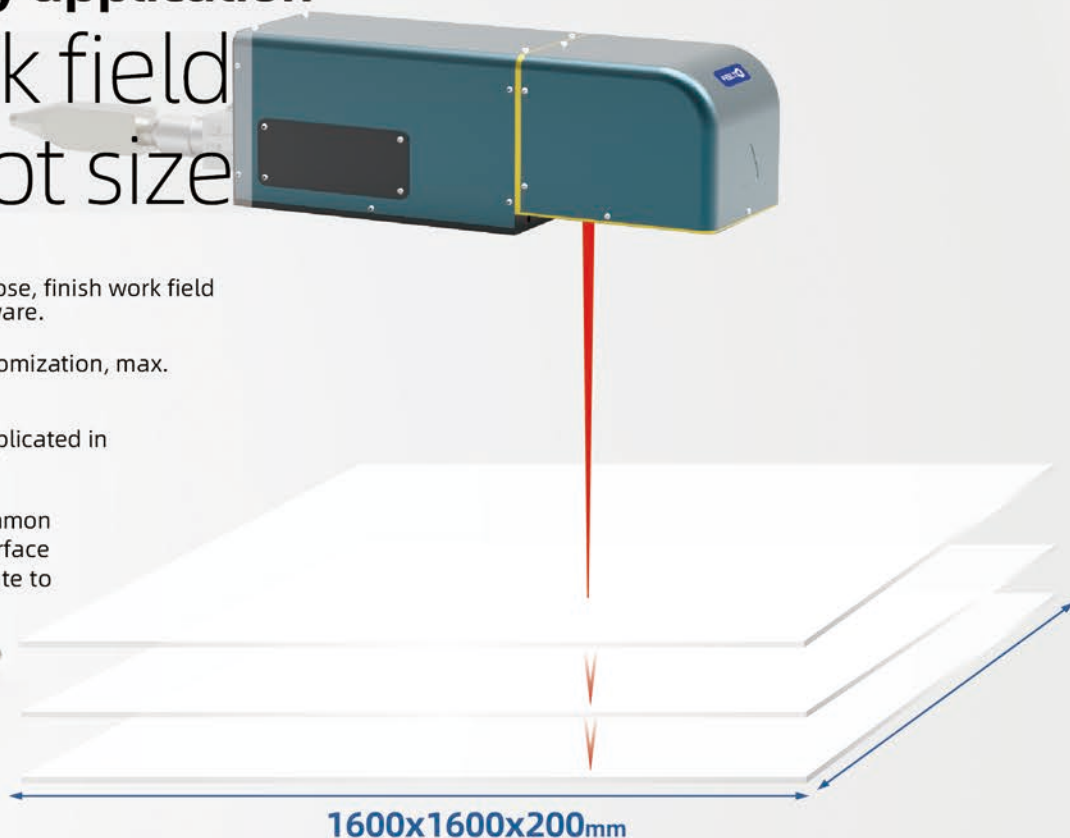


High-end industry application

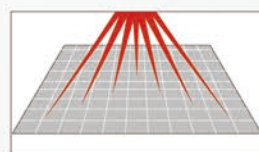
Larger work field
Smaller spot size

- 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.

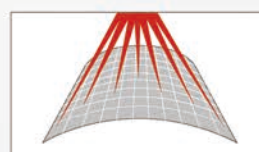


Flexible large field processing

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



Achieve 1600*1600*200mm work field.



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

3D Surface Processing

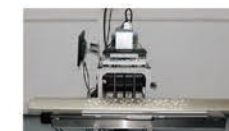
The FR30-F applies dynamic focus control technology, breaks the limitation of traditional marking, and can do no distortion marking in the large-scale surface, 3D surface, steps, cone surface, slope surface and other objects.

	Regular Scanhead	VS	FR30-F
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	Can not cover focal points on the cone, distorted marking effect		
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



Irregular large format texture etching



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@400x400	350@400x400

Small Field Version

Working Field & Spot Diameter	Working Field(mm)	400x400x20	500x500x50	600x600x80	800x800x120	1000x1000x200	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)	800x800x0	1000x1000x100	1200x1200x200	1500x1500x200	1600x1600x200
	The Min.Spot Diameter@1/e ² (mm)	0.049	0.064	0.077	0.102	0.11
	Focal length(mm)	960	1200	1440	1800	1920

