



META 1.5C

Advanced Laser Machining Center

High Performance, Low Cost

The META 1.5C is a compact and lower cost, laser machine tool that is ideal for film cutting and non-metal materials.

The META M1.5C is based on a Coherent 150W, sealed CO₂ slab discharge laser that offers superior beam characteristics to flowing gas lasers employed in other machine tools. META M1.5C cuts and engraves a variety of organic materials such as wood, acrylic, polymerized substrates, leather, rubber, plastics, and flexible circuit materials.

FEATURES

- High power and low operating cost sealed CO₂ laser
- Auto-focus system for fast setup
- Large format cutting area
- Gull wing, dual access doors with removable pallet, front and rear pass through

OPTIONS

- Vision system for fiducial registration, rotation and scaling
- Auto-pallet loading for significant productivity of up to 60% more parts
- Extended pallet option for large substrate processing
- Honeycomb pallet type for thin metals and organic materials

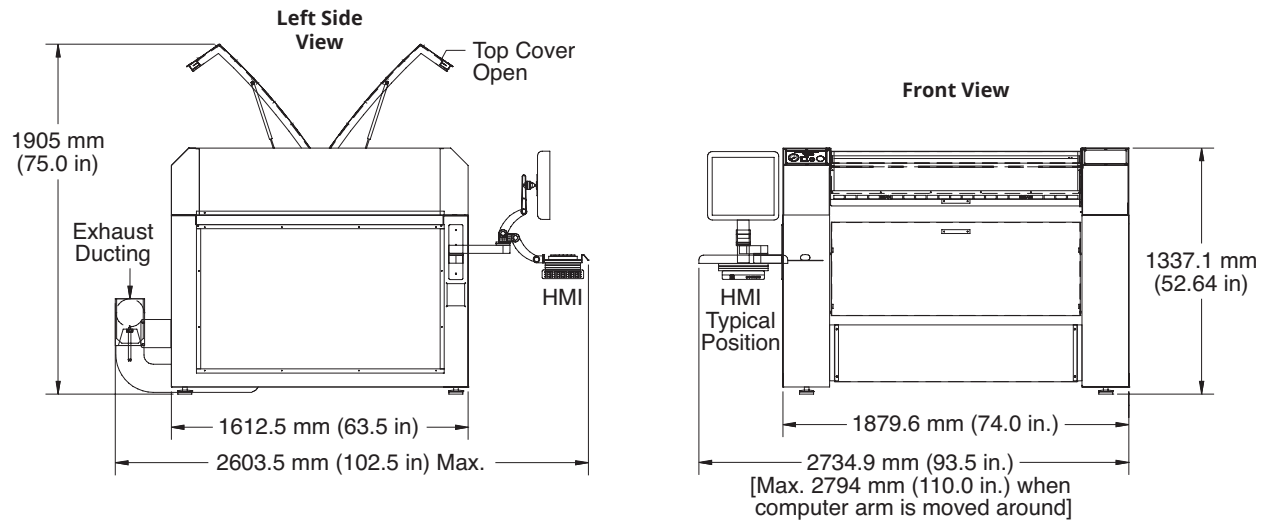


SPECIFICATIONS	META 1.5C
Laser Power/Peak Power ¹ (W)	150/700
Dimensions (L x W x H)	1630 x 1990 x 1320 mm (64.2 x 78.4 x 52.0 in.)
Weight	1136 kg (2250 lbs.)
Cutting Height	1020 mm (40.0 in.)
Working Range	x = 1220 mm (48.0 in.) y = 1220 mm (48.0 in.) z = 300 mm (12.0 in.)
Maximum Speed	50,800 mm (2000 in.)/min. cutting 91,500 mm (3600 in.)/min. rapid positioning 91,500 mm (3600 in.)/min. raster engraving
Positioning	Linear encoders with 2 micron resolution in closed loop with brushless servo motors
Accuracy ²	25 µm (0.001 in.) positioning accuracy 5 µm (0.0002 in.) repeatability
Contouring	Full look-ahead contouring capability
Materials	Acrylic, PET, PI, Silicon Rubber, Wood, MDF
Software Interface LaserLink program including:	Windows 7 support G-code support DXF, DWG, Gerber, JPG, BMP, TIF, XML file import Full geometry editing Editable database of laser parameters Job estimator software Job management software
Cutting Pallets	Removable pallet system with front and rear pass-through Honeycomb (recommended) or points work support
Pallet Area	1.2 x 1.2m (48 x 48 in.)
Laser Power Control	Digital laser power control Power proportional to velocity
Wavelength (µm)	10.6 and 9.4 available
Exhaust/Vacuum Bed	Vacuum material hold-down plenum External high pressure exhaust blower required
Cooling	External chiller required
PC/File Server	Windows/Ethernet
Power (VAC)	208 to 240, 47 to 63 Hz, three-phase, 50A Optional 400V version available
Safety	Safety interlocks on all covers and enclosures Class I system (Complies with 21 CFR Chapter 1, Subchapter J)
User Controls	Touch Screen control panel Jog, Bed height controls Home, Park, Load buttons Exhaust, gas assist controls Editing of laser settings Networked HMI workstation Auto restart
Environmental	Ambient temperature range of 10 to 38°C (50 to 100°F)
Laser Tool Capabilities	Raster engraving, marking and cutting
Regulatory Compliance	CE Marked for 400V version

¹ These specifications are applicable as of February 2016 and are subject to change without notice.

² Accuracy quoted is under controlled conditions and measured across a 300 mm (12") distance.
Accuracy may vary depending on substrate variability, process settings and conditions in the customer facility.

MECHANICAL SPECIFICATIONS



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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice. Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all META laser machining centers. 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. Printed in the U.S.A. MC-004-16-0M0817Rev.A Copyright ©2017 Coherent, Inc.