

KERN

**HIGH PERFORMANCE / ENCLOSED
LASER CUTTING & ENGRAVING SYSTEMS**

LaserCELL



LaserCELL

High Performance / CO2 Laser Systems

The LaserCELL is an enclosed, high performance laser cutting and engraving system. The Class 2 safety enclosure allows the system to be placed in high traffic areas such as busy factory floors and university classrooms. Access points are available at each side of the machine making part loading and maintenance simple and convenient. Kern redesigned the LaserCELL's motion system making it the fastest and most productive laser system in their product lineup. An improved down draft vacuum table is built into the system ensuring consistent fume removal and material hold down over the entire table top.



| Model | LC50 | LC100 |
|---------------------------------------|-------------------|-------------------|
| Work Area | 52" x 50" | 52" x 100" |
| Footprint, Doors Extended (W x L x H) | 115" x 114" x 77" | 115" x 169" x 77" |
| *Footprint, Compact (W x L x H) | 74" x 85" x 75" | 74" x 139" x 75" |
| **Part Clearance | 3" | 3" |
| System Weight | 3700 lbs | 5500 lbs |

*Doors closed and minor parts removed. Further reduction in footprint is possible with removal of complete enclosure.

**Z-axis height can be customized

LaserCELL SPECIFICATIONS

| | |
|-----------------------|--|
| Laser Classification | Class 2 CO2 Laser |
| Laser Wattage | 100, 150, 200, 300, 500 and 650 watts |
| *Positioning Accuracy | +/- .002"/ft |
| Repeatability | +/- .0005"/ft |
| Max Cutting Speed | 20"/sec |
| Max Engraving Speed | 150"/sec |
| Electrical | 230v/1ph, 230v/3ph, 415v/3ph CE, 480v/3ph |
| Vacuum Blower | Two Blowers, Each 1500 CFM or greater |
| Air Assist | 100 – 250 PSI (9 -17 BAR) |
| **Options Available | Metal Cutting, K-Vision Camera, Pipe Rotary, Fume Extractor, and Versa-Trays |

*Mapped table, under controlled conditions.

**The Metal Cutting Option decreases the maximum engraving speed to 130"/sec.



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STANDARD FEATURES

Laser Source

High quality metal cavity laser sources manufactured in the USA by Kern Technologies. Liquid-cooled, metal cavity CO2 laser sources with a wide operating power range and exceptional power stability. Manufactured with pride in Minnesota, USA by Kern Technologies.

Motion Package

Kern's next generation HyperDual motion package features a rack and pinion design driven by powerful servo motors at each side of the table. The result is smooth cut radiuses, quick acceleration rates, and the fastest processing speeds Kern has presented to date.

Exhaust System

A blower package removes fumes and small debris created during laser processing. An integrated downdraft table holds material secure to the table as it is being processed. A vacuum arm elevates the gantry hoses neatly above the working table.

Chilling Unit

A closed-loop chilling unit will properly cool the laser source, ensuring a long laser lifetime and consistent cutting and engraving results.

Computer / Software

A high-performance computer and monitor package is included with each system. KCAM laser software, CorelDRAW® and an easy-to-use PDF converter are pre-installed on the computer.

Safety

A UL certified electrical panel is placed on each laser system which turns on and shuts down components of the laser system. US CDRH compliance requirements are upheld including emergency stop buttons, interlocked access points and a 5 second safety key switch.

Steel Chassis

Kern's laser systems begin with a precision machined, heavy duty steel weldment at the machine base. The one piece weldment allows the machine to arrive fully assembled, greatly reducing installation time.

