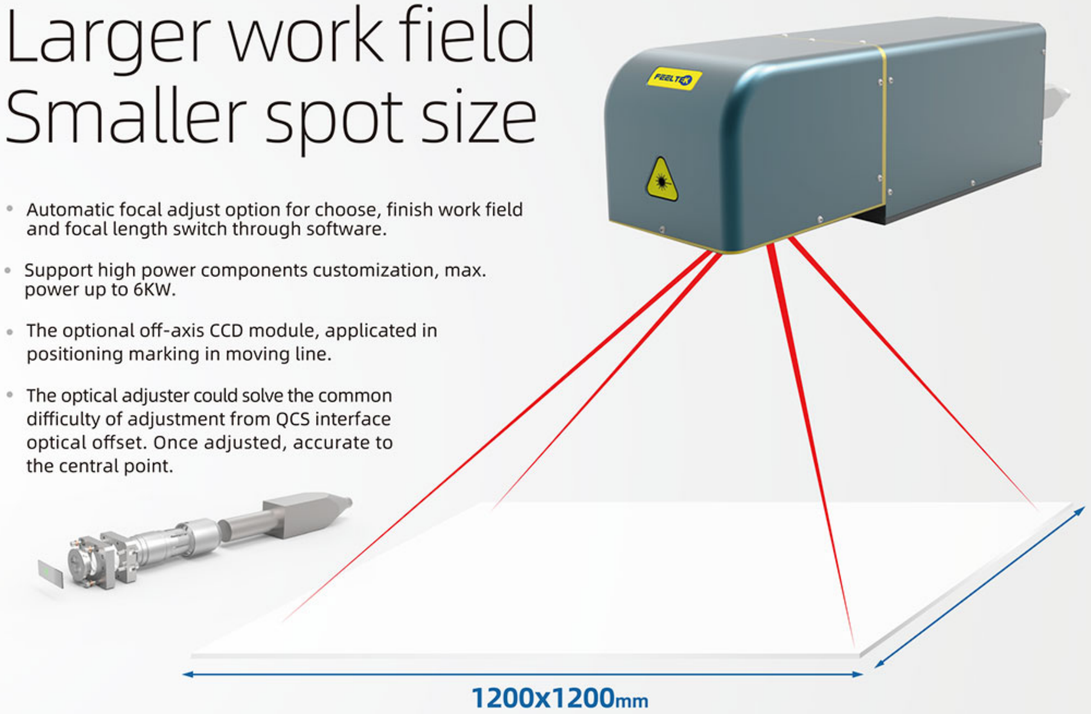
3D FR30-F

Support wavelength: 1064nm

High-end industry application

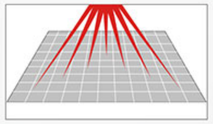
Larger work field
Smaller spot size

- 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, applicated 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.

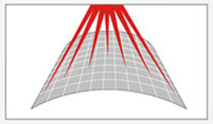


Flexible large field processing

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



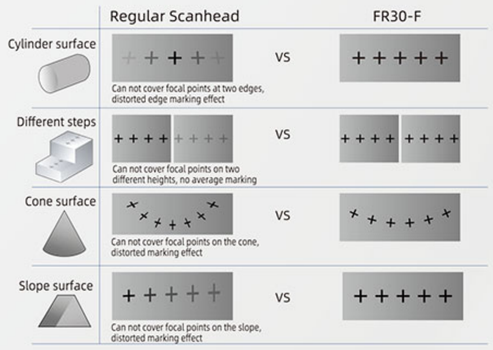
Achieve 1200*1200mm work field



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

3D Surface Processing

The FR30-F 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.



Application Highlight

APPLICATIONS

- 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	Output Voltage(VDC)	±24					
	Current(A)	10A					
	Protocol	XY2-100 Protocol					
	Weight（KG）	17					
	Size(mm)	613.5*200*242.5					
Optical Specifications	Aperture Size(mm)	30					
	Input beam diameter(mm)	8.5					
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)	≤0.2			≤0.1		
	Tracking Error(ms)	≤0.44			≤0.44		
	Max.processing speed(characters/s)	350@400×400			350@400×400		

Curved surface Version

Working Field & Spot Diameter	Working Field(mm)	400×400×20	500×500×50	600×600×80	800×800×120	1000×1000×200	1200x1200x200
	The Min.Spot Diameter@1/e^2(mm)	0.028	0.032	0.039	0.049	0.064	Customized version
	Focal length(mm)	480	600	720	960	1200	

Large Field Version

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