

**KERN**

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

# LaserCELL



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## 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
Work Area	52" x 50"
Footprint, Doors Extended (W x L x H)	115" x 114" x 77"
*Footprint, Compact (W x L x H)	74" x 85" x 75"
**Part Clearance	3"
System Weight	3700 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, 250, 400 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, and Fume Extractor

\*Mapped table, under controlled conditions.

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

## 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 are built around a solid steel frame. The frame features Blanchard ground flat surfaces and high-temperature stress relieved welds. Kern technicians double check for precision tolerance at the Kern factory.



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