

IR Picosecond Laser

HL SERIES

HL-PS-1064-10-S



This HL-PS-1064-10-S is compact, all-in-one design with reliable performance and widely used for processing brittle and superhard materials.

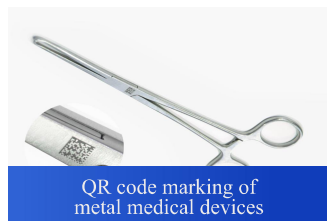
► Application

- All-in-one design
- 24/7 precision manufacturing
- Adjustable number of pulses in burst
- Adoption of self-developed seed sources
- 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
- Traceability marking with functions such as acid etching and oxidation resistance

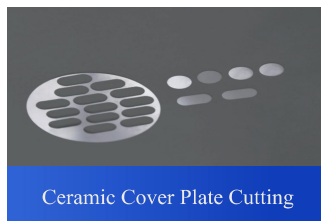
► Sample Display



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-1064-10-S

Optical Parameters

Wavelength	1064 nm
Out Power	10 W
Repetition Rate	Single pulse-4000kHz
Pulse Width	< 10 ps
Pulse-to-Pulse Stability (rms)	< 2% rms

Beam Characteristics

Spatial Mode	TEM ₀₀
Beam Quality	M ² < 1.4
Polarization Ratio	> 100:1(vertical)
Beam Diameter	1.7mm ± 0.3mm
Divergence Full Angle (1/e ²)	< 2 mrad
Circularity	> 90%

Working Conditions

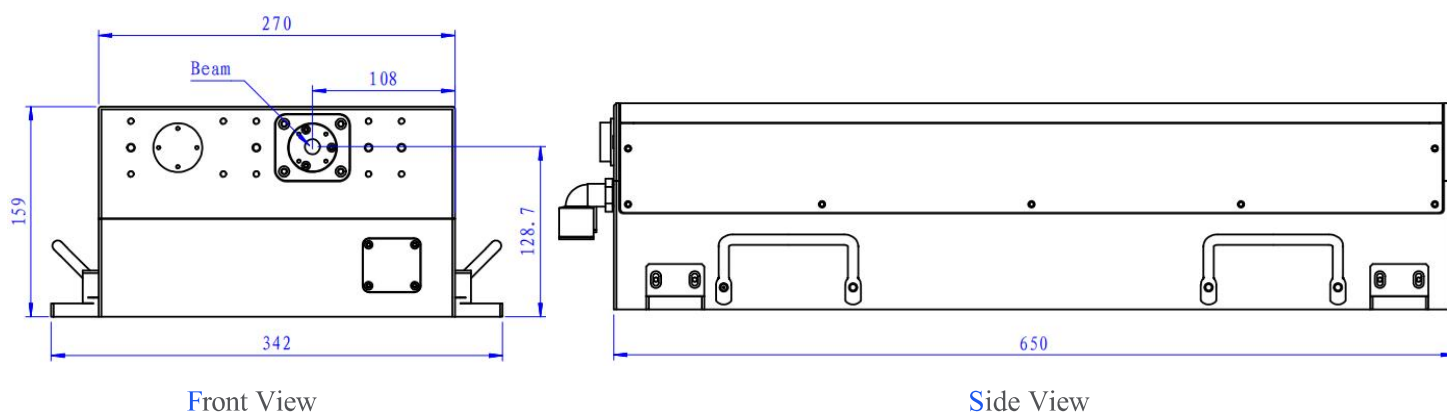
Power Supply	100 VAC to 240 VAC auto-ranging; 50 Hz to 60 Hz auto-ranging
Warm-up Time	Time from standby to ready < 10 minutes
Temperature Range	+15 °C to +28 °C (operation), 0 °C to +50 °C (non-operation)
Humidity Range	< 70%, non-condensation
Cooling Requirements	Water cooling, cooling capacity ≥ 500W, accuracy ± 0.1 °C, flow rate ≥ 6L/min*

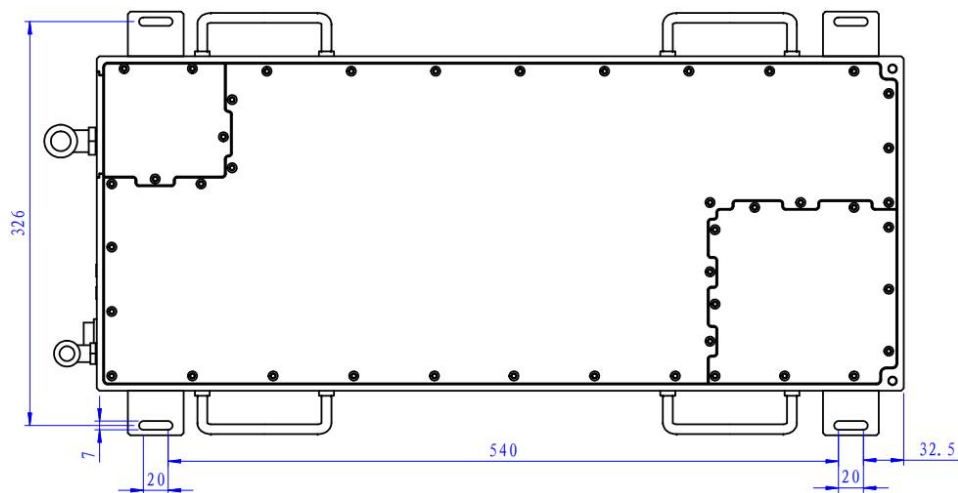
Physical Properties

Laser Dimensions	650 mm × 326 mm × 159 mm (L × W × H)
Laser Weight	38.2 kg
Water Chiller Dimensions	533 mm × 326 mm × 605 mm (L × W × H)
Water Chiller Weight	33.5 kg

- All specifications are typical data and subject to change without notice due to product improvements.
- Recommended Chiller → Brand: HANSUN, Cool Model: HC005H3-02B

Laser Dimensions (mm)

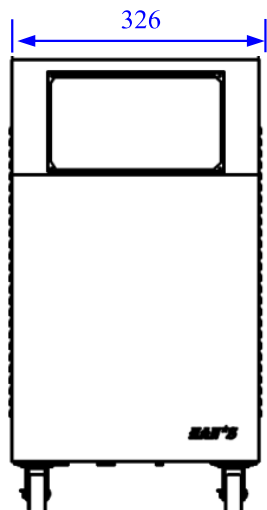




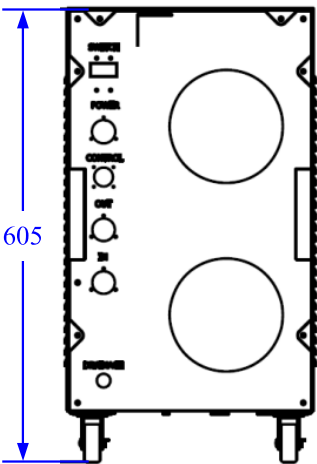
Water Chiller Dimensions (mm)

HC005H3-02B

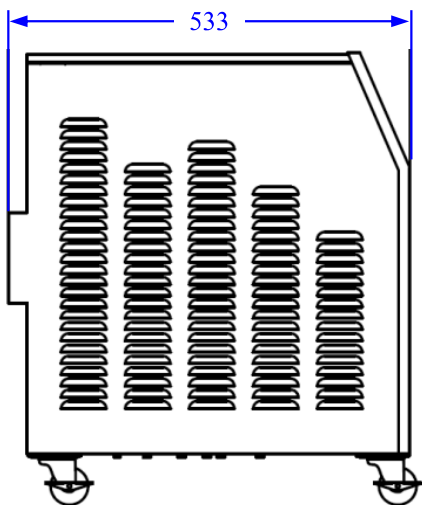
533 mm × 326 mm × 605 mm (L × W × H)



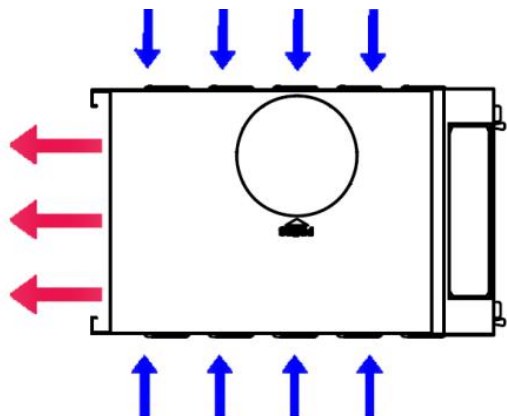
Front View



Back View



Side View



Top View