

## 5 AXIS MICROMACHINING SYSTEM

### FEATURES

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 wave lengths and super fast laser, the thermal effect of drilling is small and the surface treatment is smooth. Only by making the processing materials unlimited, has been applied to drilling and processing in all walks of life.

### TECHNICAL PARAMETERS

Working Field Size ( mm )	$\varphi 0.025$ to $\varphi 1$
Maximum Focus Range In Z Direction( mm )	$\pm 1$
Entrance Beam Diameter (1/e <sup>2</sup> )( mm )	10
Focus Diameter In Image Field (1/e <sup>2</sup> ) for M <sup>2</sup> = 1( $\mu\text{m}$ )	25
Maximum Angle Of Incidence (°)	$\pm 9^\circ$
Precession Frequency ( HZ)	200-600 (12000-36000rpm)
Objective Focal Length (mm)	50
Repeatability ( $\mu\text{m}$ )	$\leq 0.5$
Theoretical Resolution Of Incidence Angle (urad)	2
Dimension(L*W*H)(mm)	601×280×274
Weight( Kg)	23.5

### INDUSTRY APPLICATION

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).