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 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
• Machine Vision
• Auto-pallet Loading
• Extended Pallet Option
<table>
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<tr>
<th><strong>SPECIFICATIONS</strong></th>
<th><strong>META 2C</strong></th>
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<tbody>
<tr>
<td>Laser Power/Peak Power¹ (W)</td>
<td>250/750</td>
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<tr>
<td>Dimensions (L x W x H)</td>
<td>1630 x 1990 x 1320 mm (64.2 x 78.4 x 52.0 in.)</td>
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<tr>
<td>Weight</td>
<td>725 kg (1600 lbs.)</td>
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<tr>
<td>Cutting Height</td>
<td>1020 mm (40.0 in.)</td>
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| 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 |
| Accuracy² | 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  
Al, 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 |

¹ These specifications are applicable as of December 2014 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

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.