

KERN

**SMALL FORMAT LASER CUTTING
& ENGRAVING SYSTEMS**

MICRO



MICRO - Small Format Laser Systems

The small format MICRO Laser System is an entry level machine with all the same capabilities of the larger systems offered by Kern. The class IV, open bed design gives you the control and ease of use that many enclosed systems lack. The X axis features the same high-speed engraving as our HSE model and the Y axis is a moving table that increases the accuracy and speed while cutting. Like all Kern systems the MICRO is a turnkey package including the computer, software and downdraft vacuum system.



Model	MICRO24	MICRO48
Cut/Engrave Area	24" x 24"	48" x 24"
*Footprint (W x L x H)	54" x 37" x 32"	70" x 37" x 32"
System Weight	500 lbs	800 lbs

* Table at back position, laser uninstalled and minor hardware removed.



Model with Stand	MICRO24	MICRO48
Cut/Engrave Area	24" x 24"	48" x 24"
*Footprint (W x L x H)	70" x 37" x 56"	70" x 37" x 56"
System Weight	1500 lbs	1800 lbs

* Table at back position, laser uninstalled and minor hardware removed.

Model with Stand	MICRO SPECIFICATIONS	
Laser Source Type	CO2 Laser	
Laser Wattages	50, 100, 150, 200, 250 and 400 watts	
*Positioning Accuracy	+/- .002"/ft	
Repeatability	+/- .0005"/ft	
Straightness	+/- .002"/ft	
Air Assist Nozzle	Yes	
Max Cutting Speed	10"/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.

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 MICRO motion package is powered by servo motors on both axes allowing for engraving at speeds up to 150"/sec with 5G's of acceleration.

Downdraft Table / Vacuum System

Smoke, fumes and small debris are all removed by a vacuum system that pulls from both below and above your material. A downdraft vacuum will hold your material down to the table while it is being cut and engraved.

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.

UL / CE / CDRH

A UL certified electrical panel is placed on each laser system which turns on and shuts down components of the laser system. MICRO laser systems are CE compliant to meet European Union consumer safety, health and environmental requirements. U.S. CDRH compliance requirements are upheld on the MICRO laser system to meet specifications in 21 CFR, Subchapter J, parts 1040.10 & 1040.11.

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.

Quality Bearings, Rails and Belts

A top-of-the-line motion package includes parts selected from US companies that value the idea of high tolerances, great repeatability and precision accuracy.

Small Footprint

If not equipped with the steel stand, the MICRO laser system will fit through a standard 36" doorway.



1501 Industrial Drive
Wadena, MN 56482

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