



# META 2C

## Advanced Laser Machining Center

### Flexible, High Speed Precision

The META 2C is the compact and powerful answer for prototype to high volume manufacturing applications.

The META 2C is the most versatile choice for precision cutting a wide range of materials, non-metals up to 25 mm. Simple user interface and job loading soft-ware simplifies work set up and increases productivity.

### FEATURES

- High power and low operating cost sealed CO<sub>2</sub> 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

- Machine Vision
- Auto-pallet Loading
- Extended Pallet Option

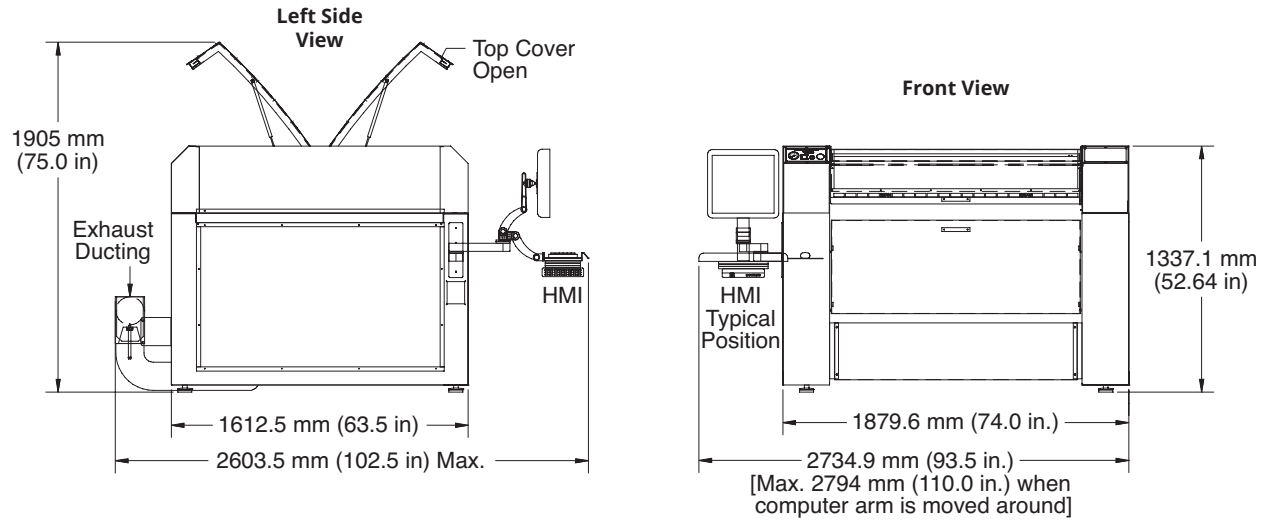


SPECIFICATIONS	META 2C
Laser Power/Peak Power <sup>1</sup> (W)	250/750
Dimensions (L x W x H)	1630 x 1990 x 1320 mm (64.2 x 78.4 x 52.0 in.)
Weight	725 kg (1600 lbs.)
Cutting Height	1020 mm (40.0 in.)
Working Range	x = 1220 mm (48.0 in.) y = 1220 mm (48.0 in.) z = 300 mm (12.0 in.)
Maximum Speed	50,800 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 <sup>2</sup>	25 µm (0.001 in.) positioning accuracy 5 µm (0.0002 in.) repeatability
Contouring	Full look-ahead contouring capability
Materials	Plastics, Wood, Paper, Composites, Fabric, Rubber
Software Interface LaserLink program including:	Windows 7 support G-code support AI, DXF, HPGL, DWG, Gerber, JPG, BMP, TIF 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 work support
Laser Power Control	Digital laser power control Power proportional to velocity
Focusing	Auto-focus
Exhaust/Vacuum Bed	Vacuum material hold-down plenum External high pressure exhaust blower required
Cooling	External chiller
PC/File Server	Windows/Ethernet
Power (VAC)	208 to 240, 47 to 63 Hz, three-phase, 30A
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

<sup>1</sup> These specifications are applicable as of December 2014 and are subject to change without notice.

<sup>2</sup> 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](http://www.Coherent.com) or contact your local Sales or Service Representative. Printed in the U.S.A. MC-028-14-0M0817Rev.A Copyright ©2017 Coherent, Inc.