Variable Beam Laser System

Flux H series

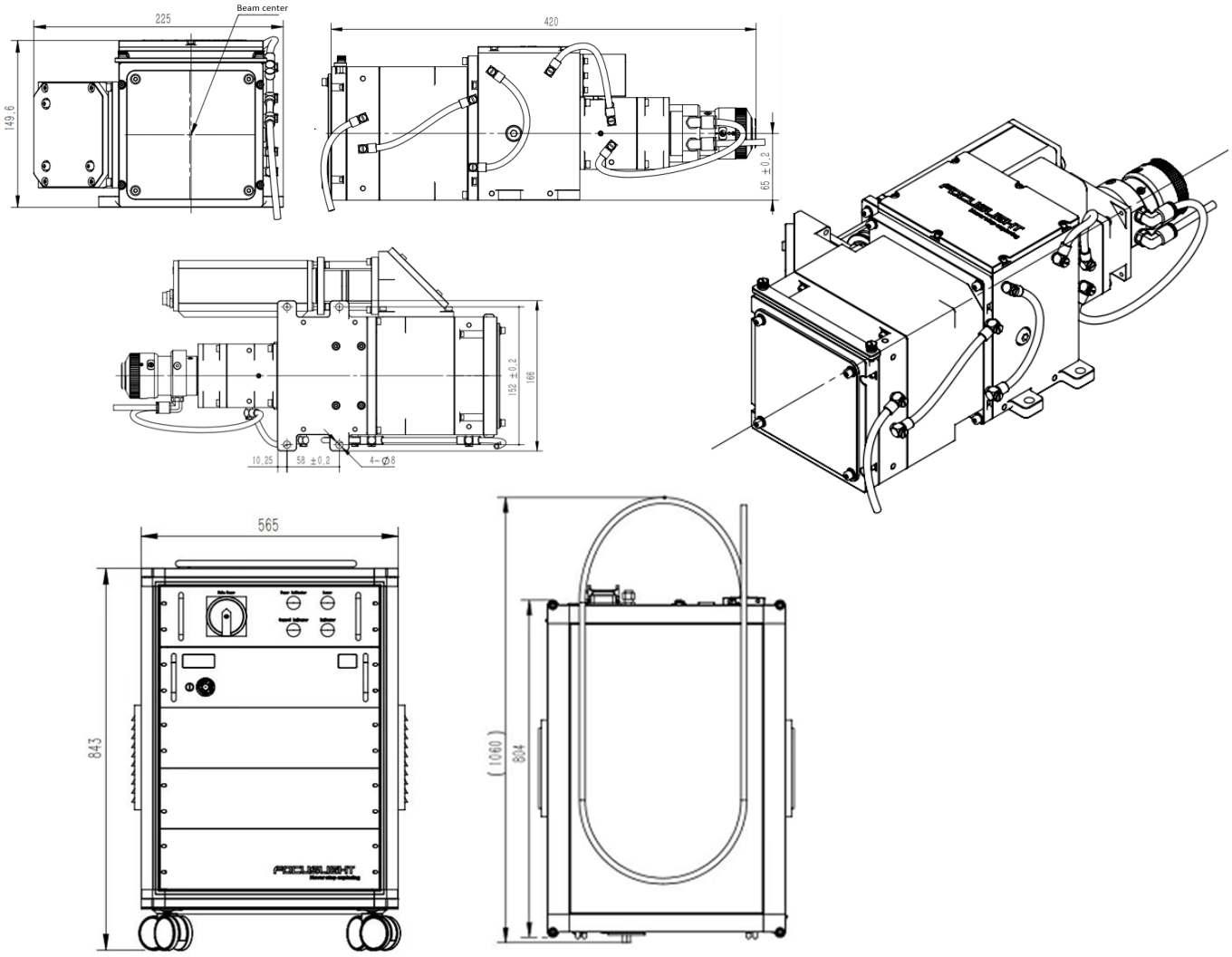
Features

- Adjustable beam size
- Easy maintenance
- Security monitoring
- High conversion efficiency
- Pyrometer
- Closed-loop control

Applications

- Non contact heating
- Laser assisted bonding
- Laser mass soldering
- Laser drying
- Material surface treatment

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Focuslight Technologies Inc.
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Tel: +86 29 8188 9945 | **Email:** sales@focuslight.com | **Website:** https://www.focuslight.com

Product Specifications

Product Code		**(Typical Customization)**
Part No.		FL-Flux-H4000X
General Data	**Unit**	**Value**
Laser Process Head Dimensions (Height × Width × Depth)	mm	150mm x 205mm x 425mm
Max. Weight (Laser Process Head)	kg	15
Control Cabinet Dimensions (Length × Width × Depth)	mm	804mm x 565mm x 843mm
Max. Weight (Control Cabinet)	kg	70
Laser Data		
CW-nominal Output Power	W	4000
Wavelength	nm	976±10
Fiber Diameter	μm	800
Fiber Length	m	10
Fiber Plug Type	-	QBH
Electrical Data		
Operating Voltage	V	380
Max. Operation Current	A	16
Supply Frequency	Hz	50 - 60
Number of Leads	-	3L + N + PE
Thermal Data		
Operating Temperature	°C	5 ~ 45
Storage Temperature	°C	5 ~ 45
Chiller Type	-	Water-cooled
Pyrometer Data		
Detection Wavelength	nm	2000-2600
Temperature Measurement Range	°C	50-800
Temp. Control Precision	°C	±5
Sampling Rate (Standard)	kHz	>1
Interfaces Data		
Interface Type	-	RS232/Analog I/O
Socket Type	-	DB9/DB25
Chiller Data[2] (Optional)		
Flow Parameter	L/min	>30
Cooling Requirements	-	Two ways(Laser head + control cabinet)
Water Temp.	°C	25±3
Water Pressure	bar	3-5.3
Cooling Capacity	kW	>4.5

[1] Part No. = Brand Code - Series - Power - Features

[2] The system can be used combined with chillers ordered from Focuslight or compatible chillers with the same capacity.

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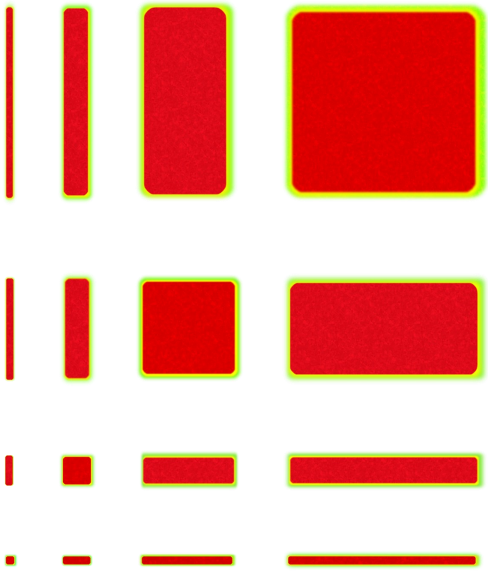
Product Specifications

Product Code		**(Typical Customization)**
Part No.		FL-Flux-H4000X
Optical Data		
Working Distance	mm	300/400/700
Focal Depth	mm	2
Line Length X-direction[3](top-hat)	mm	2-20/20-100/100-200
Line Length Y-direction[3] (top-hat)	mm	2-20/20-100/100-200
Uniformity of X and Y-direction[4]	-	›95%
The optical efficiency	-	›90%

[3] Beam length and width fixation or adjustable

[4] Uniformity test standard conforms to ISO 13694



Examples of beam size ranges at different working distance

Working Distance	Beam Size Range
300 mm	2 mm * 2 mm — 20 mm * 20 mm
400 mm	20 mm * 20 mm — 100 mm * 100 mm
700 mm	100 mm * 100 mm — 200 mm * 200 mm

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