

PowerLine Pico 50

High-Power Short-Pulse Laser for Marking and Micro Processing

PowerLine Pico 50 laser markers from Coherent feature an unconventional pulse width of 0.5 ns and offer unique marking, thin film cutting and ablation capabilities. Short pulses allow smaller alphanumeric and 2D code marking, improve precision of material removal, and overall reduce thermal effects when compared to common q-switched ns lasers. In comparison with the PowerLine Pico 10 series, the PowerLine Pico 50 has significantly higher output power and is equipped with an additional external modulator that eliminates pulse rise delays. The PowerLine Pico 50 will offer solutions where conventional marking lasers deliver unsatisfying results.

FEATURES & BENEFITS

- Unique pulse width, unique material interaction
- 1064 nm or 532 nm
- Integrated laser positioning help
- External modulator for ultra-precise pulse control
- Water/Air-cooled laser
- Low operating costs

APPLICATIONS

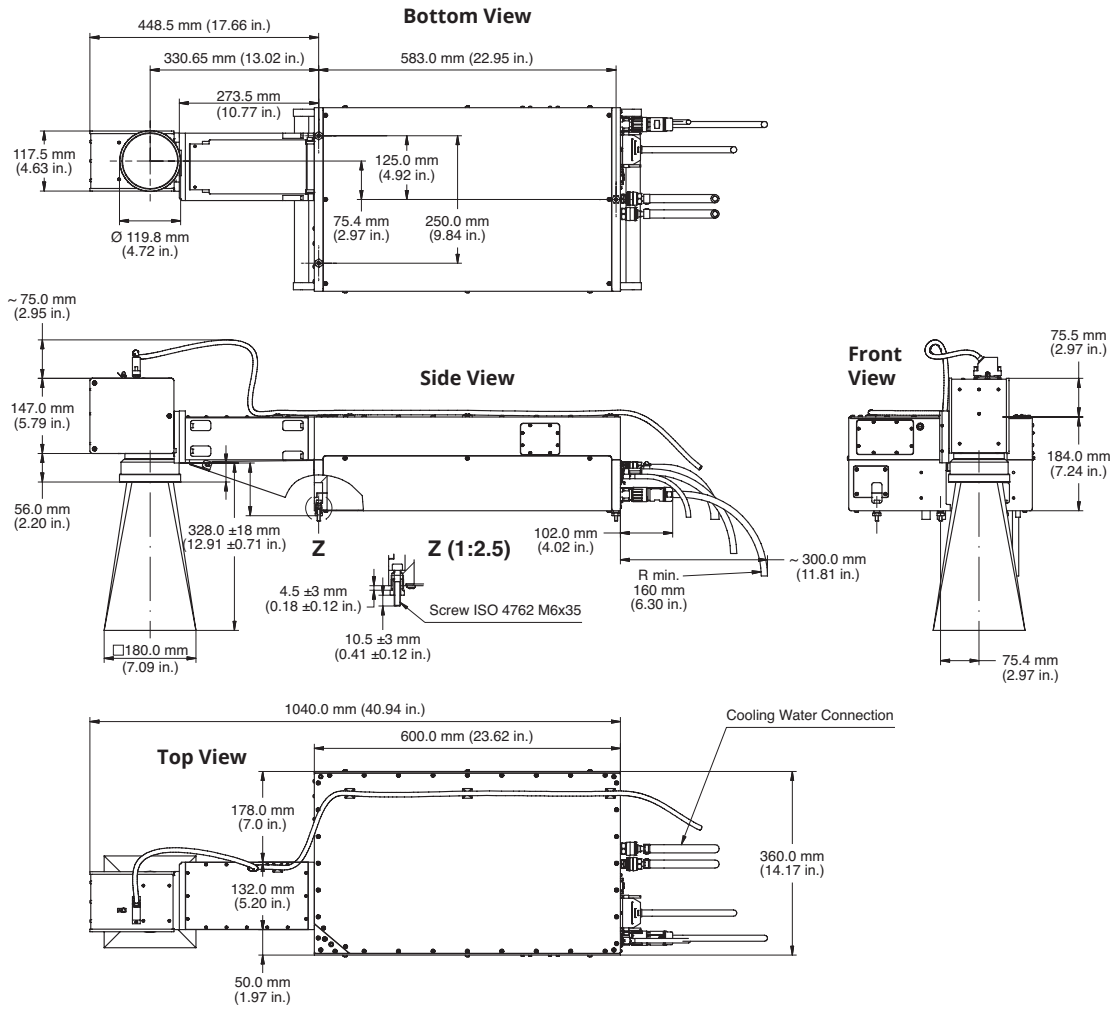
- Plastic Marking
- Plastic Foil/Tape Cutting
- Thin Film Ablation
- Removal of Plastic Coatings
- Laser Scribing
- Surface Cleaning



SPECIFICATIONS	PowerLine Pico 50-1064	PowerLine Pico 50-532
Wavelength (nm)	1064	532
Average Power (W) (250 kHz)	40	25
Frequency Range (kHz)	200 to 800	
Pulse Energy (μ J) (250 kHz)	160	100
Pulse Width (ns)	0.5	
M ²	<1.5	
Beam Waist (mm)	3.0	2.0
Controller	RCU - ITX	
Software	VLM 5.2 , Windows 10	
Chiller	Water/Air-cooling	
Dimensions (L x W x H)	360 x 193 x 600 mm (18.53 x 6.61 x 9.57 in.)	
Environmental Temperature	15 to 35°C (59 to 95°F)	

MECHANICAL SPECIFICATIONS

PowerLine Pico 50



Coherent, Inc.,
 5100 Patrick Henry Drive Santa Clara, CA 95054
 p. (800) 527-3786 | (408) 764-4983
 f. (408) 764-4646

tech.sales@coherent.com www.coherent.com

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent offers a limited warranty for all PowerLine Pico 10 Lasers. For full details of this warranty coverage, please refer to the Service section at www.coherent.com or contact your local Sales or Service Representative. MC-043-19-0M1019 Copyright ©2019 Coherent, Inc.