HSE

HSE - High Speed Cutting and Engraving Laser Systems

Model	HSE50	HSE100	HSE60120	HSE80120
Cut/Engrave Area	52" x 50"	52" x 100"	60" x 120"	80" x 120"
Footprint (W x L x H)	70" x 75" x 55"	70" x 125" x 55"	78" x 145" x 55"	98" x 145" x 55"
Table Work Height (from Floor)	36"	36"	36"	36"
System Weight	3000 lbs	4200 lbs	5000 lbs	6500 lbs

The HSE model provides the combination of fast processing speeds and superior beam quality over the entire table top. A hybrid flying optics design allows for engraving speeds of up to 150"/sec with 5 G's of acceleration. The HSE truly is the laser system of choice for sign makers, metal fabricators and educational institutes around the world.

HSE SPECIFICATIONS

Laser Source Type	CO_2 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.

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 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 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. 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.