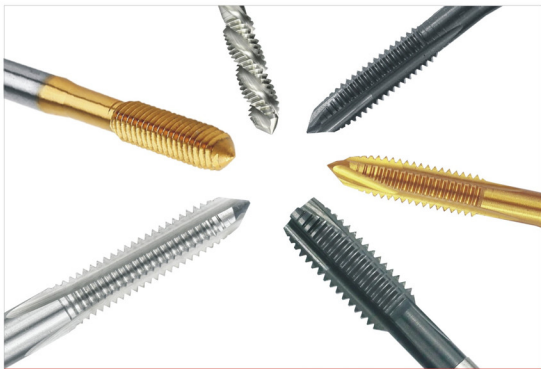




**syt brother**  
**西铁兄弟®**

惠州市西铁兄弟机械有限公司  
Huizhou Syt Brother Machinery CO.,LTD

PROFESSIONAL MANUFACTURER AND SUPPLIER OF CUTTING TOOLS



日标螺旋镀钛丝锥  
Japanese standard titanium screw tap



| 规格<br>Thread Code | 螺距<br>Percent | 柄径<br>Shank dia | 总长<br>Whole length | 刃长<br>Square path | 方头<br>Square length | 槽数<br>Flute |
|-------------------|---------------|-----------------|--------------------|-------------------|---------------------|-------------|
| M2                | 0.4           | 3               | 42                 | 8                 | 2.5                 | 3           |
| M2.5              | 0.45          | 3               | 47                 | 9.5               | 2.5                 | 3           |
| M3                | 0.5           | 4               | 46                 | 11                | 3.2                 | 3           |
| M3.5              | 0.6           | 4               | 48                 | 13                | 3.2                 | 3           |
| M4                | 0.7           | 5               | 52                 | 13                | 4                   | 3           |
| M4.5              | 0.75          | 5               | 52                 | 13                | 4                   | 3           |
| M5                | 0.8           | 5.5             | 60                 | 16                | 4.5                 | 3           |
| M6                | 1.0           | 6               | 62                 | 19                | 4.5                 | 3           |
| M7                | 1.0           | 7               | 65                 | 19                | 5.5                 | 3           |
| M8                | 1.25          | 6.3             | 72                 | 22                | 5                   | 3           |
| M9                | 1.25          | 7               | 72                 | 22                | 5.5                 | 3           |
| M10               | 1.5           | 7               | 75                 | 24                | 5.5                 | 3           |
| M11               | 1.5           | 8               | 80                 | 24                | 6                   | 3           |
| M12               | 1.75          | 8.5             | 82                 | 29                | 6.5                 | 4           |
| M14               | 2.0           | 10.5            | 88                 | 30                | 8                   | 4           |
| M16               | 2.0           | 12.5            | 95                 | 32                | 10                  | 4           |
| M18               | 2.5           | 14              | 100                | 37                | 11                  | 4           |
| M20               | 2.5           | 14              | 105                | 37                | 11                  | 4           |

## 螺旋的用途

Spiral of use

用于孔深1.5d~3d的盲孔及通孔的加工，具有排屑通畅的优点。

Holes for deep blind hole and through hole machining 1.5d ~ 3d, with unobstructed chip advantage.

比较适合加工不通孔螺纹，加工时切屑向后排出。由于螺旋角的原因，丝锥实际切削前角会随螺旋角增大而加大。经验告诉我们：加工黑色金属的，螺旋角选的小一点，一般在30度左右，保证螺旋齿的强度。加工有色金属的，螺旋角选的大一点，可在45度左右，切削锋利一些。

More suitable for machining blind hole thread processing chip backwards discharged. Since the helix angle of the reason, the actual cutting taps Rake angle will increase with the helix angle increases. Experience tells us: the processing of ferrous metals, helix angle selected smaller, Generally about 30 degrees, to ensure the strength helical teeth. Processing non-ferrous metals, helix angle bigger election, in 45 degrees About some of the sharp cutting.

## 日标螺尖镀钛丝锥

Japanese standard titanium screw tip tap



| 规格<br>Thread Code | 螺距<br>Percent | 柄径<br>Shank dia | 总长<br>Whole length | 刃长<br>Square path | 方头<br>Square length | 槽数<br>Flute |
|-------------------|---------------|-----------------|--------------------|-------------------|---------------------|-------------|
| M2                | 0.4           | 3               | 42                 | 8                 | 2.5                 | 3           |
| M2.5              | 0.45          | 3               | 47                 | 9.5               | 2.5                 | 3           |
| M3                | 0.5           | 4               | 46                 | 11                | 3.2                 | 3           |
| M3.5              | 0.6           | 4               | 48                 | 13                | 3.2                 | 3           |
| M4                | 0.7           | 5               | 52                 | 13                | 4                   | 3           |
| M4.5              | 0.75          | 5               | 52                 | 13                | 4                   | 3           |
| M5                | 0.8           | 5.5             | 60                 | 16                | 4.5                 | 3           |
| M6                | 1.0           | 6               | 62                 | 19                | 4.5                 | 3           |
| M7                | 1.0           | 7               | 65                 | 19                | 5.5                 | 3           |
| M8                | 1.25          | 6.3             | 72                 | 22                | 5                   | 3           |
| M9                | 1.25          | 7               | 72                 | 22                | 5.5                 | 3           |
| M10               | 1.5           | 7               | 75                 | 24                | 5.5                 | 3           |
| M11               | 1.5           | 8               | 80                 | 24                | 6                   | 3           |
| M12               | 1.75          | 8.5             | 82                 | 29                | 6.5                 | 4           |
| M14               | 2.0           | 10.5            | 88                 | 30                | 8                   | 4           |
| M16               | 2.0           | 12.5            | 95                 | 32                | 10                  | 4           |
| M18               | 2.5           | 14              | 100                | 37                | 11                  | 4           |
| M20               | 2.5           | 14              | 105                | 37                | 11                  | 4           |

## 螺尖的用途

Lo pointed uses

用于通孔加工，孔深可达3d~3.5d具有排屑通畅，轻快的优点，加工速度高。  
For through hole machining, hole depth of up 3d ~ 3.5d has a chip unobstructed,  
Airy advantage, processing speed is high.

加工螺纹时切屑向前排出。它的芯部尺寸设计比较大，强度较好，可承受较大的切削力。

加工有色金属、不锈钢、黑色金属效果都很好，通孔螺纹应优先采用螺尖丝锥。

When processing thread chips forward discharge. Its core design is relatively large size,  
good strength, can withstand greater cutting forces.

Processing of non-ferrous metals, stainless steel, black metallic effects are good,  
threaded through holes Spiral Point taps should be given priority.

日标挤压丝锥  
Japanese standard extrusion tap



| 规格<br>Thread Code | 螺距<br>Percent | 柄径<br>Shank dia | 总长<br>Whole length | 刃长<br>Square path | 方头<br>Square length |
|-------------------|---------------|-----------------|--------------------|-------------------|---------------------|
| M2                | 0.4           | 3               | 42                 | 8                 | 2.5                 |
| M2.5              | 0.45          | 3               | 46                 | 9                 | 2.5                 |
| M3                | 0.5           | 4               | 46                 | 10                | 3.2                 |
| M4                | 0.7           | 5               | 52                 | 13                | 4                   |
| M5                | 0.8           | 5.5             | 60                 | 15                | 4.5                 |
| M6                | 1.0           | 6               | 62                 | 18                | 4.5                 |
| M8                | 1.25          | 6.2             | 70                 | 22                | 5                   |
| M10               | 1.25          | 7               | 75                 | 25                | 5.5                 |
| M12               | 1.25          | 8.5             | 82                 | 29                | 6.5                 |

## 挤压的用途

Extrusion of use

用于~3d的通孔及盲孔的加工。具有强度高，丝锥不易折断的优点，可提高被加工后的螺纹强度。

~ 3d for machining a through hole and blind hole, high strength, easy to break the advantages of taps, can be improved by processing After the thread strength.

比较适合加工有色金属，与上述切削丝锥工作原理不同，它是对金属进行挤压，使之变形，形成内螺纹。挤压成形的内螺纹金属纤维是连续的，抗拉，抗剪强度较高，加工的表面粗糙度也较好，不过挤压丝锥底孔要求较高：过大，基础金属量少，造成内螺纹小径过大，强度不够，过小，封闭挤压的金属无处可去，造成丝锥折断。计算式为：底孔直径=内螺纹公称直径-0.5螺距。

More suitable for processing non-ferrous metals, and the cutting tap works different, it is the metal extrusion, so that the plastic

Shaped deformation, forming an internal thread. Extruded internally threaded metallic fibers are continuous, tensile strength, high shear strength to teach.

Machined surface roughness also teach, but higher extrusion tap bottom outlet requirements:

too big, base metals less, causing internal

Thread Trail is too large, the strength is not enough. Too small, enclosed extruded metal

nowhere to go, cause tap breakage. Calculation formula

As follows: the prepared hole diameter = nominal diameter of -0.5 internal thread pitch.

## 加长机用丝锥

Tap extended machine

## SPEC

规格型号  
(新标准)

M3X90

M3X100

M4X100

M4X125

M4X150

M5X100

M5X125

M5X150

M6X100

M6X125

M6X150

M8X100

M8X125

M8X150

## SPEC

规格型号  
(新标准)

M8X200

M10X120

M10X150

M10X200

M12X130

M12X160

M12X200

M14X130

M14X160

M14X200

M16X130

M16X160

M16X200



## 管螺纹丝锥

Pipe thread tap



## SPEC

规格型号

G $\frac{1}{16}$ -28G $\frac{1}{8}$ -28G $\frac{1}{4}$ -19G $\frac{3}{8}$ -19G $\frac{1}{2}$ -14G $\frac{3}{4}$ -14G $\frac{1}{2}$ -11G1 $\frac{1}{2}$ -11G1 $\frac{1}{2}$ -11

G2"-11



## SPEC

规格型号

RC $\frac{1}{16}$ -28RC $\frac{1}{8}$ -28RC $\frac{1}{4}$ -19RC $\frac{3}{8}$ -19RC $\frac{1}{2}$ -14RC $\frac{3}{4}$ -14

RC1"-11

RC1 $\frac{1}{2}$ -11RC1 $\frac{1}{2}$ -11

RC2"-11



规格型号

NPT $\frac{1}{16}$ -27NPT $\frac{1}{8}$ -27NPT $\frac{1}{4}$ -18NPT $\frac{3}{8}$ -18NPT $\frac{1}{2}$ -14NPT $\frac{3}{4}$ -14

NPT1"-11.5

NPT1 $\frac{1}{2}$ -11.5NPT1 $\frac{1}{2}$ -11.5

NPT2"-11.5