

# 5 AXIS MICROMACHINING SYSTEM

## 五轴微加工系统



### 产品特点

FEATURES

普通激光钻孔系统只能加工锥孔，无法做到标准直孔和倒锥孔的加工。而5轴激光微加工系统，除了标准直孔，锥孔的加工以外，还能加工倒锥孔，极大的扩展了激光钻孔的应用。搭配不同波长及超快激光器，能做到钻孔热效应小，表面处理光滑等特点。才使加工材质无限制，真正应用到了各行各业的钻孔加工。

The ordinary laser drilling system can only process the taper hole, and can not achieve the standard straight hole and inverted cone hole processing. Besides the standard straight hole and the taper hole processing, the 5-axis laser micro machining system can also process the inverted cone hole, which greatly expands the application of laser drilling. With different wavelengths and super fast lasers, It features small thermal effect of drilling and smooth surface treatment, and realizes the unlimited processing materials, which can be applied to drilling and processing in all walks of life.

### 技术参数

TECHNICAL PARAMETERS

五轴微加工系统 5 axis Micromachining System		
工作范围	Working Field Size (mm)	φ0.025 to φ1
Z方向最大变焦范围	Maximum Focus Range In Z Direction (mm)	±1
系统入射光斑大小	Entrance Beam Diameter (1/e <sup>2</sup> ) (mm)	10
聚焦光斑大小(1/e <sup>2</sup> )M <sup>2</sup> =1	Focus Diameter In Image Field (1/e <sup>2</sup> ) for M <sup>2</sup> = 1 (um)	25
最大进给角度	Maximum Angle Of Incidence (°)	±9
旋进频率	Precession Frequency (HZ)	200-600 ( 12000-36000rpm )
物镜焦距	Objective Focal Length (mm)	50
重复精度	Repeatability (um)	≤0.5
入射角的理论分辨率	Theoretical Resolution Of Incidence Angle (urad)	2
尺寸	Dimension (L*W*H) (mm)	601×280×274
重量	Weight (Kg)	23.5

### 应用场景

INDUSTRY APPLICATION

五轴微加工系统广泛应用于汽车工业（喷油嘴孔钻削），航空航天工业（涡轮叶片的冷却气膜孔），电子和电信行业，钟表行业，过滤行业，医疗技术行业（冠状动脉支架切割）。

Five axis micromachining system is widely used in automobile industry (drilling of nozzle hole), aerospace industry (cooling air film hole of turbine blade), electronics and telecommunication industry, clock industry, filtration industry, medical technology industry (coronary stent cutting).