

META 10C

Next Generation Laser Machining Center

Material Cutting without Compromise

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

The META is designed to cut sheet metals up to 0.250 in./6 mm* in thickness while maintaining stunning performance on non-metal cutting and engraving applications. Simple user interface and job loading software simplifies work set up and increases productivity.



* Cold Rolled Steel.



Superior Reliability & Performance

META 10C Features:

- **New form factor for international sheet sizes**
- **Advanced laser precision and motion control accuracy**
- **Automated nozzle control for metal and non-metal applications**
- **High power and low operating cost sealed CO₂ laser for cutting metal and non-metal**
- **Auto focus and capacitive height sensing**
- **High flow/pressure adjustable coaxial assist gas jet**
- **Gull wing, dual access doors with removable pallet, front and rear pass through**

META 10C Options:

- **Machine vision**
- **Pallet automation**
- **Nesting SW options**

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| System Specifications | META 10C |
|---|---|
| Laser Power/Peak Power ¹ (W) | 1000/2500 |
| Dimensions (L x W x H) | 2083 x 2413 x 2083 mm (82.0 x 95.0 x 82.0 in.) |
| Weight | 1112 kg (2450 lbs.) |
| Cutting Height | 1020 mm (40.0 in.) |
| Working Range | x = 1270 mm (50.0 in.) y = 1270 mm (50.0 in.) z = 241 mm (9.5 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 | Metal, Plastics, Wood, Paper, Composites, Fabric, Rubber |
| Software Interface | |
| 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 Metal cutting points or honeycomb work support |
| Laser Power Control | Digital laser power control Power proportional to velocity |
| Focusing | Auto Focus, with Active Capacitive following for metal |
| Exhaust/Vacuum Bed | Bed vacuum material hold-down plenum and part collection drawer External high pressure exhaust blower recommended (not supplied with system) |
| Cooling | External chiller |
| PC/File Server | Windows/Ethernet |
| Power (VAC) | 380 to 440V, 47 to 63 Hz, three-phase, 5 wire, 50A |
| 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 Integrated HMI workstation Auto restart |

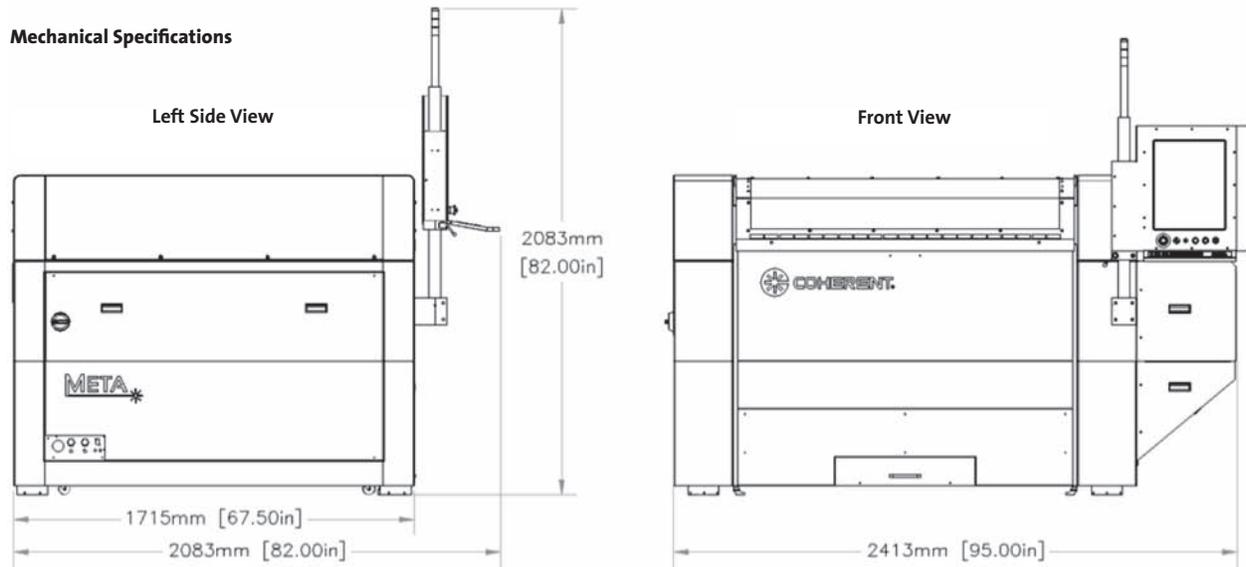
¹ These specifications are applicable as of September 2012 and are subject to change without notice.

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

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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.