

THUNDER MEDIUM POWER GALVO WELDING SYSTEM

雷霆中功率振镜焊接系统



技术参数

TECHNICAL PARAMETERS

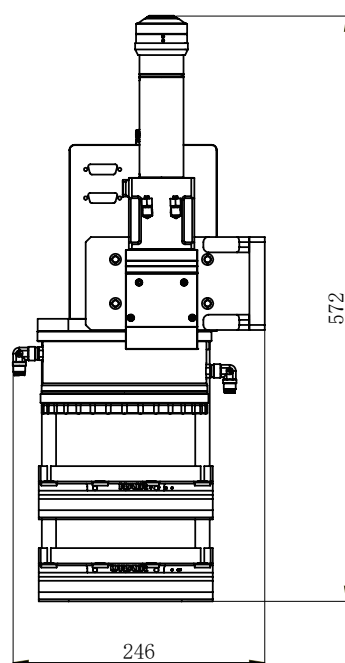
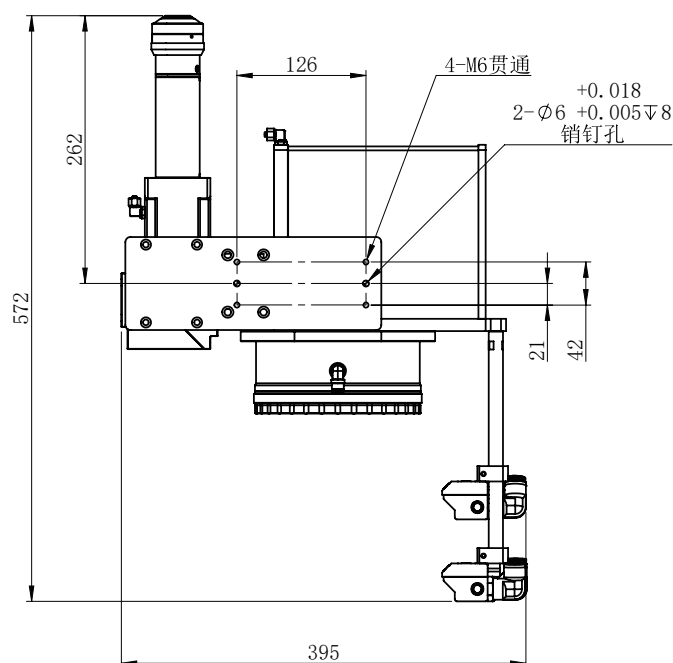
雷霆 Thunder 2000		
最大激光功率	Max. Laser Power (w)	≤ 2000
激光波长	Laser Wavelength (nm)	1070±10
场镜有效焦距	Effective Focal Length of F-theta Lens (mm)	254/330/460
焊接范围	Welding Range (mm)	120×120(F=254) / 170×170(F=330) / 220×220(F=460)
准直器有效焦距	Effective Focal Length of Collimator (mm)	100 / 125 / 150 / 200
工作高度	Working Distance (mm)	316(F=254) / 416(F=330) / 565(F=460)
光纤连接方式	Fiber Connection Method	QBH
通光孔径	Aperture Size (mm)	30
最大焊接速度	Max. Welding Speed (mm/s)	3000
工作温度	Operating Temperature (°C)	25±10
重量	Weight (kg)	16
入射光斑直径	Input Beam Aperture (mm)	30
光柱位移	Beam Displacement (mm)	35.53
跟随误差	Tracking Error (ms)	1.2
重复精度	Repeatability (μrad)	<1
零位漂移	Offset Drift (μrad/K)	<15
增益漂移	Gain Drift (ppm/K)	<8
>8小时长时间漂移	Long-Term Drift over 8h (mrad)	<0.1
1%全行程	1% of full Travel (ms)	1.50
10%全行程	10% of full Travel (ms)	5
定位速度 ^①	Positioning Speed (m/s)	2
扫描角度 ^②	Scan Angle (°)	±25
增益误差	Gain Error (mrad)	<5
零位误差	Offset Offset (mrad)	<5
非线性度	Nonlinearity (%)	<0.1
电源要求	Power Requirements	±15VDC, ≥3A
通讯协议	Communication Protocol	16bit: XY2-100 / 20bit: ST2-100

① 使用焦距F=160mm的场镜测试 Test using F-theta lens with focal length F=160mm

② 以上角度均为光学角度 All angles above are optical angles

外形尺寸图

TECHNICAL DRAWING



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