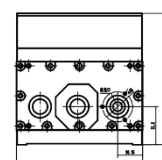
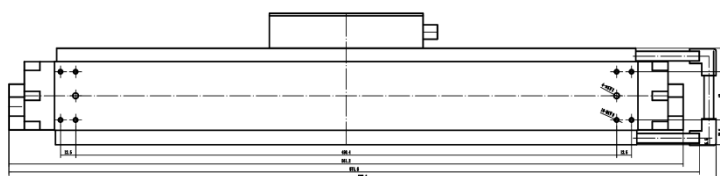
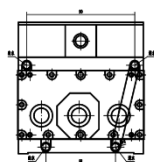
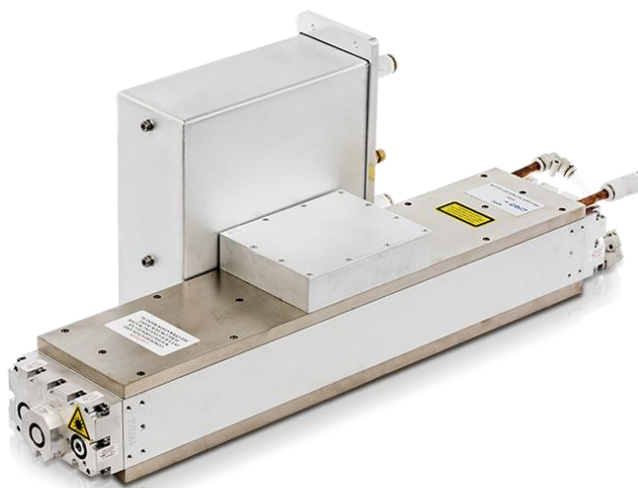


100W – T100 RF CO2 Laser

The T100 RF CO2 laser is a continuous laser that provides 120W output power. The product adopts a slat discharge design. It has high product reliability and can work continuously for 7×24 hours in harsh industrial environments. The T series laser provides excellent beam quality and power stability. The T series laser has extremely short 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 systems, and it only requires very low use and maintenance costs. The T100 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.



T100 Specification

MODEL	T100	T100h	T100k	T100i
Wavelength (μm)	10.6 μm	10.2 μm	9.6 μm	9.3 μm
Output Power (W) ^①	> 120 W	> 120 W	> 100 W	> 110 W
Power Stability (%) ^{②③}	< ±5%			
Mode Quality (M ²)	< 1.2			
Beam Ellipticity	< 1.2			
Beam Diameter(1/e ²)	2 ± 0.2 mm			
Full-Angle Beam Divergence (mrad)	< 7			
Light Outlet Height (mm)	31.5 mm			
Typical Polarization (parallel to baseplate)	> 100:1			
Pulse Rise/Fall Time(μs)	< 60 μs			
Pulse Frequency (kHz)	0 - 50 kHz			
Weight	Laser Cavity 11 kg / RF Power 4 kg			
Dimensions (L x W x H)	Laser Cavity 590 × 105 × 109 mm / RF Power 230 × 230 × 88 mm			
Cooling	Water			
Heat Load (W)	2 kW			
Input Power				
DC Input Voltage (VDC)	48 VDC			
DC Input Current (A)	40 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 (l/min.)	6L / min			
Coolant Temperature Range	20 - 25 °C			
Coolant Maximum Pressure (kPa)	< 0.6 MkPa			

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