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
<table>
<thead>
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<th><strong>SPECIFICATIONS</strong></th>
<th><strong>META 1.5C</strong></th>
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<tbody>
<tr>
<td>Laser Power/Peak Power' (W)</td>
<td>150/700</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>1136 kg (2250 lbs.)</td>
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<tr>
<td>Cutting Height</td>
<td>1020 mm (40.0 in.)</td>
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</table>
| 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 | Acrylic, PET, PI, Silicon Rubber, Wood, MDF |
| Software Interface | 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

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.