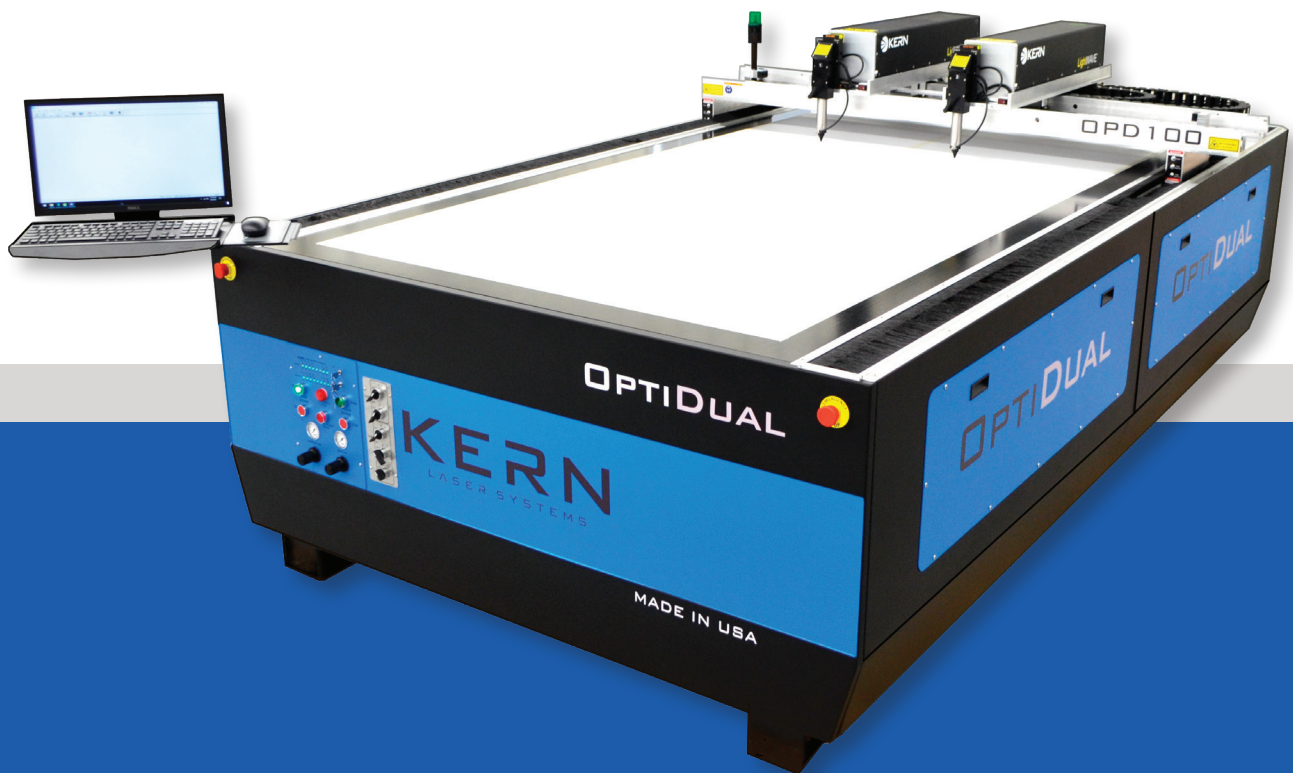


KERN

**HIGH PRODUCTION
LASER CUTTING SYSTEMS**

OptiDual





| Model | OPD50 | OPD100 | OPD60120 | OPD80120 |
|--------------------------------|-----------------|------------------|------------------|-------------------|
| Cut/Engrave Area | 52" x 50" | 52" x 100" | 60" x 120" | 80" x 120" |
| Footprint (W x L x H) | 78" x 87" x 53" | 78" x 137" x 53" | 86" x 157" x 53" | 106" x 157" x 53" |
| Table Work Height (from Floor) | 36" | 36" | 36" | 36" |
| System Weight | 3500 lbs | 4700 lbs | 5500 lbs | 6500 lbs |

The OptiDual system is equipped with dual laser sources instantly doubling your laser cutting production. The KCAM laser software controls each laser independently allowing both lasers to be tuned to equal power. This feature ensures consistent cutting results from both lasers over the entire work area. The second laser can be disabled allowing full range of table motion for the master laser.

OptiDual SPECIFICATIONS

| | |
|-----------------------------|--|
| Laser Source Type | CO2 Laser |
| Laser Wattages | 50, 100, 150 and 200 watts |
| Laser Safety Classification | Class 4 Laser Product |
| X Motion System | Linear Motor w/ Twin Rails |
| Y Motion System | Dual Servo Motors w/ Rack and Pinion Drive |
| *Positioning Accuracy | +/- .002"/ft |
| Repeatability | +/- .0005"/ft |
| Straightness | +/- .002"/ft |
| Max Cutting Speed | 20"/sec |
| Max Engraving Speed | 25"/sec |
| **Material Clearance | 3" |
| Options Available | Metal Cutting, K-Vision Camera, Pipe Rotary, and Multi Zone Table with Electronic Vacuum Gates |

* Mapped table, under controlled conditions.

** Additional material clearance available by custom order.

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. Compatible design software includes CorelDRAW®, AutoCAD LT®, Adobe Illustrator® and many more.

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