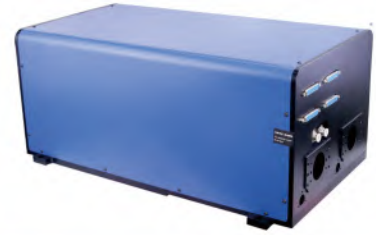




3D LARGE FORMAT METAL PRINTING SYSTEM

3D大幅面金属打印系统



□ 技术参数

TECHNICAL PARAMETERS

振镜参数 GALVANOMETER PARAMETERS		红外 IR
电机摆动角度	Scan Angle (°)	±10
位置分辨率	Position Resolution	2 ²³
重复标刻精度	Repeatability (urad)	1
最大增益漂移	Max.Gain Drift (ppm/k)	8
最大零位漂移	Max.Offset Drift(urad/k)	15
8小时以上漂移	Long-term Drift Over 8 Hours (mrad)	≤0.08
跟随误差	Tracking Error (ms)	≤0.70
增益误差	Gain Error (mrad)	< 5
零位误差	Zero Offset (mrad)	< 5
波长	Wavelength(nm)	1064
通光直径	Aperture Size (mm)	30
最大激光功率	Maximum Laser Power CW(W/cm ²)	3000

光学参数 OPTICAL PARAMETERS						
单振镜工作范围 Working range of single galvanometer(mm*mm)	300*300	350*350	400*400	450*450	500*500	600*600
双振镜工作重合区域 Overlap area of two galvanometers (mm*mm)	250*250	300*300	350*350	400*400	450*450	550*550
工作高度 (Y镜片距底面) Working height (Y mirror from bottom) (mm)	412.1	480.8	549.5	618.2	686.9	824.2
工作面最小光斑直径 ^① Minimum spot diameter of working face (1/e ²) μm	51.4-57.2	59.2-70	66.9-74.7	74.7-83.5	82.5-92.2	98-109.6
工作面最小光斑直径 ^② Minimum spot diameter of working face (1/e ²) μm	30	34.4	39.2	43.6	48	57.6
工作面最小光斑直径 ^③ Minimum spot diameter of working face (1/e ²) μm	40.4	46.4	52.8	58.4	64.8	76.8

注：① 光斑按照芯径20um换算 Spot calculated with 20um core diameter of fiber

② 按照平行光10mm入射计算 Calculated with 10mm diameter laser beam

③ 按照平行光7.5mm入射计算 Calculated with 7.5mm diameter laser beam

□ 外形尺寸图

TECHNICAL DRAWING

