



Laser Machining Center (LMC) SPECIFICATIONS



...A World of Customers and Cutting Applications

This "Best in class" machine is the World's easiest to use, compact, scalable, versatile, high throughput, and most precise intermediate powered laser machine, for the light industrial market.

Laser Machining Center

Model	Laser Power/Peak Power*	Features In All Systems:
LMC4000	200/600W	<ul style="list-style-type: none"> Sealed CO₂ Lasers, delivering high power and low operating cost, 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, and brushless servos. Flying optics for high speed cutting Large format cutting area (4' X 4'), with vacuum for material hold down and fume evacuation Moving platform bed with adjustable load height, and 12" of vertical travel; deep z-axis for fixturing and tall part cutting. Auto-focus system with material sensor Networked touch screen control workstation and job management and control software Class I safety with interlocked laser, doors, exhaust, chiller and assist gas to protect both the machine and operators.
LMC5000	250/750W	
LMC8000	400/1000W	
LMC10000	500/1500W	

*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 Area	<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
Vertical Travel	<ul style="list-style-type: none"> ▪ Moving platform with 12" of vertical travel* ▪ Adjustable load height: 28"- 40" 	Focusing	<ul style="list-style-type: none"> ▪ Auto-focus system with material sensor ▪ 5 axis crash sensor
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" ▪ Max clearance: 12" 	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 Control	<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.