

本机由高性能激光器、CCD 同光路监视器、精密四轴运动工作台和自行研发软件控制系统组成,自动完成拉丝模小孔成形,对孔形编程,可打多层直线喇叭孔、直孔,特殊设计软件还可打出轴向内壁圆弧异形及其它任意曲线孔形。

This machine is composed of the high-performance laser, CCD optical television surveillance, precise 4 axis movement workbench and software control system. It automatically completes the drilling of wire drawing dies. The hole shape can be programmed, so it can punch not only multilinetrumpet holes, straight holes, but also axial inner wall arc and strange or arbitrary curve shape holes through special software. The wall of drilled holes is smooth and the ablation zone is small.

- 更短的波长, 更小的激光焦点, 烧蚀区少, 孔内壁光滑。
- 可打反口, 装夹方便, 打孔速度快, 长期工作稳定可靠。
- 自行研制新版软件系统, 自动完成拉丝模小孔成型。
- Shorter wavelengths, smaller laser focus, less ablation zones, and smoother inner walls.
- Also can drill from back, the clamping is convenient, the drilling speed is fast, and the long-term work is stable and reliable.
- The new version of the software system has been developed by ourself, automatically completes the drawing of small holes in the wire dies.

广泛应用于金刚石拉丝模、消声器小孔、针头小孔、宝石轴承等多种打孔的行业。

Widely used in drilling the diamond wire drawing dies, the muffler holes, needle holes, and jewel bearings etc.

适用于对天然金刚石、聚晶金刚石、红宝石、紫铜、陶瓷、不锈钢、碳钢、合金钢等超硬、耐高温材料进行不同形状、直径、深度和锥度打孔。

It is suitable for drill holes of different shapes, diameters, depths and tapers on super-hard and high temperature resistant materials, such as natural diamond, polycrystalline diamond, ruby, copper, ceramic, stainless steel, carbon steel, alloy steel and so on.



性能 / 型号	Performance/model	SK-DRILLING				
最大输出功率	Max. Output power	3W	5W	20W	50W	100W
激光波长	Wavelength	355nm	532nm	1064nm		
打孔孔径	Drilling aperture	0.006-1mm		0.05-1mm	0.1-3mm	0.1-5mm
打孔厚度	Perforation thickness	0.01-1mm		0.05-2mm	1-6mm	1-10mm
旋转速度	Rotation speed	<2000 转 /min				
初始定位精度	Initial positioning accuracy	±0.003mm				
重复定位精度	repetition precision	±0.002mm				
供电电源	Power supply	AC220V±10%/1PH/50Hz				
机器尺寸(长*宽*高)	Machine size (L*W*H)	1100*1000*1600mm				
机器重量	Machine weight	400Kg				