

滚压模具 Rolling Dies



UNION TOOL CO.

◆ 滚压模具制作案例 Dies Sample

滚齿轮 Roll Dies



缺圆滚齿轮 Increment Dies



搓齿板 Rack Dies



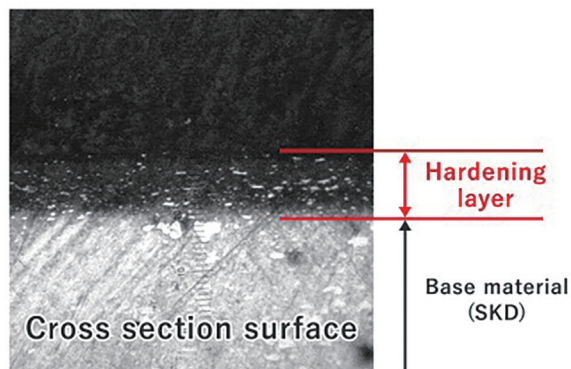
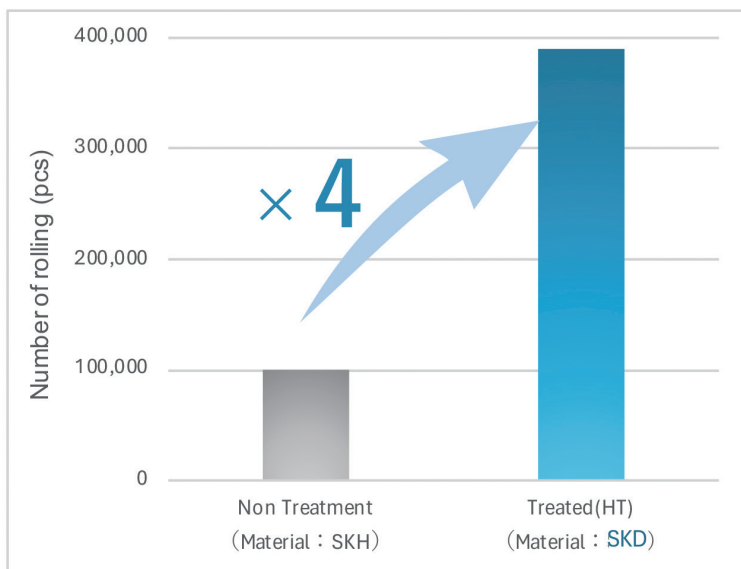
◆ 加工工件示例 Workpiece Sample



※如需其他品种和形状，请咨询我司。
※Please consult us regarding products not shown.

- 渐开线花键 Involute spline
- 渐开线锯齿 Involute serration
- 蜗杆 Worm
- 滚珠丝杆 Ball screw
- 导螺杆 Lead screw
- 梯形丝杆 Trapezoidal screw
- 滚花(直纹、网纹) Knurling(Straight, Diamond)
- 公制螺纹 Metric screw

◆ 提高花键模具寿命的案例 Tool life improvement example of splines dies



Work size : Spline m1.0
Work material : S45C
Dies length : 623.2mm

◆ 用于空心工件的搓齿板 UHD 日本专利第7600304号 Union tool Hollow shaft spline Dies JP Patent No.7600304

- 无需芯棒 – 以前要有芯棒的产品领域现在也能对应。
Unneeded core metal - The range can be processed without core metal that has expanded.
- 无需改造 – 使用现有设备进行加工即可。
Unneeded modification - Can be processed your own rolling machine without modification.
- 工序缩短 – 不需要滚压后加工内孔。
Reduction in the processes - Unneeded drilling after rolling.

※根据工件的壁厚等，若需要芯棒，请咨询我司。

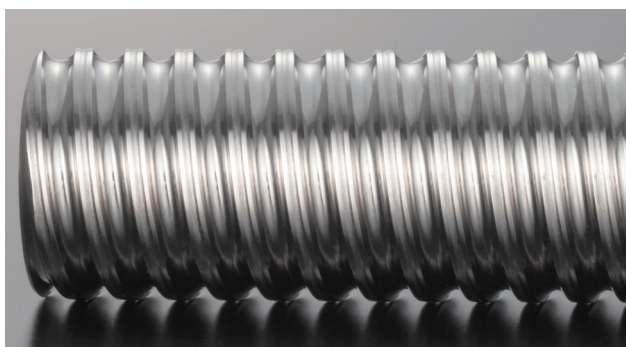
※Metal core is required depending on the wall thickness of the work piece, etc.

● 空心工件的滚压实例 Hollow shaft spline Sample

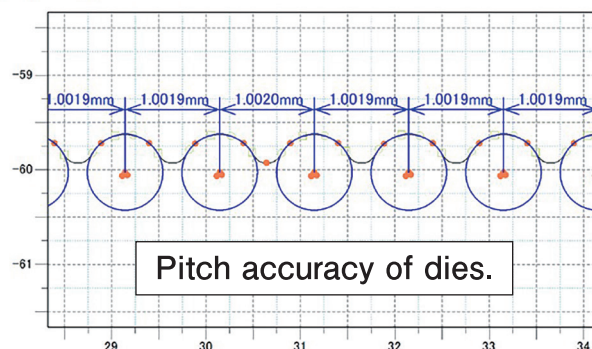


Work size : Spline m1.0
Work material : SCM435
Dies length : 928mm
Wall thickness : 5mm(L) , 7mm(R)

◆ 滚珠丝杠用滚压模具 Ball screw Sample



[mm] 表示倍率: 20



- 滚压后的滚珠丝杠可达到(JIS C5)精度等级。
Able to achieve the accuracy "JIS C5" by rolling.
- 通过高精度的加工，能修成所需的形状。
Excellent grinding technology can correct tooth shape to the desired form.

※请事先告知由滚压毛坯材料和热处理而导致的尺寸变化量。

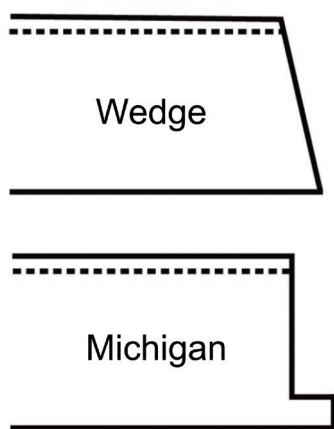
You will need to specify the amount of dimensional change due to work material and heat treatment.

※为了实现精确测量，必须提前确定测量范围。

The measurement range must be determined in advance for accuracy measurements.

◆ UNION TOOL 模具的特点 Features of our dies

- 镜面般的表面粗糙度和卓越的模具形状设计，使模具的使用寿命更长。
Near mirror surface finish and superior dies design, achieve longer tool life.
- 最大限度地缩短两端的不完全螺纹，能高精度地复刻到工件上。
Able to achieve high transfer accuracy to the workpiece by minimizing the partial thread at both ends.
- 通过抑制工件的延展性，使成形效果更好。
Suppressing the elongation of the workpiece makes it possible to achieve excellent formability.
- 通过独特的设计，控制了窜动。
Unique design to control walking effect.



- 制造可能的范围 Manufacturing range
 - 滚齿轮：最大外径 $\phi 300\text{mm}$ 、最大宽度 300mm
Roll Dies: Maximum outer diameter $\phi 300\text{mm}$, Maximum width 300mm
 - 搓齿板：最大长度 1,252mm
Rack Dies: Maximum length 1,252mm
- 滚齿轮和搓齿板的修磨是指将原有的齿形全部车削掉，再重新磨齿。
When regrinding the Die, all tooth depth is removed and newly ground.
- 搓齿板可以做成无耳式 (Wedge) 和挂耳式 (Michigan) 的两种形状。
Manufacture wedge type and michigan type is available.
- 可以对应特殊尺寸。
Customized lengths can also be ordered.



中文



ENGLISH

欲了解更详细的产品信息，请查看我们的网站！

Please check more information on our website!



ユニオン ツール株式会社
UNION TOOL CO.
<https://www.uniontool.co.jp>

佑能工具(上海)有限公司

上海市松江区泗泾镇高木路385弄9-10号 (邮号201601)

TEL.86-21-5762-8588 FAX.86-21-5762-8436

东莞佑能工具有限公司

广东省东莞市洪梅镇洪金路5号(邮号523160)

TEL.86-769-88848901 FAX.86-769-88848296

佑能工具香港有限公司

香港九龙青山道538号半岛大厦28楼2803 & 05室

TEL. 852-2370-3012 FAX.852-2370-2111

台湾佑能工具有限公司

台湾省桃园市芦竹区滨海里14邻中圳街180号 (邮号338)

TEL.886-3-354-3111 FAX.886-3-354-3110

※本目录的内容如若发生变更、恕不另行通知、敬请谅解

202506_RDR_C_1.5KA