



LightCELL SPECIFICATIONS



Power and Precision at Your Fingertips...

...Power, speed, flexibility, and safety in an economic package

The LightCELL

<i>Model</i>	<i>Laser Power/Peak Power</i>	<i>Features In All Systems:</i>
LightCELL 200	200/375W	<ul style="list-style-type: none"> • High power and low operating cost, sealed CO₂ Lasers • Cuts and/or engraves metals, plastics, wood, paper, composites, fabric, rubber... • Large format cutting area (4' X 4') • Gull wing, dual access doors, with removable pallet and front & rear door pallet pass through • High precision and reliability with optically read linear encoders, in closed loop with brushless servo motors • Flying optics for high speed cutting • Vacuum cutting bed for material hold down and fume evacuation • Auto-cut restart • Job management and control software and networked integrated touch screen workstation • Class I safety with interlocked laser, doors, exhaust, chiller and assist gas to protect both the machine and operators.
LightCELL 100	100/250W	

**Tested Average Power (TAP) in a Beam Configuration*



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General Specifications

Dimensions	<ul style="list-style-type: none"> 52" high, 74" wide, 64" deep Weight: 1600 lbs. Cutting height: 40" 	Cutting Pallets	<ul style="list-style-type: none"> Removable pallet system Front and Rear pass-through Honeycomb work support
Cutting & Engraving	<ul style="list-style-type: none"> 48"x 48" with standard pallet (pallets are removable) 	Laser Power Control	<ul style="list-style-type: none"> Digital laser power control Power proportional to velocity
Max clearance	<ul style="list-style-type: none"> 1" of vertical travel Fixed bed with 4" clearance 	Focusing	<ul style="list-style-type: none"> Quick set, manual adjustable system
Maximum Speed	<ul style="list-style-type: none"> 2000"/min cutting 3600"/min traversing 3600"/min raster engraving 	Exhaust / Vacuum Bed	<ul style="list-style-type: none"> Vacuum material hold-down plenum and separate engraving exhaust port. External high pressure exhaust blower required
Positioning	Linear encoders with 2 micron resolution	Cooling	External chiller required (not included with system)
Accuracy	<ul style="list-style-type: none"> +/- .001"/ft overall accuracy** +/- .0002"/ft. repeatability 	PC / File Server	Requires Windows/Ethernet.
Contouring	Full look-ahead and contouring capabilities.	Power	208-240VAC, 47-63 Hz, three-phase, 30 - 50A
Materials	<ul style="list-style-type: none"> Metal, Plastics, Wood, Paper, Composites, Fabric, Rubber Max thickness 1" 	Safety	<ul style="list-style-type: none"> Safety interlocks on all covers and enclosures Class I system (Complies with 21 CFR Chapter 1, Subchapter J)
Software Interface	LaserLink program including: <ul style="list-style-type: none"> Windows XP G-code support AI, DXF, HPGL, DWG, Gerber, JPG, BMP, TIF file import Full geometry editing Database of laser parameters Job management software 	User Controls	<ul style="list-style-type: none"> Touch Screen Control panel showing all settings and file information Jog, Bed height controls Home, Park, Load buttons Exhaust, gas assist controls Editing of laser settings Networked HMI workstation Bar code reader available

Notes: These specifications are applicable as of **SEP 09** but are subject to change without notice.

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