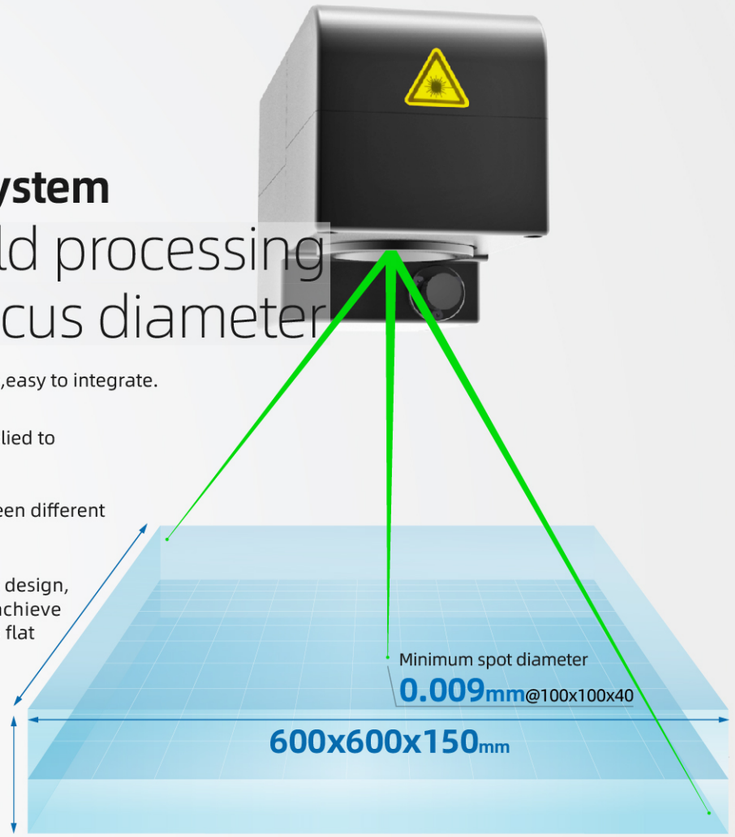
20 FR20-G20

Support wavelength:532nm

3D Dynamic Focus System

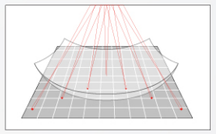
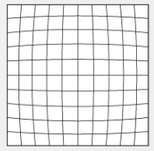
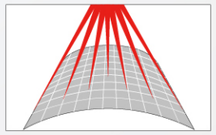
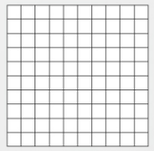
Flexible large field processing
Extreme small focus diameter

- CNC shell,dust prevention,compact structure,easy to integrate.
- Optional water cooling design, it can be applied to high-temperature drift requirements.
- The adjustment knob is used to switch between different work fields without replacing any parts.
- Double driving Z axis dynamic focus module design, response frequency≥100HZ@±10°,easy to achieve Z depth150mm@300mmx300mm,applied to flat surface,3D surface high speed processing.



Flexible large 、3D field processing

Through the dynamic focus system control, it can be operated from 100*100*40mm to 600*600*150mm work field.
Process highlight: large size curved glass coating removal.

Regular Scanhead	 The closer to the edge, the bigger the spot is, the marking range is limited.	 Deformation due to its characteristics.
FR20-G(G20)	 Achieve 0.026mm spot size under 600*600*150mm	 Marking with uniform effect under super large work field

Application Highlight

APPLICATIONS

- Large field marking
- Laser Scribing
- Drilling
- Laser Cutting
- 3D application
- PCB marking


Precision marking (20X magnification)


Large size curved glass coating removal

Product Technical Information

	Technical Info.	Specifications					
Items	Input Voltage(VAC)	100V60HZ / 220V50HZ					
	Output Voltage(VDC)	±15VDC					
	Current(A)	5A（2 Sets）					
	Output Interface	XY2-100 Protocol					
	Input Interface	Communication interface USB					
	Weight（KG）	12.5					
	Size(mm)	346*134*183.5					
Optical Specifications	Aperture Size(mm)	20					
	Input beam diameter(mm)	6.5					
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)	≤0.28			≤0.27		
	Max.processing speed(charaters/s)	350@200×200			350@200×200		
Working Field & Spot Diameter	Working Field(mm)	100×100×40	200×200×120	300×300×150	400×400×150	500×500×150	600×600×150
	The Min.Spot Diameter@1/e^2(mm)	0.009	0.015	0.021	0.027	0.032	0.041
	Focal length(mm)	120	240	360	480	600	720