

# META 4C

## Advanced Laser Machining Center

### Flexible, High Speed Precision

The META 4C is the compact and powerful answer for prototype to high volume manufacturing applications.

The META 4C is the most versatile choice for precision cutting a wide range of materials, metals up to 3 mm and non metals up to 25 mm. Simple user interface and CAM software simplifies work set up and increases productivity.



**Superior Reliability & Performance**

### META 4C 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**

### META 4C 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**
- **Choice of pallet type: Honeycomb for thin metals and organic materials and points for thicker metals**

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System Specifications	META 4C
Laser Power/Peak Power (W)	400/1300 <sup>1</sup>
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	25 µm (0.001 in.) positioning accuracy <sup>2</sup> 5 µm (0.0002 in.) repeatability
Contouring	Full look-ahead contouring capability
Materials	Acrylic, Aluminum, Mild Steel, Stainless Steel, 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 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
Focusing	Auto-focus, capacitive height control for metal substrates
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, 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

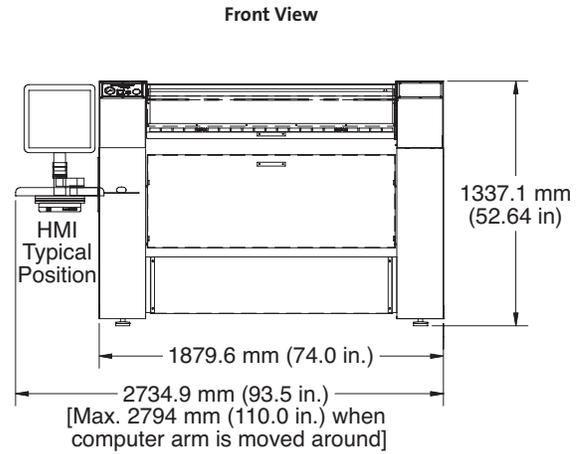
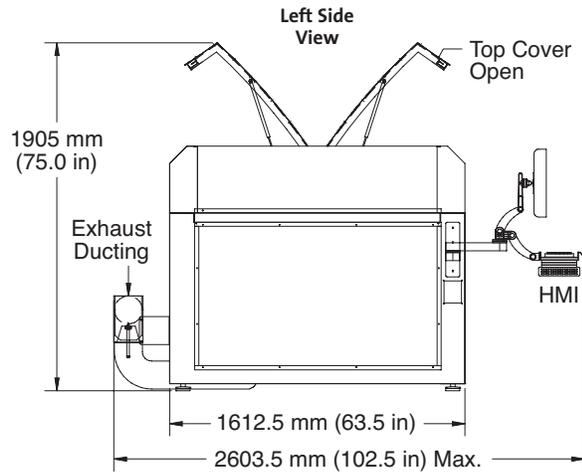
<sup>1</sup> These specifications are applicable as of September 2009 and are subject to change without notice.

<sup>2</sup> Accuracy quoted is under controlled conditions. Accuracy may vary depending on conditions in customer's facility.

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## Mechanical Specifications



**COHERENT**

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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.