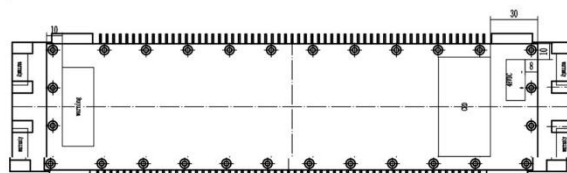
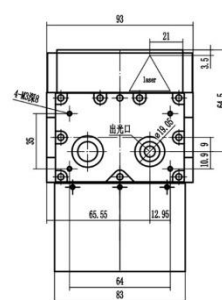
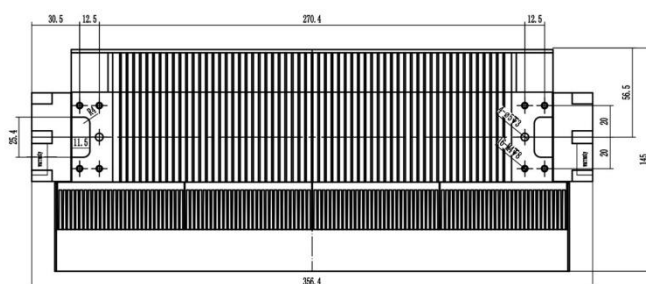
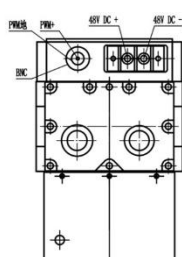


# 30W – CR30C RF CO2 Laser

The CR30C RF CO2 laser provides 30W output power, adopts the design of sealed waveguide and integrated RF power supply, and has high product reliability. It can work continuously for 7×24 hours in harsh industrial environments. The CR30C laser has excellent beam quality and power stability. The laser wavelength ranges from 9.3 to 10.6μm, and can be configured with air cooling and water cooling. These features make it the first choice for high-performance laser marking and engraving systems, and it only requires very low use and maintenance costs. The CR30C laser is an ideal choice for laser processing of many materials, including paper, plastic, acrylic, wood, rubber, leather, cloth and density fiberboard.



## CR30C Specification

MODEL	CR30C	CR30Ch	CR30Ci
Wavelength (μm)	10.55 - 10.63 μm	10.11 - 10.31 μm	9.24 - 9.35 μm
Output Power (W) <sup>①</sup>	> 40 W	> 35 W	> 30 W
Power Stability (%) <sup>②③</sup>	< ±5%		
Mode Quality (M²)	< 1.2		
Beam Ellipticity	< 1.2		
Beam Diameter(1/e²)	2 ± 0.2 mm		
Full-Angle Beam Divergence (mrad)	< 7		
Light Outlet Height (mm)	64.5 mm		
Typical Polarization (parallel to baseplate)	> 100:1		
Pulse Frequency (kHz)	0 - 50 kHz		
Duty Cycle Limit (%)	0 - 100%		
Weight	6.5 kg(Fan) / 5.9 kg(Water)		
Dimensions (L x W x H)	357 × 93 × 145 mm(Fan) / 390× 93 × 95 mm(Water)		
Cooling	Fan / Water		
Heat Load (W)	550 W		
Input Power			
DC Input Voltage (VDC)	48 VDC		
DC Input Current (A)	11 A		
Environment Condition			
Maximum Case Temperature	< 60℃		
Environment Temperature	5℃ ~ 40℃		
Altitude	< 2000m		
Humidity	< 95%, Non-Condensing		
Shipping / Storage Environment	-10℃ ~ 60℃, Non-Condensing		
Coolant			
Dynamic Coolant Flow Rate (l/min.)	4L / min		
Coolant Temperature Range	20 - 25 ℃		
Coolant Maximum Pressure (kPa)	< 0.6 MPa		

The above specifications are subject to change without prior notice.

① Measured at temperature of 25°C. For every 1°C increase above 25°C, the output power decreased by approximately 1%

② Power Stability definition: At a constant water temperature,  $\pm (P_{max}-P_{min})/(2P_{max})$

③ Power Stability measurement conditions: At normal working conditions, with a constant duty cycle, after 10 minutes of laser output