

**ACCESS LASER**

Member of the TRUMPF Group

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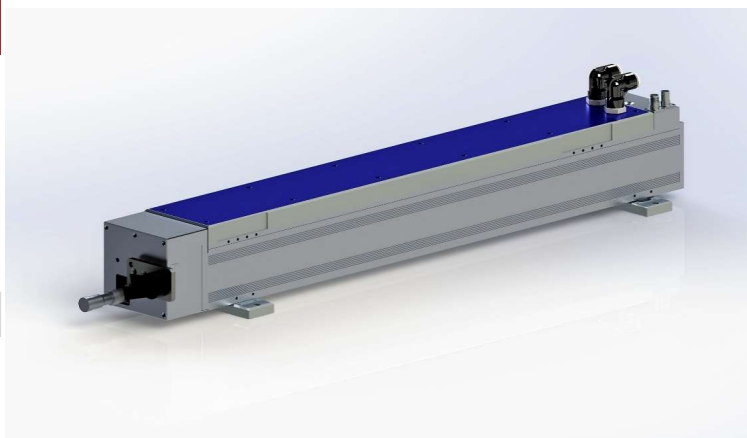


AL50-GS-CO-WCCL

Access Laser's AL50-GS-CO-WCCL is a stabilized, grating enabled variant of our core 50W product with a Carbon Monoxide gas fill to enable lasing in the 5 μ m regime. We guarantee a high level of power stability at $\pm 2\%$ while providing single line emission at a number of lines across the between 5.2 μ m - 5.8 μ m. This RF excited sealed tube CO laser is well suited for scientific investigation, providing the solution researchers demand.

Dimensions & Weight

Laser Weight ²	46 lbs
Dimensions (L x W x H, inch)	33.2 x 3.94 x 5.98
RF Driver Weight	14 lbs



Specifications

Laser Power

Wavelength (μ m)	5.2 to 5.8	Supply Voltage	28VDC 1kW Regulated
CW Power (W)	1.5	Electronic PWM Parameters	Frequency up to 100KHz, Duty Cycle 0-100%
² Peak Power (W)	1.5		
¹ Power Stability ($\pm\%$)	2		

DC Power Requirements

Beam Characteristics

Beam Waist Diameter (mm)	2.4	Heat Dissipation	< 600W
Waist Location	Output Coupler	Cooling Requirement	Water Cooled Closed Loop
² Mode Quality (M ²)	<1.2	Working Temperature (°C)	15-40
Full Div. Angle (mrad)	5.5		

Heat & Cooling

Optical Parameters

Polarization	>20:1 Fixed Linear Vertical
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Notes

¹Power Stability calculated in CW at thermal equilibrium $\pm \frac{(P_{max} - P_{min})}{(P_{max} + P_{min})}$

²Beam specifications measured at $\frac{1}{e^2}$

Water Cooling

Min Flow Rate: 3.8 lpm (1 gpm)

Recommended Flow Rate: 9.5 lpm (2.5 gpm)

Max Pressure: 10 bar (150 psi)

Required Chiller Stability of ± 0.1 °C

Storage Temperature Range: 5-50 °C

Options Available

Real Time Power Monitoring

All measurements taken at the strongest line.

Specific power at defined lines cannot be guaranteed for standard orders

All are specifications are subject to change without notice.