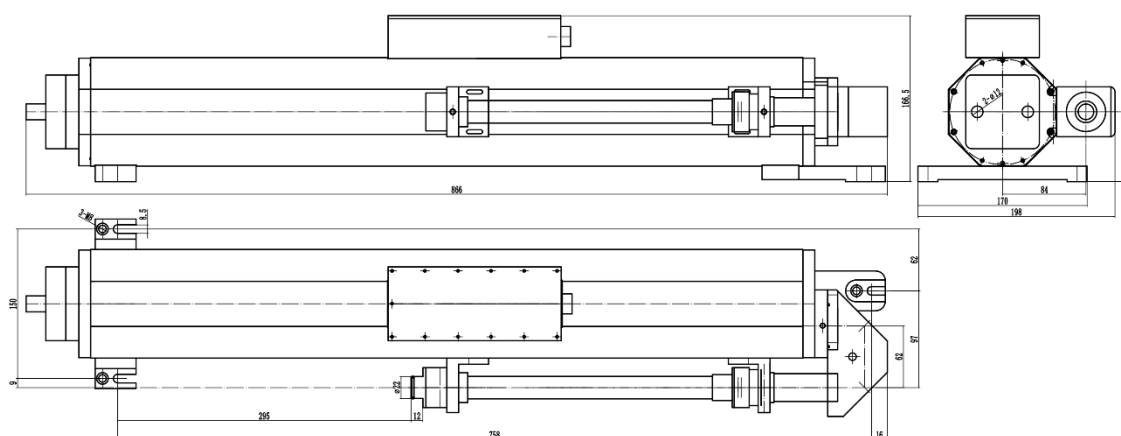
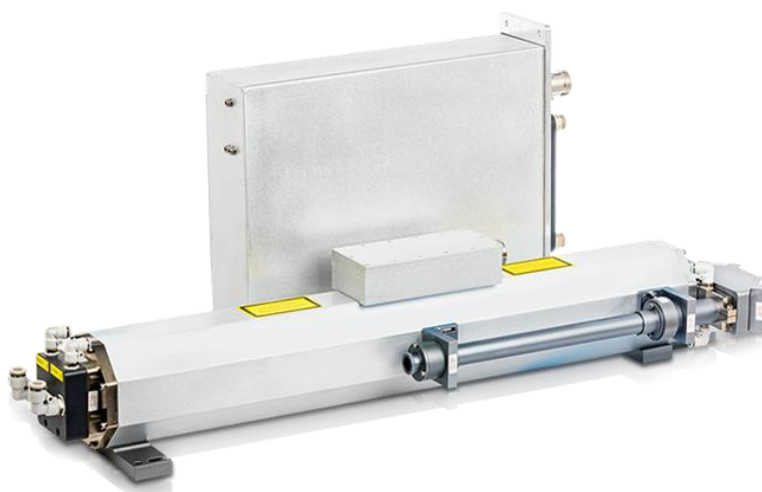


## 200W – M20 RF CO2 Laser

The M20 RF CO2 laser is a pulsed laser with an average power of over 250W and a peak power of over 600W. The product adopts a slat discharge design, with high product reliability, and can work continuously for 7×24 hours in harsh industrial environments. The M20 laser has excellent beam quality and fast pulse rise/fall time, which can minimize the heat affected zone. The laser wavelength ranges from 9.3 to 10.6μm, with good power stability, which can achieve excellent processing results and improve process efficiency. These features make it the laser of choice for high-performance laser processing systems, and it only requires very low use and maintenance costs. The M20 laser is an ideal choice for laser processing of many materials. Applications include laser cutting, glass splintering, automotive parts processing, cloth cutting, laser cleaning, large-format marking, medical beauty and 3D printing.



## M20 Specification

MODEL	M20	M20i
Wavelength (μm)	10.5 - 10.7 μm	9.2 - 9.4 μm
Output Power (W) <sup>①</sup>	> 250 W	> 220 W
Power Stability (%) <sup>②③</sup>	< ±5%	
Peak Power(W)	> 600 W	>500 W
Mode Quality (M²)	< 1.2	
Beam Ellipticity	< 1.2	
Beam Diameter(1/e²)	7.5 mm	
Full-Angle Beam Divergence (mrad)	< 2.1	
Light Outlet Height (mm)	70 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	Laser Cavity 16 kg / RF Power 12 kg	
Dimensions (L x W x H)	Laser Cavity 1070 × 180 × 147 mm / RF Power 600 × 305 × 100 mm	
Cooling	Water	
Heat Load (W)	< 4 kW	
Input Power		
DC Input Voltage (VDC)	48 VDC	
DC Input Current (A)	80 A	
Peak Current (A)	160 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.)	12L / min	
Coolant Temperature Range	20 - 25 °C	
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