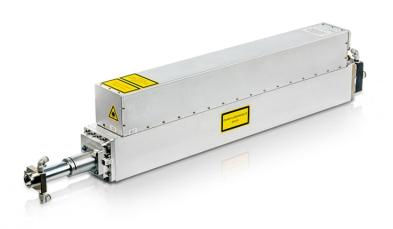
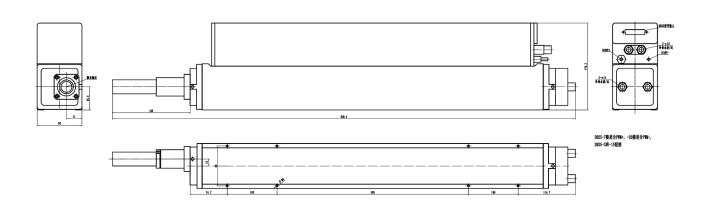


100W - CR150 RF CO2 Laser

The CR150 RF CO2 laser provides an output power of 150W and a peak power of over 380W. The product adopts an integrated design of slat discharge and RF power supply, which is compact and highly reliable. It can work continuously for 7×24 hours in harsh industrial environments. The CR150 laser has excellent beam quality and fast pulse rise/fall time, which can minimize the heat-affected zone, achieve excellent processing results and improve process efficiency. The laser wavelength ranges from 9.3 to 10.6μm. These features make it the first choice for high-performance laser engraving and laser cutting, and it only equires very low use and maintenance costs. The CR150 laser is an ideal choice for laser processing of many materials, including medical beauty, leather carving, automotive interior parts cutting, cloth cutting, glass/ceramic surface engraving, glass cracks, large-format marking, flexible integrated circuit drilling and 3D printing.







CR150 Specification

MODEL	CR150	CR150i
Wavelength (μm)	10.5 - 10.7 μm	9.2 - 9.4 μm
Output Power (W) $^{ extstyle ilde{ i}}}}}}}}}}}}}}}}}}} } } }$	> 150 W	> 120 W
Power Stability (%) ^{2/3}	< ±5%	
Peak Power(W)	> 380 W	>280 W
Mode Quality (M²)	< 1.2	
Beam Elipticity	< 1.2	
Beam Diameter(1/e²)	2.2 mm	
Full-Angle Beam Divergence (mrad)	< 6.6	
Light Outlet Height (mm)	46.4 mm	
Typical Polarization (parallel to baseplate)	> 100:1	
Pulse Rise/Fall Time(μs)	< 60 μs	
Pulse Width	2 - 400 μs	
Pulse Frequency (kHz)	1 - 100 kHz	
Duty Cycle Limit (%)	0 - 50%	
Weight	15 kg	
Dimensions (L x W x H)	946 × 90 × 175 mm	
Cooling	Water	
Heat Load (W)	2kW	
Input Power		
DC Input Voltage (VDC)	48 VDC	
DC Input Current (A)	40 A	
Peak Current (A)	80 A	
Environment Condition		
Maximum Case Temperature	< 60°C	
Environment Temperature	5°C ~ 40°C	
Altitude	< 2000m	
Humidity	< 95%, Non-Condensing	
Shipping / Storage Environment	-10°C ~ 60°C, Non-Condensing	
Coolant		
Dynamic Coolant Flow Rate (I/min.)	6L / min	
Coolant Temperature Range	20 - 25℃	
Coolant Maximum Pressure (kPa)	< 0.6 MPa	

The above specifications are subject to change without prior notice.

 $[\]textcircled{1} \ \ \text{Measured at temperature of 25°C. For every 1°C increase above 25°C, the output power decreased by approximately 1% of the output power decreased by 100 for 100$

² Power Stability definition: At a constant water temperature, ± (Pmax-Pmin)/(2Pmax)

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