

**KERN**

**LARGE FORMAT / ENTRY LEVEL  
LASER CUTTING & ENGRAVING SYSTEMS**

**HSE**





Model	Cut/Engrave Area	Footprint (W x L x H)	Table Work Height (From Floor)	System Weight
HSE50	52" x 50"	70" x 75" x 55"	36"	3000 lbs
HSE100	52" x 100"	70" x 125" x 55"	36"	4200 lbs

The HSE Laser System is Kern's entry level large format model. A wrap around gantry traverses over the cutting bed allowing for finished parts to be easily removed at all sides of the machine. The moving gantry features high speed servo motors and a flying optics beam delivery providing consistent beam power and quality over the entire work area. A Z12 monument package is offered on the HSE system. This package provides beautiful laser etchings and allows the heavy stones to be easily positioned with the addition of stainless steel rollers and 12" of gantry clearance. The HSE machine is well known as a highly productive laser system offered at an economical price.

### HSE SPECIFICATIONS

Laser Source Type	CO2 Laser
Laser Wattages	50, 100, 150 and 200 watts
Laser Safety Classification	Class 4 Laser Product
*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, Pipe Rotary, and Z12 Monument Package

\* Mapped table, under controlled conditions.

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

### USA Made Laser Head

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

### High-Speed Servo Motors

The HSE 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 / 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. AutoCAD®, Adobe Illustrator® and Solidworks® are just a few examples of software compatible with the HSE system.

### 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. HSE laser systems are CE compliant to meet European Union consumer safety, health and environmental requirements. U.S. CDRH compliance requirements are upheld on the HSE 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.

### Solid Steel Frame

Kern builds the HSE laser system around a solid steel frame that has been Blanchard ground flat with all welds stress relieved in a high temperature oven. All stands are double checked at the Kern factory for precision straightness.



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