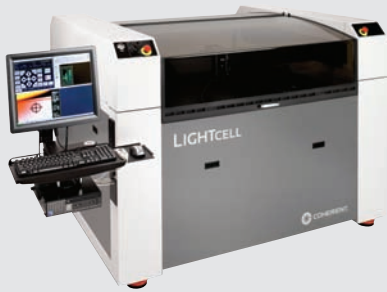




LIGHTCELL

Advanced Laser Machining Center



Features

- High power and low operating cost sealed CO₂ laser
- Cuts and engraves metals, plastics, wood, paper, composites, fabric, rubber...
- Large format cutting area 1220 x 1220 mm (48.0 x 48.0 in.)
- High precision and reliability with optically read linear encoders in closed loop with brushless servo motors

- Gull wing, dual access doors
- Flying optics for high speed cutting

Options

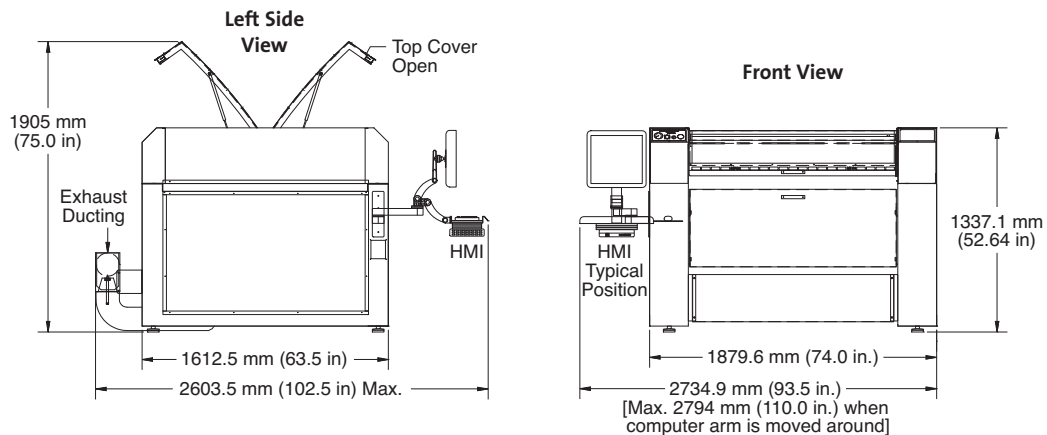
- Machine vision

Power and Precision at your Fingertips

LIGHTCELL is a versatile manufacturing tool for cutting and engraving a wide range of materials in a cost effective package.

Simple user interface and job loading software simplifies work set up and increases productivity. Class 1 safety enclosure reduces facility requirements.

Mechanical Specifications



Superior Reliability & Performance

LIGHTCELL™

Advanced Laser Machining Center

System Specifications

| | LIGHTCELL 150 |
|----------------------------|--|
| Laser Power/Peak Power (W) | 150/375 ¹ |
| 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 = 100 mm (4.0 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 ² 5 µm (0.0002 in.) repeatability |
| Contouring | Full look-ahead contouring capability |
| Materials | Metal, Plastics, Wood, Paper, Composites, Fabric, Rubber |
| Software Interface | LaserLink program including: Windows 7 support AI, DXF, HPGL, DWG, Gerber, JPG, BMP, TIF file import Full geometry editing editable database of laser parameters Job management software |
| Access to Cutting Area | Gull wing clear/smoke polycarbonate doors on pneumatic lifts |
| Laser Power Control | Digital laser power control Power proportional to velocity |
| Focusing | Programmable focus |
| Exhaust/Vacuum Bed | Vacuum material hold-down plenum |
| Cooling | External chiller |
| PC/File Server | Windows/Ethernet |
| Power (VAC) | 208 to 240, 47 to 63 Hz, single-phase (with neutral), 20A |
| 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 Networked HMI workstation Auto-restart |

¹ These specifications are applicable as of December 2009 and are subject to change without notice.

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

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 LIGHTCELL laser cutting machine tools. 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.



www.Coherent.com

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