

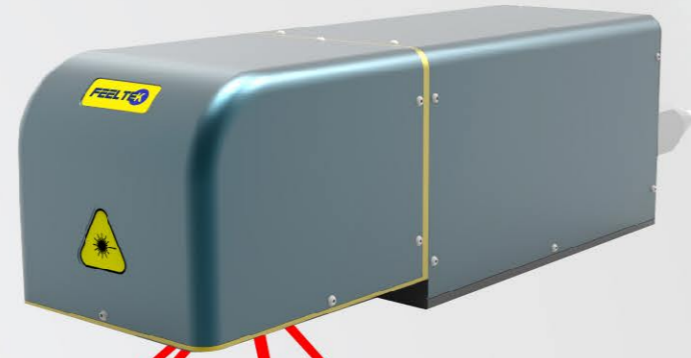
30 FR30-F(F30)

Support wavelength: 1064nm

High-end industry application

Larger work field

Smaller spot size

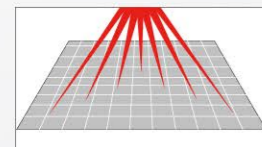


- Automatic focal adjust option for choose, finish work field and focal length switch through software.
- Support high power components customization, max. power up to 6KW.
- The optional off-axis CCD module, applied in positioning marking in moving line.
- The optical adjuster could solve the common difficulty of adjustment from QCS interface optical offset. Once adjusted, accurate to the central point.

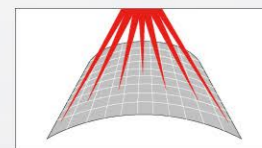
1200x1200mm

Flexible large field processing

Through the 3rd axis control to reach larger work field.



Achieve 1200*1200mm work field



Smaller spot size
Achieve 400*400*20 mm curved surface application, minimum spot size 0.028mm

3D Surface Processing

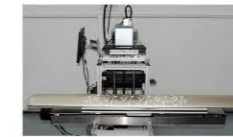
The FR30-F(F30) applies dynamic focus control technology, breaks the limitation of traditional marking, and can do no distortion marking in the large-scale surface, 3D surface, steps, cone surface, slope surface and other objects.

	Regular Scanhead	VS	FR30-F(F30)
Cylinder surface	+ + + + + Can not cover focal points at two edges, distorted edge marking effect		+ + + + +
Different steps	+ + + + + + + + + + Can not cover focal points on two different heights, no average marking		+ + + + + + + + + +
Cone surface	x x x x x Can not cover focal points on the cone, distorted marking effect		x x x x x
Slope surface	+ + + + + Can not cover focal points on the slope, distorted marking effect		+ + + + +

Application Highlight



- Large field marking
- Scribing
- Precision Mould
- Surface treatment
- Additive Manufacturing



Curved surface moving line application



Automotive industry components surface treatment



360° rotation marking



Large field marking



3D application

Product Technical Information

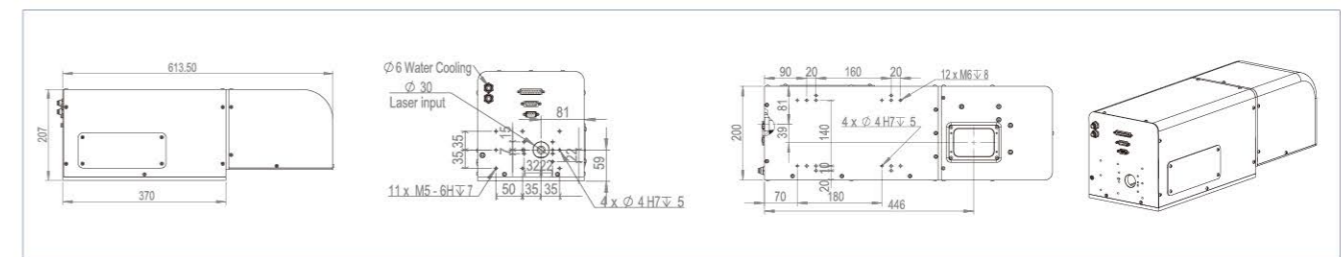
Technical Info.		Specifications	
Items	Input Voltage(VAC)	100V60HZ / 220V50HZ	
	Output Voltage(VDC)	±24VDC	
	Current(A)	5A (2 Sets)	
	Output Interface	XY2-100 Protocol	
	Input Interface	Communication interface USB	
	Weight (KG)	17	
	Size(mm)	613.5*200*242.5	
Optical Specifications	Aperture Size(mm)	30	
	Input beam diameter(mm)	7、8.5、10.5	
Galvanometer Specifications	Product line	Pro	P2
	Scan Angle(°)	±11	±11
	Repeatability(μrad)	8	5
	Max.Gain Drift(ppm/k)	100	50
	Max.Offset Drift(μrad/k)	30	15
	Long-term drift over 8h(mrad)	≤0.3	≤0.1
	Tracking Error(ms)	≤0.4	≤0.38
	Max.processing speed(charaters/s)	350@200×200	350@200×200

Standard Version

Working Field & Spot Diameter	Working Field(mm)	400×400×20	500×500×40	800×800	1000×1000	1200x1200
	The Min.Spot Diameter@1/e ² (mm)	0.028	0.032	0.049	0.064	Customized version
	Focal length(mm)	480	600	960	1200	

Large Field Version

Working Field & Spot Diameter	Working Field(mm)	600×600×50	800×800	1000×1000	1200×1200	1200x1200以上
	The Min.Spot Diameter@1/e ² (mm)	0.039	0.049	0.064	0.077	Customized version
	Focal length(mm)	720	960	1200	1440	



FR-10mm 3D Serial
FR-15mm 3D Serial
FR-20mm 3D Serial
FR-30mm 3D Serial
FR-40mm 3D Serial
FR-70mm 3D Serial
FE 2.3D Serial
2D Serial
Module & Control System
Software & Application Platform