714-1040 | 3715-0040 | 3715-1040 |
| 3/8 | 3 | 9/16 | 1 | 3714-0045 | 3714-1045 | 3715-0045 | 3715-1045 |
| 3/8 | 3-3/4 | 9/16 | 1-1/4 | 3714-0050 | 3714-1050 | 3715-0050 | 3715-1050 |
| 7/16 | 3-1/4 | 3/4 | 1 | 3714-0055 | 3714-1055 | 3715-0055 | 3715-1055 |
| 1/2 | 3-1/4 | 3/4 | 1 | 3714-0060 | 3714-1060 | 3715-0060 | 3715-1060 |
| 1/2 | 4-1/4 | 3/4 | 1-1/4 | 3714-0065 | 3714-1065 | 3715-0065 | 3715-1065 |
| 9/16 | 3-1/2 | 13/16 | 1 | 3714-0070 | 3714-1070 | 3715-0070 | 3715-1070 |
| 5/8 | 3-1/2 | 15/16 | 1 | 3714-0075 | 3714-1075 | 3715-0075 | 3715-1075 |
| 5/8 | 4-1/4 | 15/16 | 1-1/4 | 3714-0080 | 3714-1080 | 3715-0080 | 3715-1080 |
| 3/4 | 3-3/4 | 1-1/8 | 1 | 3714-0085 | 3714-1085 | 3715-0085 | 3715-1085 |
| 7/8 | 4-1/2 | 1-1/4 | 1-1/4 | 3714-0090 | 3714-1090 | 3715-0090 | 3715-1090 |
| 1 | 4-1/2 | 1-3/8 | 1-1/4 | 3714-0095 | 3714-1095 | 3715-0095 | 3715-1095 |

| RADIUS SIZE | CUTTER DIA | FACE WIDTH | HOLE DIA | HSS-Right ORDER No. | HSS-Co Right ORDER No. | HSS-Left ORDER No. | HSS-Co Left ORDER No. |
|-------------|------------|------------|----------|---------------------|------------------------|--------------------|-----------------------|
| 1.0 | 50 | 3 | 16 | 3716-0010 | 3716-1010 | 3717-0010 | 3717-1010 |
| 1.25 | 50 | 3 | 16 | 3716-0012 | 3716-1012 | 3717-0012 | 3717-1012 |
| 1.6 | 50 | 4 | 16 | 3716-0016 | 3716-1016 | 3717-0016 | 3717-1016 |
| 2.0 | 50 | 4.5 | 16 | 3716-0020 | 3716-1020 | 3717-0020 | 3717-1020 |
| 2.5 | 63 | 5 | 22 | 3716-0025 | 3716-1025 | 3717-0025 | 3717-1025 |
| 3.0 | 63 | 6 | 22 | 3716-0030 | 3716-1030 | 3717-0030 | 3717-1030 |
| 3.15 | 63 | 6 | 22 | 3716-0031 | 3716-1031 | 3717-0031 | 3717-1031 |
| 4.0 | 63 | 8 | 22 | 3716-0040 | 3716-1040 | 3717-0040 | 3717-1040 |
| 5.0 | 63 | 10 | 22 | 3716-0050 | 3716-1050 | 3717-0050 | 3717-1050 |
| 6.0 | 80 | 12 | 27 | 3716-0060 | 3716-1060 | 3717-0060 | 3717-1060 |
| 6.3 | 80 | 12 | 27 | 3716-0063 | 3716-1063 | 3717-0063 | 3717-1063 |
| 8.0 | 80 | 16 | 27 | 3716-0080 | 3716-1080 | 3717-0080 | 3717-1080 |
| 10.0 | 100 | 18 | 32 | 3716-0100 | 3716-1100 | 3717-0100 | 3717-1100 |
| 12.0 | 100 | 20 | 32 | 3716-0120 | 3716-1120 | 3717-0120 | 3717-1120 |
| 12.5 | 100 | 20 | 32 | 3716-0125 | 3716-1125 | 3717-0125 | 3717-1125 |
| 16.0 | 125 | 25 | 32 | 3716-0160 | 3716-1160 | 3717-0160 | 3717-1160 |
| 20.0 | 125 | 30 | 32 | 3716-0200 | 3716-1200 | 3717-0200 | 3717-1200 |

Single Angle Milling Cutters

孔式单角度铣刀

- * Arbor Type
- * Supplied with Corner Radius
- * For cutting dovetails and angles
- * Right Hand and Left Hand 45° & 60°



| 45° | | | | | |
|-------|------------|----------|-------------|-----------------|-----------------|
| SIZE | WIDTH FACE | HOLE DIA | TEETH No.OF | HSS-R ORDER No. | HSS-L ORDER No. |
| 2-1/2 | 1/2 | 7/8 | 18 | 3720-0212 | 3720-1212 |
| 2-3/4 | 1/2 | 1 | 18 | 3720-0234 | 3720-1234 |
| 3 | 1/2 | 1-1/4 | 22 | 3720-0310 | 3720-1310 |
| 3 | 5/8 | 1 | 22 | 3720-0320 | 3720-1320 |
| 3 | 5/8 | 1-1/4 | 22 | 3720-0321 | 3720-1321 |
| 3 | 3/4 | 1 | 22 | 3720-0330 | 3720-1330 |
| 4 | 1/2 | 1 | 26 | 3720-0410 | 3720-1410 |
| 4 | 1/2 | 1-1/4 | 26 | 3720-0411 | 3720-1411 |
| 4 | 3/4 | 1 | 26 | 3720-0420 | 3720-1420 |

| 45° | | | | | |
|------|------------|----------|-------------|-----------------|-----------------|
| SIZE | WIDTH FACE | HOLE DIA | TEETH No.OF | HSS-R ORDER No. | HSS-L ORDER No. |
| 4 | 3/4 | 1-1/4 | 26 | 3720-0421 | 3720-1421 |
| 4 | 1 | 1-1/4 | 26 | 3720-0430 | 3720-1430 |
| 5 | 3/4 | 1-1/4 | 28 | 3720-0510 | 3720-1510 |
| 5 | 1 | 1-1/4 | 28 | 3720-0520 | 3720-1520 |
| 6 | 3/4 | 1-1/4 | 30 | 3720-0610 | 3720-1610 |
| 6 | 1 | 1-1/4 | 30 | 3720-0620 | 3720-1620 |

| 60° | | | | | |
|-------|------------|----------|-------------|-----------------|-----------------|
| SIZE | WIDTH FACE | HOLE DIA | TEETH No.OF | HSS-R ORDER No. | HSS-L ORDER No. |
| 2-1/2 | 1/2 | 7/8 | 18 | 3720-0212 | 3720-1212 |
| 2-3/4 | 1/2 | 1 | 18 | 3720-0234 | 3720-1234 |
| 3 | 1/2 | 1-1/4 | 22 | 3720-0310 | 3720-1310 |
| 3 | 5/8 | 1 | 22 | 3720-0320 | 3720-1320 |
| 3 | 5/8 | 1-1/4 | 22 | 3720-0321 | 3720-1321 |
| 3 | 3/4 | 1 | 22 | 3720-0330 | 3720-1330 |
| 3 | 3/4 | 1-1/4 | 22 | 3720-0410 | 3720-1410 |
| 4 | 1/2 | 1 | 26 | 3720-0411 | 3720-1411 |
| 4 | 1/2 | 1-1/4 | 26 | 3720-0412 | 3720-1412 |

| 60° | | | | | |
|------|------------|----------|-------------|-----------------|-----------------|
| SIZE | WIDTH FACE | HOLE DIA | TEETH No.OF | HSS-R ORDER No. | HSS-L ORDER No. |
| 4 | 3/4 | 1 | 26 | 3720-0420 | 3720-1420 |
| 4 | 3/4 | 1-1/4 | 26 | 3720-0421 | 3720-1421 |
| 4 | 1 | 1-1/4 | 26 | 3720-0430 | 3720-1430 |
| 5 | 3/4 | 1-1/4 | 28 | 3720-0510 | 3720-1510 |
| 5 | 1 | 1-1/4 | 28 | 3720-0520 | 3720-1520 |
| 6 | 3/4 | 1-1/4 | 30 | 3720-0610 | 3720-1610 |
| 6 | 1 | 1-1/4 | 30 | 3720-0620 | 3720-1620 |

DIN 842

| SIZE | WIDTH FACE | HOLE DIA | ANGLE | HSS-R ORDER No. | HSS-L ORDER No. | HSS Co-R ORDER No. | HSS Co-L ORDER No. |
|------|------------|----------|-------|-----------------|-----------------|--------------------|--------------------|
| 32 | 8 | 10 | 45° | 3722-0032 | 3722-1032 | 3722-4032 | 3722-5032 |
| 40 | 10 | 10 | 45° | 3722-0040 | 3722-1040 | 3722-4040 | 3722-5040 |
| 50 | 13 | 13 | 45° | 3722-0050 | 3722-1050 | 3722-4050 | 3722-5050 |
| 63 | 18 | 16 | 45° | 3722-0063 | 3722-1063 | 3722-4063 | 3722-5063 |
| 80 | 22 | 22 | 45° | 3722-0080 | 3722-1080 | 3722-4080 | 3722-5080 |
| 100 | 28 | 27 | 45° | 3722-0100 | 3722-1100 | 3722-4100 | 3722-5100 |
| 125 | 36 | 32 | 45° | 3722-0125 | 3722-1125 | 3722-4125 | 3722-5125 |
| 160 | 45 | 40 | 45° | 3722-0160 | 3722-1160 | 3722-4160 | 3722-5160 |

| SIZE | WIDTH FACE | HOLE DIA | ANGLE | HSS-R ORDER No. | HSS-L ORDER No. | HSS Co-R ORDER No. | HSS Co-L ORDER No. |
|------|------------|----------|-------|-----------------|-----------------|--------------------|--------------------|
| 32 | 10 | 10 | 60° | 3723-0032 | 3723-1032 | 3723-0032 | 3723-1032 |
| 40 | 13 | 10 | 60° | 3723-0040 | 3723-1040 | 3723-0040 | 3723-1040 |
| 50 | 16 | 13 | 60° | 3723-0050 | 3723-1050 | 3723-0050 | 3723-1050 |
| 63 | 20 | 16 | 60° | 3723-0063 | 3723-1063 | 3723-0063 | 3723-1063 |
| 80 | 25 | 22 | 60° | 3723-0080 | 3723-1080 | 3723-0080 | 3723-1080 |
| 100 | 32 | 27 | 60° | 3723-0100 | 3723-1100 | 3723-0100 | 3723-1100 |
| 125 | 40 | 32 | 60° | 3723-0125 | 3723-1125 | 3723-0125 | 3723-1125 |
| 160 | 50 | 40 | 60° | 3723-0160 | 3723-1160 | 3723-0160 | 3723-1160 |

Double Angle Milling Cutter

对称双角度铣刀

- * Arbor Type
- * Import Supplied with Corner Radius
- * 45°, 60°, 90° .

- 孔式结构。
- 尖点圆弧过渡
- 45°, 60°, 90°



| SIZE | WIDTH FACE | HOLE DIA | ANGLE | TEETH PER | ORDER No. |
|-------|------------|----------|-------|-----------|-----------|
| 2-3/4 | 1/2 | 1 | 45° | 18 | 3724-0410 |
| 2-3/4 | 1/2 | 1 | 60° | 18 | 3724-0610 |
| 2-3/4 | 1/2 | 1 | 90° | 18 | 3724-0910 |
| 3 | 5/8 | 1 | 45° | 22 | 3724-0415 |
| 3 | 5/8 | 1 | 60° | 22 | 3724-0615 |
| 3 | 5/8 | 1 | 90° | 22 | 3724-0915 |
| 3 | 3/4 | 1 | 60° | 22 | 3724-0620 |
| 3 | 3/4 | 1 | 90° | 22 | 3724-0920 |
| 4 | 1/2 | 1-1/4 | 45° | 26 | 3724-0425 |
| 4 | 1/2 | 1-1/4 | 60° | 26 | 3724-0625 |
| 4 | 1/2 | 1-1/4 | 90° | 26 | 3724-0925 |
| 4 | 3/4 | 1 | 45° | 26 | 3724-0430 |
| 4 | 3/4 | 1 | 60° | 26 | 3724-0630 |
| 4 | 3/4 | 1 | 90° | 26 | 3724-0930 |
| 4 | 3/4 | 1-1/4 | 45° | 26 | 3724-0435 |
| 4 | 3/4 | 1-1/4 | 60° | 26 | 3724-0635 |
| 4 | 3/4 | 1-1/4 | 90° | 26 | 3724-0935 |

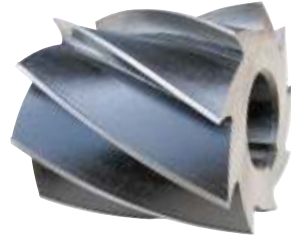
| SIZE | WIDTH FACE | HOLE DIA | ANGLE | TEETH PER | ORDER No. |
|------|------------|----------|-------|-----------|-----------|
| 4 | 1 | 1-1/4 | 60° | 26 | 3724-0640 |
| 4 | 1 | 1-1/4 | 90° | 26 | 3724-0940 |
| 5 | 3/4 | 1-1/4 | 45° | 28 | 3724-0445 |
| 5 | 3/4 | 1-1/4 | 60° | 28 | 3724-0645 |
| 5 | 3/4 | 1-1/4 | 90° | 28 | 3724-0945 |
| 5 | 1 | 1-1/4 | 45° | 28 | 3724-0450 |
| 5 | 1 | 1-1/4 | 60° | 28 | 3724-0650 |
| 5 | 1 | 1-1/4 | 90° | 28 | 3724-0950 |
| 6 | 3/4 | 1-1/4 | 45° | 30 | 3724-0455 |
| 6 | 3/4 | 1-1/4 | 60° | 30 | 3724-0655 |
| 6 | 3/4 | 1-1/4 | 90° | 30 | 3724-0955 |
| 6 | 1 | 1-1/4 | 45° | 30 | 3724-0460 |
| 6 | 1 | 1-1/4 | 60° | 30 | 3724-0660 |
| 6 | 1 | 1-1/4 | 90° | 30 | 3724-0960 |
| 6 | 1-1/2 | 1-1/4 | 45° | 30 | 3724-0470 |
| 6 | 1-1/2 | 1-1/4 | 60° | 30 | 3724-0670 |
| 6 | 1-1/2 | 1-1/4 | 90° | 30 | 3724-0970 |

| SIZE | WIDTH FACE | HOLE DIA | ANGLE | ORDER No. |
|------|------------|----------|-------|-----------|
| 50 | 8 | 16 | 45° | 3725-0450 |
| 50 | 10 | 16 | 60° | 3725-0650 |
| 50 | 14 | 16 | 90° | 3725-0950 |
| 63 | 10 | 22 | 45° | 3725-0463 |
| 63 | 14 | 22 | 60° | 3725-0663 |
| 63 | 20 | 22 | 90° | 3725-0963 |
| 80 | 12 | 27 | 45° | 3725-0480 |
| 80 | 18 | 27 | 60° | 3725-0680 |
| 80 | 22 | 27 | 90° | 3725-0980 |
| 100 | 18 | 32 | 45° | 3725-0410 |
| 100 | 25 | 32 | 60° | 3725-0610 |
| 100 | 32 | 32 | 90° | 3725-0910 |

Plain Milling Cutters

圆柱铣刀

- * For heavier cuts and slud milling
- * Heavy Duty



| SIZE | WIDTH FACE | HOLE DIA | HSS-R ORDER No. | HSS-L ORDER No. |
|-------|------------|----------|-----------------|-----------------|
| 2-1/2 | 2 | 1 | 3731-0010 | 3731-1010 |
| 2-1/2 | 3 | 1 | 3731-0012 | 3731-1012 |
| 2-1/2 | 4 | 1 | 3731-0014 | 3731-1014 |
| 3 | 1/2 | 1 | 3731-0016 | 3731-1016 |
| 3 | 3/4 | 1 | 3731-0018 | 3731-1018 |
| 3 | 1 | 1 | 3731-0020 | 3731-1020 |
| 3 | 1-1/4 | 1-1/4 | 3731-0022 | 3731-1022 |
| 3 | 1-1/2 | 1-1/4 | 3731-0024 | 3731-1024 |
| 3 | 2 | 1-1/4 | 3731-0026 | 3731-1026 |

| SIZE | WIDTH FACE | HOLE DIA | HSS-R ORDER No. | HSS-L ORDER No. |
|-------|------------|----------|-----------------|-----------------|
| 3 | 2-1/2 | 1-1/4 | 3731-0028 | 3731-1028 |
| 3 | 3 | 1-1/4 | 3731-0030 | 3731-1030 |
| 3 | 4 | 1-1/4 | 3731-0032 | 3731-1032 |
| 3 | 6 | 1-1/4 | 3731-0034 | 3731-1034 |
| 4 | 2 | 1-1/2 | 3731-0036 | 3731-1036 |
| 4 | 3 | 1-1/2 | 3731-0038 | 3731-1038 |
| 4 | 4 | 1-1/2 | 3731-0040 | 3731-1040 |
| 4 | 6 | 1-1/2 | 3731-0042 | 3731-1042 |
| 4-1/2 | 6 | 2 | 3731-0044 | 3731-1044 |

| SIZE | WIDTH FACE | HOLE DIA | HSS-R ORDER No. | HSS-L ORDER No. |
|------|------------|----------|-----------------|-----------------|
| 50 | 40 | 22 | 3732-0024 | 3732-1024 |
| 50 | 63 | 22 | 3732-0026 | 3732-1026 |
| 50 | 80 | 22 | 3732-0028 | 3732-1028 |
| 63 | 50 | 27 | 3732-0032 | 3732-1032 |
| 63 | 70 | 27 | 3732-0034 | 3732-1034 |
| 80 | 63 | 32 | 3732-0036 | 3732-1036 |
| 80 | 100 | 32 | 3732-0038 | 3732-1038 |
| 100 | 70 | 40 | 3732-0040 | 3732-1040 |

Plain Milling Cutter

圆柱铣刀

* 3/4" & Wider Face Width 18° L.H. Helix

* Light Duty



| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|-------|------------|----------|---------------|------------------|
| 2-1/4 | 1/4 | 7/8 | 3730-0005 | 3730-1005 |
| 2-1/4 | 1/2 | 7/8 | 3730-0010 | 3730-1010 |
| 2-1/4 | 1 | 7/8 | 3730-0015 | 3730-1015 |
| 2-1/2 | 3/16 | 1 | 3730-0020 | 3730-1020 |
| 2-1/2 | 1/4 | 1 | 3730-0025 | 3730-1025 |
| 2-1/2 | 5/16 | 1 | 3730-0030 | 3730-1030 |
| 2-1/2 | 3/8 | 1 | 3730-0035 | 3730-1035 |
| 2-1/2 | 7/16 | 1 | 3730-0040 | 3730-1040 |
| 2-1/2 | 1/2 | 1 | 3730-0045 | 3730-1045 |
| 2-1/2 | 5/8 | 1 | 3730-0050 | 3730-1050 |
| 2-1/2 | 3/4 | 1 | 3730-0055 | 3730-1055 |
| 2-1/2 | 1 | 1 | 3730-0060 | 3730-1060 |
| 2-1/2 | 1-1/2 | 1 | 3730-0065 | 3730-1065 |
| 2-1/2 | 2 | 1 | 3730-0070 | 3730-1070 |
| 2-1/2 | 2-1/2 | 1 | 3730-0075 | 3730-1075 |
| 2-1/2 | 3 | 1 | 3730-0080 | 3730-1080 |
| 3 | 3/16 | 1 | 3730-0085 | 3730-1085 |
| 3 | 1/4 | 1 | 3730-0090 | 3730-1090 |
| 3 | 5/16 | 1 | 3730-0095 | 3730-1095 |
| 3 | 3/8 | 1 | 3730-0100 | 3730-1100 |
| 3 | 3/8 | 1-1/4 | 3730-0105 | 3730-1105 |
| 3 | 7/16 | 1-1/4 | 3730-0110 | 3730-1110 |
| 3 | 1/2 | 1 | 3730-0115 | 3730-1115 |
| 3 | 5/8 | 1-1/4 | 3730-0120 | 3730-1120 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. | HSS-Co ORDER No. |
|------|------------|----------|---------------|------------------|
| 3 | 3/4 | 1 | 3730-0125 | 3730-1125 |
| 3 | 7/8 | 1-1/4 | 3730-0130 | 3730-1130 |
| 3 | 1 | 1 | 3730-0135 | 3730-1135 |
| 3 | 1 | 1-1/4 | 3730-0140 | 3730-1140 |
| 3 | 1-1/4 | 1-1/4 | 3730-0145 | 3730-1145 |
| 3 | 1-1/2 | 1-1/4 | 3730-0150 | 3730-1150 |
| 3 | 2 | 1-1/4 | 3730-0155 | 3730-1155 |
| 3 | 2-1/2 | 1-1/4 | 3730-0160 | 3730-1160 |
| 3 | 3 | 1-1/4 | 3730-0165 | 3730-1165 |
| 4 | 1/4 | 1 | 3730-0170 | 3730-1170 |
| 4 | 1/4 | 1-1/4 | 3730-0175 | 3730-1175 |
| 4 | 5/16 | 1 | 3730-0180 | 3730-1180 |
| 4 | 3/8 | 1 | 3730-0185 | 3730-1185 |
| 4 | 1 | 1 | 3730-0190 | 3730-1190 |
| 4 | 3/8 | 1-1/4 | 3730-0195 | 3730-1195 |
| 4 | 1/2 | 1-1/4 | 3730-0200 | 3730-1200 |
| 4 | 5/8 | 1-1/4 | 3730-0205 | 3730-1205 |
| 4 | 3/4 | 1-1/4 | 3730-0210 | 3730-1210 |
| 4 | 1 | 1-1/4 | 3730-0215 | 3730-1215 |
| 4 | 1-1/2 | 1-1/4 | 3730-0220 | 3730-1220 |
| 4 | 2 | 1-1/4 | 3730-0225 | 3730-1225 |
| 4 | 3 | 1-1/4 | 3730-0230 | 3730-1230 |
| 4 | 4 | 1-1/4 | 3730-0235 | 3730-1235 |

Shell End Milling

套式铣刀

* General Purpose

* Manufactured from High Speed Steel.



| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS-R ORDER No. | HSS-L ORDER No. |
|-------|------------|----------|--------------|-----------------|-----------------|
| 1-1/4 | 1 | 1/2 | 8 | 3733-0114 | 3733-1114 |
| 1-1/2 | 1-1/8 | 1/2 | 8 | 3733-0112 | 3733-1112 |
| 1-3/4 | 1-1/4 | 3/4 | 8 | 3733-0134 | 3733-1134 |
| 2 | 1-3/8 | 3/4 | 10 | 3733-0200 | 3733-1200 |
| 2-1/4 | 1-1/2 | 1 | 10 | 3733-0214 | 3733-1214 |
| 2-1/2 | 1-5/8 | 1 | 10 | 3733-0212 | 3733-1212 |
| 2-3/4 | 1-5/8 | 1 | 10 | 3733-0234 | 3733-1234 |

| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS-R ORDER No. | HSS-L ORDER No. |
|-------|------------|----------|--------------|-----------------|-----------------|
| 3 | 1-3/4 | 1-1/4 | 12 | 3733-0300 | 3733-1300 |
| 3-1/2 | 1-7/8 | 1-1/4 | 12 | 3733-0312 | 3733-1312 |
| 4 | 2-1/4 | 1-1/2 | 14 | 3733-0400 | 3733-1400 |
| 4-1/2 | 2-1/4 | 1-1/2 | 14 | 3733-0412 | 3733-1412 |
| 5 | 2-1/4 | 1-1/2 | 16 | 3733-0500 | 3733-1500 |
| 5-1/2 | 2-1/4 | 2 | 16 | 3733-0512 | 3733-1512 |
| 6 | 2-1/4 | 2 | 16 | 3733-0600 | 3733-1600 |

Shell Roughing End Milling

套式波刃铣刀

* High performance applications

* Extremely hard wear resistant

* Used for very aggressive machining of stainless steels and nonferrous material

* Provides increase of 35 to 50% in machining speeds

* 高性能应用

* 极坚硬耐磨

* 也适用于加工不锈钢和有色金属材料

* 提高35%至50%的加工速度



| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS ORDER No. |
|-------|------------|----------|--------------|---------------|
| 2 | 2 | 3/4 | 8 | 3734-0202 |
| 2-1/4 | 2 | 1 | 8 | 3734-0216 |
| 2-1/2 | 1-5/8 | 1 | 8 | 3734-0212 |
| 2-3/4 | 2 | 1 | 10 | 3734-0236 |
| 3 | 1-3/4 | 1-1/4 | 10 | 3734-0300 |
| 3-1/2 | 2 | 1-1/4 | 10 | 3734-0314 |

| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS ORDER No. |
|-------|------------|----------|--------------|---------------|
| 4 | 2-1/4 | 1-1/2 | 10 | 3734-0400 |
| 4-1/2 | 2-1/4 | 1-1/2 | 12 | 3734-0412 |
| 5 | 2-1/4 | 1-1/2 | 12 | 3734-0500 |
| 5-1/2 | 2-1/4 | 2 | 14 | 3734-0512 |
| 6 | 2-1/4 | 2 | 14 | 3734-0600 |

Shell End Milling

套式铣刀

* General Purpose

* Manufactured from High Speed Steel.



| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS-R ORDER No. | HSS-L ORDER No. |
|------|---------------|-------------|-----------------|--------------------|--------------------|
| 40 | 32 | 19 | 6 | 3734-0040 | 3734-1040 |
| 50 | 36 | 22 | 8 | 3734-0050 | 3734-1050 |
| 50 | 50 | 22 | 8 | 3734-0051 | 3734-1051 |
| 50 | 63 | 22 | 8 | 3734-0052 | 3734-1052 |
| 60 | 100 | 27 | 8 | 3734-0060 | 3734-1060 |
| 63 | 40 | 27 | 8 | 3734-0063 | 3734-1063 |
| 63 | 70 | 27 | 8 | 3734-0065 | 3734-1065 |

| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS-R ORDER No. | HSS-L ORDER No. |
|------|---------------|-------------|-----------------|--------------------|--------------------|
| 63 | 80 | 27 | 8 | 3734-0066 | 3734-1066 |
| 63 | 100 | 27 | 8 | 3734-0064 | 3734-1064 |
| 80 | 45 | 27 | 10 | 3734-0080 | 3734-1080 |
| 100 | 50 | 32 | 10 | 3734-0100 | 3734-1100 |
| 125 | 56 | 40 | 12 | 3734-0125 | 3734-1125 |
| 160 | 63 | 50 | 16 | 3734-0160 | 3734-1160 |

Shell Roughing End Milling

套式波刃铣刀

* High performance applications

* Extremely hard wear resistant

* Used for very aggressive machining
of stainless steels and nonferrous material

* Provides increase of 35 to 50% in machining speeds

* 高性能应用

* 极坚硬耐磨

* 也适用于加工不锈钢和有色金属材料

* 提高35%至50%的加工速度



| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS-R ORDER No. | HSS-L ORDER No. |
|------|---------------|-------------|-----------------|--------------------|--------------------|
| 40 | 32 | 19 | 6 | 3735-0040 | 3735-1040 |
| 50 | 36 | 22 | 8 | 3735-0050 | 3735-1050 |
| 50 | 50 | 22 | 8 | 3735-0051 | 3735-1051 |
| 50 | 63 | 22 | 8 | 3735-0052 | 3735-1052 |
| 60 | 100 | 27 | 8 | 3735-0060 | 3735-1060 |
| 63 | 40 | 27 | 8 | 3735-0063 | 3735-1063 |
| 63 | 70 | 27 | 8 | 3735-0065 | 3735-1065 |

| SIZE | WIDTH FACE | HOLE DIA | FLUTES No.of | HSS-R ORDER No. | HSS-L ORDER No. |
|------|---------------|-------------|-----------------|--------------------|--------------------|
| 63 | 80 | 27 | 8 | 3735-0066 | 3735-1066 |
| 63 | 100 | 27 | 8 | 3735-0064 | 3735-1064 |
| 80 | 45 | 27 | 10 | 3735-0080 | 3735-1080 |
| 100 | 50 | 32 | 10 | 3735-0100 | 3735-1100 |
| 125 | 56 | 40 | 12 | 3735-0125 | 3735-1125 |
| 160 | 63 | 50 | 16 | 3735-0160 | 3735-1160 |

Straight Tooth Side Milling Cutter

直齿三面刃铣刀

* General Purpose Use

* Extends tool life

* Used for aggressive machining of steels



| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER # |
|-------|------------|----------|-------------|
| 2 | 3/16 | 1/2 | 3736-0002 |
| 2 | 1/4 | 1/2 | 3736-0004 |
| 2 | 5/16 | 1/2 | 3736-0006 |
| 2 | 3/8 | 1/2 | 3736-0008 |
| 2 | 3/16 | 5/8 | 3736-0010 |
| 2 | 1/4 | 5/8 | 3736-0012 |
| 2 | 5/16 | 5/8 | 3736-0014 |
| 2 | 3/8 | 5/8 | 3736-0016 |
| 2 | 1/4 | 7/8 | 3736-0018 |
| 2 | 5/16 | 7/8 | 3736-0020 |
| 2 | 3/8 | 7/8 | 3736-0022 |
| 2 | 7/16 | 7/8 | 3736-0024 |
| 2-1/2 | 3/16 | 7/8 | 3736-0026 |
| 2-1/2 | 1/4 | 7/8 | 3736-0028 |
| 2-1/2 | 5/16 | 7/8 | 3736-0030 |
| 2-1/2 | 3/8 | 7/8 | 3736-0032 |
| 2-1/2 | 7/16 | 7/8 | 3736-0034 |
| 2-1/2 | 1/2 | 7/8 | 3736-0036 |
| 2-1/2 | 9/16 | 7/8 | 3736-0038 |
| 2-1/2 | 5/8 | 7/8 | 3736-0040 |
| 2-1/2 | 3/16 | 1 | 3736-0042 |
| 2-1/2 | 1/4 | 1 | 3736-0044 |
| 2-1/2 | 5/16 | 1 | 3736-0046 |
| 2-1/2 | 3/8 | 1 | 3736-0048 |
| 2-1/2 | 7/16 | 1 | 3736-0050 |
| 2-1/2 | 1/2 | 1 | 3736-0052 |
| 2-1/2 | 9/16 | 1 | 3736-0054 |
| 2-1/2 | 5/8 | 1 | 3736-0056 |
| 3 | 3/16 | 1 | 3736-0058 |
| 3 | 7/32 | 1 | 3736-0060 |
| 3 | 1/4 | 1 | 3736-0062 |
| 3 | 9/32 | 1 | 3736-0064 |
| 3 | 5/16 | 1 | 3736-0066 |
| 3 | 11/32 | 1 | 3736-0068 |
| 3 | 3/8 | 1 | 3736-0070 |
| 3 | 13/32 | 1 | 3736-0072 |
| 3 | 7/16 | 1 | 3736-0074 |
| 3 | 1/2 | 1 | 3736-0076 |
| 3 | 9/16 | 1 | 3736-0078 |
| 3 | 5/8 | 1 | 3736-0080 |
| 3 | 11/16 | 1 | 3736-0082 |
| 3 | 3/4 | 1 | 3736-0084 |
| 3 | 13/16 | 1 | 3736-0086 |
| 3 | 7/8 | 1 | 3736-0088 |
| 3 | 15/16 | 1 | 3736-0090 |
| 3 | 1 | 1 | 3736-0092 |
| 3 | 3/16 | 1-1/4 | 3736-0094 |
| 3 | 7/32 | 1-1/4 | 3736-0096 |
| 3 | 1/4 | 1-1/4 | 3736-0098 |
| 3 | 9/32 | 1-1/4 | 3736-0100 |
| 3 | 5/16 | 1-1/4 | 3736-0102 |
| 3 | 11/32 | 1-1/4 | 3736-0104 |
| 3 | 3/8 | 1-1/4 | 3736-0106 |
| 3 | 13/32 | 1-1/4 | 3736-0108 |
| 3 | 7/16 | 1-1/4 | 3736-0110 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER # |
|-------|------------|----------|-------------|
| 3 | 1/2 | 1-1/4 | 3736-0112 |
| 3 | 9/16 | 1-1/4 | 3736-0114 |
| 3 | 5/8 | 1-1/4 | 3736-0116 |
| 3 | 11/16 | 1-1/4 | 3736-0118 |
| 3 | 3/4 | 1-1/4 | 3736-0120 |
| 3 | 13/16 | 1-1/4 | 3736-0122 |
| 3 | 7/8 | 1-1/4 | 3736-0124 |
| 3 | 15/16 | 1-1/4 | 3736-0126 |
| 3 | 1 | 1-1/4 | 3736-0128 |
| 3-1/2 | 3/16 | 1 | 3736-0130 |
| 3-1/2 | 1/4 | 1 | 3736-0132 |
| 3-1/2 | 5/16 | 1 | 3736-0134 |
| 3-1/2 | 3/8 | 1 | 3736-0136 |
| 3-1/2 | 7/16 | 1 | 3736-0138 |
| 3-1/2 | 1/2 | 1 | 3736-0140 |
| 3-1/2 | 5/8 | 1 | 3736-0142 |
| 3-1/2 | 7/16 | 1-1/4 | 3736-0144 |
| 3-1/2 | 1/2 | 1-1/4 | 3736-0146 |
| 4 | 3/16 | 1 | 3736-0148 |
| 4 | 7/32 | 1 | 3736-0150 |
| 4 | 1/4 | 1 | 3736-0152 |
| 4 | 9/32 | 1 | 3736-0154 |
| 4 | 5/16 | 1 | 3736-0156 |
| 4 | 11/32 | 1 | 3736-0158 |
| 4 | 3/8 | 1 | 3736-0160 |
| 4 | 13/32 | 1 | 3736-0162 |
| 4 | 7/16 | 1 | 3736-0164 |
| 4 | 1/2 | 1 | 3736-0166 |
| 4 | 9/16 | 1 | 3736-0168 |
| 4 | 5/8 | 1 | 3736-0170 |
| 4 | 11/16 | 1 | 3736-0172 |
| 4 | 3/4 | 1 | 3736-0174 |
| 4 | 13/16 | 1 | 3736-0176 |
| 4 | 7/8 | 1 | 3736-0178 |
| 4 | 15/16 | 1 | 3736-0180 |
| 4 | 1 | 1 | 3736-0182 |
| 4 | 1-1/8 | 1 | 3736-0184 |
| 4 | 1-1/4 | 1 | 3736-0186 |
| 4 | 1-1/2 | 1 | 3736-0188 |
| 4 | 3/16 | 1-1/4 | 3736-0190 |
| 4 | 7/32 | 1-1/4 | 3736-0192 |
| 4 | 1/4 | 1-1/4 | 3736-0194 |
| 4 | 9/32 | 1-1/4 | 3736-0196 |
| 4 | 5/16 | 1-1/4 | 3736-0198 |
| 4 | 11/32 | 1-1/4 | 3736-0200 |
| 4 | 3/8 | 1-1/4 | 3736-0202 |
| 4 | 13/32 | 1-1/4 | 3736-0204 |
| 4 | 7/16 | 1-1/4 | 3736-0206 |
| 4 | 1/2 | 1-1/4 | 3736-0208 |
| 4 | 9/16 | 1-1/4 | 3736-0210 |
| 4 | 5/8 | 1-1/4 | 3736-0212 |
| 4 | 11/16 | 1-1/4 | 3736-0214 |
| 4 | 3/4 | 1-1/4 | 3736-0216 |
| 4 | 13/16 | 1-1/4 | 3736-0218 |
| 4 | 7/8 | 1-1/4 | 3736-0220 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER # |
|-------|------------|----------|-------------|
| 4 | 15/16 | 1-1/4 | 3736-0222 |
| 4 | 1 | 1-1/4 | 3736-0224 |
| 4 | 1-1/8 | 1-1/4 | 3736-0226 |
| 4 | 1-1/4 | 1-1/4 | 3736-0228 |
| 4 | 1-1/2 | 1-1/4 | 3736-0230 |
| 4-1/2 | 3/8 | 1-1/4 | 3736-0232 |
| 4-1/2 | 7/16 | 1-1/4 | 3736-0234 |
| 4-1/2 | 1/2 | 1-1/4 | 3736-0236 |
| 5 | 1/4 | 1 | 3736-0238 |
| 5 | 9/32 | 1 | 3736-0240 |
| 5 | 5/16 | 1 | 3736-0242 |
| 5 | 11/32 | 1 | 3736-0244 |
| 5 | 3/8 | 1 | 3736-0246 |
| 5 | 13/32 | 1 | 3736-0248 |
| 5 | 7/16 | 1 | 3736-0250 |
| 5 | 1/2 | 1 | 3736-0252 |
| 5 | 9/16 | 1 | 3736-0254 |
| 5 | 5/8 | 1 | 3736-0256 |
| 5 | 11/16 | 1 | 3736-0258 |
| 5 | 3/4 | 1 | 3736-0260 |
| 5 | 13/16 | 1 | 3736-0262 |
| 5 | 7/8 | 1 | 3736-0264 |
| 5 | 15/16 | 1 | 3736-0266 |
| 5 | 1 | 1 | 3736-0268 |
| 5 | 1/4 | 1-1/4 | 3736-0270 |
| 5 | 9/32 | 1-1/4 | 3736-0272 |
| 5 | 5/16 | 1-1/4 | 3736-0274 |
| 5 | 11/32 | 1-1/4 | 3736-0276 |
| 5 | 3/8 | 1-1/4 | 3736-0278 |
| 5 | 13/32 | 1-1/4 | 3736-0280 |
| 5 | 7/16 | 1-1/4 | 3736-0282 |
| 5 | 1/2 | 1-1/4 | 3736-0284 |
| 5 | 9/16 | 1-1/4 | 3736-0286 |
| 5 | 5/8 | 1-1/4 | 3736-0288 |
| 5 | 11/16 | 1-1/4 | 3736-0290 |
| 5 | 3/4 | 1-1/4 | 3736-0292 |
| 5 | 13/16 | 1-1/4 | 3736-0294 |
| 5 | 7/8 | 1-1/4 | 3736-0296 |
| 5 | 15/16 | 1-1/4 | 3736-0298 |
| 5 | 1 | 1-1/4 | 3736-0300 |
| 5 | 1-1/4 | 1-1/4 | 3736-0302 |
| 6 | 1/4 | 1 | 3736-0304 |
| 6 | 5/16 | 1 | 3736-0306 |
| 6 | 3/8 | 1 | 3736-0308 |
| 6 | 7/16 | 1 | 3736-0310 |
| 6 | 1/2 | 1 | 3736-0312 |
| 6 | 9/16 | 1 | 3736-0314 |
| 6 | 5/8 | 1 | 3736-0316 |
| 6 | 11/16 | 1 | 3736-0318 |
| 6 | 3/4 | 1 | 3736-0320 |
| 6 | 13/16 | 1 | 3736-0322 |
| 6 | 7/8 | 1 | 3736-0324 |
| 6 | 15/16 | 1 | 3736-0326 |
| 6 | 1 | 1 | 3736-0328 |
| 6 | 1-1/4 | 1 | 3736-0330 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 6 | 1/4 | 1-1/4 | 3736-0332 |
| 6 | 9/32 | 1-1/4 | 3736-0334 |
| 6 | 5/16 | 1-1/4 | 3736-0336 |
| 6 | 11/32 | 1-1/4 | 3736-0338 |
| 6 | 3/8 | 1-1/4 | 3736-0340 |
| 6 | 13/32 | 1-1/4 | 3736-0342 |
| 6 | 7/16 | 1-1/4 | 3736-0344 |
| 6 | 1/2 | 1-1/4 | 3736-0346 |
| 6 | 9/16 | 1-1/4 | 3736-0348 |
| 6 | 5/8 | 1-1/4 | 3736-0350 |
| 6 | 11/16 | 1-1/4 | 3736-0352 |
| 6 | 3/4 | 1-1/4 | 3736-0354 |
| 6 | 13/16 | 1-1/4 | 3736-0356 |
| 6 | 7/8 | 1-1/4 | 3736-0358 |
| 6 | 15/16 | 1-1/4 | 3736-0360 |
| 6 | 1 | 1-1/4 | 3736-0362 |
| 6 | 1-1/8 | 1-1/4 | 3736-0364 |
| 6 | 1-1/4 | 1-1/4 | 3736-0366 |
| 7 | 1/4 | 1-1/4 | 3736-0368 |
| 7 | 5/16 | 1-1/4 | 3736-0370 |
| 7 | 3/8 | 1-1/4 | 3736-0372 |
| 7 | 7/16 | 1-1/4 | 3736-0374 |
| 7 | 1/2 | 1-1/4 | 3736-0376 |
| 7 | 9/16 | 1-1/4 | 3736-0378 |
| 7 | 5/8 | 1-1/4 | 3736-0380 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 7 | 11/16 | 1-1/4 | 3736-0382 |
| 7 | 3/4 | 1-1/4 | 3736-0384 |
| 7 | 13/16 | 1-1/4 | 3736-0386 |
| 7 | 7/8 | 1-1/4 | 3736-0388 |
| 7 | 15/16 | 1-1/4 | 3736-0390 |
| 7 | 1 | 1-1/4 | 3736-0392 |
| 8 | 1/4 | 1 | 3736-0394 |
| 8 | 5/16 | 1 | 3736-0396 |
| 8 | 3/8 | 1 | 3736-0398 |
| 8 | 7/16 | 1 | 3736-0400 |
| 8 | 1/2 | 1 | 3736-0402 |
| 8 | 1/4 | 1-1/4 | 3736-0404 |
| 8 | 5/16 | 1-1/4 | 3736-0406 |
| 8 | 3/8 | 1-1/4 | 3736-0408 |
| 8 | 7/16 | 1-1/4 | 3736-0410 |
| 8 | 1/2 | 1-1/4 | 3736-0412 |
| 8 | 9/16 | 1-1/4 | 3736-0414 |
| 8 | 5/8 | 1-1/4 | 3736-0416 |
| 8 | 11/16 | 1-1/4 | 3736-0418 |
| 8 | 3/4 | 1-1/4 | 3736-0420 |
| 8 | 13/16 | 1-1/4 | 3736-0422 |
| 8 | 7/8 | 1-1/4 | 3736-0424 |
| 8 | 15/16 | 1-1/4 | 3736-0426 |
| 8 | 1 | 1-1/4 | 3736-0428 |
| 8 | 1/4 | 1-1/2 | 3736-0430 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 9 | 1/4 | 1-1/4 | 3736-0432 |
| 9 | 3/8 | 1-1/4 | 3736-0434 |
| 9 | 1/2 | 1-1/4 | 3736-0436 |
| 9 | 5/8 | 1-1/4 | 3736-0438 |
| 9 | 3/4 | 1-1/4 | 3736-0440 |
| 9 | 1 | 1-1/4 | 3736-0442 |
| 10 | 5/8 | 1-1/4 | 3736-0444 |
| 10 | 3/4 | 1-1/4 | 3736-0446 |
| 10 | 1/4 | 1-1/2 | 3736-0448 |
| 10 | 5/16 | 1-1/2 | 3736-0450 |
| 10 | 3/8 | 1-1/2 | 3736-0452 |
| 10 | 7/16 | 1-1/2 | 3736-0454 |
| 10 | 1/2 | 1-1/2 | 3736-0456 |
| 10 | 9/16 | 1-1/2 | 3736-0458 |
| 10 | 5/8 | 1-1/2 | 3736-0460 |
| 10 | 11/16 | 1-1/2 | 3736-0462 |
| 10 | 3/4 | 1-1/2 | 3736-0464 |
| 10 | 13/16 | 1-1/2 | 3736-0466 |
| 10 | 7/8 | 1-1/2 | 3736-0468 |
| 10 | 15/16 | 1-1/2 | 3736-0470 |
| 10 | 1 | 1-1/2 | 3736-0472 |
| 10 | 1-1/8 | 1-1/2 | 3736-0474 |
| 10 | 1-1/4 | 1-1/2 | 3736-0476 |
| 10 | 1-1/2 | 1-1/2 | 3736-0478 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 50 | 4 | 16 | 3738-0054 |
| 50 | 5 | 16 | 3739-0055 |
| 50 | 6 | 16 | 3739-0056 |
| 50 | 8 | 16 | 3739-0058 |
| 50 | 10 | 16 | 3739-0060 |
| 63 | 4 | 22 | 3739-0064 |
| 63 | 5 | 22 | 3739-0065 |
| 63 | 6 | 22 | 3739-0066 |
| 63 | 8 | 22 | 3739-0068 |
| 63 | 10 | 22 | 3739-0070 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 63 | 12 | 22 | 3739-0072 |
| 63 | 14 | 22 | 3739-0074 |
| 63 | 16 | 22 | 3739-0076 |
| 80 | 5 | 27 | 3739-0085 |
| 80 | 6 | 27 | 3739-0086 |
| 80 | 8 | 27 | 3739-0088 |
| 80 | 10 | 27 | 3739-0090 |
| 80 | 12 | 27 | 3739-0092 |
| 80 | 14 | 27 | 3739-0094 |
| 80 | 16 | 27 | 3739-0096 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 80 | 18 | 27 | 3739-0098 |
| 80 | 20 | 27 | 3739-0100 |
| 100 | 6 | 32 | 3739-0106 |
| 100 | 8 | 32 | 3739-0108 |
| 100 | 10 | 32 | 3739-0110 |
| 100 | 12 | 32 | 3739-0112 |
| 100 | 14 | 32 | 3739-0114 |
| 100 | 16 | 32 | 3739-0116 |
| 100 | 18 | 32 | 3739-0118 |
| 100 | 20 | 32 | 3739-0120 |

Staggered Tooth Side Milling Cutter

错齿三面刃铣刀

* General Purpose Use

* Extends tool life

* Used for aggressive machining of steels



| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|-------|------------|----------|---------------|
| 2-1/2 | 3/16 | 7/8 | 3737-0002 |
| 2-1/2 | 1/4 | 7/8 | 3737-0004 |
| 2-1/2 | 5/16 | 7/8 | 3737-0006 |
| 2-1/2 | 3/8 | 7/8 | 3737-0008 |
| 2-1/2 | 7/16 | 7/8 | 3737-0010 |
| 2-1/2 | 1/2 | 7/8 | 3737-0012 |
| 2-1/2 | 1/4 | 1 | 3737-0014 |
| 2-1/2 | 7/16 | 1 | 3737-0016 |
| 2-1/2 | 1/2 | 1 | 3737-0018 |
| 2-1/2 | 9/16 | 1 | 3737-0020 |
| 2-1/2 | 5/8 | 1 | 3737-0022 |
| 3 | 3/16 | 1 | 3737-0024 |
| 3 | 7/32 | 1 | 3737-0026 |
| 3 | 1/4 | 1 | 3737-0028 |
| 3 | 9/32 | 1 | 3737-0030 |
| 3 | 5/16 | 1 | 3737-0032 |
| 3 | 11/32 | 1 | 3737-0034 |
| 3 | 3/8 | 1 | 3737-0036 |
| 3 | 13/32 | 1 | 3737-0038 |
| 3 | 7/16 | 1 | 3737-0040 |
| 3 | 1/2 | 1 | 3737-0042 |
| 3 | 9/16 | 1 | 3737-0044 |
| 3 | 5/8 | 1 | 3737-0046 |
| 3 | 11/16 | 1 | 3737-0048 |
| 3 | 3/4 | 1 | 3737-0050 |
| 3 | 13/16 | 1 | 3737-0052 |
| 3 | 7/8 | 1 | 3737-0054 |
| 3 | 15/16 | 1 | 3737-0056 |
| 3 | 1 | 1 | 3737-0058 |
| 3 | 3/16 | 1-1/4 | 3737-0060 |
| 3 | 7/32 | 1-1/4 | 3737-0062 |
| 3 | 1/4 | 1-1/4 | 3737-0064 |
| 3 | 9/32 | 1-1/4 | 3737-0066 |
| 3 | 5/16 | 1-1/4 | 3737-0068 |
| 3 | 11/32 | 1-1/4 | 3737-0070 |
| 3 | 3/8 | 1-1/4 | 3737-0072 |
| 3 | 13/32 | 1-1/4 | 3737-0074 |
| 3 | 7/16 | 1-1/4 | 3737-0076 |
| 3 | 1/2 | 1-1/4 | 3737-0078 |
| 3 | 9/16 | 1-1/4 | 3737-0080 |
| 3 | 5/8 | 1-1/4 | 3737-0082 |
| 3 | 11/16 | 1-1/4 | 3737-0084 |
| 3 | 3/4 | 1-1/4 | 3737-0086 |
| 3 | 13/16 | 1-1/4 | 3737-0088 |
| 3 | 7/8 | 1-1/4 | 3737-0090 |
| 3 | 15/16 | 1-1/4 | 3737-0092 |
| 3 | 1 | 1-1/4 | 3737-0094 |
| 3-1/2 | 1/4 | 1 | 3737-0096 |
| 3-1/2 | 5/16 | 1 | 3737-0098 |
| 3-1/2 | 3/8 | 1 | 3737-0100 |
| 3-1/2 | 1/2 | 1 | 3737-0102 |
| 3-1/2 | 5/8 | 1 | 3737-0104 |
| 3-1/2 | 11/16 | 1 | 3737-0106 |
| 4 | 3/16 | 1 | 3737-0108 |
| 4 | 7/32 | 1 | 3737-0110 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|-------|------------|----------|---------------|
| 4 | 1/4 | 1 | 3737-0112 |
| 4 | 9/32 | 1 | 3737-0114 |
| 4 | 5/16 | 1 | 3737-0116 |
| 4 | 11/32 | 1 | 3737-0118 |
| 4 | 3/8 | 1 | 3737-0120 |
| 4 | 13/32 | 1 | 3737-0122 |
| 4 | 7/16 | 1 | 3737-0124 |
| 4 | 1/2 | 1 | 3737-0126 |
| 4 | 9/16 | 1 | 3737-0128 |
| 4 | 5/8 | 1 | 3737-0130 |
| 4 | 11/16 | 1 | 3737-0132 |
| 4 | 3/4 | 1 | 3737-0134 |
| 4 | 13/16 | 1 | 3737-0136 |
| 4 | 7/8 | 1 | 3737-0138 |
| 4 | 15/16 | 1 | 3737-0140 |
| 4 | 1 | 1 | 3737-0142 |
| 4 | 1-1/8 | 1 | 3737-0144 |
| 4 | 1-1/4 | 1 | 3737-0146 |
| 4 | 1-1/2 | 1 | 3737-0148 |
| 4 | 3/16 | 1-1/4 | 3737-0150 |
| 4 | 7/32 | 1-1/4 | 3737-0152 |
| 4 | 1/4 | 1-1/4 | 3737-0154 |
| 4 | 9/32 | 1-1/4 | 3737-0156 |
| 4 | 5/16 | 1-1/4 | 3737-0158 |
| 4 | 11/32 | 1-1/4 | 3737-0160 |
| 4 | 3/8 | 1-1/4 | 3737-0162 |
| 4 | 13/32 | 1-1/4 | 3737-0164 |
| 4 | 7/16 | 1-1/4 | 3737-0166 |
| 4 | 1/2 | 1-1/4 | 3737-0168 |
| 4 | 9/16 | 1-1/4 | 3737-0170 |
| 4 | 5/8 | 1-1/4 | 3737-0172 |
| 4 | 11/16 | 1-1/4 | 3737-0174 |
| 4 | 3/4 | 1-1/4 | 3737-0176 |
| 4 | 13/16 | 1-1/4 | 3737-0178 |
| 4 | 7/8 | 1-1/4 | 3737-0180 |
| 4 | 15/16 | 1-1/4 | 3737-0182 |
| 4 | 1 | 1-1/4 | 3737-0184 |
| 4 | 1-1/8 | 1-1/4 | 3737-0186 |
| 4 | 1-1/4 | 1-1/4 | 3737-0188 |
| 4 | 1-1/2 | 1-1/4 | 3737-0190 |
| 4-1/2 | 1/2 | 1 | 3737-0192 |
| 4-1/2 | 1/2 | 1-1/4 | 3737-0194 |
| 5 | 1/4 | 1 | 3737-0196 |
| 5 | 5/16 | 1 | 3737-0198 |
| 5 | 3/8 | 1 | 3737-0200 |
| 5 | 7/16 | 1 | 3737-0202 |
| 5 | 1/2 | 1 | 3737-0204 |
| 5 | 9/16 | 1 | 3737-0206 |
| 5 | 5/8 | 1 | 3737-0208 |
| 5 | 11/16 | 1 | 3737-0210 |
| 5 | 3/4 | 1 | 3737-0212 |
| 5 | 13/16 | 1 | 3737-0214 |
| 5 | 7/8 | 1 | 3737-0216 |
| 5 | 15/16 | 1 | 3737-0218 |
| 5 | 1/4 | 1-1/4 | 3737-0220 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 5 | 5/16 | 1-1/4 | 3737-0222 |
| 5 | 3/8 | 1-1/4 | 3737-0224 |
| 5 | 7/16 | 1-1/4 | 3737-0226 |
| 5 | 1/2 | 1-1/4 | 3737-0228 |
| 5 | 9/16 | 1-1/4 | 3737-0230 |
| 5 | 5/8 | 1-1/4 | 3737-0232 |
| 5 | 11/16 | 1-1/4 | 3737-0234 |
| 5 | 3/4 | 1-1/4 | 3737-0236 |
| 5 | 13/16 | 1-1/4 | 3737-0238 |
| 5 | 7/8 | 1-1/4 | 3737-0240 |
| 5 | 15/16 | 1-1/4 | 3737-0242 |
| 5 | 1 | 1-1/4 | 3737-0244 |
| 6 | 1/4 | 1 | 3737-0246 |
| 6 | 9/32 | 1 | 3737-0248 |
| 6 | 5/16 | 1 | 3737-0250 |
| 6 | 3/8 | 1 | 3737-0252 |
| 6 | 7/16 | 1 | 3737-0254 |
| 6 | 1/2 | 1 | 3737-0256 |
| 6 | 9/16 | 1 | 3737-0258 |
| 6 | 5/8 | 1 | 3737-0260 |
| 6 | 11/16 | 1 | 3737-0262 |
| 6 | 3/4 | 1 | 3737-0264 |
| 6 | 13/16 | 1 | 3737-0266 |
| 6 | 7/8 | 1 | 3737-0268 |
| 6 | 15/16 | 1 | 3737-0270 |
| 6 | 1 | 1 | 3737-0272 |
| 6 | 1/4 | 1-1/4 | 3737-0274 |
| 6 | 9/32 | 1-1/4 | 3737-0276 |
| 6 | 5/16 | 1-1/4 | 3737-0278 |
| 6 | 11/32 | 1-1/4 | 3737-0280 |
| 6 | 3/8 | 1-1/4 | 3737-0282 |
| 6 | 13/32 | 1-1/4 | 3737-0284 |
| 6 | 7/16 | 1-1/4 | 3737-0286 |
| 6 | 1/2 | 1-1/4 | 3737-0288 |
| 6 | 9/16 | 1-1/4 | 3737-0290 |
| 6 | 5/8 | 1-1/4 | 3737-0292 |
| 6 | 11/16 | 1-1/4 | 3737-0294 |
| 6 | 3/4 | 1-1/4 | 3737-0296 |
| 6 | 13/16 | 1-1/4 | 3737-0298 |
| 6 | 7/8 | 1-1/4 | 3737-0300 |
| 6 | 15/16 | 1-1/4 | 3737-0302 |
| 6 | 1 | 1-1/4 | 3737-0304 |
| 6 | 1-1/8 | 1-1/4 | 3737-0306 |
| 6 | 1-3/16 | 1-1/4 | 3737-0308 |
| 6 | 1 | 1-1/2 | 3737-0314 |
| 7 | 1/4 | 1-1/4 | 3737-0316 |
| 7 | 5/16 | 1-1/4 | 3737-0318 |
| 7 | 3/8 | 1-1/4 | 3737-0320 |
| 7 | 7/16 | 1-1/4 | 3737-0322 |
| 7 | 1/2 | 1-1/4 | 3737-0324 |
| 7 | 9/16 | 1-1/4 | 3737-0326 |
| 7 | 5/8 | 1-1/4 | 3737-0328 |
| 7 | 11/16 | 1-1/4 | 3737-0330 |
| 7 | 3/4 | 1-1/4 | 3737-0332 |
| 7 | 13/16 | 1-1/4 | 3737-0334 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 7 | 7/8 | 1-1/4 | 3737-0336 |
| 7 | 15/16 | 1-1/4 | 3737-0338 |
| 7 | 1 | 1-1/4 | 3737-0340 |
| 7 | 3/8 | 1-1/2 | 3737-0342 |
| 7 | 7/16 | 1-1/2 | 3737-0344 |
| 7 | 1/2 | 1-1/2 | 3737-0346 |
| 7 | 5/8 | 1-1/2 | 3737-0348 |
| 7 | 3/4 | 1-1/2 | 3737-0350 |
| 7 | 7/8 | 1-1/2 | 3737-0352 |
| 7 | 1 | 1-1/2 | 3737-0354 |
| 8 | 1/4 | 1 | 3737-0356 |
| 8 | 3/8 | 1 | 3737-0358 |
| 8 | 1/2 | 1 | 3737-0360 |
| 8 | 1/4 | 1-1/4 | 3737-0362 |
| 8 | 5/16 | 1-1/4 | 3737-0364 |
| 8 | 3/8 | 1-1/4 | 3737-0366 |
| 8 | 7/16 | 1-1/4 | 3737-0368 |
| 8 | 1/2 | 1-1/4 | 3737-0370 |
| 8 | 9/16 | 1-1/4 | 3737-0372 |
| 8 | 5/8 | 1-1/4 | 3737-0374 |
| 8 | 11/16 | 1-1/4 | 3737-0376 |
| 8 | 3/4 | 1-1/4 | 3737-0378 |
| 8 | 13/16 | 1-1/4 | 3737-0380 |
| 8 | 7/8 | 1-1/4 | 3737-0382 |
| 8 | 15/16 | 1-1/4 | 3737-0384 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 8 | 1 | 1-1/4 | 3737-0386 |
| 8 | 1/4 | 1-1/2 | 3737-0388 |
| 8 | 5/16 | 1-1/2 | 3737-0390 |
| 8 | 3/8 | 1-1/2 | 3737-0392 |
| 8 | 7/16 | 1-1/2 | 3737-0394 |
| 8 | 5/8 | 1-1/2 | 3737-0400 |
| 8 | 11/16 | 1-1/2 | 3737-0402 |
| 8 | 3/4 | 1-1/2 | 3737-0404 |
| 8 | 13/16 | 1-1/2 | 3737-0406 |
| 8 | 7/8 | 1-1/2 | 3737-0408 |
| 8 | 15/16 | 1-1/2 | 3737-0410 |
| 8 | 1 | 1-1/2 | 3737-0412 |
| 8 | 1-1/8 | 1-1/2 | 3737-0414 |
| 8 | 1-1/4 | 1-1/2 | 3737-0416 |
| 8 | 1-1/2 | 1-1/2 | 3737-0418 |
| 9 | 1/4 | 1-1/4 | 3737-0420 |
| 9 | 3/8 | 1-1/4 | 3737-0422 |
| 9 | 1/2 | 1-1/4 | 3737-0424 |
| 9 | 5/8 | 1-1/4 | 3737-0426 |
| 9 | 3/4 | 1-1/4 | 3737-0428 |
| 9 | 1 | 1-1/2 | 3737-0430 |
| 9 | 1/4 | 1-1/2 | 3737-0432 |
| 9 | 3/8 | 1-1/2 | 3737-0434 |
| 9 | 1/2 | 1-1/2 | 3737-0436 |
| 9 | 5/8 | 1-1/2 | 3737-0438 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 9 | 3/4 | 1-1/2 | 3737-0440 |
| 9 | 1 | 1-1/2 | 3737-0442 |
| 10 | 3/8 | 1-1/4 | 3737-0444 |
| 10 | 13/16 | 1-1/4 | 3737-0446 |
| 10 | 15/16 | 1-1/2 | 3737-0448 |
| 10 | 1/4 | 1-1/2 | 3737-0450 |
| 10 | 5/16 | 1-1/2 | 3737-0452 |
| 10 | 3/8 | 1-1/2 | 3737-0454 |
| 10 | 7/16 | 1-1/2 | 3737-0456 |
| 10 | 1/2 | 1-1/2 | 3737-0458 |
| 10 | 9/16 | 1-1/2 | 3737-0460 |
| 10 | 5/8 | 1-1/2 | 3737-0462 |
| 10 | 11/16 | 1-1/2 | 3737-0464 |
| 10 | 3/4 | 1-1/2 | 3737-0466 |
| 10 | 13/16 | 1-1/2 | 3737-0468 |
| 10 | 7/8 | 1-1/2 | 3737-0470 |
| 10 | 15/16 | 1-1/2 | 3737-0472 |
| 10 | 1 | 1-1/2 | 3737-0474 |
| 10 | 1-1/8 | 1-1/2 | 3737-0476 |
| 10 | 1-1/4 | 1-1/2 | 3737-0478 |
| 10 | 1-1/2 | 1-1/2 | 3737-0480 |
| | | | |
| | | | |
| | | | |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 50 | 4 | 16 | 3738-0054 |
| 50 | 5 | 16 | 3738-0055 |
| 50 | 6 | 16 | 3738-0056 |
| 50 | 8 | 16 | 3738-0058 |
| 50 | 10 | 16 | 3738-0060 |
| 63 | 4 | 22 | 3738-0064 |
| 63 | 5 | 22 | 3738-0065 |
| 63 | 6 | 22 | 3738-0066 |
| 63 | 8 | 22 | 3738-0068 |
| 63 | 10 | 22 | 3738-0070 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 63 | 12 | 22 | 3738-0072 |
| 63 | 14 | 22 | 3738-0074 |
| 63 | 16 | 22 | 3738-0076 |
| 80 | 5 | 27 | 3738-0085 |
| 80 | 6 | 27 | 3738-0086 |
| 80 | 8 | 27 | 3738-0088 |
| 80 | 10 | 27 | 3738-0090 |
| 80 | 12 | 27 | 3738-0092 |
| 80 | 14 | 27 | 3738-0094 |
| 80 | 16 | 27 | 3738-0096 |

| SIZE | WIDTH FACE | HOLE DIA | HSS ORDER No. |
|------|------------|----------|---------------|
| 80 | 18 | 27 | 3738-0098 |
| 80 | 20 | 27 | 3738-0100 |
| 100 | 6 | 32 | 3738-0106 |
| 100 | 8 | 32 | 3738-0108 |
| 100 | 10 | 32 | 3738-0110 |
| 100 | 12 | 32 | 3738-0112 |
| 100 | 14 | 32 | 3738-0114 |
| 100 | 16 | 32 | 3738-0116 |
| 100 | 18 | 32 | 3738-0118 |
| 100 | 20 | 32 | 3738-0120 |

Woodruff Keyseat Cutter

圆柄半圆键

* Right Hand

* Extremely versatile profile milling cutters.

* 1/2 Shank.



Straight Tooth



Staggered Tooth

| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 202 | 1/4 | 1/16 | 3800-0020 | 3800-1020 |
| 202-1/2 | 5/16 | 1/16 | 3800-0022 | 3800-1022 |
| 302-1/2 | 5/16 | 3/32 | 3800-0024 | 3800-1024 |
| 203 | 3/8 | 1/16 | 3800-0026 | 3800-1026 |
| 303 | 3/8 | 3/32 | 3800-0028 | 3800-1028 |
| 403 | 3/8 | 1/8 | 3800-0030 | 3800-1030 |
| 204 | 1/2 | 1/16 | 3800-0032 | 3800-1032 |
| 304 | 1/2 | 3/32 | 3800-0034 | 3800-1034 |
| 404 | 1/2 | 1/8 | 3800-0036 | 3800-1036 |
| 305 | 5/8 | 3/32 | 3800-0038 | 3800-1038 |
| 405 | 5/8 | 1/8 | 3800-0040 | 3800-1040 |
| 505 | 5/8 | 5/32 | 3800-0042 | 3800-1042 |
| 605 | 5/8 | 3/16 | 3800-0044 | 3800-1044 |
| 406 | 3/4 | 1/8 | 3800-0046 | 3800-1046 |
| 506 | 3/4 | 5/32 | 3800-0048 | 3800-1048 |
| 606 | 3/4 | 3/16 | 3800-0050 | 3800-1050 |
| 806 | 3/4 | 1/4 | 3800-0052 | 3800-1052 |
| 507 | 7/8 | 5/32 | 3800-0054 | 3800-1054 |
| 607 | 7/8 | 3/16 | 3800-0056 | 3800-1056 |
| 707 | 7/8 | 7/32 | 3800-0058 | 3800-1058 |
| 807 | 7/8 | 1/4 | 3800-0060 | 3800-1060 |

| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 608 | 1 | 3/16 | 3800-0062 | 3800-1062 |
| 708 | 1 | 7/32 | 3800-0064 | 3800-1064 |
| 808 | 1 | 1/4 | 3800-0066 | 3800-1066 |
| 1008 | 1 | 5/16 | 3800-0068 | 3800-1068 |
| 1208 | 1 | 3/8 | 3800-0070 | 3800-1070 |
| 609 | 1-1/8 | 3/16 | 3800-0072 | 3800-1072 |
| 709 | 1-1/8 | 7/32 | 3800-0074 | 3800-1074 |
| 809 | 1-1/8 | 1/4 | 3800-0076 | 3800-1076 |
| 1009 | 1-1/8 | 5/16 | 3800-0078 | 3800-1078 |
| 610 | 1-1/4 | 3/16 | 3800-0080 | 3800-1080 |
| 710 | 1-1/4 | 7/32 | 3800-0082 | 3800-1082 |
| 810 | 1-1/4 | 1/4 | 3800-0084 | 3800-1084 |
| 1010 | 1-1/4 | 5/16 | 3800-0086 | 3800-1086 |
| 1210 | 1-1/4 | 3/8 | 3800-0088 | 3800-1088 |
| 811 | 1-3/8 | 1/4 | 3800-0090 | 3800-1090 |
| 1011 | 1-3/8 | 5/16 | 3800-0092 | 3800-1092 |
| 1211 | 1-3/8 | 3/8 | 3800-0094 | 3800-1094 |
| 812 | 1-1/2 | 1/4 | 3800-0096 | 3800-1096 |
| 1012 | 1-1/2 | 5/16 | 3800-0098 | 3800-1098 |
| 1212 | 1-1/2 | 3/8 | 3800-0100 | 3800-1100 |

| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 10.5 | 2 | 57 | 3801-2012 | 3801-3012 |
| 10.5 | 2.5 | 57 | 3801-2014 | 3801-3014 |
| 10.5 | 3 | 57 | 3801-2016 | 3801-3016 |
| 13.5 | 2 | 57 | 3801-2018 | 3801-3018 |
| 13.5 | 2.5 | 57 | 3801-2020 | 3801-3020 |
| 13.5 | 3 | 57 | 3801-2022 | 3801-3022 |
| 13.5 | 4 | 57 | 3801-2024 | 3801-3024 |
| 16.5 | 2.5 | 57 | 3801-2026 | 3801-3026 |
| 16.5 | 3 | 57 | 3801-2028 | 3801-3028 |
| 16.5 | 4 | 57 | 3801-2030 | 3801-3030 |
| 16.5 | 5 | 57 | 3801-2032 | 3801-3032 |
| 19.5 | 3 | 57 | 3801-2034 | 3801-3034 |
| 19.5 | 4 | 57 | 3801-2036 | 3801-3036 |
| 19.5 | 5 | 57 | 3801-2038 | 3801-3038 |
| 22.5 | 4 | 63.5 | 3801-2040 | 3801-3040 |
| 22.5 | 5 | 63.5 | 3801-2042 | 3801-3042 |
| 22.5 | 6 | 63.5 | 3801-2044 | 3801-3044 |
| 25.5 | 5 | 70 | 3801-2046 | 3801-3046 |
| 25.5 | 6 | 70 | 3801-2048 | 3801-3048 |

| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 25.5 | 7 | 70 | 3801-2050 | 3801-3050 |
| 25.5 | 8 | 70 | 3801-2052 | 3801-3052 |
| 28.5 | 5 | 70 | 3801-2054 | 3801-3054 |
| 28.5 | 6 | 70 | 3801-2056 | 3801-3056 |
| 28.5 | 7 | 70 | 3801-2058 | 3801-3058 |
| 28.5 | 8 | 70 | 3801-2060 | 3801-3060 |
| 32.5 | 5 | 70 | 3801-2062 | 3801-3062 |
| 32.5 | 6 | 70 | 3801-2064 | 3801-3064 |
| 32.5 | 7 | 70 | 3801-2066 | 3801-3066 |
| 32.5 | 8 | 70 | 3801-2068 | 3801-3068 |
| 35.5 | 6 | 76 | 3801-2070 | 3801-3070 |
| 35.5 | 7 | 76 | 3801-2072 | 3801-3072 |
| 35.5 | 8 | 76 | 3801-2074 | 3801-3074 |
| 35.5 | 9 | 76 | 3801-2076 | 3801-3076 |
| 38.5 | 7 | 76 | 3801-2078 | 3801-3078 |
| 38.5 | 8 | 76 | 3801-2080 | 3801-3080 |
| 38.5 | 9 | 76 | 3801-2082 | 3801-3082 |
| 38.5 | 10 | 76 | 3801-2084 | 3801-3084 |
| 45.5 | 10 | 76 | 3801-2086 | 3801-3086 |

Woodruff Keyseat Cutter

螺纹柄半圆键

* Right Hand

* Extremely versatile profile milling cutters.

* Screwed BSW Shank.



| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 202 | 1/4 | 1/16 | 3802-0020 | 3802-1020 |
| 202-1/2 | 5/16 | 1/16 | 3802-0022 | 3802-1022 |
| 302-1/2 | 5/16 | 3/32 | 3802-0024 | 3802-1024 |
| 203 | 3/8 | 1/16 | 3802-0026 | 3802-1026 |
| 303 | 3/8 | 3/32 | 3802-0028 | 3802-1028 |
| 403 | 3/8 | 1/8 | 3802-0030 | 3802-1030 |
| 204 | 1/2 | 1/16 | 3802-0032 | 3802-1032 |
| 304 | 1/2 | 3/32 | 3802-0034 | 3802-1034 |
| 404 | 1/2 | 1/8 | 3802-0036 | 3802-1036 |
| 305 | 5/8 | 3/32 | 3802-0038 | 3802-1038 |
| 405 | 5/8 | 1/8 | 3802-0040 | 3802-1040 |
| 505 | 5/8 | 5/32 | 3802-0042 | 3802-1042 |
| 605 | 5/8 | 3/16 | 3802-0044 | 3802-1044 |
| 406 | 3/4 | 1/8 | 3802-0046 | 3802-1046 |
| 506 | 3/4 | 5/32 | 3802-0048 | 3802-1048 |
| 606 | 3/4 | 3/16 | 3802-0050 | 3802-1050 |
| 806 | 3/4 | 1/4 | 3802-0052 | 3802-1052 |
| 507 | 7/8 | 5/32 | 3802-0054 | 3802-1054 |
| 607 | 7/8 | 3/16 | 3802-0056 | 3802-1056 |
| 707 | 7/8 | 7/32 | 3802-0058 | 3802-1058 |
| 807 | 7/8 | 1/4 | 3802-0060 | 3802-1060 |

| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 608 | 1 | 3/16 | 3802-0062 | 3802-1062 |
| 708 | 1 | 7/32 | 3802-0064 | 3802-1064 |
| 808 | 1 | 1/4 | 3802-0066 | 3802-1066 |
| 1008 | 1 | 5/16 | 3802-0068 | 3802-1068 |
| 1208 | 1 | 3/8 | 3802-0070 | 3802-1070 |
| 609 | 1-1/8 | 3/16 | 3802-0072 | 3800-1072 |
| 709 | 1-1/8 | 7/32 | 3802-0074 | 3802-1074 |
| 809 | 1-1/8 | 1/4 | 3802-0076 | 3802-1076 |
| 1009 | 1-1/8 | 5/16 | 3802-0078 | 3802-1078 |
| 610 | 1-1/4 | 3/16 | 3802-0080 | 3802-1080 |
| 710 | 1-1/4 | 7/32 | 3802-0082 | 3802-1082 |
| 810 | 1-1/4 | 1/4 | 3802-0084 | 3802-1084 |
| 1010 | 1-1/4 | 5/16 | 3802-0086 | 3802-1086 |
| 1210 | 1-1/4 | 3/8 | 3802-0088 | 3802-1088 |
| 811 | 1-3/8 | 1/4 | 3802-0090 | 3802-1090 |
| 1011 | 1-3/8 | 5/16 | 3802-0092 | 3802-1092 |
| 1211 | 1-3/8 | 3/8 | 3802-0094 | 3802-1094 |
| 812 | 1-1/2 | 1/4 | 3802-0096 | 3802-1096 |
| 1012 | 1-1/2 | 5/16 | 3802-0098 | 3802-1098 |
| 1212 | 1-1/2 | 3/8 | 3802-0100 | 3802-1100 |

| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 10.5 | 2 | 57 | 3803-2012 | 3803-3012 |
| 10.5 | 2.5 | 57 | 3803-2014 | 3803-3014 |
| 10.5 | 3 | 57 | 3803-2016 | 3803-3016 |
| 13.5 | 2 | 57 | 3803-2018 | 3803-3018 |
| 13.5 | 2.5 | 57 | 3803-2020 | 3803-3020 |
| 13.5 | 3 | 57 | 3803-2022 | 3803-3022 |
| 13.5 | 4 | 57 | 3803-2024 | 3803-3024 |
| 16.5 | 2.5 | 57 | 3803-2026 | 3803-3026 |
| 16.5 | 3 | 57 | 3803-2028 | 3803-3028 |
| 16.5 | 4 | 57 | 3803-2030 | 3803-3030 |
| 16.5 | 5 | 57 | 3803-2032 | 3803-3032 |
| 19.5 | 3 | 57 | 3803-2034 | 3803-3034 |
| 19.5 | 4 | 57 | 3803-2036 | 3803-3036 |
| 19.5 | 5 | 57 | 3803-2038 | 3803-3038 |
| 22.5 | 4 | 63.5 | 3803-2040 | 3803-3040 |
| 22.5 | 5 | 63.5 | 3803-2042 | 3803-3042 |
| 22.5 | 6 | 63.5 | 3803-2044 | 3803-3044 |
| 25.5 | 5 | 70 | 3803-2046 | 3803-3046 |
| 25.5 | 6 | 70 | 3803-2048 | 3803-3048 |

| Model No | CUTTER DIA | WIDTH | STAGGERED ORDER No. | STRAIGHT ORDER No. |
|----------|------------|-------|---------------------|--------------------|
| 25.5 | 7 | 70 | 3803-2050 | 3803-3050 |
| 25.5 | 8 | 70 | 3803-2052 | 3803-3052 |
| 28.5 | 5 | 70 | 3803-2054 | 3803-3054 |
| 28.5 | 6 | 70 | 3803-2056 | 3803-3056 |
| 28.5 | 7 | 70 | 3803-2058 | 3803-3058 |
| 28.5 | 8 | 70 | 3803-2060 | 3803-3060 |
| 32.5 | 5 | 70 | 3803-2062 | 3803-3062 |
| 32.5 | 6 | 70 | 3803-2064 | 3803-3064 |
| 32.5 | 7 | 70 | 3803-2066 | 3803-3066 |
| 32.5 | 8 | 70 | 3803-2068 | 3803-3068 |
| 35.5 | 6 | 76 | 3803-2070 | 3803-3070 |
| 35.5 | 7 | 76 | 3803-2072 | 3803-3072 |
| 35.5 | 8 | 76 | 3803-2074 | 3803-3074 |
| 35.5 | 9 | 76 | 3803-2076 | 3803-3076 |
| 38.5 | 7 | 76 | 3803-2078 | 3803-3078 |
| 38.5 | 8 | 76 | 3803-2080 | 3803-3080 |
| 38.5 | 9 | 76 | 3803-2082 | 3803-3082 |
| 38.5 | 10 | 76 | 3803-2084 | 3803-3084 |
| 45.5 | 10 | 76 | 3803-2086 | 3803-3086 |

Woodruff Keyseat Cutters Sets

套装半圆键

* Straight or Staggered Tooth

* With wooden case



10Pcs Woodruff Keyseat Cutter Sets

10Pcs/Set: Includes

Size:

403,204,404,305,505,406,606,806,608,808

Staggered ORDER No.3800-0101

Straight ORDER No.3800-1101

Staggered TiN-Coated ORDER No.3800-0201

Straight UNCoated ORDER No.3800-1201

41Pcs Woodruff Keyseat Cutter Sets

41Pcs/Set: Includes

Size:

All standard size from No.202 to 1212

Staggered ORDER No.3800-0411

Straight ORDER No.3800-1411

Staggered TiN-Coated ORDER No.3800-0511

Straight UNCoated ORDER No.3800-1511

8Pcs Woodruff Keyseat Cutter Sets

8Pcs/Set: Includes

Size:

204,304,305,406,605,606,608,806

Staggered ORDER No.3800-0081

Straight ORDER No.3800-1081

Staggered TiN-Coated ORDER No.3800-0181

Straight UNCoated ORDER No.3800-1181

9Pcs Woodruff Keyseat Cutter Sets

9Pcs/Set: Includes

Size:

204,404,406,606,806,608,808,610,1210

Staggered ORDER No.3800-0091

Straight ORDER No.3800-1091

Staggered TiN-Coated ORDER No.3800-0191

Straight UNCoated ORDER No.3800-1191

23Pcs Woodruff Keyseat Cutter Sets

23Pcs/Set: Includes

Size:

203,303,403,204,304,404,406,506,606,806

608,708,808,1008,1208,610,710,810,1010

1210,812,1012,1212

Staggered ORDER No.3800-0231

Straight ORDER No.3800-1231

Staggered TiN-Coated ORDER No.3800-0331

Straight UNCoated ORDER No.3800-1331

Convex & Concave Shank Type Cutter

杆式凹凸半圆键

* Full radius design with a weldon shank



Convex Cutter



Concave Cutter

| RADIUS | CUTTER DIA | SHANK DIA | No.Of Flutes | OVERALL LENGTH | HSS ORDER No. |
|--------|------------|-----------|--------------|----------------|---------------|
| 1/32 | 3/4 | 1/2 | 6 | 3 | 3805-0010 |
| 1/16 | 3/4 | 1/2 | 6 | 3 | 3805-0015 |
| 3/32 | 7/8 | 1/2 | 6 | 3 | 3805-0020 |
| 1/8 | 1-1/4 | 3/4 | 6 | 3-1/2 | 3805-0025 |
| 5/32 | 1-5/16 | 3/4 | 6 | 3-1/2 | 3805-0030 |
| 3/16 | 1-3/8 | 3/4 | 6 | 3-1/2 | 3805-0035 |
| 1/4 | 1-1/2 | 3/4 | 4 | 4 | 3805-0040 |
| 5/16 | 1-3/4 | 3/4 | 4 | 4 | 3805-0045 |
| 3/8 | 1-7/8 | 3/4 | 4 | 4 | 3805-0050 |

| RADIUS | CUTTER DIA | SHANK DIA | No.Of Flutes | OVERALL LENGTH | HSS ORDER No. |
|--------|------------|-----------|--------------|----------------|---------------|
| 1/32 | 3/4 | 1/2 | 6 | 3 | 3806-0010 |
| 1/16 | 3/4 | 1/2 | 6 | 3 | 3806-0015 |
| 3/32 | 7/8 | 1/2 | 6 | 3 | 3806-0020 |
| 1/8 | 1-1/4 | 3/4 | 6 | 3-1/2 | 3806-0025 |
| 5/32 | 1-5/16 | 3/4 | 6 | 3-1/2 | 3806-0030 |
| 3/16 | 1-3/8 | 3/4 | 6 | 3-1/2 | 3806-0035 |
| 1/4 | 1-1/2 | 3/4 | 4 | 4 | 3806-0040 |
| 5/16 | 1-3/4 | 3/4 | 4 | 4 | 3806-0045 |
| 3/8 | 1-7/8 | 3/4 | 4 | 4 | 3806-0050 |

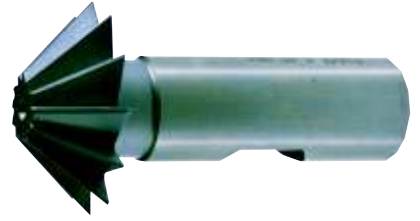
Sing Angle Cutters Shank Type

圆柄单角度铣刀

* For all dovetail work, production & tool room work.

* Right hand, 45° or 60°.

* Weldon flats, Straight Tooth.



| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|--------------|-----------|-------|-------|---------------------|----------------------|
| 1/2 | 1/8 | 3/8 | 2-1/8 | 45° | 3807-0012 | 3807-1012 |
| 3/4 | 3/16 | 3/8 | 2-1/8 | 45° | 3807-0034 | 3807-1034 |
| 1 | 5/16 | 1/2 | 2-1/2 | 45° | 3807-0100 | 3807-1100 |
| 1-1/2 | 1/2 | 3/4 | 2-3/4 | 45° | 3807-0112 | 3807-1112 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|--------------|-----------|-------|-------|---------------------|----------------------|
| 1/2 | 7/32 | 3/8 | 2-1/8 | 60° | 3807-3012 | 3807-1012 |
| 3/4 | 5/16 | 3/8 | 2-1/8 | 60° | 3807-3034 | 3807-1034 |
| 1 | 7/16 | 1/2 | 2-1/2 | 60° | 3807-3100 | 3807-1100 |
| 1-1/2 | 5/8 | 3/4 | 2-3/4 | 60° | 3807-3112 | 3807-1112 |

Double Angle Cutters Shank Type

圆柄双角度铣刀

* For all dovetail work, production & tool room work.

* Right hand, 60° or 90°.

* Weldon flats, Straight Tooth.



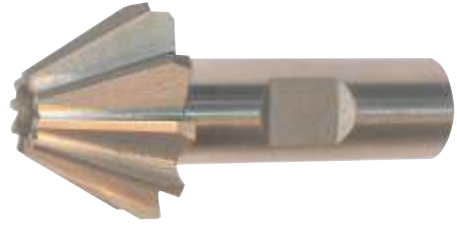
| 60° | | | | | | |
|-------|--------------|-----------|---------|-------|---------------------|----------------------|
| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 3/4 | 3/16 | 3/8 | 2-3/8 | 60° | 3819-0005 | 3819-1005 |
| 1 | 5/16 | 1/2 | 2-27/32 | 60° | 3819-0015 | 3819-1015 |
| 1-3/8 | 7/16 | 5/8 | 3-7/32 | 60° | 3819-0020 | 3819-1020 |
| 1-1/2 | 1/2 | 5/8 | 3-3/8 | 60° | 3819-0025 | 3819-1025 |
| 1-7/8 | 5/8 | 3/4 | 3-25/32 | 60° | 3819-0030 | 3819-1030 |
| 2-1/4 | 3/4 | 7/8 | 4-5/32 | 60° | 3819-0035 | 3819-1035 |

| 90° | | | | | | |
|-------|--------------|-----------|---------|-------|---------------------|----------------------|
| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
| 3/4 | 1/4 | 3/8 | 2-3/8 | 90° | 3819-0045 | 3819-1045 |
| 1 | 3/8 | 1/2 | 2-29/32 | 90° | 3819-0055 | 3819-1055 |
| 1-3/8 | 1/2 | 5/8 | 3-9/32 | 90° | 3819-0060 | 3819-1060 |
| 1-1/2 | 9/16 | 5/8 | 3-7/16 | 90° | 3819-0065 | 3819-1065 |
| 1-7/8 | 5/8 | 3/4 | 3-25/32 | 90° | 3819-0070 | 3819-1070 |
| 2-1/4 | 3/4 | 7/8 | 4-5/32 | 90° | 3819-0075 | 3819-1075 |

Face Angle Shank Type Cutters

小面单角度铣刀

- Use during angular machine operations on a wide variety of materials
- Available in 60° and 90° included angles
- Weldon Shank RH Cutter



| LARGE CUTTER DIA | SMALL CUTTER DIA | CUTTER W | SHANK DIA | OVERALL LENGTH | ANGLE | No. Of Flutes | UN-Coated ORDER No. | Tin-Coated ORDER No. | HSS-Co ORDER No. | HSS-Co Tin ORDER No. |
|------------------|------------------|----------|-----------|----------------|-------|---------------|---------------------|----------------------|------------------|----------------------|
| 3/4 | 5/16 | 17/32 | 3/8 | 2-3/32 | 60° | 8 | 3808-0034 | 3808-1034 | 3808-3034 | 3808-5034 |
| 1 | 3/8 | 11/16 | 1/2 | 2-13/32 | 60° | 8 | 3808-0100 | 3808-1100 | 3808-3100 | 3808-5100 |
| 1-1/4 | 1/2 | 25/32 | 5/8 | 2-21/32 | 60° | 10 | 3808-0114 | 3808-1114 | 3808-3114 | 3808-5114 |
| 1-5/8 | 5/8 | 1-1/16 | 3/4 | 3-1/16 | 60° | 10 | 3808-0158 | 3808-1158 | 3808-3158 | 3808-5158 |
| 3/4 | 5/16 | 3/8 | 3/8 | 1-15/16 | 90° | 8 | 3808-4034 | 3808-2034 | 3808-6034 | 3808-7034 |
| 1 | 3/8 | 7/16 | 1/2 | 2-3/16 | 90° | 8 | 3808-4100 | 3808-2100 | 3808-6100 | 3808-7100 |
| 1-1/4 | 1/2 | 17/32 | 5/8 | 2-13/32 | 90° | 10 | 3808-4114 | 3808-2114 | 3808-6114 | 3808-7114 |
| 1-5/8 | 5/8 | 11/16 | 3/4 | 2-11/16 | 90° | 10 | 3808-4158 | 3808-2158 | 3808-6158 | 3808-7158 |

Dovetail Angular Cutters

燕尾槽铣刀

* For dovetail and angle cutting.

* Right hand , 45° or 60° .



| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|--------------|-----------|-------|-------|---------------------|----------------------|
| 3/8 | 1/8 | 3/8 | 2-1/8 | 45° | 3814-0038 | 3814-0039 |
| 1/2 | 5/32 | 3/8 | 2-1/8 | 45° | 3814-0012 | 3814-0013 |
| 3/4 | 1/4 | 3/8 | 2-1/8 | 45° | 3814-0034 | 3814-0035 |
| 1-3/8 | 7/16 | 5/8 | 2-7/8 | 45° | 3814-0138 | 3814-0139 |
| 1-7/8 | 9/16 | 7/8 | 3-1/4 | 45° | 3814-0178 | 3814-0179 |
| 2-1/4 | 5/8 | 1 | 3-3/4 | 45° | 3814-0214 | 3814-0215 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|--------------|-----------|-------|-------|---------------------|----------------------|
| 3/8 | 3/16 | 3/8 | 2-1/8 | 60° | 3814-1038 | 3814-1039 |
| 1/2 | 1/4 | 3/8 | 2-1/8 | 60° | 3814-1012 | 3814-1013 |
| 3/4 | 5/16 | 3/8 | 2-1/8 | 60° | 3814-1034 | 3814-1035 |
| 1-3/8 | 9/16 | 5/8 | 2-7/8 | 60° | 3814-1138 | 3814-1139 |
| 1-7/8 | 13/16 | 7/8 | 3-1/4 | 60° | 3814-1178 | 3814-1179 |
| 2-1/4 | 1-1/16 | 1 | 3-3/4 | 60° | 3814-1214 | 3814-1215 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|--------------|-----------|-----|-------|---------------------|----------------------|
| 13 | 4 | 12 | 54 | 45° | 3816-0013 | 3816-0113 |
| 16 | 4 | 12 | 60 | 45° | 3816-0016 | 3816-0116 |
| 19 | 5 | 12 | 63 | 45° | 3816-0019 | 3816-0119 |
| 25 | 6.3 | 12 | 67 | 45° | 3816-0025 | 3816-0125 |
| 32 | 8 | 16 | 71 | 45° | 3816-0032 | 3816-0132 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|--------------|-----------|-----|-------|---------------------|----------------------|
| 13 | 5.8 | 12 | 54 | 60° | 3816-1013 | 3816-1113 |
| 16 | 6.3 | 12 | 60 | 60° | 3816-1016 | 3816-1116 |
| 19 | 8 | 12 | 63 | 60° | 3816-1019 | 3816-1119 |
| 25 | 10 | 12 | 67 | 60° | 3816-1025 | 3816-1125 |
| 32 | 12.5 | 16 | 71 | 60° | 3816-1032 | 3816-1132 |

Dovetail Angular Cutters Screwed Shank

螺纹柄燕尾槽铣刀

* For dovetail and angle cutting.

* Right hand , 45° or 60° .



| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|--------------|-----------|---------|-------|---------------------|----------------------|
| 1/2 | 1/8 | 1/2 | 2-5/8 | 45° | 3815-0010 | 3815-0110 |
| 5/8 | 5/32 | 1/2 | 2-5/8 | 45° | 3815-0012 | 3815-0112 |
| 3/4 | 7/32 | 1/2 | 2-5/8 | 45° | 3815-0014 | 3815-0114 |
| 7/8 | 1/4 | 1/2 | 2-11/16 | 45° | 3815-0016 | 3815-0116 |
| 1 | 5/16 | 1/2 | 2-3/4 | 45° | 3815-0018 | 3815-0118 |
| 1-1/8 | 11/32 | 5/8 | 2-15/16 | 45° | 3815-0020 | 3815-0120 |
| 1-1/4 | 11/32 | 5/8 | 2-15/16 | 45° | 3815-0022 | 3815-0122 |
| 1-3/8 | 3/8 | 1 | 3-1/16 | 45° | 3815-0024 | 3815-0124 |
| 1-1/2 | 13/32 | 1 | 3-3/32 | 45° | 3815-0026 | 3815-0126 |
| 1* | 15/32 | 1/2 | 2-3/4 | 55° | 3815-0028 | 3815-0128 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|--------|--------------|-----------|---------|-------|---------------------|----------------------|
| 1/2 | 5/32 | 1/2 | 2-1/2 | 60° | 3815-0032 | 3815-0132 |
| 5/8 | 7/32 | 1/2 | 2-5/8 | 60° | 3815-0034 | 3815-0134 |
| 3/4 | 9/32 | 1/2 | 2-21/32 | 60° | 3815-0036 | 3815-0136 |
| 7/8 | 3/8 | 1/2 | 2-21/32 | 60° | 3815-0038 | 3815-0138 |
| 1 | 15/32 | 1/2 | 2-3/4 | 60° | 3815-0040 | 3815-0140 |
| 1-1/8 | 1/2 | 5/8 | 2-7/8 | 60° | 3815-0042 | 3815-0142 |
| 1-1/4 | 17/32 | 5/8 | 2-15/16 | 60° | 3815-0044 | 3815-0144 |
| 1-3/8 | 9/16 | 1 | 3-1/4 | 60° | 3815-0046 | 3815-0146 |
| 1-1/2 | 5/8 | 1 | 3-5/16 | 60° | 3815-0048 | 3815-0148 |
| 1-1/2* | 15/32 | 1/2 | 2-3/4 | 55° | 3815-0030 | 3815-0130 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|--------------|-----------|------|-------|---------------------|----------------------|
| 13 | 3 | 12 | 63.5 | 45° | 3817-0013 | 3817-0113 |
| 16 | 4 | 12 | 66.5 | 45° | 3817-0016 | 3817-0116 |
| 19 | 5.5 | 12 | 66.5 | 45° | 3817-0019 | 3817-0119 |
| 22 | 6.5 | 12 | 68.5 | 45° | 3817-0022 | 3817-0122 |
| 25 | 7.5 | 12 | 70 | 45° | 3817-0025 | 3817-0125 |
| 28 | 8.5 | 16 | 71.5 | 45° | 3817-0028 | 3817-0128 |
| 32 | 8.5 | 16 | 74.5 | 45° | 3817-0032 | 3817-0132 |
| 35 | 9.5 | 25 | 79.5 | 45° | 3817-0035 | 3817-0135 |
| 38 | 10.5 | 25 | 80 | 45° | 3817-0038 | 3817-0138 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------|--------------|-----------|------|-------|---------------------|----------------------|
| 13 | 4 | 12 | 63.5 | 60° | 3817-1013 | 3817-1113 |
| 16 | 5.5 | 12 | 66.5 | 60° | 3817-1016 | 3817-1116 |
| 19 | 7 | 12 | 66.5 | 60° | 3817-1019 | 3817-1119 |
| 22 | 9.5 | 12 | 68.5 | 60° | 3817-1022 | 3817-1122 |
| 25 | 12 | 12 | 70 | 60° | 3817-1025 | 3817-1125 |
| 28 | 12.5 | 16 | 71.5 | 60° | 3817-1028 | 3817-1128 |
| 32 | 13.5 | 16 | 74.5 | 60° | 3817-1032 | 3817-1132 |
| 35 | 14.5 | 25 | 84 | 60° | 3817-1035 | 3817-1135 |
| 38 | 18 | 25 | 85.5 | 60° | 3817-1038 | 3817-1138 |

Tolerances: Dia: +0.25/-0.00

Inverted Dovetail Angular Cutters Screwed Shank

螺纹柄反燕尾槽铣刀

* For dovetail and angle cutting.

* Right hand , 45° or 60° .



| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|--------------|-----------|--------|-------|---------------------|----------------------|
| 1 | 5/16 | 1/2 | 2-3/4 | 45° | 3807-1113 | 3807-2113 |
| 1-1/2 | 13/32 | 1 | 3-5/32 | 45° | 3807-1114 | 3807-2114 |
| 13* | 3.7 | 12 | 58 | 45° | 3807-4200 | 3807-5200 |
| 16 | 4 | 12 | 66.5 | 45° | 3807-4201 | 3807-5201 |
| 19 | 5.5 | 12 | 66.5 | 45° | 3807-4202 | 3807-5202 |
| 20* | 5 | 12 | 63 | 45° | 3807-4240 | 3807-5240 |
| 22 | 7.5 | 12 | 68.5 | 45° | 3807-4203 | 3807-5203 |
| 25 | 8.5 | 12 | 70 | 45° | 3807-4204 | 3807-5204 |
| 28 | 8.5 | 16 | 71.5 | 45° | 3807-4205 | 3807-5205 |
| 32 | 8.5 | 16 | 74.5 | 45° | 3807-4206 | 3807-5206 |

| SIZE | CUTTER WIDTH | SHANK DIA | OAL | ANGLE | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-------|--------------|-----------|-------|-------|---------------------|----------------------|
| 1 | 15/32 | 1/2 | 2-3/4 | 60° | 3807-1115 | 3807-2115 |
| 1-1/2 | 5/8 | 1 | 3-3/8 | 60° | 3807-1116 | 3807-2116 |
| 13* | 4.3 | 12 | 58 | 60° | 3807-4241 | 3807-5241 |
| 16 | 5.5 | 12 | 66.5 | 60° | 3807-4207 | 3807-5201 |
| 19 | 7 | 12 | 66.5 | 60° | 3807-4208 | 3807-5202 |
| 20* | 8 | 12 | 63 | 60° | 3807-4242 | 3807-5242 |
| 22 | 12 | 12 | 68.5 | 60° | 3807-4209 | 3807-5203 |
| 25 | 12.5 | 12 | 70 | 60° | 3807-4210 | 3807-5204 |
| 28 | 13.5 | 16 | 71.5 | 60° | 3807-4211 | 3807-5205 |
| 32 | 13.5 | 16 | 74.5 | 60° | 3807-4212 | 3807-5206 |

Dovetail Angular Cutters Sets

套装燕尾槽铣刀



5Pcs/Set Dovetail Cutters

5pcs/set: Include

1/2, 3/4, 1-3/8, 1-7/8 and 2-1/4

1 Packed in wooden Case

Screwed Shank

45° UN-Coated Order No. 3818-0055 (Order No. 3823-0055)

45° Tin-Coated Order No. 3818-0155 (Order No. 3823-0155)

60° UN-Coated Order No. 3818-1055 (Order No. 3823-1055)

60° Tin-Coated Order No. 3818-1155 (Order No. 3823-1155)

5Pcs/Set Dovetail Cutters

5pcs/set: Include

3/8, 1/2, 3/4, 1-3/8 and 1-7/8

1 Packed in wooden Case

Screwed Shank

45° UN-Coated Order No. 3818-0050 (Order No. 3823-0050)

45° Tin-Coated Order No. 3818-0150 (Order No. 3823-0150)

60° UN-Coated Order No. 3818-1050 (Order No. 3823-1050)

60° Tin-Coated Order No. 3818-1150 (Order No. 3823-1152)

5Pcs/Set Dovetail Cutters

5pcs/set: Include

13, 16, 19, 25 and 32mm

1 Packed in wooden Case

Screwed Shank

45° UN-Coated Order No. 3818-0051 (Order No. 3823-0051)

45° Tin-Coated Order No. 3818-0151 (Order No. 3823-0151)

60° UN-Coated Order No. 3818-1051 (Order No. 3823-1051)

60° Tin-Coated Order No. 3818-1151 (Order No. 3823-1151)

T-Slot Cutters

T型槽铣刀



| BOLT SIZE | CUTTER DIA | CUTTER WIDTH | NECK DIA | SHANK DIA | OAL | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-----------|------------|--------------|----------|-----------|---------|---------------------|----------------------|
| 1/4 | 9/16 | 15/64 | 17/64 | 1/2 | 2-19/32 | 3810-0041 | 3810-1041 |
| 5/16 | 21/32 | 17/64 | 21/64 | 1/2 | 2-11/16 | 3810-0071 | 3810-1071 |
| 3/8 | 25/32 | 21/64 | 13/32 | 3/4 | 3-1/4 | 3810-0072 | 3810-1072 |
| 1/2 | 31/32 | 25/64 | 17/32 | 3/4 | 3-7/16 | 3810-0120 | 3810-1120 |
| 5/8 | 1-1/4 | 31/64 | 21/32 | 1 | 3-15/16 | 3810-0125 | 3810-1125 |
| 3/4 | 1-15/32 | 5/8 | 25/32 | 1 | 4-7/16 | 3810-0130 | 3810-1130 |
| 1 | 1-27/32 | 53/64 | 1-1/32 | 1-1/4 | 4-13/16 | 3810-0133 | 3810-1133 |
| 1-1/4 | 2-7/32 | 1-3/32 | 1-9/32 | 1-1/4 | 5-3/8 | 3810-0134 | 3810-1134 |
| 1-1/2 | 2-21/32 | 1-11/32 | 1-17/32 | 1-1/4 | 5-29/32 | 3810-0163 | 3810-1163 |

| BOLT SIZE | CUTTER DIA | CUTTER WIDTH | NECK DIA | SHANK DIA | OAL | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-----------|------------|--------------|----------|-----------|------|---------------------|----------------------|
| 5 | 11 | 3.5 | 4 | 10 | 53.5 | 3812-4050 | 3812-5050 |
| 6 | 12.5 | 6 | 5 | 10 | 57 | 3812-4060 | 3812-5060 |
| 8 | 16 | 8 | 7 | 10 | 62 | 3812-4080 | 3812-5080 |
| 10 | 18 | 8 | 8 | 12 | 70 | 3812-4100 | 3812-5100 |
| 12 | 21 | 9 | 10 | 12 | 74 | 3812-4120 | 3812-5120 |
| 14 | 25 | 11 | 12 | 16 | 82 | 3812-4140 | 3812-5140 |
| 16* | 29 | 12.5 | 13 | 16 | 85 | 3812-4160 | 3812-5160 |
| 18 | 32 | 14 | 15 | 16 | 90 | 3812-4180 | 3812-5180 |
| 20* | 36 | 15.5 | 17 | 25 | 101 | 3812-4200 | 3812-5200 |
| 22 | 40 | 18 | 19 | 25 | 108 | 3812-4220 | 3812-5220 |
| 24* | 45 | 20 | 21 | 25 | 112 | 3812-4240 | 3812-5240 |
| 28 | 50 | 22 | 25 | 32 | 124 | 3812-4280 | 3812-5280 |
| 32* | 57 | 24 | 28 | 32 | 131 | 3812-4320 | 3812-5320 |
| 36 | 60 | 28 | 30 | 32 | 139 | 3812-4360 | 3812-5360 |

Roughing T-Slot Cutters

波刃T型槽铣刀



| BOLT SIZE | CUTTER DIA | CUTTER WIDTH | NECK DIA | SHANK DIA | OAL | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-----------|------------|--------------|----------|-----------|---------|---------------------|----------------------|
| 1/2 | 31/32 | 25/64 | 17/32 | 3/4 | 3-7/16 | 3820-0120 | 3820-1120 |
| 5/8 | 1-1/4 | 31/64 | 21/32 | 1 | 3-15/16 | 3820-0125 | 3820-1125 |
| 3/4 | 1-15/32 | 5/8 | 25/32 | 1 | 4-7/16 | 3820-0130 | 3820-1130 |
| 1 | 1-27/32 | 53/64 | 1-1/32 | 1-1/4 | 4-13/16 | 3820-0133 | 3820-1133 |
| 1-1/4 | 2-7/32 | 1-3/32 | 1-9/32 | 1-1/4 | 5-3/8 | 3820-0134 | 3820-1134 |
| 1-1/2 | 2-21/32 | 1-11/32 | 1-17/32 | 1-1/4 | 5-29/32 | 3820-0163 | 3820-1163 |

T-Slot Cutters Screwed Shank Type

螺纹柄T型槽铣刀



| BOLT SIZE | CUTTER DIA | CUTTER WIDTH | NECK DIA | SHANK DIA | OAL | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-----------|------------|--------------|----------|-----------|------|---------------------|----------------------|
| 5 | 11 | 3.5 | 4 | 10 | 53.5 | 3812-0050 | 3812-1050 |
| 6 | 12.5 | 6 | 5 | 10 | 57 | 3812-0060 | 3812-1060 |
| 8 | 16 | 8 | 7 | 10 | 62 | 3812-0080 | 3812-1080 |
| 10 | 18 | 8 | 8 | 12 | 70 | 3812-0100 | 3812-1100 |
| 12 | 21 | 9 | 10 | 12 | 74 | 3812-0120 | 3812-1120 |
| 14 | 25 | 11 | 12 | 16 | 82 | 3812-0140 | 3812-1140 |
| 16* | 29 | 12.5 | 13 | 16 | 85 | 3812-0160 | 3812-1160 |
| 18 | 32 | 14 | 15 | 16 | 90 | 3812-0180 | 3812-1180 |
| 20* | 36 | 15.5 | 17 | 25 | 101 | 3812-0200 | 3812-1200 |
| 22 | 40 | 18 | 19 | 25 | 108 | 3812-0220 | 3812-1220 |
| 24* | 45 | 20 | 21 | 25 | 112 | 3812-0240 | 3812-1240 |
| 28 | 50 | 22 | 25 | 32 | 124 | 3812-0280 | 3812-1280 |
| 32* | 57 | 24 | 28 | 32 | 131 | 3812-0320 | 3812-1320 |
| 36 | 60 | 28 | 30 | 32 | 139 | 3812-0360 | 3812-1360 |

| BOLT SIZE | CUTTER DIA | CUTTER WIDTH | NECK DIA | SHANK DIA | OAL | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-----------|------------|--------------|----------|-----------|---------|---------------------|----------------------|
| 1/4 | 37/64 | 1/4 | 1/4 | 1/2 | 2-3/8 | 3812-0005 | 3812-1005 |
| 5/16 | 45/64 | 5/16 | 9/32 | 1/2 | 2-9/16 | 3812-0010 | 3812-1010 |
| 3/8 | 53/64 | 23/64 | 11/32 | 1/2 | 2-11/16 | 3812-0015 | 3812-1015 |
| 7/16 | 61/64 | 27/64 | 3/8 | 1/2 | 2-7/8 | 3812-0020 | 3812-1020 |
| 1/2 | 1-5/64 | 15/32 | 15/32 | 1/2 | 3 | 3812-0025 | 3812-1025 |
| 5/8 | 1-21/64 | 37/64 | 9/16 | 1 | 4 | 3812-0030 | 3812-1030 |
| 3/4 | 1-33/64 | 11/16 | 11/16 | 1 | 4-5/16 | 3812-0035 | 3812-1035 |
| 7/8 | 1-45/64 | 51/64 | 13/16 | 1 | 4-5/8 | 3812-0040 | 3812-1040 |
| 1 | 1-61/64 | 29/32 | 15/16 | 1 | 5 | 3812-0045 | 3812-1045 |

TAPER SHANK

| BOLT SIZE | CUTTER DIA | CUTTER WIDTH | OVERALL LENGTH | SHANK MT | No.OF TEETH | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-----------|------------|--------------|----------------|----------|-------------|---------------------|----------------------|
| 6 | 12.5 | 6 | 78 | 1 | 6 | 3813-0002 | 3813-1002 |
| 8 | 16 | 8 | 82 | 1 | 6 | 3813-0004 | 3813-1004 |
| 10 | 18 | 8 | 82 | 1 | 6 | 3813-0006 | 3813-1006 |
| 10 | 19 | 9 | 83 | 1 | 6 | 3813-0008 | 3813-1008 |
| 12 | 21 | 9 | 102 | 2 | 8 | 3813-0010 | 3813-1010 |
| 12 | 22 | 10 | 102 | 2 | 8 | 3813-0012 | 3813-1012 |
| 14 | 25 | 11 | 104 | 2 | 8 | 3813-0014 | 3813-1014 |
| 16 | 28 | 12 | 106 | 2 | 8 | 3813-0016 | 3813-1016 |
| 18 | 32 | 14 | 111 | 2 | 8 | 3813-0018 | 3813-1018 |
| 20 | 36 | 16 | 133 | 3 | 10 | 3813-0020 | 3813-1020 |
| 22 | 40 | 18 | 140 | 3 | 10 | 3813-0022 | 3813-1022 |
| 24 | 45 | 20 | 143 | 3 | 10 | 3813-0024 | 3813-1024 |
| 28 | 50 | 22 | 187 | 4 | 12 | 3813-0026 | 3813-1026 |

Long Shank T-Slot Cutters

加长柄T型槽铣刀

*Use for a wide variety of slotting and milling operations in both ferrous and non-ferrous materials

*For use on manual and CNC machines



| CUTTER DIA | CUTTER WIDTH | NECK DIA | SHANK DIA | OAL | UN-Coated ORDER No. |
|------------|--------------|----------|-----------|---------|---------------------|
| 1 | 1/8 | 7/16 | 5/8 | 4-15/16 | 3811-0002 |
| 1 | 3/16 | 7/16 | 5/8 | 4-15/16 | 3811-0004 |
| 1 | 1/4 | 7/16 | 5/8 | 4-15/16 | 3811-0006 |
| 1 | 5/16 | 7/16 | 5/8 | 4-15/16 | 3811-0008 |
| 1 | 3/8 | 7/16 | 5/8 | 4-15/16 | 3811-0010 |
| 1 | 1/2 | 7/16 | 5/8 | 4-15/16 | 3811-0012 |
| 1 | 5/8 | 7/16 | 5/8 | 4-15/16 | 3811-0014 |
| 1-1/4 | 1/8 | 19/32 | 3/4 | 5-1/8 | 3811-0016 |
| 1-1/4 | 3/16 | 19/32 | 3/4 | 5-1/8 | 3811-0018 |
| 1-1/4 | 1/4 | 19/32 | 3/4 | 5-1/8 | 3811-0020 |
| 1-1/4 | 5/16 | 19/32 | 3/4 | 5-1/8 | 3811-0022 |
| 1-1/4 | 3/8 | 19/32 | 3/4 | 5-1/8 | 3811-0024 |
| 1-1/4 | 1/2 | 19/32 | 3/4 | 5-1/8 | 3811-0026 |
| 1-1/4 | 5/8 | 19/32 | 3/4 | 5-1/8 | 3811-0028 |
| 1-1/2 | 1/8 | 23/32 | 1 | 5-5/16 | 3811-0030 |
| 1-1/2 | 3/16 | 23/32 | 1 | 5-5/16 | 3811-0032 |
| 1-1/2 | 1/4 | 23/32 | 1 | 5-5/16 | 3811-0034 |
| 1-1/2 | 5/16 | 23/32 | 1 | 5-5/16 | 3811-0036 |

| CUTTER DIA | CUTTER WIDTH | NECK DIA | SHANK DIA | OAL | UN-Coated ORDER No. |
|------------|--------------|----------|-----------|---------|---------------------|
| 1-1/2 | 3/8 | 23/32 | 1 | 5-5/16 | 3811-0038 |
| 1-1/2 | 1/2 | 23/32 | 1 | 5-5/16 | 3811-0040 |
| 1-1/2 | 5/8 | 23/32 | 1 | 5-5/16 | 3811-0042 |
| 2 | 3/16 | 25/32 | 1 | 5-11/16 | 3811-0044 |
| 2 | 1/4 | 25/32 | 1 | 5-11/16 | 3811-0046 |
| 2 | 5/16 | 25/32 | 1 | 5-11/16 | 3811-0048 |
| 2 | 3/8 | 25/32 | 1 | 5-11/16 | 3811-0050 |
| 2 | 1/2 | 25/32 | 1 | 5-11/16 | 3811-0052 |
| 2 | 5/8 | 25/32 | 1 | 5-11/16 | 3811-0054 |
| 2 | 3/4 | 25/32 | 1 | 5-11/16 | 3811-0056 |
| 2-1/2 | 1/4 | 29/32 | 1 | 6-5/8 | 3811-0058 |
| 2-1/2 | 5/16 | 29/32 | 1 | 6-5/8 | 3811-0060 |
| 2-1/2 | 3/8 | 29/32 | 1 | 6-5/8 | 3811-0062 |
| 2-1/2 | 1/2 | 29/32 | 1 | 6-5/8 | 3811-0064 |
| 2-1/2 | 5/8 | 29/32 | 1 | 6-5/8 | 3811-0066 |
| 2-1/2 | 3/4 | 29/32 | 1 | 6-5/8 | 3811-0068 |
| 2-1/2 | 7/8 | 29/32 | 1 | 6-5/8 | 3811-0070 |
| 2-1/2 | 1 | 29/32 | 1 | 6-5/8 | 3811-0072 |

T-Slot Cutters Sets

套装T型槽铣刀



6Pcs/set T-Slot Cutter

6Pcs/Set:Include

1/4, 5/16, 3/8, 1/2, 5/8, and 3/4

ORDER No.3822-0006

ORDER No.3822-1006(TIN-Coated)

7Pcs/set T-Slot Cutter

7Pcs/Set:Include

1/4, 5/16, 3/8, 1/2, 5/8, 3/4, and 1

ORDER No.3822-0007

ORDER No.3822-1007(TIN-Coated)

Taper Pipe Reamers

锥管铰刀

* Taper 3/4 Per foot.



| N.P.T. SIZE | Small end DIA | Large end DIA | Flute Length | OAL | Straight ORDER No. |
|-------------|---------------|---------------|--------------|--------|--------------------|
| 1/8 | .316 | .362 | 3/4 | 2-1/8 | 4017-0002 |
| 1/4 | .406 | .472 | 1-1/16 | 2-7/16 | 4017-0004 |
| 3/8 | .540 | .606 | 1-1/16 | 2-9/16 | 4017-0006 |
| 1/2 | .665 | .751 | 1-3/8 | 3-1/8 | 4017-0008 |
| 3/4 | .876 | .962 | 1-3/8 | 3-1/4 | 4017-0010 |
| 1 | 1.103 | 1.212 | 1-3/4 | 3-3/4 | 4017-0012 |
| 1-1/4 | 1.444 | 1.553 | 1-3/4 | 4 | 4017-0014 |
| 1-1/2 | 1.684 | 1.793 | 1-3/4 | 4-1/4 | 4017-0016 |
| 2 | 2.159 | 2.268 | 1-3/4 | 4-1/2 | 4017-0018 |
| 2-1/2 | 2.561 | 2.722 | 2-9/16 | 4-1/2 | 4017-0020 |

| N.P.T. SIZE | Small end DIA | Large end DIA | Flute Length | OAL | Spiral ORDER No. |
|-------------|---------------|---------------|--------------|--------|------------------|
| 1/8 | .316 | .362 | 3/4 | 2-1/8 | 4017-1002 |
| 1/4 | .406 | .472 | 1-1/16 | 2-7/16 | 4017-1004 |
| 3/8 | .540 | .606 | 1-1/16 | 2-9/16 | 4017-1006 |
| 1/2 | .665 | .751 | 1-3/8 | 3-1/8 | 4017-1008 |
| 3/4 | .876 | .962 | 1-3/8 | 3-1/4 | 4017-1010 |
| 1 | 1.103 | 1.212 | 1-3/4 | 3-3/4 | 4017-1012 |
| 1-1/4 | 1.444 | 1.553 | 1-3/4 | 4 | 4017-1014 |
| 1-1/2 | 1.684 | 1.793 | 1-3/4 | 4-1/4 | 4017-1016 |
| 2 | 2.159 | 2.268 | 1-3/4 | 4-1/2 | 4017-1018 |
| 2-1/2 | 2.561 | 2.722 | 2-9/16 | 4-1/2 | 4017-1020 |

Shell Reamers Arbors

套式铰刀接杆

mores Taper Shank



Straight Shank



| SIZE | FITS SHELL REAMER | OVERALL LENGTH | SHANK | | Straight ORDER No. | Taper ORDER No. |
|------|-------------------|----------------|-------|----------|--------------------|-----------------|
| | | | Taper | Straight | | |
| 4 | 21/32~25/32 | 9 | MT2 | 1/2 | 4040-0040 | 4040-1040 |
| 5 | 13/16~1-1/32 | 9-1/2 | MT2 | 5/8 | 4040-0050 | 4040-1050 |
| 6 | 1-1/16~1-9/32 | 10 | MT3 | 3/4 | 4040-0060 | 4040-1060 |
| 7 | 1-5/16~1-21/32 | 11 | MT3 | 7/8 | 4040-0070 | 4040-1070 |
| 8 | 1-11/16~2 | 12 | MT4 | 1-1/8 | 4040-0080 | 4040-1080 |
| 9 | 2-1/16~2-1/2 | 13 | MT4 | 1-3/8 | 4040-0090 | 4040-1090 |
| 10 | 2-9/16~3 | 14 | MT5 | 1-5/8 | 4040-0100 | 4040-1100 |
| 11 | 3-1/16~3-1/2 | 15 | MT5 | 2 | 4040-0110 | 4040-1110 |
| 12 | 3-9/16~4 | 16 | MT5 | 2-1/8 | 4040-0120 | 4040-1120 |

| SIZE | FITS SHELL REAMER | OVERALL LENGTH | SHANK Taper | Taper ORDER No. |
|------|-------------------|----------------|-------------|-----------------|
| | | | | |
| 13 | 23.6~30 | 250 | 3 | 4041-1013 |
| 16 | 30~35.5 | 261 | 3 | 4041-1016 |
| 19 | 35.5~42.5 | 298 | 4 | 4041-1019 |
| 22 | 42.5~50.8 | 312 | 4 | 4041-1022 |
| 27 | 50.8~60 | 359 | 5 | 4041-1027 |
| 32 | 60~71 | 376 | 5 | 4041-1032 |
| 40 | 71~85 | 396 | 5 | 4041-1040 |
| 50 | 85~101.6 | 416 | 5 | 4041-1050 |

Shell Reamers

套式铰刀

FEATURES:

- * Used with shell Reamer Arbors.
- * One size arbor fits a range of sizes.
- * More economical, particularly where larger size are concerned.



| SIZE | OVERALL LENGTH | HOLE DIA | Straight ORDER | Spiral ORDER |
|---------|----------------|----------|----------------|--------------|
| 3/4 | 2-1/4 | 3/8 | 4038-0002 | 4038-1002 |
| 13/16 | 2-1/2 | 1/2 | 4038-0004 | 4038-1004 |
| 7/8 | 2-1/2 | 1/2 | 4038-0006 | 4038-1006 |
| 15/16 | 2-1/2 | 1/2 | 4038-0008 | 4038-1008 |
| 1 | 2-1/2 | 1/2 | 4038-0010 | 4038-1010 |
| 1-1/16 | 2-3/4 | 5/8 | 4038-0012 | 4038-1012 |
| 1-1/8 | 2-3/4 | 5/8 | 4038-0014 | 4038-1014 |
| 1-3/16 | 2-3/4 | 5/8 | 4038-0016 | 4038-1016 |
| 1-1/4 | 2-3/4 | 5/8 | 4038-0018 | 4038-1018 |
| 1-5/16 | 3 | 3/4 | 4038-0020 | 4038-1020 |
| 1-3/8 | 3 | 3/4 | 4038-0022 | 4038-1022 |
| 1-7/16 | 3 | 3/4 | 4038-0024 | 4038-1024 |
| 1-1/2 | 3 | 3/4 | 4038-0026 | 4038-1026 |
| 1-9/16 | 3 | 3/4 | 4038-0028 | 4038-1028 |
| 1-5/8 | 3 | 3/4 | 4038-0030 | 4038-1030 |
| 1-11/16 | 3-1/2 | 1 | 4038-0032 | 4038-1032 |
| 1-3/4 | 3-1/2 | 1 | 4038-0034 | 4038-1034 |
| 1-13/16 | 3-1/2 | 1 | 4038-0036 | 4038-1036 |
| 1-7/8 | 3-1/2 | 1 | 4038-0038 | 4038-1038 |
| 1-15/16 | 3-1/2 | 1 | 4038-0040 | 4038-1040 |
| 2 | 3-1/2 | 1 | 4038-0042 | 4038-1042 |
| 2-1/16 | 3-3/4 | 1-1/4 | 4038-0044 | 4038-1044 |
| 2-1/8 | 3-3/4 | 1-1/4 | 4038-0046 | 4038-1046 |
| 2-3/16 | 3-3/4 | 1-1/4 | 4038-0048 | 4038-1048 |
| 2-1/4 | 3-3/4 | 1-1/4 | 4038-0050 | 4038-1050 |
| 2-5/16 | 3-3/4 | 1-1/4 | 4038-0052 | 4038-1052 |
| 2-3/8 | 3-3/4 | 1-1/4 | 4038-0054 | 4038-1054 |

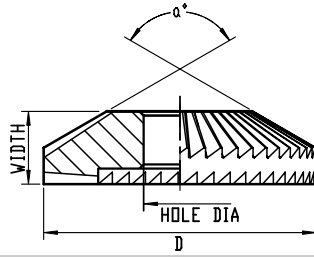
| SIZE | OVERALL LENGTH | HOLE DIA | Straight ORDER | Spiral ORDER |
|---------|----------------|----------|----------------|--------------|
| 2-7/16 | 3-3/4 | 1-1/4 | 4038-0056 | 4038-1056 |
| 2-1/2 | 3-3/4 | 1-1/4 | 4038-0058 | 4038-1058 |
| 2-9/16 | 4 | 1-1/2 | 4038-0060 | 4038-1060 |
| 2-5/8 | 4 | 1-1/2 | 4038-0062 | 4038-1062 |
| 2-11/16 | 4 | 1-1/2 | 4038-0064 | 4038-1064 |
| 2-3/4 | 4 | 1-1/2 | 4038-0066 | 4038-1066 |
| 2-13/16 | 4 | 1-1/2 | 4038-0068 | 4038-1068 |
| 2-7/8 | 4 | 1-1/2 | 4038-0070 | 4038-1070 |
| 2-15/16 | 4 | 1-1/2 | 4038-0072 | 4038-1072 |
| 3 | 4 | 1-1/2 | 4038-0074 | 4038-1074 |
| 3-1/16 | 4-1/2 | 1-3/4 | 4038-0076 | 4038-1076 |
| 3-1/8 | 4-1/2 | 1-3/4 | 4038-0078 | 4038-1078 |
| 3-3/16 | 4-1/2 | 1-3/4 | 4038-0080 | 4038-1080 |
| 3-1/4 | 4-1/2 | 1-3/4 | 4038-0082 | 4038-1082 |
| 3-5/16 | 4-1/2 | 1-3/4 | 4038-0084 | 4038-1084 |
| 3-3/8 | 4-1/2 | 1-3/4 | 4038-0086 | 4038-1086 |
| 3-7/16 | 4-1/2 | 1-3/4 | 4038-0088 | 4038-1088 |
| 3-1/2 | 4-1/2 | 1-3/4 | 4038-0090 | 4038-1090 |
| 3-9/16 | 5 | 2 | 4038-0092 | 4038-1092 |
| 3-5/8 | 5 | 2 | 4038-0094 | 4038-1094 |
| 3-11/16 | 5 | 2 | 4038-0096 | 4038-1096 |
| 3-3/4 | 5 | 2 | 4038-0098 | 4038-1098 |
| 3-13/16 | 5 | 2 | 4038-0100 | 4038-1100 |
| 3-7/8 | 5 | 2 | 4038-0102 | 4038-1102 |
| 3-15/16 | 5 | 2 | 4038-0104 | 4038-1104 |
| 4 | 5 | 2 | 4038-0106 | 4038-1106 |

| SIZE | OVERALL LENGTH | HOLE DIA | Straight ORDER | Spiral ORDER |
|------|----------------|----------|----------------|--------------|
| 20 | 40 | 10 | 4039-0002 | 4039-1002 |
| 21 | 40 | 10 | 4039-0004 | 4039-1004 |
| 22 | 40 | 10 | 4039-0006 | 4039-1006 |
| 23 | 40 | 10 | 4039-0008 | 4039-1008 |
| 24 | 45 | 13 | 4039-0010 | 4039-1010 |
| 25 | 45 | 13 | 4039-0012 | 4039-1012 |
| 26 | 45 | 13 | 4039-0014 | 4039-1014 |
| 27 | 45 | 13 | 4039-0016 | 4039-1016 |
| 28 | 45 | 13 | 4039-0018 | 4039-1018 |
| 29 | 45 | 13 | 4039-0020 | 4039-1020 |
| 30 | 45 | 13 | 4039-0022 | 4039-1022 |
| 31 | 50 | 16 | 4039-0024 | 4039-1024 |
| 32 | 50 | 16 | 4039-0026 | 4039-1026 |
| 34 | 50 | 16 | 4039-0028 | 4039-1028 |
| 35 | 50 | 16 | 4039-0030 | 4039-1030 |
| 36 | 56 | 19 | 4039-0032 | 4039-1032 |
| 37 | 56 | 19 | 4039-0034 | 4039-1034 |
| 38 | 56 | 19 | 4039-0036 | 4039-1036 |
| 40 | 56 | 19 | 4039-0038 | 4039-1038 |
| 42 | 56 | 22 | 4039-0040 | 4039-1040 |
| 44 | 63 | 22 | 4039-0042 | 4039-1042 |
| 45 | 63 | 22 | 4039-0044 | 4039-1044 |
| 46 | 63 | 22 | 4039-0046 | 4039-1046 |

| SIZE | OVERALL LENGTH | HOLE DIA | Straight ORDER | Spiral ORDER |
|------|----------------|----------|----------------|--------------|
| 47 | 63 | 22 | 4039-0048 | 4039-1048 |
| 48 | 63 | 22 | 4039-0050 | 4039-1050 |
| 50 | 63 | 22 | 4039-0052 | 4039-1052 |
| 52 | 71 | 27 | 4039-0054 | 4039-1054 |
| 55 | 71 | 27 | 4039-0056 | 4039-1056 |
| 58 | 71 | 27 | 4039-0058 | 4039-1058 |
| 60 | 71 | 27 | 4039-0060 | 4039-1060 |
| 62 | 80 | 32 | 4039-0062 | 4039-1062 |
| 65 | 80 | 32 | 4039-0064 | 4039-1064 |
| 68 | 80 | 32 | 4039-0066 | 4039-1066 |
| 70 | 80 | 32 | 4039-0068 | 4039-1068 |
| 72 | 90 | 40 | 4039-0070 | 4039-1070 |
| 75 | 90 | 40 | 4039-0072 | 4039-1072 |
| 78 | 90 | 40 | 4039-0074 | 4039-1074 |
| 80 | 90 | 40 | 4039-0076 | 4039-1076 |
| 82 | 90 | 40 | 4039-0078 | 4039-1078 |
| 85 | 90 | 40 | 4039-0080 | 4039-1080 |
| 88 | 100 | 50 | 4039-0082 | 4039-1082 |
| 90 | 100 | 50 | 4039-0084 | 4039-1084 |
| 92 | 100 | 50 | 4039-0086 | 4039-1086 |
| 95 | 100 | 50 | 4039-0088 | 4039-1088 |
| 98 | 100 | 50 | 4039-0090 | 4039-1090 |
| 100 | 100 | 50 | 4039-0092 | 4039-1092 |

Valve Seat Reamer

气门座铰刀



| SIZE D | WIDTH | HOLE DIA | 90° ORDER | 120° ORDER |
|-----------|-------|-------------|--------------|---------------|
| 30 | 13 | 14 | 3055-1300 | 3055-2300 |
| 32.5 | 13 | 14 | 3055-1325 | 3055-2325 |
| 35 | 14 | 14 | 3055-1350 | 3055-2350 |
| 37.5 | 14 | 14 | 3055-1375 | 3055-2375 |
| 40 | 14 | 14 | 3055-1400 | 3055-2400 |
| 42.5 | 15 | 14 | 3055-1425 | 3055-2425 |
| 45 | 15 | 14 | 3055-1450 | 3055-2450 |
| 47.5 | 15 | 14 | 3055-1475 | 3055-2475 |
| 50 | 15 | 14 | 3055-1500 | 3055-2500 |
| 52.5 | 16 | 14 | 3055-1525 | 3055-2525 |
| 55 | 16 | 14 | 3055-1550 | 3055-2550 |
| 57.5 | 16 | 14 | 3055-1575 | 3055-2575 |
| 60 | 17 | 14 | 3055-1600 | 3055-2600 |

13PCS/SETS HSS Valve Seat Reamer

13件套气门座铰刀

INCLUDES:

- Cutting Tools: 30, 32.5, 35, 37.5, 40, 42.5, 45, 47.5, 50, 52.5, 55, 57.5, 60mm
- Pilot: 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12mm
- Wrench: 1pc

包含如下配件:

- 铰刀体: 30, 32.5, 35, 37.5, 40, 42.5, 45, 47.5, 50, 52.5, 55, 57.5, 60mm
- 导向柱: 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12mm
- 扳手: 1件

90° Order No. 3055-2513

120° Order No. 3055-2514



5PCS/SETS HSS Valve Seat Reamer

5件套气门座铰刀

INCLUDES:

- Cutting Tools: 30, 32.5, 35, 37.5, 40mm
- Pilot: 6.5, 7, 7.5, 8, 8.5mm
- Wrench: 1pc

包含如下配件:

- 铰刀体: 32.5, 35, 37.5, 40, 42.5mm
- 导向柱: 6.5, 7, 7.5, 8, 8.5mm
- 扳手: 1件

90° Order No. 3055-3005

120° Order No. 3055-2005

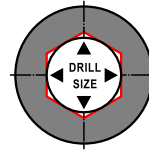


Hexageon Broaches

内六方推刀

- * For cutting hexagonal shaped holes in undersized round machined holes.
- * Used to re-cut a round hole into a hole having a hexagonal shape in a single pass through the workpiece.
- * This design allows broach to start in a plain round hole and cut a precisely shaped hexagonal hole in a single pass through the hole.

- * Designed to be used manually with an arbor pass to produce the hexagonal holes.
- * Well suited for use in a variety of ferrous and non-ferrous materials.



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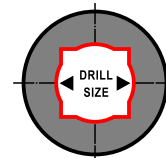
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| Size | Tolerance | BROACH Length | PILOT Dia | DRILL Size | Length of cut | | ORDER No. |
|------|-------------|---------------|-----------|------------|---------------|-------|-----------|
| | | | | | Mini | Max | |
| 6mm | .2367~.2377 | 6-1/2 | .2362 | 6mm | 1/4 | 3/4 | 5003-0012 |
| 7 | .2760~.2770 | 7-3/4 | .2756 | 7 | 3/8 | 1 | 5003-0014 |
| 8 | .3155~.3165 | 8-1/4 | .3150 | 8 | 3/8 | 1 | 5003-0016 |
| 10 | .3942~.3952 | 10 | .3937 | 10 | 1/2 | 1-3/8 | 5003-0018 |
| 12 | .4729~.4739 | 12-3/8 | .4724 | 12 | 1/2 | 1-3/8 | 5003-0020 |
| 14 | .5517~.5527 | 14-1/4 | .5512 | 14 | 1/2 | 1-1/2 | 5003-0022 |
| 16 | .6310~.6320 | 16-7/8 | .6230 | 16 | 5/8 | 1-5/8 | 5003-0024 |
| 18 | .7092~.7102 | 17 | .7087 | 18 | 5/8 | 1-5/8 | 5003-0026 |
| 20 | .7879~.7889 | 17-7/8 | .7874 | 20 | 5/8 | 1-5/8 | 5003-0028 |
| 22 | .8666~.8676 | 18-7/8 | .8661 | 22 | 5/8 | 1-5/8 | 5003-0030 |
| 24 | .9454~.9464 | 19-7/8 | .9449 | 24 | 5/8 | 1-5/8 | 5003-0032 |
| 25 | .9848~.9858 | 19-7/8 | .9842 | 25 | 5/8 | 1-5/8 | 5003-0034 |

| Size | Tolerance | BROACH Length | PILOT Dia | DRILL Size | Length of cut | | ORDER No. |
|-------|-------------|---------------|-----------|------------|---------------|-------|-----------|
| | | | | | Mini | Max | |
| 1/4 | .2505~.2515 | 6 | 1/4 | 1/4 | 1/4 | 3/4 | 5002-0022 |
| 9/32 | .2815~.2825 | 7-1/4 | 9/32 | 9/32 | 5/16 | 1 | 5002-0024 |
| 5/16 | .3130~.3140 | 7-3/4 | 5/16 | 5/16 | 3/8 | 1 | 5002-0026 |
| 11/32 | .3440~.3450 | 7-3/4 | 11/32 | 11/32 | 3/8 | 1-1/4 | 5002-0028 |
| 3/8 | .3755~.3765 | 8-1/2 | 3/8 | 3/8 | 3/8 | 1-1/4 | 5002-0030 |
| 13/32 | .4065~.4075 | 9-5/8 | 13/32 | 13/32 | 1/2 | 1-3/8 | 5002-0032 |
| 7/16 | .4385~.4395 | 10-5/8 | 7/16 | 7/16 | 1/2 | 1-3/8 | 5002-0034 |
| 15/32 | .4690~.4700 | 11-7/8 | 15/32 | 15/32 | 1/2 | 1-3/8 | 5002-0036 |
| 1/2 | .5005~.5015 | 11-7/8 | 1/2 | 1/2 | 1/2 | 1-3/8 | 5002-0038 |
| 9/16 | .5630~.5640 | 13-3/4 | 9/16 | 9/16 | 1/2 | 1-5/8 | 5002-0040 |
| 5/8 | .6260~.6270 | 16-1/4 | 5/8 | 5/8 | 5/8 | 2 | 5002-0042 |
| 11/16 | .6880~.6890 | 16-3/4 | 11/16 | 11/16 | 5/8 | 2 | 5002-0044 |
| 3/4 | .7510~.7520 | 17-1/4 | 3/4 | 3/4 | 5/8 | 2 | 5002-0046 |
| 7/8 | .8755~.8765 | 18-1/2 | 7/8 | 7/8 | 5/8 | 2 | 5002-0048 |
| 1 | 1.002~1.003 | 19-3/4 | 1 | 1 | 5/8 | 2 | 5002-0050 |

Hexageon Broaches

内六方推刀



INCH-ANSI4.2-1978

Metric-ANSI4.2-1978

| Size | Tolerance | BROACH Length | PILOT Dia | DRILL Size | Length of cut | | ORDER No. |
|------|-------------|---------------|-----------|------------|---------------|-------|-----------|
| | | | | | Mini | Max | |
| 6mm | .2367~.2377 | 7 | .2500 | 6.35 | 3/8 | 3/4 | 5005-0012 |
| 8 | .3155~.3165 | 8-3/16 | .3267 | 8.3 | 7/16 | 7/8 | 5005-0014 |
| 10 | .3942~.3952 | 10-7/8 | .4057 | 10.3 | 1/2 | 1 | 5005-0016 |
| 12 | .4729~.4739 | 12-1/2 | .4921 | 12.5 | 5/8 | 1-1/4 | 5005-0018 |
| 14 | .5517~.5527 | 14-7/8 | .5905 | 15 | 3/4 | 1-1/2 | 5005-0020 |
| 16 | .6310~.6320 | 16-13/16 | .6893 | 17 | 7/8 | 1-3/4 | 5005-0022 |
| 18 | .7092~.7102 | 18-1/2 | .7874 | 20 | 7/8 | 1-3/4 | 5005-0024 |
| 20 | .7879~.7889 | 18-7/8 | .8661 | 22 | 7/8 | 1-3/4 | 5005-0026 |
| 22 | .8666~.8676 | 23-1/4 | .9448 | 24 | 7/8 | 1-3/4 | 5005-0028 |
| 24 | .9454~.9464 | 24-9/16 | 1.0236 | 26 | 7/8 | 1-3/4 | 5005-0030 |
| 25 | .9848~.9858 | 24-9/16 | 1.0630 | 27 | 7/8 | 1-3/4 | 5005-0032 |

| Size | Tolerance | BROACH Length | PILOT Dia | DRILL Size | Length of cut | | ORDER No. |
|-------|-------------|---------------|-----------|------------|---------------|-------|-----------|
| | | | | | Mini | Max | |
| 1/4 | .2505~.2515 | 6-1/2 | .2656 | 17/64 | 1/4 | 3/4 | 5004-0012 |
| 9/32 | .2815~.2825 | 7-3/4 | .2969 | 19/64 | 5/16 | 1 | 5004-0014 |
| 5/16 | .3130~.3140 | 7-7/8 | .3281 | 21/64 | 3/8 | 1 | 5004-0016 |
| 11/32 | .3440~.3450 | 9-3/8 | .3594 | 23/64 | 3/8 | 1-1/4 | 5004-0018 |
| 3/8 | .3755~.3765 | 9-3/8 | .3906 | 25/64 | 3/8 | 1-1/4 | 5004-0020 |
| 13/32 | .4065~.4075 | 10-5/8 | .4219 | 27/64 | 1/2 | 1-3/8 | 5004-0022 |
| 7/16 | .4385~.4395 | 10-7/8 | .4531 | 29/64 | 1/2 | 1-3/8 | 5004-0024 |
| 15/32 | .4690~.4700 | 12 | .5000 | 1/2 | 1/2 | 1-3/8 | 5004-0026 |
| 1/2 | .5005~.5015 | 12 | .5312 | 17/32 | 1/2 | 1-3/8 | 5004-0028 |
| 9/16 | .5630~.5640 | 14-3/4 | .5938 | 19/32 | 1/2 | 1-1/2 | 5004-0030 |
| 5/8 | .6260~.6270 | 16-5/16 | .6562 | 21/32 | 5/8 | 1-5/8 | 5004-0032 |
| 11/16 | .6880~.6890 | 17-3/4 | .7500 | 3/4 | 5/8 | 1-5/8 | 5004-0034 |
| 3/4 | .7510~.7520 | 17-3/4 | .8125 | 13/16 | 5/8 | 1-5/8 | 5004-0036 |
| 7/8 | .8755~.8765 | 22-3/4 | .9395 | 15/16 | 1/2 | 2 | 5004-0038 |
| 1 | 1.002~1.003 | 24-1/8 | 1.0938 | 1-3/32 | 1/2 | 2 | 5004-0040 |

Keyway Broaches

键槽推刀

TECHNICAL DATA:

- * Manufactured from H.S.S.
- * Ground from solid.
- * Straight teeth on one edge of broach.
- * Made to cut either inch or millimeter size keyways.
- * Bright finish.

FEATURES:

- * Hardened and ground bars with cutting teeth on one side.
- * Sized and proportioned to afford a good cutting range and ample rigidity.
- * Replacement shims are also available.

APPLICATIONS:

- * Specialty tools designed for cutting keyways in machined holes.
- * Typically used manually with an arbor press to produce the keyways.
- * Well suited for use in a variety of ferrous and non-ferrous materials.



| BROACH Size | TYPE | TOLERANCES Dec.Squiv. | DIMENSIONS | SHIMS* REQ'D | LENGTH OF CUT | UN-Coated ORDER | Tin-Coated ORDER |
|-------------|--------|-----------------------|--------------|--------------|---------------|-----------------|------------------|
| 1/16 | A(I) | .0625~.0635 | 1/8x5 | 0 | 13/64~1-1/8 | 5000-0002 | 5000-1002 |
| 3/32 | A(I) | .0938~.0948 | 1/8x5 | 0 | 13/64~1-1/8 | 5000-0004 | 5000-1004 |
| 1/8 | A(I) | .1252~.1262 | 1/8x5 | 1 | 13/64~1-1/8 | 5000-0006 | 5000-1006 |
| 3/32 | B(II) | .0938~.0948 | 3/16x6-3/4 | 0 | 19/64~1-11/16 | 5000-0008 | 5000-1008 |
| 1/8 | B(II) | .1252~.1262 | 3/16x6-3/4 | 1 | 19/64~1-11/16 | 5000-0010 | 5000-1010 |
| 5/32 | B(II) | .1564~.1574 | 3/16x6-3/4 | 1 | 19/64~1-11/16 | 5000-0012 | 5000-1012 |
| 3/16 | B(III) | .1877~.1887 | 3/16x6-3/4 | 1 | 19/64~1-11/16 | 5000-0014 | 5000-1014 |
| 3/16 | C(III) | .1877~.1887 | 3/8x11-3/4 | 1 | 25/46~2-1/2 | 5000-0016 | 5000-1016 |
| 1/4 | C(III) | .2502~.2512 | 3/8x11-3/4 | 1 | 25/46~2-1/2 | 5000-0018 | 5000-1018 |
| 5/16 | C(III) | .3127~.3137 | 3/8x11-3/4 | 1 | 25/46~2-1/2 | 5000-0020 | 5000-1020 |
| 3/8 | C(III) | .3755~.3765 | 3/8x11-3/4 | 2 | 25/46~2-1/2 | 5000-0022 | 5000-1022 |
| 5/16 | D(IV) | .3127~.3137 | 9/16x13-7/8 | 1 | 1-6 | 5000-0024 | 5000-1024 |
| 3/8 | D(IV) | .3755~.3765 | 9/16x13-7/8 | 2 | 1-6 | 5000-0026 | 5000-1026 |
| 7/16 | D(IV) | .4380~.4390 | 9/16x13-7/8 | 2 | 1-6 | 5000-0028 | 5000-1028 |
| 1/2 | D(IV) | .5006~.5016 | 9/16x13-7/8 | 3 | 1-6 | 5000-0030 | 5000-1030 |
| 5/8 | E(V) | .6260~.6270 | 3/4x15-1/2 | 4 | 1-6 | 5000-0032 | 5000-1032 |
| 3/4 | E(V) | .7515~.7525 | 3/4x15-1/2 | 5 | 1-6 | 5000-0034 | 5000-1034 |
| 7/8 | F(VI) | .8765~.8775 | 1x20-1/4 | 6 | 1-6 | 5000-0036 | 5000-1036 |
| 1 | F(VI) | 1.0015~1.002 | 1x20-1/4 | 7 | 1-6 | 5000-0038 | 5000-1038 |
| 1-1/8 | | 1.1265~1.1275 | 1-1/8x20-1/4 | 8 | 1-6 | 5000-0040 | 5000-1040 |
| 1-1/4 | | 1.252~1.253 | 1-1/4x20-1/4 | 9 | 1-1/2~8 | 5000-0042 | 5000-1042 |
| 1-3/8 | | 1.377~1.378 | 1-3/8x20-1/4 | 10** | 1-1/2~8 | 5000-0044 | 5000-1044 |
| 1-1/2 | | 1.502~1.503 | 1-1/2x20-1/4 | 11** | 1-1/2~8 | 5000-0046 | 5000-1046 |

| BROACH Size | TYPE | TOLERANCES Dec.Squiv. | DIMENSIONS | SHIMS* REQ'D | LENGTH OF CUT | UN-Coated ORDER | Tin-Coated ORDER |
|-------------|------|-----------------------|-------------|--------------|---------------|-----------------|------------------|
| 2mm | A | .0782~.0791 | 1/8x5 | 0 | 13/64~1-1/8 | 5001-0002 | 5001-1002 |
| 3 | A | .1176~.1185 | 1/8x5 | 1 | 13/64~1-1/8 | 5001-0004 | 5001-1004 |
| 4 | B | .1569~.1579 | 1/4x6-3/4 | 1 | 19/64~1-11/16 | 5001-0006 | 5001-1006 |
| 5 | B | .1963~.1972 | 1/4x6-3/4 | 1 | 19/64~1-11/16 | 5001-0008 | 5001-1008 |
| 5 | C | .1963~.1972 | 3/8x11-3/4 | 1 | 25/46~2-1/2 | 5001-0010 | 5001-1010 |
| 6 | C | .2356~.2366 | 3/8x11-3/4 | 1 | 25/46~2-1/2 | 5001-0012 | 5001-1012 |
| 8 | C | .3143~.3155 | 3/8x11-3/4 | 2 | 25/46~2-1/2 | 5001-0014 | 5001-1014 |
| 10 | D | .3930~.3942 | 9/16x13-7/8 | 2 | 1-6 | 5001-0016 | 5001-1016 |
| 12 | D | .4716~.4730 | 9/16x13-7/8 | 2 | 1-6 | 5001-0018 | 5001-1018 |
| 14 | D | .5503~.5517 | 9/16x13-7/8 | 2 | 1-6 | 5001-0020 | 5001-1020 |
| 16 | E | .6290~.6304 | 3/4x15-1/2 | 3 | 1-6 | 5001-0022 | 5001-1022 |
| 18 | E | .7078~.7092 | 3/4x15-1/2 | 3 | 1-6 | 5001-0024 | 5001-1024 |
| 20 | F | .7864~.7880 | 1x20-1/4 | 3 | 1-6 | 5001-0026 | 5001-1026 |
| 22 | F | .8651~.8667 | 1x20-1/4 | 4 | 1-6 | 5001-0028 | 5001-1028 |
| 24 | F | .9434~.9455 | 1x20-1/4 | 5 | 1-6 | 5001-0030 | 5001-1030 |
| 25 | F | .9832~.9848 | 1x20-1/4 | 4 | 1-6 | 5001-0032 | 5001-1032 |

Keyway Bushing

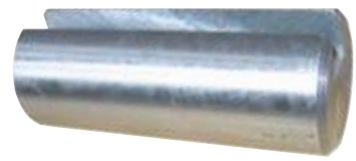
键槽推刀导套

- * Imperial or Metric size.
- * Specialty tools designed to be used in conjunction with standard keyway broaches for cutting.
- * These tools are hardened and ground cylinders with slots cut into one side.
- * Designed to be used manually with an arbor press and broaches to produce the keyways.
- * Designed to act as guides to position and direct the keyway broach through the cutting stroke.

Collared



Plain



"A" Bushings For "A" Broaches Collared Only

| Size | OVERALL LENGTH | ORDER # |
|------|----------------|-----------|
| 1/4 | 1-1/8 | 5050-0111 |
| 5/16 | 1-1/8 | 5050-0112 |
| 3/8 | 1-1/8 | 5050-0113 |
| 7/16 | 1-1/8 | 5050-0114 |
| 1/2 | 1-1/8 | 5050-0115 |

"B" Bushings For "B" Broaches Collared or Plain

| Size | OVERALL LENGTH | ORDER # |
|-------|----------------|-----------|
| 1/2 | 1-11/16 | 5050-0211 |
| 9/16 | 1-11/16 | 5050-0212 |
| 5/8 | 1-11/16 | 5050-0213 |
| 11/16 | 1-11/16 | 5050-0214 |
| 3/4 | 1-11/16 | 5050-0215 |
| 13/16 | 1-11/16 | 5050-0216 |
| 7/8 | 1-11/16 | 5050-0217 |

"E" Bushings For "E" Broaches Plain Only

| Size | OVERALL LENGTH | ORDER # |
|---------|----------------|-----------|
| 2-5/16 | 6 | 5050-0511 |
| 2-3/8 | 6 | 5050-0512 |
| 2-7/16 | 6 | 5050-0513 |
| 2-1/2 | 6 | 5050-0514 |
| 2-9/16 | 6 | 5050-0515 |
| 2-5/8 | 6 | 5050-0516 |
| 2-11/16 | 6 | 5050-0517 |
| 2-3/4 | 6 | 5050-0518 |
| 2-13/16 | 6 | 5050-0519 |
| 2-7/8 | 6 | 5050-0520 |
| 2-15/16 | 6 | 5050-0521 |
| 3 | 6 | 5050-0522 |

"C" Bushings For "C" Broaches Collared Only

| Size | OVERALL LENGTH | ORDER # |
|------|----------------|-----------|
| 17mm | 2-1/2 | 5051-0311 |
| 18 | 2-1/2 | 5051-0312 |
| 19 | 2-1/2 | 5051-0313 |
| 20 | 2-1/2 | 5051-0314 |
| 22 | 2-1/2 | 5051-0315 |
| 24 | 2-1/2 | 5051-0316 |
| 25 | 2-1/2 | 5051-0317 |
| 26 | 2-1/2 | 5051-0318 |
| 27 | 2-1/2 | 5051-0319 |
| 28 | 2-1/2 | 5051-0320 |
| 30 | 2-1/2 | 5051-0321 |
| 32 | 2-1/2 | 5051-0322 |
| 34 | 2-1/2 | 5051-0323 |
| 35 | 2-1/2 | 5051-0324 |
| 36 | 2-1/2 | 5051-0325 |

"C" Bushings For "C" Broaches Collared or Plain

| Size | OVERALL LENGTH | ORDER # |
|--------|----------------|-----------|
| 3/4 | 2-1/2 | 5050-0311 |
| 13/16 | 2-1/2 | 5050-0312 |
| 7/8 | 2-1/2 | 5050-0313 |
| 15/16 | 2-1/2 | 5050-0314 |
| 1 | 2-1/2 | 5050-0315 |
| 1-1/16 | 2-1/2 | 5050-0316 |
| 1-1/8 | 2-1/2 | 5050-0317 |
| 1-3/16 | 2-1/2 | 5050-0318 |
| 1-1/4 | 2-1/2 | 5050-0319 |
| 1-5/16 | 2-1/2 | 5050-0320 |
| 1-3/8 | 2-1/2 | 5050-0321 |
| 1-7/16 | 2-1/2 | 5050-0322 |
| 1-1/2 | 2-1/2 | 5050-0323 |
| 1-9/16 | 2-1/2 | 5050-0324 |

"A" Bushings For "A" Broaches Collared Only

| Size | OVERALL LENGTH | ORDER # |
|------|----------------|-----------|
| 6mm | 1-1/8 | 5051-0111 |
| 7 | 1-1/8 | 5051-0112 |
| 8 | 1-1/8 | 5051-0113 |
| 9 | 1-1/8 | 5051-0114 |
| 10 | 1-1/8 | 5051-0115 |

"B" Bushings For "B" Broaches Collared Only

| Size | OVERALL LENGTH | ORDER # |
|------|----------------|-----------|
| 11mm | .4331" | 5051-0211 |
| 12 | .4724 | 5051-0212 |
| 13 | 1-11/16 | 5051-0213 |
| 14 | 1-11/16 | 5051-0214 |
| 15 | 1-11/16 | 5051-0215 |
| 16 | 1-11/16 | 5051-0216 |
| 17 | 1-11/16 | 5051-0217 |
| 18 | 1-11/16 | 5051-0218 |
| 19 | 1-11/16 | 5051-0219 |

"E" Bushings For "E" Broaches Plain Only

| Size | OVERALL LENGTH | ORDER # |
|------|----------------|-----------|
| 52mm | 5 | 5051-0511 |
| 54 | 5 | 5051-0512 |
| 55 | 5 | 5051-0513 |
| 56 | 5 | 5051-0514 |
| 58 | 5 | 5051-0515 |
| 60 | 6 | 5051-0516 |
| 62 | 6 | 5051-0517 |
| 64 | 6 | 5051-0518 |
| 65 | 6 | 5051-0519 |
| 66 | 6 | 5051-0520 |
| 68 | 6 | 5051-0521 |
| 70 | 6 | 5051-0522 |
| 72 | 6 | 5051-0523 |

"D" Bushings For "D" Broaches Plain Only

| Size | OVERALL LENGTH | ORDER # |
|---------|----------------|-----------|
| 1-7/16 | 4 | 5050-0411 |
| 1-1/2 | 4 | 5050-0412 |
| 1-9/16 | 4 | 5050-0413 |
| 1-5/8 | 4 | 5050-0414 |
| 1-11/16 | 4 | 5050-0415 |
| 1-3/4 | 4 | 5050-0416 |
| 1-13/16 | 5 | 5050-0417 |
| 1-7/8 | 5 | 5050-0418 |
| 1-15/16 | 5 | 5050-0419 |
| 2 | 5 | 5050-0420 |
| 2-1/16 | 5 | 5050-0421 |
| 2-1/8 | 5 | 5050-0422 |
| 2-3/16 | 5 | 5050-0423 |
| 2-1/4 | 5 | 5050-0424 |
| 2-5/16 | 5 | 5050-0425 |
| 2-3/8 | 6 | 5050-0426 |
| 2-7/16 | 6 | 5050-0427 |
| 2-1/2 | 6 | 5050-0428 |
| 2-9/16 | 6 | 5050-0429 |
| 2-5/8 | 6 | 5050-0430 |
| 2-11/16 | 6 | 5050-0431 |
| 2-3/4 | 6 | 5050-0432 |
| 2-13/16 | 6 | 5050-0433 |
| 2-7/8 | 6 | 5050-0434 |
| 2-15/16 | 6 | 5050-0435 |
| 3 | 6 | 5050-0436 |

"D" Bushings For "D" Broaches Plain Only

| Size | OVERALL LENGTH | ORDER # |
|------|----------------|-----------|
| 32mm | 4 | 5051-0411 |
| 34 | 4 | 5051-0412 |
| 35 | 4 | 5051-0413 |
| 36 | 4 | 5051-0414 |
| 38 | 4 | 5051-0415 |
| 40 | 4 | 5051-0416 |
| 42 | 4 | 5051-0417 |
| 44 | 4 | 5051-0418 |
| 45 | 5 | 5051-0419 |
| 46 | 5 | 5051-0420 |
| 48 | 5 | 5051-0421 |
| 50 | 5 | 5051-0422 |
| 52 | 5 | 5051-0423 |
| 54 | 5 | 5051-0424 |
| 55 | 5 | 5051-0425 |
| 56 | 5 | 5051-0426 |

Broaches Shims

推刀垫片

Imperial or Metric size.

APPLICATIONS:

- * These shims are placed between the broach and bushing to permit the broach to cut deeper slots in succeeding passes through the hole.
- * For optimal performance and the best tool life the correct cutting setups and operations must be used and suitable lubricating / cutting oils or appropriate coolant fluids are recommended.



Imperial

| Size | Thickness | ORDER | |
|--------|-----------|-----------|--|
| | | # | |
| 1/8-A | .031 | 5052-0100 | |
| 1/8-B | .031 | 5052-0101 | |
| 5/32-B | .042 | 5052-0102 | |
| 3/16-B | .05 | 5052-0103 | |
| 3/16-C | .05 | 5052-0104 | |
| 1/4-C | .0625 | 5052-0105 | |
| 5/16-C | .055 | 5052-0106 | |
| 3/8-C | .0625 | 5052-0107 | |
| 5/16-D | .056 | 5052-0108 | |
| 3/8-D | .0625 | 5052-0109 | |
| 7/16-D | .056 | 5052-0110 | |
| 1/2-D | .0625 | 5052-0111 | |
| 5/8-E | .0625 | 5052-0112 | |
| 3/4-E | .0625 | 5052-0113 | |
| 7/8-F | .0625 | 5052-0114 | |
| 1-F | .0625 | 5052-0115 | |
| 1-1/8 | .0625 | 5052-0116 | |
| 1-1/4 | .0625 | 5052-0116 | |

Metric

| Size | Thickness | ORDER | |
|-------|-----------|-----------|--|
| | | # | |
| 3mmA | .031 | 5053-0102 | |
| 4B-1 | .038 | 5053-0104 | |
| 5B-1 | .050 | 5053-0106 | |
| 5C | .047 | 5053-0108 | |
| 6C-1 | .062 | 5053-0110 | |
| 8C-1 | .078 | 5053-0112 | |
| 10D-1 | .056 | 5053-0114 | |
| 12D-1 | .056 | 5053-0116 | |
| 14D-1 | .062 | 5053-0118 | |
| 16E-1 | .062 | 5053-0120 | |
| 18E-1 | .062 | 5053-0122 | |
| 20F-1 | .062 | 5053-0124 | |
| 22F-1 | .062 | 5053-0126 | |
| 24F | .062 | 5053-0128 | |
| 25F-1 | .062 | 5053-0130 | |
| | | | |
| | | | |

Metric Keyway Broaches Sets

公制套装键槽推刀

*All sets come with wooden case

*所有套装均木盒包装

No.60# Metric Set

The most common metric keyway combinations for small keyways and bores.



No.60#

| | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|--|-------------|----------------------------------|----------|
| | No.60# | 2A 3A | 6, 8, 10 |

No.70# Metric Set

Our most popular metric broach set.



No.70#

| | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|----|-------------|----------------------------------|----------------|
| | No.70# | 4B | 12, 14, 15, 16 |
| 5B | | | |
| 6C | | 18, 19, 20, 22, 24 | |
| 8C | | 25, 26, 28, 30 | |

No.80 Metric Set

The most common metric keyway combinations for medium-sized keyway and bores.

| | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|-----|-------------|----------------------------------|----------------|
| | No.80# | 10D | 32, 34, 35, 36 |
| 12D | | 38, 40, 42, 44 | |
| 14D | | 45, 46, 48, 50 | |

No.90# Metric Set

The most common metric keyway combinations for large keyway and bores.



No.90#

| | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|-----|-------------|----------------------------------|----------------|
| | No.90# | 16E | 52, 54, 55, 56 |
| 18E | | 58, 60, 62, 65 | |

No.110# Metric Set

The most common metric keyway combinations for large keyway and bores.

| | Keyway Size | Bushing DIA BORE SIZE | ORDER # |
|----------|-------------|---|-------------|
| | No.110# | 2A 3A | 6A, 8A, 10A |
| 4B 5B | | 12B, 14B, 15B, 16B | |
| 6C 8C | | 18C, 19C, 20C, 22C, 24C, 25C, 28C, 30C | |
| 10D | | 32D, 34D, 35D, 36D, 38D, 40D, 42D, 44D, | |
| 14D | | 45D, 46D, 48D, 50D | |
| 16E | | 52E, 54E, 55E, 56E, 58E, 60E, 62E | |
| 18E | | ,65E, 66E, 68E | |
| 20F | | 70F, 72F | |

| | Keyway Size | Bushing DIA BORE SIZE | ORDER # |
|----------|-------------|---|-------------|
| | No.110A | 2A 3A | 6A, 8A, 10A |
| 4B 5B | | 12B, 14B, 15B, 16B | |
| 6C 8C | | 18C, 19C, 20C, 22C, 24C, 25C, 26C, 28C, 30C | |
| 10D | | 32D, 34D, 35D, 36D, 38D, 40D, 42D, 44D, 45D | |
| 14D | | 46D, 48D, 50D | |
| 16E | | 52E, 54E, 55E, 56E, 58E, 60E, 62E, 65E | |
| 18E | | | |

Inch Keyway Broaches Sets

英制套装键槽推刀



No.00#

No.00# Precision Set

The most common keyway combinations for keyways and bores

| No.00# | Keyway Size | Bushing DIA BORE SIZE Collared Only | ORDER # |
|--------|-------------|-------------------------------------|---------------------------|
| | 1/16-A | 3/32-A | 1/4, 5/16, 3/8, 7/16, 1/2 |
| 1/8-A | | | |

No.10# Standard Set

| No.10# | Keyway Size | Bushing DIA BORE SIZE Collared Only | ORDER # |
|--------|-------------|-------------------------------------|--------------------|
| | 1/8-B | 3/16-B | 1/2, 5/8, 3/4, 7/8 |
| 1/4-C | 3/8-C | 1, 1-1/8, 1-1/4 1-3/8, 1-1/2 | |

No.10A Standard Set

Same No.10 Set, but for sixteenth-sized bores.

| No.10A | Keyway Size | Bushing DIA BORE SIZE Collared Only | ORDER # |
|--------|-------------|---|--------------------|
| | 1/8-B | 3/16-B | 9/16, 11/16, 13/16 |
| 1/4-C | 3/8-C | 15/16, 1-1/16, 1-3/16 1-5/16, 1-7/16, 1-9/16 | |

No.10-10A Combination Set

Combines 10 and 10A sets.

| No.10-10A | Keyway Size | Bushing DIA BORE SIZE Collared Only | ORDER # |
|-----------|-------------|---|--|
| | 1/8-B | 3/16-B | 1/2, 5/8, 3/4, 7/8 9/16, 11/16, 13/16 |
| 1/4-C | 3/8-C | 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16 | |

No.20# Combination Set

Same No.10-10A combination set, but adds a 5/16 keyway for 11 extra combinations.

| No.20# | Keyway Size | Bushing DIA BORE SIZE Collared Only | ORDER # |
|--------|-------------|---|---|
| | 1/8-B | 3/16-B | 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 |
| 1/4-C | 3/8-C | 15/16, 1, 1-1/16, 1-1/8, 5/16-C 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16 | |

No.40# Set

Same No.40A Set, but for sixteenth-sized bores.

| No.40# | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|--------|-------------|----------------------------------|--|
| | 5/16-D | 7/16-D | 1-7/16, 1-9/16, 1-11/16 1-13/16, 1-15/16, 2-3/16 2-7/16, 2-15/16 |
| 3/8-D | 1/2-D | | |

No.40A Set

The most common keyway combinations for keyways and bores

| No.40A | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|--------|-------------|----------------------------------|--|
| | 5/16-D | 7/16-D | 1-1/2, 1-5/8, 1-3/4, 1-7/8, 2, 2-1/8, 2-1/4, 2-1/2 |
| 3/8-D | 1/2-D | | |

No.40½A Heavy Duty Set

The most common keyway combinations for large keyway

| No.40½A | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|---------|-------------|----------------------------------|--|
| | 5/8-E | 3/4-E | 2-3/8, 2-1/2, 2-5/8 2-3/4, 2-7/8, 3 |
| 1/2-D | | | |

No.40½ Heavy Duty Set

Same No.40½ A Set, but for Sixteenth-sized bores.

| No.40½ | Keyway Size | Bushing DIA BORE SIZE Plain Only | ORDER # |
|--------|-------------|----------------------------------|---|
| | 5/8-E | 3/4-E | 2-5/16, 2-7/16, 2-9/16, 2-11/16, 2-13/16, 2-15/16, |
| 1/2-D | | | |

No.50# Heavy Duty Set

| No.50# | Keyway Size | Bushing DIA BORE SIZE Collared Only | ORDER # |
|--------|-------------|-------------------------------------|---|
| | 1/2-D | 5/8-E | 2, 2-1/16, 2-1/8, 2-3/16, 2-1/4 2-5/16, 2-3/8, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-7/8, 2-15/16, 3 |
| 3/4-E | | | |

No.100# Heavy Duty Combination Set

Includes all popular combinations without duplication.

Furnished in a handsome varnished wood box for convenient handling and storage, with broaches, slotted bushing, and shims.

Collared Bushings for B & C Style Broaches
Plain Bushings for D & E Style Broaches

| No.100# | Keyway Size | Bushing DIA BORE SIZE | ORDER # |
|---------|-------------|--|---|
| | 1/8-B | 3/16-B | 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 |
| 1/4-C | 5/16-C | 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-9/16 | |
| 3/8-D | 7/16-D | 1-7/16, 1-1/2, 1-9/16, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 1-15/16, 2, 2-1/16, 2-1/8, 2-3/16, 2-1/4 | 5100-0100 |
| 1/2-D | 5/8-E | 2-5/16, 2-3/8, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-7/8, 2-15/16, 3 | |
| 3/4-E | | | |

8PC Solid Hss Tool Bit Set

8件套高速钢车刀

- *包含常用几种车刀，主要用于有色金属或软质金属加工。
- *80° 偏头外圆车刀 (左)
- *80° 偏头外圆车刀 (右)
- *60° 直头外圆车刀 (左)
- *60° 直头外圆车刀 (右)
- *60° 外螺纹车刀
- *60° 内螺纹车刀
- *外切槽刀
- *内孔镗刀



| Size | Size | Metric | | Inch | |
|------|------|---------------------|----------------------|---------------------|----------------------|
| | | UN-Coated Order No. | Tin-Coated Order No. | UN-Coated Order No. | Tin-Coated Order No. |
| 4mm | 5/32 | 2662-1000 | 2662-1020 | 2662-2000 | 2662-2020 |
| 6mm | 1/4 | 2662-1001 | 2662-1021 | 2662-2001 | 2662-2021 |
| 8mm | 5/16 | 2662-1002 | 2662-1022 | 2662-2002 | 2662-2022 |
| 10mm | 3/8 | 2662-1003 | 2662-1023 | 2662-2003 | 2662-2023 |
| 12mm | 1/2 | 2662-1004 | 2662-1024 | 2662-2004 | 2662-2024 |
| 14mm | 9/16 | 2662-1005 | 2662-1025 | 2662-2005 | 2662-2025 |
| 16mm | 5/8 | 2662-1006 | 2662-1026 | 2662-2006 | 2662-2026 |
| 20mm | 3/4 | 2662-1007 | 2662-1027 | 2662-2007 | 2662-2027 |

6PC Internal Threading & Boring Tool Sets

6件套高速钢内孔镗刀和内螺纹车刀

- A:内孔镗刀
- B:内孔镗刀
- C:内孔镗刀
- D:60° 内螺纹车刀
- E:55° 内螺纹车刀

配套刀盒1件



| Size | Size | Metric | | Inch | |
|------|------|---------------------|----------------------|---------------------|----------------------|
| | | UN-Coated Order No. | Tin-Coated Order No. | UN-Coated Order No. | Tin-Coated Order No. |
| 4mm | 5/32 | 2663-1000 | 2663-1020 | 2663-2000 | 2663-2020 |
| 6mm | 1/4 | 2663-1001 | 2663-1021 | 2663-2001 | 2663-2021 |
| 8mm | 5/16 | 2663-1002 | 2663-1022 | 2663-2002 | 2663-2022 |
| 10mm | 3/8 | 2663-1003 | 2663-1023 | 2663-2003 | 2663-2023 |
| 12mm | 1/2 | 2663-1004 | 2663-1024 | 2663-2004 | 2663-2024 |

| SERIES # | BLADE SIZE | THICK NESS | LOCATING AREA | REG. LENGTH | UN-Coated ORDER No | Tin-Coated ORDER No |
|----------|------------|------------|---------------|-------------|--------------------|---------------------|
| F | 3-19/32 | 1/2 | 2-5/8 | 3-1/8 | 6010-0719 | 6010-1719 |
| F | 3-5/8 | 1/2 | 2-5/8 | 3-1/8 | 6010-0720 | 6010-1720 |
| F | 3-21/32 | 1/2 | 2-5/8 | 3-1/8 | 6010-0721 | 6010-1721 |
| F | 3-11/16 | 1/2 | 2-5/8 | 3-1/8 | 6010-0722 | 6010-1722 |
| F | 3-23/32 | 1/2 | 2-5/8 | 3-1/8 | 6010-0723 | 6010-1723 |
| F | 3-3/4 | 1/2 | 2-5/8 | 3-1/8 | 6010-0724 | 6010-1724 |
| F | 3-25/32 | 1/2 | 2-5/8 | 3-1/8 | 6010-0725 | 6010-1725 |
| F | 3-13/16 | 1/2 | 2-5/8 | 3-1/8 | 6010-0726 | 6010-1726 |
| F | 3-27/32 | 1/2 | 2-5/8 | 3-1/8 | 6010-0727 | 6010-1727 |
| F | 3-7/8 | 1/2 | 2-5/8 | 3-1/8 | 6010-0728 | 6010-1728 |
| G | 3-1/2 | 5/8 | 3-1/16 | 3-3/8 | 6010-0800 | 6010-1800 |
| G | 3-17/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0801 | 6010-1801 |
| G | 3-9/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0802 | 6010-1802 |
| G | 3-19/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0803 | 6010-1803 |
| G | 3-5/8 | 5/8 | 3-1/16 | 3-3/8 | 6010-0804 | 6010-1804 |
| G | 3-21/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0805 | 6010-1805 |
| G | 3-11/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0806 | 6010-1806 |
| G | 3-23/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0807 | 6010-1807 |
| G | 3-3/4 | 5/8 | 3-1/16 | 3-3/8 | 6010-0808 | 6010-1808 |
| G | 3-25/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0809 | 6010-1809 |
| G | 3-13/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0810 | 6010-1810 |
| G | 3-27/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0811 | 6010-1811 |
| G | 3-7/8 | 5/8 | 3-1/16 | 3-3/8 | 6010-0812 | 6010-1812 |
| G | 3-29/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0813 | 6010-1813 |
| G | 3-15/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0814 | 6010-1814 |
| G | 3-31/32 | 5/8 | 3-1/16 | 3-3/8 | 6010-0815 | 6010-1815 |
| G | 4 | 5/8 | 3-1/16 | 3-3/8 | 6010-0816 | 6010-1816 |
| G | 4-1/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0817 | 6010-1817 |
| G | 4-1/8 | 5/8 | 3-1/16 | 3-3/8 | 6010-0818 | 6010-1818 |
| G | 4-3/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0819 | 6010-1819 |

| SERIES # | BLADE SIZE | THICK NESS | LOCATING AREA | REG. LENGTH | UN-Coated ORDER No | Tin-Coated ORDER No |
|----------|------------|------------|---------------|-------------|--------------------|---------------------|
| G | 4-1/4 | 5/8 | 3-1/16 | 3-3/8 | 6010-0820 | 6010-1820 |
| G | 4-5/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0821 | 6010-1821 |
| G | 4-3/8 | 5/8 | 3-1/16 | 3-3/8 | 6010-0822 | 6010-1822 |
| G | 4-7/16 | 5/8 | 3-1/16 | 3-3/8 | 6010-0823 | 6010-1823 |
| G | 4-1/2 | 5/8 | 3-1/16 | 3-3/8 | 6010-0824 | 6010-1824 |
| H | 4 | 11/16 | 3-1/2 | 3-11/16 | 6010-0900 | 6010-1900 |
| H | 4-1/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0901 | 6010-1901 |
| H | 4-1/8 | 11/16 | 3-1/2 | 3-11/16 | 6010-0902 | 6010-1902 |
| H | 4-3/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0903 | 6010-1903 |
| H | 4-1/4 | 11/16 | 3-1/2 | 3-11/16 | 6010-0904 | 6010-1904 |
| H | 4-5/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0905 | 6010-1905 |
| H | 4-3/8 | 11/16 | 3-1/2 | 3-11/16 | 6010-0906 | 6010-1906 |
| H | 4-7/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0907 | 6010-1907 |
| H | 4-1/2 | 11/16 | 3-1/2 | 3-11/16 | 6010-0908 | 6010-1908 |
| H | 4-9/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0909 | 6010-1909 |
| H | 4-5/8 | 11/16 | 3-1/2 | 3-11/16 | 6010-0910 | 6010-1910 |
| H | 4-11/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0911 | 6010-1911 |
| H | 4-3/4 | 11/16 | 3-1/2 | 3-11/16 | 6010-0912 | 6010-1912 |
| H | 4-13/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0913 | 6010-1913 |
| H | 4-7/8 | 11/16 | 3-1/2 | 3-11/16 | 6010-0914 | 6010-1914 |
| H | 4-15/16 | 11/16 | 3-1/2 | 3-11/16 | 6010-0915 | 6010-1915 |
| H | 5 | 11/16 | 3-1/2 | 3-11/16 | 6010-0916 | 6010-1916 |
| H | 5-1/8 | 11/16 | 3-1/2 | 3-11/16 | 6010-0917 | 6010-1917 |
| H | 5-1/4 | 11/16 | 3-1/2 | 4-11/16 | 6010-0918 | 6010-1918 |
| H | 5-3/8 | 11/16 | 3-1/2 | 4-11/16 | 6010-0919 | 6010-1919 |
| H | 5-1/2 | 11/16 | 3-1/2 | 4-11/16 | 6010-0920 | 6010-1920 |
| H | 5-5/8 | 11/16 | 3-1/2 | 4-11/16 | 6010-0921 | 6010-1921 |
| H | 5-3/4 | 11/16 | 3-1/2 | 4-11/16 | 6010-0922 | 6010-1922 |
| H | 5-7/8 | 11/16 | 3-1/2 | 4-11/16 | 6010-0923 | 6010-1923 |
| H | 6 | 11/16 | 3-1/2 | 4-11/16 | 6010-0924 | 6010-1924 |

Hand Reamers

手用铰刀



| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|-------|--------------|----------------|--------------------|------------------|
| 13/64 | 1-7/8 | 3-3/4 | 4008-0002 | 4008-1002 |
| 7/32 | 1-7/8 | 3-3/4 | 4008-0004 | 4008-1004 |
| 15/64 | 2 | 4 | 4008-0006 | 4008-1006 |
| 1/4 | 2 | 4 | 4008-0008 | 4008-1008 |
| 17/64 | 2-1/8 | 4-1/4 | 4008-0010 | 4008-1010 |
| 9/32 | 2-1/8 | 4-1/4 | 4008-0012 | 4008-1012 |
| 19/64 | 2-1/4 | 4-1/2 | 4008-0014 | 4008-1014 |
| 5/16 | 2-1/4 | 4-1/2 | 4008-0016 | 4008-1016 |
| 11/32 | 2-3/8 | 4-3/4 | 4008-0018 | 4008-1018 |
| 3/8 | 2-1/2 | 5 | 4008-0020 | 4008-1020 |
| 13/32 | 2-5/8 | 5-1/4 | 4008-0022 | 4008-1022 |
| 7/16 | 2-3/4 | 5-1/2 | 4008-0024 | 4008-1024 |
| 15/32 | 2-7/8 | 5-3/4 | 4008-0026 | 4008-1026 |
| 1/2 | 3 | 6 | 4008-0028 | 4008-1028 |
| 17/32 | 3-1/8 | 6-1/4 | 4008-0030 | 4008-1030 |
| 9/16 | 3-1/4 | 6-1/2 | 4008-0032 | 4008-1032 |
| 19/32 | 3-3/8 | 6-3/4 | 4008-0034 | 4008-1034 |
| 5/8 | 3-1/2 | 7 | 4008-0036 | 4008-1036 |
| 21/32 | 3-11/16 | 7-3/8 | 4008-0038 | 4008-1038 |
| 43/64 | 3-7/8 | 7-3/4 | 4008-0040 | 4008-1040 |
| 11/16 | 3-7/8 | 7-3/4 | 4008-0042 | 4008-1042 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|--------|--------------|----------------|--------------------|------------------|
| 23/32 | 4-1/16 | 8-1/8 | 4008-0044 | 4008-1044 |
| 3/4 | 4-3/16 | 8-3/8 | 4008-0046 | 4008-1046 |
| 25/32 | 4-3/8 | 8-3/4 | 4008-0048 | 4008-1048 |
| 13/16 | 4-9/16 | 9-1/8 | 4008-0050 | 4008-1050 |
| 53/64 | 4-11/16 | 9-3/8 | 4008-0052 | 4008-1052 |
| 27/32 | 4-11/16 | 9-3/8 | 4008-0054 | 4008-1054 |
| 7/8 | 4-7/8 | 9-3/4 | 4008-0056 | 4008-1056 |
| 29/32 | 5 | 10 | 4008-0058 | 4008-1058 |
| 15/16 | 5-1/8 | 10-1/4 | 4008-0060 | 4008-1060 |
| 31/32 | 5-5/16 | 10-5/8 | 4008-0062 | 4008-1062 |
| 63/64 | 5-7/16 | 10-7/8 | 4008-0064 | 4008-1064 |
| 1 | 5-7/16 | 10-7/8 | 4008-0066 | 4008-1066 |
| 1-1/16 | 5-5/8 | 11-1/4 | 4008-0068 | 4008-1068 |
| 1-1/8 | 5-13/16 | 11-5/8 | 4008-0070 | 4008-1070 |
| 1-3/16 | 6 | 12 | 4008-0072 | 4008-1072 |
| 1-1/4 | 6-1/8 | 12-1/4 | 4008-0074 | 4008-1074 |
| 1-5/16 | 6-1/4 | 12-1/2 | 4008-0076 | 4008-1076 |
| 1-3/8 | 6-5/16 | 12-5/8 | 4008-0078 | 4008-1078 |
| 1-7/16 | 6-7/16 | 12-7/8 | 4008-0080 | 4008-1080 |
| 1-1/2 | 6-1/2 | 13 | 4008-0082 | 4008-1082 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 5 | 44 | 87 | 4009-0032 | 4009-1032 |
| 5.5 | 47 | 93 | 4009-0034 | 4009-1034 |
| 6 | 47 | 93 | 4009-0036 | 4009-1036 |
| 7 | 54 | 107 | 4009-0038 | 4009-1038 |
| 8 | 58 | 115 | 4009-0040 | 4009-1040 |
| 9 | 62 | 124 | 4009-0042 | 4009-1042 |
| 10 | 66 | 133 | 4009-0044 | 4009-1044 |
| 11 | 71 | 142 | 4009-0046 | 4009-1046 |
| 12 | 76 | 152 | 4009-0048 | 4009-1048 |
| 13 | 76 | 152 | 4009-0050 | 4009-1050 |
| 14 | 81 | 163 | 4009-0052 | 4009-1052 |
| 15 | 81 | 163 | 4009-0054 | 4009-1054 |
| 16 | 87 | 175 | 4009-0056 | 4009-1056 |
| 17 | 87 | 175 | 4009-0058 | 4009-1058 |
| 18 | 93 | 188 | 4009-0060 | 4009-1060 |
| 19 | 93 | 188 | 4009-0062 | 4009-1062 |
| 20 | 100 | 201 | 4009-0064 | 4009-1064 |
| 22 | 107 | 215 | 4009-0066 | 4009-1066 |
| 24 | 115 | 231 | 4009-0068 | 4009-1068 |
| 25 | 115 | 231 | 4009-0070 | 4009-1070 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 26 | 115 | 231 | 4009-0072 | 4009-1072 |
| 28 | 124 | 247 | 4009-0074 | 4009-1074 |
| 30 | 124 | 247 | 4009-0076 | 4009-1076 |
| 32 | 133 | 265 | 4009-0078 | 4009-1078 |
| 34 | 142 | 284 | 4009-0080 | 4009-1080 |
| 35 | 142 | 284 | 4009-0082 | 4009-1082 |
| 36 | 142 | 284 | 4009-0084 | 4009-1084 |
| 38 | 152 | 305 | 4009-0086 | 4009-1086 |
| 40 | 152 | 305 | 4009-0088 | 4009-1088 |
| 42 | 152 | 305 | 4009-0090 | 4009-1090 |
| 44 | 163 | 326 | 4009-0092 | 4009-1092 |
| 45 | 163 | 326 | 4009-0094 | 4009-1094 |
| 46 | 163 | 326 | 4009-0096 | 4009-1096 |
| 48 | 174 | 347 | 4009-0098 | 4009-1098 |
| 50 | 174 | 347 | 4009-0100 | 4009-1100 |
| 52 | 174 | 347 | 4009-0102 | 4009-1102 |
| 55 | 184 | 367 | 4009-0104 | 4009-1104 |
| 58 | 184 | 367 | 4009-0106 | 4009-1106 |
| 60 | 184 | 367 | 4009-0108 | 4009-1108 |

Parallel Shank Machine Reamers

直柄机用铰刀



| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|-------|--------------|----------------|--------------------|------------------|
| 11/64 | 1-1/8 | 4-1/2 | 4000-0002 | 4000-1002 |
| 3/16 | 1-1/8 | 4-1/2 | 4000-0004 | 4000-1004 |
| 13/64 | 1-1/4 | 5 | 4000-0006 | 4000-1006 |
| 7/32 | 1-1/4 | 5 | 4000-0008 | 4000-1008 |
| 15/64 | 1-1/2 | 6 | 4000-0010 | 4000-1010 |
| 1/4 | 1-1/2 | 6 | 4000-0012 | 4000-1012 |
| 17/64 | 1-1/2 | 6 | 4000-0014 | 4000-1014 |
| 9/32 | 1-1/2 | 6 | 4000-0016 | 4000-1016 |
| 19/64 | 1-1/2 | 6 | 4000-0018 | 4000-1018 |
| 5/16 | 1-1/2 | 6 | 4000-0020 | 4000-1020 |
| 21/64 | 1-1/2 | 6 | 4000-0022 | 4000-1022 |
| 11/32 | 1-1/2 | 6 | 4000-0024 | 4000-1024 |
| 23/64 | 1-1/2 | 7 | 4000-0026 | 4000-1026 |
| 3/8 | 1-3/4 | 7 | 4000-0028 | 4000-1028 |
| 25/64 | 1-3/4 | 7 | 4000-0030 | 4000-1030 |
| 13/32 | 1-3/4 | 7 | 4000-0032 | 4000-1032 |
| 27/64 | 1-3/4 | 7 | 4000-0034 | 4000-1034 |
| 7/16 | 1-3/4 | 7 | 4000-0036 | 4000-1036 |
| 29/64 | 1-3/4 | 7 | 4000-0038 | 4000-1038 |
| 15/32 | 1-3/4 | 7 | 4000-0040 | 4000-1040 |
| 31/64 | 1-3/4 | 8 | 4000-0042 | 4000-1042 |
| 1/2 | 2 | 8 | 4000-0044 | 4000-1044 |
| 33/64 | 2 | 8 | 4000-0046 | 4000-1046 |
| 17/32 | 2 | 8 | 4000-0048 | 4000-1048 |
| 35/64 | 2 | 8 | 4000-0050 | 4000-1050 |
| 9/16 | 2 | 8 | 4000-0052 | 4000-1052 |
| 37/64 | 2 | 8 | 4000-0054 | 4000-1054 |
| 19/32 | 2 | 8 | 4000-0056 | 4000-1056 |
| 39/64 | 2-1/4 | 8 | 4000-0058 | 4000-1058 |
| 5/8 | 2-1/4 | 9 | 4000-0060 | 4000-1060 |
| 41/64 | 2-1/4 | 9 | 4000-0062 | 4000-1062 |
| 21/32 | 2-1/4 | 9 | 4000-0064 | 4000-1064 |
| 43/64 | 2-1/4 | 9 | 4000-0066 | 4000-1066 |
| 11/16 | 2-1/4 | 9 | 4000-0068 | 4000-1068 |
| 45/64 | 2-1/4 | 9 | 4000-0070 | 4000-1070 |
| 23/32 | 2-1/4 | 9 | 4000-0072 | 4000-1072 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|---------|--------------|----------------|--------------------|------------------|
| 47/64 | 2-1/2 | 9 | 4000-0074 | 4000-1074 |
| 3/4 | 2-1/2 | 9-1/2 | 4000-0076 | 4000-1076 |
| 49/64 | 2-1/2 | 9-1/2 | 4000-0078 | 4000-1078 |
| 25/32 | 2-1/2 | 9-1/2 | 4000-0080 | 4000-1080 |
| 51/64 | 2-1/2 | 9-1/2 | 4000-0082 | 4000-1082 |
| 13/16 | 2-1/2 | 9-1/2 | 4000-0084 | 4000-1084 |
| 53/64 | 2-1/2 | 9-1/2 | 4000-0086 | 4000-1086 |
| 27/32 | 2-1/2 | 9-1/2 | 4000-0088 | 4000-1088 |
| 55/64 | 2-5/8 | 9-1/2 | 4000-0090 | 4000-1090 |
| 7/8 | 2-5/8 | 10 | 4000-0092 | 4000-1092 |
| 57/64 | 2-5/8 | 10 | 4000-0094 | 4000-1094 |
| 29/32 | 2-5/8 | 10 | 4000-0096 | 4000-1096 |
| 59/64 | 2-5/8 | 10 | 4000-0098 | 4000-1098 |
| 15/16 | 2-5/8 | 10 | 4000-0100 | 4000-1100 |
| 61/64 | 2-5/8 | 10 | 4000-0102 | 4000-1102 |
| 31/32 | 2-5/8 | 10 | 4000-0104 | 4000-1104 |
| 63/64 | 2-3/4 | 10 | 4000-0106 | 4000-1106 |
| 1 | 2-3/4 | 10-1/2 | 4000-0108 | 4000-1108 |
| 1-1/32 | 2-3/4 | 10-1/2 | 4000-0110 | 4000-1110 |
| 1-1/16 | 2-3/4 | 10-1/2 | 4000-0112 | 4000-1112 |
| 1-3/32 | 2-3/4 | 10-1/2 | 4000-0114 | 4000-1114 |
| 1-1/8 | 2-7/8 | 11 | 4000-0116 | 4000-1116 |
| 1-5/32 | 2-7/8 | 11 | 4000-0118 | 4000-1118 |
| 1-3/16 | 2-7/8 | 11 | 4000-0120 | 4000-1120 |
| 1-7/32 | 2-7/8 | 11 | 4000-0124 | 4000-1124 |
| 1-1/4 | 3 | 11-1/2 | 4000-0126 | 4000-1126 |
| 1-5/16 | 3 | 11-1/2 | 4000-0128 | 4000-1128 |
| 1-3/8 | 3-1/4 | 12 | 4000-0130 | 4000-1130 |
| 1-7/16 | 3-1/4 | 12 | 4000-0132 | 4000-1132 |
| 1-1/2 | 3-1/2 | 12-1/2 | 4000-0134 | 4000-1134 |
| 1-9/16 | 3-1/2 | 12-1/2 | 4000-0136 | 4000-1136 |
| 1-5/8 | 3-1/2 | 13 | 4000-0138 | 4000-1138 |
| 1-11/16 | 3-1/2 | 13 | 4000-0140 | 4000-1140 |
| 1-3/4 | 4 | 13-1/2 | 4000-0142 | 4000-1142 |
| 1-7/8 | 4 | 14 | 4000-0144 | 4000-1144 |
| 2 | 4 | 14 | 4000-0146 | 4000-1146 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 5.0 | 1-1/4 | 5 | 4004-0050 | 4004-1050 |
| 5.5 | 1-1/4 | 5 | 4004-0055 | 4004-1055 |
| 6.0 | 1-1/2 | 6 | 4004-0060 | 4004-1060 |
| 6.5 | 1-1/2 | 6 | 4004-0065 | 4004-1065 |
| 7.0 | 1-1/2 | 6 | 4004-0070 | 4004-1070 |
| 7.5 | 1-1/2 | 6 | 4004-0075 | 4004-1075 |
| 8.0 | 1-1/2 | 6 | 4004-0080 | 4004-1080 |
| 8.5 | 1-1/2 | 6 | 4004-0085 | 4004-1085 |
| 9.0 | 1-3/4 | 7 | 4004-0090 | 4004-1090 |
| 9.5 | 1-3/4 | 7 | 4004-0095 | 4004-1095 |
| 10.0 | 1-3/4 | 7 | 4004-0100 | 4004-1100 |
| 10.5 | 1-3/4 | 7 | 4004-0105 | 4004-1105 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 11.0 | 1-3/4 | 7 | 4004-0110 | 4004-1110 |
| 11.5 | 1-3/4 | 7 | 4004-0115 | 4004-1115 |
| 12.0 | 1-3/4 | 7 | 4004-0120 | 4004-1120 |
| 12.5 | 2 | 8 | 4004-0125 | 4004-1125 |
| 13.0 | 2 | 8 | 4004-0130 | 4004-1130 |
| 13.5 | 2 | 8 | 4004-0135 | 4004-1135 |
| 14.0 | 2 | 8 | 4004-0140 | 4004-1140 |
| 14.5 | 2 | 8 | 4004-0145 | 4004-1145 |
| 15.0 | 2 | 8 | 4004-0150 | 4004-1150 |
| 15.5 | 2-1/4 | 9 | 4004-0155 | 4004-1155 |
| 16.0 | 2-1/4 | 9 | 4004-0160 | 4004-1160 |
| 16.5 | 2-1/4 | 9 | 4004-0165 | 4004-1165 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 17.0 | 2-1/4 | 9 | 4004-0170 | 4004-1170 |
| 17.5 | 2-1/4 | 9 | 4004-0175 | 4004-1175 |
| 18.0 | 2-1/4 | 9-1/2 | 4004-0180 | 4004-1180 |
| 18.5 | 2-1/2 | 9-1/2 | 4004-0185 | 4004-1185 |
| 19.0 | 2-1/2 | 9-1/2 | 4004-0190 | 4004-1190 |
| 19.5 | 2-1/2 | 9-1/2 | 4004-0195 | 4004-1195 |
| 20.0 | 2-1/2 | 9-1/2 | 4004-0200 | 4004-1200 |
| 20.5 | 2-1/2 | 9-1/2 | 4004-0205 | 4004-1205 |
| 21.0 | 2-1/2 | 9-1/2 | 4004-0210 | 4004-1210 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 21.5 | 2-5/8 | 10 | 4004-0215 | 4004-1215 |
| 22.0 | 2-5/8 | 10 | 4004-0220 | 4004-1220 |
| 22.5 | 2-5/8 | 10 | 4004-0225 | 4004-1225 |
| 23.0 | 2-5/8 | 10 | 4004-0230 | 4004-1230 |
| 23.5 | 2-5/8 | 10 | 4004-0235 | 4004-1235 |
| 24.0 | 2-5/8 | 10 | 4004-0240 | 4004-1240 |
| 24.5 | 2-5/8 | 10 | 4004-0245 | 4004-1245 |
| 25.0 | 2-3/4 | 10-1/2 | 4004-0250 | 4004-1250 |

Taper Shank Machine Reamers

莫氏锥柄机用铰刀

*SIZE ØD H7



| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|-------|--------------|----------------|--------------------|------------------|
| 1/4 | 1-1/2 | 6×MT1 | 4010-0002 | 4010-1002 |
| 9/32 | 1-1/2 | 6×MT1 | 4010-0004 | 4010-1004 |
| 5/16 | 1-1/2 | 6×MT1 | 4010-0006 | 4010-1006 |
| 11/32 | 1-1/2 | 6×MT1 | 4010-0008 | 4010-1008 |
| 3/8 | 1-3/4 | 7×MT1 | 4010-0010 | 4010-1010 |
| 13/32 | 1-3/4 | 7×MT1 | 4010-0012 | 4010-1012 |
| 7/16 | 1-3/4 | 7×MT1 | 4010-0014 | 4010-1014 |
| 15/32 | 1-3/4 | 7×MT1 | 4010-0016 | 4010-1016 |
| 1/2 | 2 | 8×MT1 | 4010-0018 | 4010-1018 |
| 17/32 | 2 | 8×MT1 | 4010-0020 | 4010-1020 |
| 9/16 | 2 | 8×MT1 | 4010-0022 | 4010-1022 |
| 19/32 | 2 | 8×MT1 | 4010-0024 | 4010-1024 |
| 5/8 | 2-1/4 | 9×MT2 | 4010-0026 | 4010-1026 |
| 21/32 | 2-1/4 | 9×MT2 | 4010-0028 | 4010-1028 |
| 11/16 | 2-1/4 | 9×MT2 | 4010-0030 | 4010-1030 |
| 23/32 | 2-1/4 | 9×MT2 | 4010-0032 | 4010-1032 |
| 3/4 | 2-1/2 | 9-1/2×MT2 | 4010-0034 | 4010-1034 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|--------|--------------|----------------|--------------------|------------------|
| 25/32 | 2-1/2 | 9-1/2×MT2 | 4010-0036 | 4010-1036 |
| 13/16 | 2-1/2 | 9-1/2×MT2 | 4010-0038 | 4010-1038 |
| 27/32 | 2-1/2 | 9-1/2×MT2 | 4010-0040 | 4010-1040 |
| 7/8 | 2-5/8 | 10×MT2 | 4010-0042 | 4010-1042 |
| 29/32 | 2-5/8 | 10×MT2 | 4010-0044 | 4010-1044 |
| 15/16 | 2-5/8 | 10×MT3 | 4010-0046 | 4010-1046 |
| 31/32 | 2-5/8 | 10×MT3 | 4010-0048 | 4010-1048 |
| 1 | 2-3/4 | 10-1/2×MT3 | 4010-0050 | 4010-1050 |
| 1-1/16 | 2-3/4 | 10-1/2×MT3 | 4010-0052 | 4010-1052 |
| 1-1/8 | 2-7/8 | 11×MT3 | 4010-0054 | 4010-1054 |
| 1-3/16 | 2-7/8 | 11×MT3 | 4010-0056 | 4010-1056 |
| 1-1/4 | 3 | 11-1/2×MT4 | 4010-0058 | 4010-1058 |
| 1-5/16 | 3 | 11-1/2×MT4 | 4010-0060 | 4010-1060 |
| 1-3/8 | 3-1/4 | 12×MT4 | 4010-0062 | 4010-1062 |
| 1-7/16 | 3-1/4 | 12×MT4 | 4010-0064 | 4010-1064 |
| 1-1/2 | 3-1/4 | 12-1/2×MT4 | 4010-0066 | 4010-1066 |

DIN208 H7

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 5mm | 23 | 133×MT1 | 4010-0001 | 4010-1001 |
| 6 | 26 | 138×MT1 | 4010-0003 | 4010-1003 |
| 7 | 31 | 150×MT1 | 4010-0005 | 4010-1005 |
| 8 | 33 | 156×MT1 | 4010-0007 | 4010-1007 |
| 9 | 36 | 162×MT1 | 4010-0009 | 4010-1009 |
| 10 | 38 | 168×MT1 | 4010-0011 | 4010-1011 |
| 11 | 41 | 175×MT1 | 4010-0013 | 4010-1013 |
| 12 | 44 | 182×MT1 | 4010-0015 | 4010-1015 |
| 13 | 44 | 182×MT1 | 4010-0017 | 4010-1017 |
| 14 | 47 | 189×MT1 | 4010-0019 | 4010-1019 |
| 15 | 50 | 204×MT2 | 4010-0021 | 4010-1021 |
| 16 | 52 | 210×MT2 | 4010-0023 | 4010-1023 |
| 17 | 54 | 214×MT2 | 4010-0025 | 4010-1025 |
| 18 | 56 | 219×MT2 | 4010-0027 | 4010-1027 |
| 19 | 58 | 223×MT2 | 4010-0029 | 4010-1029 |
| 20 | 60 | 228×MT2 | 4010-0031 | 4010-1031 |
| 21 | 62 | 232×MT2 | 4010-0033 | 4010-1033 |

DIN208 H7

| SIZE | FLUTE LENGTH | OVERALL LENGTH | Straight ORDER No. | Spiral ORDER No. |
|------|--------------|----------------|--------------------|------------------|
| 22 | 64 | 237×MT2 | 4010-0035 | 4010-1035 |
| 23 | 66 | 241×MT2 | 4010-0037 | 4010-1037 |
| 24 | 68 | 268×MT2 | 4010-0039 | 4010-1039 |
| 25 | 68 | 268×MT2 | 4010-0041 | 4010-1041 |
| 26 | 70 | 273×MT3 | 4010-0043 | 4010-1043 |
| 27 | 71 | 277×MT3 | 4010-0045 | 4010-1045 |
| 28 | 71 | 277×MT3 | 4010-0047 | 4010-1047 |
| 29 | 73 | 281×MT3 | 4010-0049 | 4010-1049 |
| 30 | 73 | 281×MT3 | 4010-0051 | 4010-1051 |
| 31 | 75 | 285×MT3 | 4010-0053 | 4010-1053 |
| 32 | 77 | 317×MT4 | 4010-0055 | 4010-1055 |
| 34 | 78 | 321×MT4 | 4010-0057 | 4010-1057 |
| 35 | 78 | 321×MT4 | 4010-0059 | 4010-1059 |
| 36 | 79 | 325×MT4 | 4010-0061 | 4010-1061 |
| 38 | 81 | 329×MT4 | 4010-0063 | 4010-1063 |
| 40 | 81 | 329×MT4 | 4010-0065 | 4010-1065 |

Morse Hand Reamers

手用莫氏铰刀



Roughing 莫氏粗铰



Finishing 莫氏精铰

Roughing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | .2503 | .3673 | 2-1/4 | 3-3/4 | 4014-0102 |
| 1 | .3674 | .5170 | 3 | 5 | 4014-0104 |
| 2 | .5696 | .7444 | 3-1/2 | 6 | 4014-0106 |
| 3 | .7748 | .9881 | 4-1/4 | 7-1/4 | 4014-0108 |
| 4 | 1.0167 | 1.2893 | 5-1/4 | 8-1/2 | 4014-0110 |
| 5 | 1.4717 | 1.8005 | 6-1/4 | 9-3/4 | 4014-0112 |
| 6 | 2.1120 | 2.5550 | 8-1/2 | 12-1/4 | 4014-0114 |

Roughing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | 6.547 | 9.722 | 61 | 93 | 4015-0102 |
| 1 | 9.571 | 12.863 | 66 | 102 | 4015-0104 |
| 2 | 14.733 | 18.679 | 79 | 121 | 4015-0106 |
| 3 | 20.010 | 24.829 | 96 | 146 | 4015-0108 |
| 4 | 26.229 | 32.410 | 119 | 179 | 4015-0110 |
| 5 | 37.873 | 45.767 | 150 | 222 | 4015-0112 |
| 6 | 54.172 | 65.016 | 208 | 300 | 4015-0114 |

Finishing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | .2503 | .3673 | 2-1/4 | 3-3/4 | 4014-0202 |
| 1 | .3674 | .5170 | 3 | 5 | 4014-0204 |
| 2 | .5696 | .7444 | 3-1/2 | 6 | 4014-0206 |
| 3 | .7748 | .9881 | 4-1/4 | 7-1/4 | 4014-0208 |
| 4 | 1.0167 | 1.2893 | 5-1/4 | 8-1/2 | 4014-0210 |
| 5 | 1.4717 | 1.8005 | 6-1/4 | 9-3/4 | 4014-0212 |
| 6 | 2.1120 | 2.5550 | 8-1/2 | 12-1/4 | 4014-0214 |

Finishing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | 6.547 | 9.722 | 61 | 93 | 4015-0202 |
| 1 | 9.571 | 12.863 | 66 | 102 | 4015-0204 |
| 2 | 14.733 | 18.679 | 79 | 121 | 4015-0206 |
| 3 | 20.010 | 24.829 | 96 | 146 | 4015-0208 |
| 4 | 26.229 | 32.410 | 119 | 179 | 4015-0210 |
| 5 | 37.873 | 45.767 | 150 | 222 | 4015-0212 |
| 6 | 54.172 | 65.016 | 208 | 300 | 4015-0214 |

Morse Machine Reamers

机用莫氏锥柄莫氏铰刀



Roughing 莫氏粗铰



Finishing 莫氏精铰

Roughing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | .2503 | .3673 | 2-1/4 | 3-3/4×MT1 | 4014-0302 |
| 1 | .3674 | .5170 | 3 | 5×MT1 | 4014-0304 |
| 2 | .5696 | .7444 | 3-1/2 | 6×MT2 | 4014-0306 |
| 3 | .7748 | .9881 | 4-1/4 | 7-1/4×MT3 | 4014-0308 |
| 4 | 1.0167 | 1.2893 | 5-1/4 | 8-1/2×MT4 | 4014-0310 |
| 5 | 1.4717 | 1.8005 | 6-1/4 | 9-3/4×MT5 | 4014-0312 |
| 6 | 2.1120 | 2.5550 | 8-1/2 | 12-1/4×MT5 | 4014-0314 |

Roughing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | 6.547 | 9.722 | 61×6T | 137×MT1 | 4015-0302 |
| 1 | 9.571 | 12.863 | 66×7T | 142×MT1 | 4015-0304 |
| 2 | 14.733 | 18.679 | 79×8T | 173×MT2 | 4015-0306 |
| 3 | 20.010 | 24.829 | 96×8T | 212×MT3 | 4015-0308 |
| 4 | 26.229 | 32.410 | 119×10T | 263×MT4 | 4015-0310 |
| 5 | 37.873 | 45.767 | 150×12T | 331×MT5 | 4015-0312 |
| 6 | 54.172 | 65.016 | 208×14T | 389×MT5 | 4015-0314 |

Finishing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | .2503 | .3673 | 2-1/4 | 3-3/4×MT1 | 4014-0402 |
| 1 | .3674 | .5170 | 3 | 5×MT1 | 4014-0404 |
| 2 | .5696 | .7444 | 3-1/2 | 6×MT2 | 4014-0406 |
| 3 | .7748 | .9881 | 4-1/4 | 7-1/4×MT3 | 4014-0408 |
| 4 | 1.0167 | 1.2893 | 5-1/4 | 8-1/2×MT4 | 4014-0410 |
| 5 | 1.4717 | 1.8005 | 6-1/4 | 9-3/4×MT5 | 4014-0412 |
| 6 | 2.1120 | 2.5550 | 8-1/2 | 12-1/4×MT5 | 4014-0414 |

Finishing

| SIZE | SMALL END DIA | LARGE END DIA | FLUTE LENGTH | OVERALL LENGTH | ORDER No. |
|------|---------------|---------------|--------------|----------------|-----------|
| 0 | 6.547 | 9.722 | 61×6T | 137×MT1 | 4015-0402 |
| 1 | 9.571 | 12.863 | 66×7T | 142×MT1 | 4015-0404 |
| 2 | 14.733 | 18.679 | 79×8T | 173×MT2 | 4015-0406 |
| 3 | 20.010 | 24.829 | 96×8T | 212×MT3 | 4015-0408 |
| 4 | 26.229 | 32.410 | 119×10T | 263×MT4 | 4015-0410 |
| 5 | 37.873 | 45.767 | 150×12T | 331×MT5 | 4015-0412 |
| 6 | 54.172 | 65.016 | 208×14T | 389×MT5 | 4015-0414 |

Taper Shank Bridge Reamers

莫氏锥柄桥梁铰刀



| SIZE | FLUTE LENGTH | OVERALL LENGTH | MORSE TAPER | ORDER No. |
|-------|--------------|----------------|-------------|-----------|
| 17/64 | 2-3/4 | 5-1/2 | 1 | 4020-0010 |
| 19/64 | 2 | 5-1/4 | 1 | 4020-0020 |
| 5/16 | 4-3/8 | 8-1/4 | 1 | 4020-0030 |
| 11/32 | 4 | 7-1/4 | 1 | 4020-0040 |
| 3/8 | 4-3/8 | 8-1/4 | 2 | 4020-0050 |
| 13/32 | 4-3/8 | 8-1/4 | 2 | 4020-0060 |
| 27/64 | 4-3/8 | 8-1/4 | 2 | 4020-0070 |
| 7/16 | 4-3/8 | 8-1/4 | 2 | 4020-0080 |
| 15/32 | 5-1/8 | 9 | 2 | 4020-0090 |
| 1/2 | 5-1/8 | 9 | 2 | 4020-0100 |
| 17/32 | 5-1/8 | 9 | 2 | 4020-0110 |
| 9/16 | 5-1/8 | 9 | 2 | 4020-0120 |
| 19/32 | 6-1/8 | 10-7/8 | 2 | 4020-0130 |
| 5/8 | 6-3/8 | 10 | 2 | 4020-0140 |
| 21/32 | 7 | 12 | 2 | 4020-0150 |
| 11/16 | 7-1/8 | 11-3/4 | 2 | 4020-0160 |
| 11/16 | 7-1/8 | 11-3/4 | 3 | 4020-0170 |
| 23/32 | 7-1/8 | 11-3/4 | 3 | 4020-0180 |
| 3/4 | 7-3/8 | 12 | 3 | 4020-0190 |
| 25/32 | 7-3/8 | 12 | 3 | 4020-0200 |
| 13/16 | 7-3/8 | 12 | 3 | 4020-0210 |
| 7/8 | 7-3/8 | 12 | 3 | 4020-0220 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | MORSE TAPER | ORDER No. |
|---------|--------------|----------------|-------------|-----------|
| 15/16 | 7-3/8 | 12 | 3 | 4020-0230 |
| 1 | 7-3/8 | 12 | 3 | 4020-0240 |
| 1-1/32 | 7-1/2 | 12-1/4 | 4 | 4020-0250 |
| 1-1/16 | 7-3/8 | 12 | 3 | 4020-0260 |
| 1-3/32 | 6-13/16 | 11-1/2 | 3 | 4020-0270 |
| 1-1/8 | 7-3/8 | 12 | 3 | 4020-0280 |
| 1-5/32 | 7-1/2 | 11-1/2 | 3 | 4020-0290 |
| 1-3/16 | 7-3/8 | 12 | 3 | 4020-0300 |
| 1-1/4 | 7-3/8 | 13 | 4 | 4020-0310 |
| 1-5/16 | 7-3/8 | 13 | 4 | 4020-0320 |
| 1-3/8 | 7-3/8 | 13 | 4 | 4020-0330 |
| 1-7/16 | 7-3/8 | 13 | 4 | 4020-0340 |
| 1-15/32 | 6-7/8 | 13 | 4 | 4020-0350 |
| 1-1/2 | 7-3/8 | 13 | 4 | 4020-0360 |
| 1-9/16 | 7-3/8 | 13 | 4 | 4020-0370 |
| 1-5/8 | 7-3/8 | 13 | 4 | 4020-0380 |
| 1-11/16 | 7-3/8 | 13 | 4 | 4020-0390 |
| 1-3/4 | 7-3/8 | 13 | 4 | 4020-0400 |
| 1-13/16 | 7-3/8 | 13 | 4 | 4020-0410 |
| 1-7/8 | 7-3/8 | 13 | 4 | 4020-0420 |
| 1-15/16 | 7-3/8 | 13 | 4 | 4020-0430 |
| 2 | 7-3/8 | 13 | 4 | 4020-0440 |

DIN 311

| SIZE | FLUTE LENGTH | OVERALL LENGTH | MORSE TAPER | ORDER No. |
|------|--------------|----------------|-------------|-----------|
| 6.4 | 75 | 151 | 1 | 4021-0010 |
| 7.4 | 80 | 156 | 1 | 4021-0020 |
| 8 | 85 | 161 | 1 | 4021-0030 |
| 8.4 | 85 | 161 | 1 | 4021-0040 |
| 9 | 90 | 166 | 1 | 4021-0050 |
| 9.5 | 90 | 166 | 1 | 4021-0060 |
| 10 | 95 | 171 | 1 | 4021-0070 |
| 11 | 100 | 176 | 1 | 4021-0080 |
| 12 | 105 | 199 | 2 | 4021-0090 |
| 13 | 105 | 199 | 2 | 4021-0100 |
| 14 | 115 | 209 | 2 | 4021-0110 |
| 15 | 125 | 219 | 2 | 4021-0120 |
| 16 | 135 | 229 | 2 | 4021-0130 |
| 17 | 135 | 251 | 3 | 4021-0140 |
| 18 | 145 | 261 | 3 | 4021-0150 |
| 19 | 145 | 261 | 3 | 4021-0160 |
| 20 | 155 | 271 | 3 | 4021-0170 |
| 21 | 155 | 271 | 3 | 4021-0180 |
| 22 | 165 | 281 | 3 | 4021-0190 |

| SIZE | FLUTE LENGTH | OVERALL LENGTH | MORSE TAPER | ORDER No. |
|------|--------------|----------------|-------------|-----------|
| 23 | 165 | 281 | 3 | 4021-0200 |
| 24 | 180 | 296 | 3 | 4021-0210 |
| 25 | 180 | 296 | 3 | 4021-0220 |
| 26 | 180 | 296 | 3 | 4021-0230 |
| 27 | 195 | 311 | 3 | 4021-0240 |
| 28 | 195 | 311 | 3 | 4021-0250 |
| 29 | 195 | 311 | 3 | 4021-0260 |
| 30 | 195 | 311 | 3 | 4021-0270 |
| 31 | 210 | 326 | 3 | 4021-0280 |
| 32 | 210 | 354 | 4 | 4021-0290 |
| 33 | 210 | 354 | 4 | 4021-0300 |
| 34 | 220 | 364 | 4 | 4021-0310 |
| 35 | 220 | 364 | 4 | 4021-0320 |
| 36 | 220 | 364 | 4 | 4021-0330 |
| 37 | 220 | 364 | 4 | 4021-0340 |
| 38 | 230 | 374 | 4 | 4021-0350 |
| 39 | 230 | 374 | 4 | 4021-0360 |
| 40 | 230 | 374 | 4 | 4021-0370 |

Three Shank Bridge Reamers

三方柄桥梁铰刀



| SIZE | POINT DIA | FLUTE LENGTH | OVERALL LENGTH | SHANK DIA | ORDER No. |
|--------|-----------|--------------|----------------|-----------|-----------|
| 1/4 | 5/32 | 2-1/2 | 4-3/8 | 5/16 | 4022-0010 |
| 5/16 | 3/16 | 2-3/4 | 4-5/8 | 3/8 | 4022-0012 |
| 3/8 | 1/4 | 2-3/4 | 4-5/8 | 13/32 | 4022-0014 |
| 7/16 | 1/4 | 3-1/2 | 5-3/8 | 1/2 | 4022-0016 |
| 1/2 | 9/32 | 4 | 5-7/8 | 1/2 | 4022-0018 |
| 9/16 | 11/32 | 4 | 5-7/8 | 1/2 | 4022-0020 |
| 5/8 | 11/32 | 4-1/2 | 6-3/8 | 1/2 | 4022-0022 |
| 21/32 | 3/8 | 4-1/2 | 6-3/8 | 1/2 | 4022-0024 |
| 11/16 | 3/8 | 4-1/2 | 6-3/8 | 1/2 | 4022-0026 |
| 3/4 | 13/32 | 5 | 6-7/8 | 1/2 | 4022-0028 |
| 25/32 | 13/32 | 5 | 6-7/8 | 1/2 | 4022-0030 |
| 13/16 | 7/16 | 5 | 6-7/8 | 1/2 | 4022-0032 |
| 7/8 | 15/32 | 5 | 6-7/8 | 1/2 | 4022-0034 |
| 15/16 | 9/16 | 5 | 6-7/8 | 1/2 | 4022-0036 |
| 1 | 19/32 | 5 | 6-7/8 | 1/2 | 4022-0038 |
| 1-1/16 | 5/8 | 5 | 6-7/8 | 1/2 | 4022-0040 |

Expansion Machine Reamers

前段可涨机用铰刀



| SIZE | FLUTE LENGTH | OVERALL LENGTH | SHANK DIA | ORDER No. | MORSE TAPER | ORDER No. |
|---------|--------------|----------------|-----------|-----------|-------------|-----------|
| 3/8 | 3/4 | 7 | 5/16 | 4030-0002 | 1 | 4031-0002 |
| 13/32 | 3/4 | 7 | 5/16 | 4030-0004 | 1 | 4031-0004 |
| 7/16 | 7/8 | 7 | 3/8 | 4030-0006 | 1 | 4031-0006 |
| 15/32 | 7/8 | 7 | 3/8 | 4030-0008 | 1 | 4031-0008 |
| 1/2 | 1 | 8 | 7/16 | 4030-0010 | 1 | 4031-0010 |
| 17/32 | 1 | 8 | 7/16 | 4030-0012 | 1 | 4031-0012 |
| 9/16 | 1-1/8 | 8 | 7/16 | 4030-0014 | 1 | 4031-0014 |
| 19/32 | 1-1/8 | 8 | 7/16 | 4030-0016 | 1 | 4031-0016 |
| 5/8 | 1-1/4 | 9 | 9/16 | 4030-0018 | 2 | 4031-0018 |
| 21/32 | 1-1/4 | 9 | 9/16 | 4030-0020 | 2 | 4031-0020 |
| 11/16 | 1-1/4 | 9 | 9/16 | 4030-0022 | 2 | 4031-0022 |
| 23/32 | 1-1/4 | 9 | 9/16 | 4030-0024 | 2 | 4031-0024 |
| 3/4 | 1-3/8 | 9-1/2 | 5/8 | 4030-0026 | 2 | 4031-0026 |
| 25/32 | 1-3/8 | 9-1/2 | 5/8 | 4030-0028 | 2 | 4031-0028 |
| 13/16 | 1-3/8 | 9-1/2 | 5/8 | 4030-0030 | 2 | 4031-0030 |
| 27/32 | 1-3/8 | 9-1/2 | 5/8 | 4030-0032 | 2 | 4031-0032 |
| 7/8 | 1-1/2 | 10 | 3/4 | 4030-0034 | 2 | 4031-0034 |
| 29/32 | 1-1/2 | 10 | 3/4 | 4030-0036 | 2 | 4031-0036 |
| 15/16 | 1-1/2 | 10 | 3/4 | 4030-0038 | 3 | 4031-0038 |
| 31/32 | 1-1/2 | 10 | 3/4 | 4030-0040 | 3 | 4031-0040 |
| 1 | 1-5/8 | 10-1/2 | 7/8 | 4030-0042 | 3 | 4031-0042 |
| 1-1/32 | 1-5/8 | 10-1/2 | 7/8 | 4030-0044 | 3 | 4031-0044 |
| 1-1/16 | 1-5/8 | 10-1/2 | 7/8 | 4030-0046 | 3 | 4031-0046 |
| 1-3/32 | 1-5/8 | 10-1/2 | 7/8 | 4030-0048 | 3 | 4031-0048 |
| 1-1/8 | 1-3/4 | 11 | 7/8 | 4030-0050 | 3 | 4031-0050 |
| 1-5/32 | 1-3/4 | 11 | 7/8 | 4030-0052 | 3 | 4031-0052 |
| 1-3/16 | 1-3/4 | 11 | 1 | 4030-0054 | 3 | 4031-0054 |
| 1-7/32 | 1-3/4 | 11 | 1 | 4030-0056 | 3 | 4031-0056 |
| 1-1/4 | 1-7/8 | 11-1/2 | 1 | 4030-0058 | 4 | 4031-0058 |
| 1-5/16 | 1-7/8 | 11-1/2 | 1 | 4030-0060 | 4 | 4031-0060 |
| 1-3/8 | 2 | 12 | 1 | 4030-0062 | 4 | 4031-0062 |
| 1-7/16 | 2 | 12 | 1-1/4 | 4030-0064 | 4 | 4031-0064 |
| 1-1/2 | 2-1/8 | 12-1/2 | 1-1/4 | 4030-0066 | 4 | 4031-0066 |
| 1-9/16 | 2-1/8 | 12-1/2 | 1-1/4 | 4030-0068 | 4 | 4031-0068 |
| 1-5/8 | 2-1/4 | 13 | 1-1/4 | 4030-0070 | 4 | 4031-0070 |
| 1-11/16 | 2-1/4 | 13 | 1-1/4 | 4030-0072 | 4 | 4031-0072 |
| 1-3/4 | 2-3/8 | 13-1/2 | 1-1/4 | 4030-0074 | 5 | 4031-0074 |
| 1-13/16 | 2-3/8 | 13-1/2 | 1-1/2 | 4030-0076 | 5 | 4031-0076 |
| 1-7/8 | 2-1/2 | 14 | 1-1/2 | 4030-0078 | 5 | 4031-0078 |
| 1-15/16 | 2-1/2 | 14 | 1-1/2 | 4030-0080 | 5 | 4031-0080 |
| 2 | 2-1/2 | 14 | 1-1/2 | 4030-0082 | 5 | 4031-0082 |
| 2-1/8 | 2-3/4 | 14 | 1-1/2 | 4030-0084 | 5 | 4031-0084 |
| 2-1/4 | 2-3/4 | 14-1/2 | 1-3/4 | 4030-0086 | 5 | 4031-0086 |
| 2-3/8 | 2-3/4 | 15 | 1-3/4 | 4030-0088 | 5 | 4031-0088 |
| 2-7/16 | 3 | 15 | 1-3/4 | 4030-0090 | 5 | 4031-0090 |
| 2-1/2 | 3 | 15 | 1-3/4 | 4030-0092 | 5 | 4031-0092 |

Chainsaw Chain Breaker/Spinner

***Chainsaw repairing and reinstallation
combo for optimum performance.***



Order No.MQ02-002



Order No.MQ02-001

- **The spinner has different anvils to accommodate 1/4", 0.325", 3/8", 0.404", 7/16" and 1/2" pitch**
- **Heavy duty steel base plate with mounting holes**

Machine Taps

直柄机用丝锥

- 丝锥精度并非内螺纹精度。
- 订货无特殊说明, M6以下均为凸顶尖形式。
- 订货无特殊说明, 均按H1至H3等级供货。



| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|----------|----------------|---------------|--------------|---------------------|----------------------|
| M3 | 48 | 11 | 3 | 3133-0002 | 3133-1002 |
| M4 | 53 | 13 | 3 | 3133-0004 | 3133-1004 |
| M4×0.5 | 53 | 13 | 3 | 3133-0006 | 3133-1006 |
| M5 | 58 | 16 | 3 | 3133-0008 | 3133-1008 |
| M5×0.5 | 58 | 16 | 3 | 3133-0010 | 3133-1010 |
| M6 | 66 | 19 | 3 | 3133-0012 | 3133-1012 |
| M6×0.5 | 66 | 19 | 3 | 3133-0014 | 3133-1014 |
| M8 | 72 | 22 | 3 | 3133-0016 | 3133-1016 |
| M8×0.75 | 72 | 22 | 3 | 3133-0018 | 3133-1018 |
| M8×1 | 66 | 19 | 3 | 3133-0020 | 3133-1020 |
| M10 | 80 | 24 | 3 | 3133-0022 | 3133-1022 |
| M10×1 | 80 | 24 | 3 | 3133-0024 | 3133-1024 |
| M10×1.25 | 80 | 24 | 3 | 3133-0026 | 3133-1026 |
| M12×1 | 89 | 29 | 4 | 3133-0028 | 3133-1028 |
| M12×1.25 | 89 | 29 | 4 | 3133-0030 | 3133-1030 |

| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|----------|----------------|---------------|--------------|---------------------|----------------------|
| M12×1.5 | 89 | 29 | 4 | 3133-0032 | 3133-1032 |
| M14 | 95 | 30 | 4 | 3133-0034 | 3133-1034 |
| M14×1.25 | 95 | 30 | 4 | 3133-0036 | 3133-1036 |
| M14×1.5 | 95 | 30 | 4 | 3133-0038 | 3133-1038 |
| M16 | 102 | 32 | 4 | 3133-0040 | 3133-1040 |
| M16×1 | 92 | 32 | 4 | 3133-0042 | 3133-1042 |
| M16×1.5 | 102 | 32 | 4 | 3133-0044 | 3133-1044 |
| M18 | 112 | 37 | 4 | 3133-0046 | 3133-1046 |
| M18×1.5 | 112 | 37 | 4 | 3133-0048 | 3133-1048 |
| M18×2 | 112 | 37 | 4 | 3133-0050 | 3133-1050 |
| M20 | 112 | 37 | 4 | 3133-0052 | 3133-1052 |
| M20×1 | 102 | 22 | 4 | 3133-0054 | 3133-1054 |
| M20×1.5 | 112 | 37 | 4 | 3133-0056 | 3133-1056 |
| M20×2 | 112 | 37 | 4 | 3133-0058 | 3133-1058 |

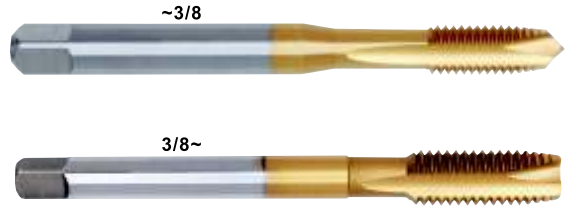
| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|----------|----------------|---------------|--------------|---------------------|----------------------|
| M3 | 40 | 11 | 3 | 3134-0002 | 3134-1002 |
| M4 | 45 | 13 | 3 | 3134-0004 | 3134-1004 |
| M4×0.5 | 45 | 13 | 3 | 3134-0006 | 3134-1006 |
| M5 | 50 | 16 | 3 | 3134-0008 | 3134-1008 |
| M5×0.5 | 50 | 16 | 3 | 3134-0010 | 3134-1010 |
| M6 | 55 | 19 | 3 | 3134-0012 | 3134-1012 |
| M6×0.5 | 55 | 19 | 3 | 3134-0014 | 3134-1014 |
| M8 | 65 | 22 | 3 | 3134-0016 | 3134-1016 |
| M8×0.75 | 65 | 22 | 3 | 3134-0018 | 3134-1018 |
| M8×1 | 65 | 19 | 3 | 3134-0020 | 3134-1020 |
| M10 | 70 | 24 | 3 | 3134-0022 | 3134-1022 |
| M10×1 | 70 | 24 | 3 | 3134-0024 | 3134-1024 |
| M10×1.25 | 70 | 24 | 3 | 3134-0026 | 3134-1026 |
| M12×1 | 80 | 29 | 4 | 3134-0028 | 3134-1028 |
| M12×1.25 | 80 | 29 | 4 | 3134-0030 | 3134-1030 |

| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|----------|----------------|---------------|--------------|---------------------|----------------------|
| M12×1.5 | 80 | 29 | 4 | 3134-0032 | 3134-1032 |
| M14 | 90 | 30 | 4 | 3134-0034 | 3134-1034 |
| M14×1.25 | 90 | 30 | 4 | 3134-0036 | 3134-1036 |
| M14×1.5 | 90 | 30 | 4 | 3134-0038 | 3134-1038 |
| M16 | 90 | 32 | 4 | 3134-0040 | 3134-1040 |
| M16×1 | 90 | 32 | 4 | 3134-0042 | 3134-1042 |
| M16×1.5 | 90 | 32 | 4 | 3134-0044 | 3134-1044 |
| M18 | 100 | 37 | 4 | 3134-0046 | 3134-1046 |
| M18×1.5 | 100 | 37 | 4 | 3134-0048 | 3134-1048 |
| M18×2 | 100 | 37 | 4 | 3134-0050 | 3134-1050 |
| M20 | 100 | 37 | 4 | 3134-0052 | 3134-1052 |
| M20×1 | 100 | 22 | 4 | 3134-0054 | 3134-1054 |
| M20×1.5 | 100 | 37 | 4 | 3134-0056 | 3134-1056 |
| M20×2 | 100 | 37 | 4 | 3134-0058 | 3134-1058 |

Machine Taps

直柄机用丝锥

- 丝锥精度并非内螺纹精度。
- 订货无特殊说明, 3/8以下均为凸顶尖形式。
- 订货无特殊说明, 均按2a或者H2等级供货。



| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------------|----------------|---------------|--------------|---------------------|----------------------|
| 1/4-20UNC | 2-1/2 | 1 | 3 | 3136-0002 | 3136-1002 |
| 1/4-28UNF | 2-1/2 | 1 | 3 | 3136-0004 | 3136-1004 |
| 5/16-18UNC | 2-23/32 | 1-1/8 | 3 | 3136-0006 | 3136-1006 |
| 5/16-24UNF | 2-23/32 | 1-1/8 | 3 | 3136-0008 | 3136-1008 |
| 3/8-18UNC | 2-15/16 | 1-1/4 | 3 | 3136-0010 | 3136-1010 |
| 3/8-24UNF | 2-15/16 | 1-1/4 | 3 | 3136-0012 | 3136-1012 |
| 7/16-14UNC | 3-5/32 | 1-7/16 | 3 | 3136-0014 | 3136-1014 |
| 7/16-20UNF | 3-5/32 | 1-7/16 | 3 | 3136-0016 | 3136-1016 |
| 1/2-13UNC | 3-3/8 | 1-21/32 | 4 | 3136-0018 | 3136-1018 |
| 1/2-20UNF | 3-3/8 | 1-21/32 | 4 | 3136-0020 | 3136-1020 |

| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------------|----------------|---------------|--------------|---------------------|----------------------|
| 9/16-12UNC | 3-19/32 | 1-21/32 | 4 | 3136-0022 | 3136-1022 |
| 9/16-18UNF | 3-19/32 | 1-21/32 | 4 | 3136-0024 | 3136-1024 |
| 5/8-11UNC | 3-13/16 | 1-13/16 | 4 | 3136-0026 | 3136-1026 |
| 5/8-18UNF | 3-13/16 | 1-13/16 | 4 | 3136-0028 | 3136-1028 |
| 3/4-10UNC | 4-1/4 | 2 | 4 | 3136-0030 | 3136-1030 |
| 3/4-16UNF | 4-1/4 | 2 | 4 | 3136-0032 | 3136-1032 |
| 7/8-9UNC | 4-11/16 | 2-7/32 | 4 | 3136-0034 | 3136-1034 |
| 7/8-14UNF | 4-11/16 | 2-7/32 | 4 | 3136-0036 | 3136-1036 |
| 1-8UNC | 5-1/8 | 2-1/2 | 4 | 3136-0038 | 3136-1038 |
| 1-8UNF | 5-1/8 | 2-1/2 | 4 | 3136-0040 | 3136-1040 |

Taper Pipe Taps

锥管丝锥

- 丝锥精度并非内螺纹精度。
- 订货无特殊说明, 均按2a或者H2等级供货。



| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|------------|----------------|---------------|--------------|---------------------|----------------------|
| 1/16-27NPT | 2-1/8 | 11/16 | 4 | 3137-0002 | 3137-1002 |
| 1/8-27NPT | 2-1/8 | 3/4 | 4 | 3137-0004 | 3137-1004 |
| 1/4-18NPT | 2-7/16 | 1-1/16 | 4 | 3137-0006 | 3137-1006 |
| 3/8-18NPT | 2-9/16 | 1-1/16 | 4 | 3137-0008 | 3137-1008 |
| | | | | | |
| | | | | | |
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| | | | | | |

| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|-----------|----------------|---------------|--------------|---------------------|----------------------|
| 1/2-14NPT | 3-1/8 | 1-3/8 | 4 | 3137-0010 | 3137-1010 |
| 3/4-14NPT | 3-1/4 | 1-3/8 | 4 | 3137-0012 | 3137-1012 |
| 1-11/2NPT | 3-3/4 | 1-3/4 | 4 | 3137-0014 | 3137-1014 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Sprral Fulut Machine Taps

直柄机用螺旋槽丝锥

- 丝锥精度并非内螺纹精度。
- 订货无特殊说明, M6以下均为凸顶尖形式。
- 订货无特殊说明, 均按H1至H3等级供货。
- 15°, 25°, 35° 螺旋角, 订货需注明。



| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|----------|----------------|---------------|--------------|---------------------|----------------------|
| M3 | 48 | 11 | 3 | 3135-0002 | 3135-1002 |
| M4 | 53 | 13 | 3 | 3135-0004 | 3135-1004 |
| M4×0.5 | 53 | 13 | 3 | 3135-0006 | 3135-1006 |
| M5 | 58 | 16 | 3 | 3135-0008 | 3135-1008 |
| M5×0.5 | 58 | 16 | 3 | 3135-0010 | 3135-1010 |
| M6 | 66 | 19 | 3 | 3135-0012 | 3135-1012 |
| M6×0.5 | 66 | 19 | 3 | 3135-0014 | 3135-1014 |
| M8 | 72 | 22 | 3 | 3135-0016 | 3135-1016 |
| M8×0.75 | 72 | 22 | 3 | 3135-0018 | 3135-1018 |
| M8×1 | 66 | 19 | 3 | 3135-0020 | 3135-1020 |
| M10 | 80 | 24 | 3 | 3135-0022 | 3135-1022 |
| M10×1 | 80 | 24 | 3 | 3135-0024 | 3135-1024 |
| M10×1.25 | 80 | 24 | 3 | 3135-0026 | 3135-1026 |
| M12×1 | 89 | 29 | 4 | 3135-0028 | 3135-1028 |
| M12×1.25 | 89 | 29 | 4 | 3135-0030 | 3135-1030 |

| SIZE | Overall Length | Thread Length | Flute Of No. | UN-Coated ORDER No. | Tin-Coated ORDER No. |
|----------|----------------|---------------|--------------|---------------------|----------------------|
| M12×1.5 | 89 | 29 | 4 | 3135-0032 | 3135-1032 |
| M14 | 95 | 30 | 4 | 3135-0034 | 3135-1034 |
| M14×1.25 | 95 | 30 | 4 | 3135-0036 | 3135-1036 |
| M14×1.5 | 95 | 30 | 4 | 3135-0038 | 3135-1038 |
| M16 | 102 | 32 | 4 | 3135-0040 | 3135-1040 |
| M16×1 | 92 | 32 | 4 | 3135-0042 | 3135-1042 |
| M16×1.5 | 102 | 32 | 4 | 3135-0044 | 3135-1044 |
| M18 | 112 | 37 | 4 | 3135-0046 | 3135-1046 |
| M18×1.5 | 112 | 37 | 4 | 3135-0048 | 3135-1048 |
| M18×2 | 112 | 37 | 4 | 3135-0050 | 3135-1050 |
| M20 | 112 | 37 | 4 | 3135-0052 | 3135-1052 |
| M20×1 | 102 | 22 | 4 | 3135-0054 | 3135-1054 |
| M20×1.5 | 112 | 37 | 4 | 3135-0056 | 3135-1056 |
| M20×2 | 112 | 37 | 4 | 3135-0058 | 3135-1058 |