

THUNDER HIGH POWER GALVO WELDING SYSTEM

雷霆高功率振镜焊接系统

产品特点

FEATURES



自主研发的高精度高速度数字光栅振镜、准直及场镜。

Independently developed high precision and high speed digital extra-galvo, collimation and F-theta lens.



拥有闭环控制系统,可时刻监控振镜位置状态。

Closed-loop control system, monitoring the position and state of the galvanometer in real time.



自主设计上位机软件,有能量波形、摆动功能、焊接参数等功能,具有调试、自动焊接模式。

Self-designed GUI, integrating energy waveform, swing function, welding parameters, with both debugging mode and automatic welding mode.



高级别的系统安全机制,可在10ms内关掉激光。

High-level system security mechanism, which can turn off laser within 10ms.

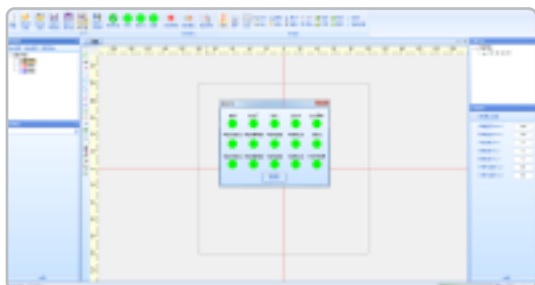
技术参数

TECHNICAL PARAMETERS

	雷霆 Thunder 6000	雷霆 Thunder 8000	雷霆 Thunder 12000
最大激光功率 Max. Laser Power (w)	6000	8000	12000
激光波长 Laser Wavelength (nm)	1070±10	1070±10	1070±10
场镜有效焦距 Effective Focal Length of F-theta Lens (mm)	254 / 330 / 420 / 460	254 / 330 / 420 / 460	460
焊接范围 Welding Range (mm)	120×120 (F=254) / 170×170 (F=330) 205×205 (F=420) / 220×220 (F=460)	120×120 (F=254) / 170×170 (F=330) 205×205 (F=420) / 220×220 (F=460)	220×220 (F=460)
准直器有效焦距 Effective Focal Length of Collimator (mm)	100 / 125 / 150 / 200	100 / 125 / 150 / 200	150
工作高度 Working Distance (mm)	318 (F=254) / 420 (F=330) 520 (F=420) / 570 (F=460)	318 (F=254) / 420 (F=330) 520 (F=420) / 570 (F=460)	570 (F=460)
光纤连接方式 Fiber Connection Method	QBH	QBH	QBH
通光孔径 Aperture Size (mm)	30	30	30
最大焊接速度 Max. Welding Speed (mm/s)	3000	3000	3000
工作温度 Operating Temperature (°C)	25±10	25±10	25±10
重量 Weight (kg)	20	20	20

上位机软件界面

Software Interface



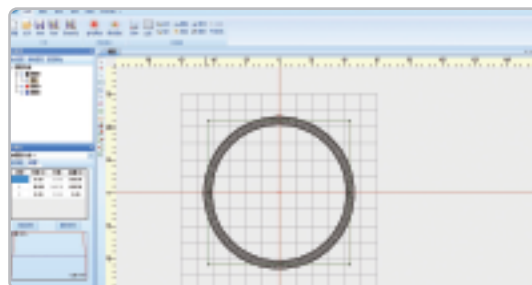
系统状态
System Status



日志
Log



能量波形
Energy Waveform



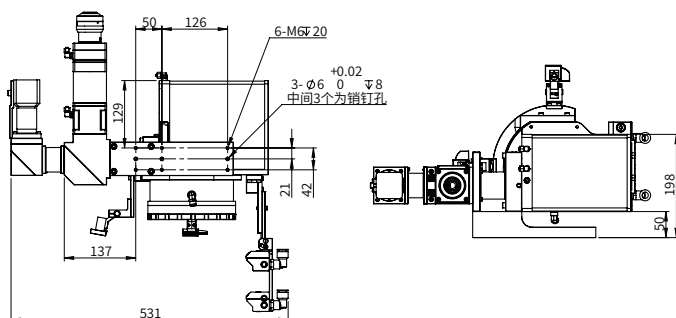
调试、自动焊接模式
Debugging Mode and Automatic Welding Mode

外形尺寸图

Technical Drawing

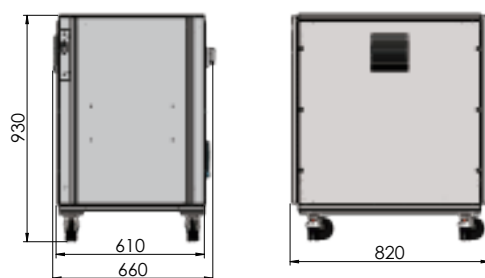
高功率焊接振镜外形安装尺寸

Installation dimension of high power welding galvo



机柜外形尺寸图

Technical drawing of cabinet



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