HAN'S COMPONENTS

IR Picosecond Laser

HL SERIES

HL-PS-1064-30

The IR Picosecond Laser excels in precision micromachining and is widely used for processing brittle and superhard materials.

Application

- Burst pulse output
- 24/7 precision manufacturing
- Single shot repetition rate up to 4000 kHz
- Optional dual-wavelength output function .....
- POL/POD output with PC remote control

Features

- Precise shaping of superhard items
- Deep processing of metal material
- Logo marking on the surface of high-end electronics
- Cutting and drilling of plastics, oxides and organic materials
- Micro-machining of brittle materials such as glass, sapphire and ceramics

Sample Display

QR code marking of metal medical devices

Stainless steel watch back cover marked with deep characters

Ceramic Cover Plate Cutting

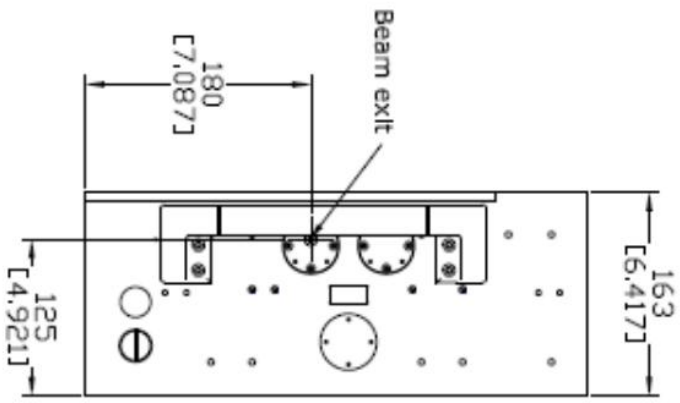
Plastic film surface coating removal

Technical Parameters

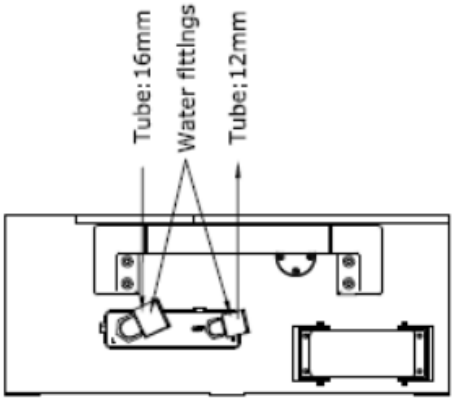
	HL-PS-1064-30
Optical Parameters	
Wavelength	1064 nm
Average Output Power	>30W at 1000kHz,1burst
Repetition Rate	Single pulse-4000kHz
Pulse Width	＜10 ps
Pulse-to-Pulse Stability (rms)	＜2% rms
Average Power Stability(rms)	<1.5% over 40 hours
Beam Characteristics	
Spatial Mode	TEM_{00}
Beam Quality	M^2＜1.4
Polarization Ratio	＞100:1(vertical)
Beam Diameter	2.0mm ± 0.3mm
Divergence Full Angle ($1/e^2$)	＜2 mrad
Circularity	＞ 90%
Working Conditions	
Power Supply	100 to 240VAC auto ranging； 50 to 60Hz auto ranging
Warm-up Time	<10 minutes from standby mode; <30 minutes from cold start
Temperature Range	+15 ℃ to +28 ℃ (opration), 0 ℃ to +50 ℃ (non-opration)
Humidity Range	0 to 80%, non-condensing
Cooling Requirements	Water cooling, cooling capacity≥1000W, accuracy±0.1℃, flow rate≥6L/min
Physical Properties	
Laser Dimensions	833 mm × 400 mm × 163 mm (L × W × H)
Laser Weight	56 kg

▶ All specifications are typical data and subject to change without notice due to product improvements.

Laser Dimensions (mm)

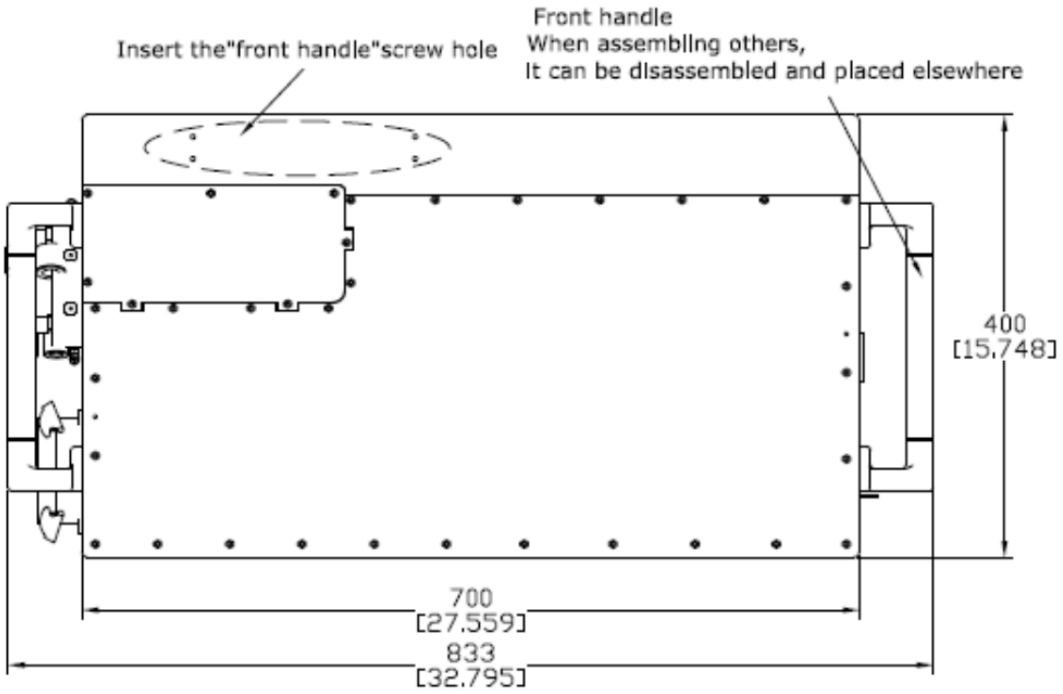


Front View

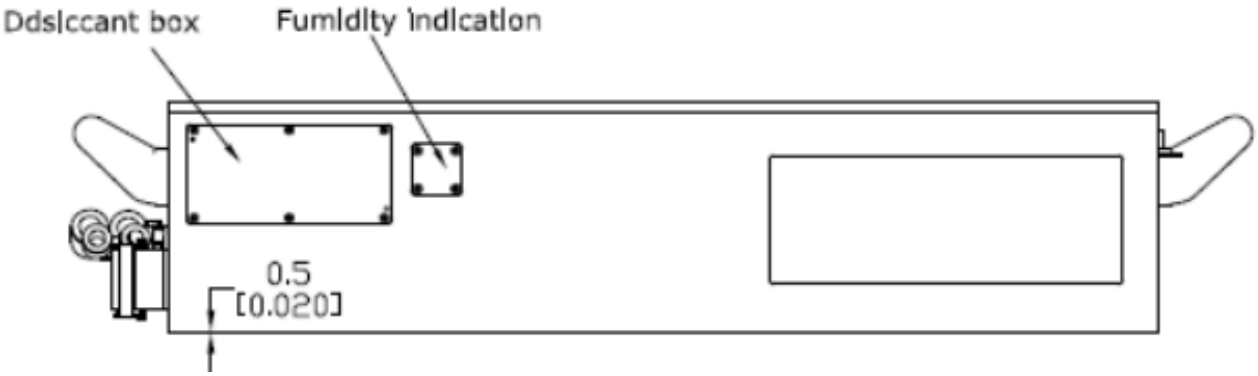


Side View

Top View



Side View



Power Supply