KERN
LASER SYSTEMS

DHS

LARGE FORMAT LASER CUTTING & ENGRAVING SYSTEMS

DHS - Dual Head Laser System

All Kern Standard Laser Systems can be equipped with dual laser heads to double your production. KCAM laser software will control each laser separately so both can be tuned to equal power. The slave laser connects to the master laser via an adjustable bar. The bar can be removed and the slave laser can be locked to the far right of the gantry allowing the master laser with full use of the laser table.

DHS

Cut/Engrave Area	52" x 25"	52" x 50"	52" x 100"
Laser Wattages	30, 50, 100 and 150 watts		
Footprint (W x L x H)	70" x 50" x 55"	70" x 75" x 55"	70" x 125" x 55"
Table Height from Floor	36"	36"	36"
System Weight	1600lbs	2500lbs	4200lbs
Table Accuracy	+/- .004"/ft	+/- .004"/ft	+/- .004"/ft
Repeatability	+/- .0005"/ft	+/- .0005"/ft	+/- .0005"/ft
Straightness	+/- .002"/ft	+/- .002"/ft	+/- .002"/ft
Air Assist Nozzle	Yes	Yes	Yes
Max Cutting Speed	10"/sec	10"/sec	10"/sec
Max Engraving Speed	30"/sec	30"/sec	30"/sec
Vacuum Table	Yes	Yes	Yes
*Maximum Z Clearance	3"	3"	3"
**Metal Cutting Available	Yes	Yes	Yes

* Z clearance is 3" from the honeycomb bed and up to 10" by removing the honeycomb.

Custom gantry heights are available.

** Need at least 100 watts. Top engraving speed is 25"/sec.

Standard Features

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

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

Solid Steel Frame
Kern builds the DHS 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.