KERN

LaserCELL

LaserCELL
High Performance Enclosed Laser Cutting & Engraving Systems

The LaserCELL is an enclosed, high performance laser cutting and engraving system. The Class 1 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
Cut/Engrave 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"
Table Work Height (from Floor)	36"
System Weight	3700 lbs

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

LaserCELL SPECIFICATIONS

Laser Source Type	CO_2 Laser
Laser Wattages	50, 100, 150, 200, 250 and 400 watts
Laser Safety Classification	Class 1 Laser Product
*Positioning Accuracy	+/- .002"/ft
Repeatability	+/- .0005"/ft
Straightness	+/- .002"/ft
Air Assist Nozzle	Yes
Max Cutting Speed	20"/sec
Max Engraving Speed	150"/sec
Vacuum Table	Yes
**Z Clearance	3"
***Options Available	Metal Cutting, K-Vision Camera, and Pipe Rotary

*Mapped table, under controlled conditions.
**Z clearance is 3" from the honeycomb bed and up to 5" by removing the bed support layers. Custom gantry heights are available.
***The Metal Cutting Option decreases the maximum engraving speed to 130"/sec.

1501 Industrial Drive
Wadena, MN 56482

218-631-2755 tel
888-660-2755 toll free
218-631-3476 fax

STANDARD FEATURES

USA Made Laser Head
All lasers sold by Kern are designed and manufactured with pride in the USA.

High-Speed Servo Motors
The LaserCELL motion package is powered by servo motors on both axes allowing for engraving at up to 150"/sec with 5G's of acceleration. The Y axis features dual servo motors powering a rack and pinion design making it the highest performing laser system in its class.

Downdraft Table / Vacuum System
A blower package is included which removes smoke, fumes and small debris from the laser systems enclosure. The LaserCELL's vacuum table was redesigned to allow for more consistent fume removal across the entire working area. A downdraft table secures material down to the table as it is being processed.

Computer and Laser Software
A high performance computer and monitor are provided with each laser system. Kern's state-of-the-art KCAM laser cutting and engraving software is included on every laser system. An easy to use printer driver will send your vector and raster files to the laser. Upgrades to the KCAM software are always free of charge and readily available on our website. Your choice of design software such as CorelDRAW®, AutoCAD LT® or Adobe Illustrator® is also included.

Safety Certification
The Class 1 machine design ensures working environments that require an enclosed system will find their needs met with interlocked doors and access points. A UL certified electrical panel is placed on each system. LaserCELL systems are CDRH and CE compliant to meet the most rigorous safety requirements set forth by the US and European safety regulators.

Chilling Unit
A closed loop chilling unit is included on all laser systems of 100 watts or greater. This chilling unit will keep your laser head cooled and running smoothly.

Solid Steel Frame
Kern builds the LaserCELL around a solid steel frame that has been Blanchard ground flat with all welds stress relieved in a high temperature oven. All frames go through a secondary quality control check at the Kern factory for precision straightness.