



5-Axis ultrafast laser machine

High power ultra-short pulse laser is used as processing light source, equipped with compound beam scanning system. It is mainly aimed at ultra-fine cold processing of curved surface and complex surface parts. It can realize high precision micro-structure processing of various metals, non-metals and composites, such as through-hole, special-shaped hole, blind hole, micro-cavity, cavity and special-shaped groove. This equipment has great advantages in the hole-making of injector nozzle.

It realizes the machining of angle microstructures of complex surfaces.

It has the function of monitoring and detecting the position and deviation of the end spot.

It has the function of real-time online image detection of processing state.

With local optical path purification package, the equipment can be applied to the General Factory environment.

With the self-adaptive positioning function of feature points, the problem of positioning caused by parts manufacturing and clamping deviation can be solved.

Main Specification	MicroDrill 100
Machine Tool Stroke(X/Y/Z Axis) (mm)	1000/450/300
(A/C Axis) (°)	±90/n×360
Positioning accuracy(X/Y/Z Axis) (mm)	0.015/0.015/0.015
(A/C Axis) (")	30/30
Repeatability Positioning accuracy (X/Y/Z Axis) (mm)	0.010/0.010/0.010
(A/C Axis) (")	20/20
Laser average power (w)	20/40/100
Laser pulse width	fs
Worktable size (mm)	φ175
Max. Load of worktable (kg)	20
Unit weight (kg)	7500
Unit size (mm)	2300(W)×3800(D)×2600(H)

