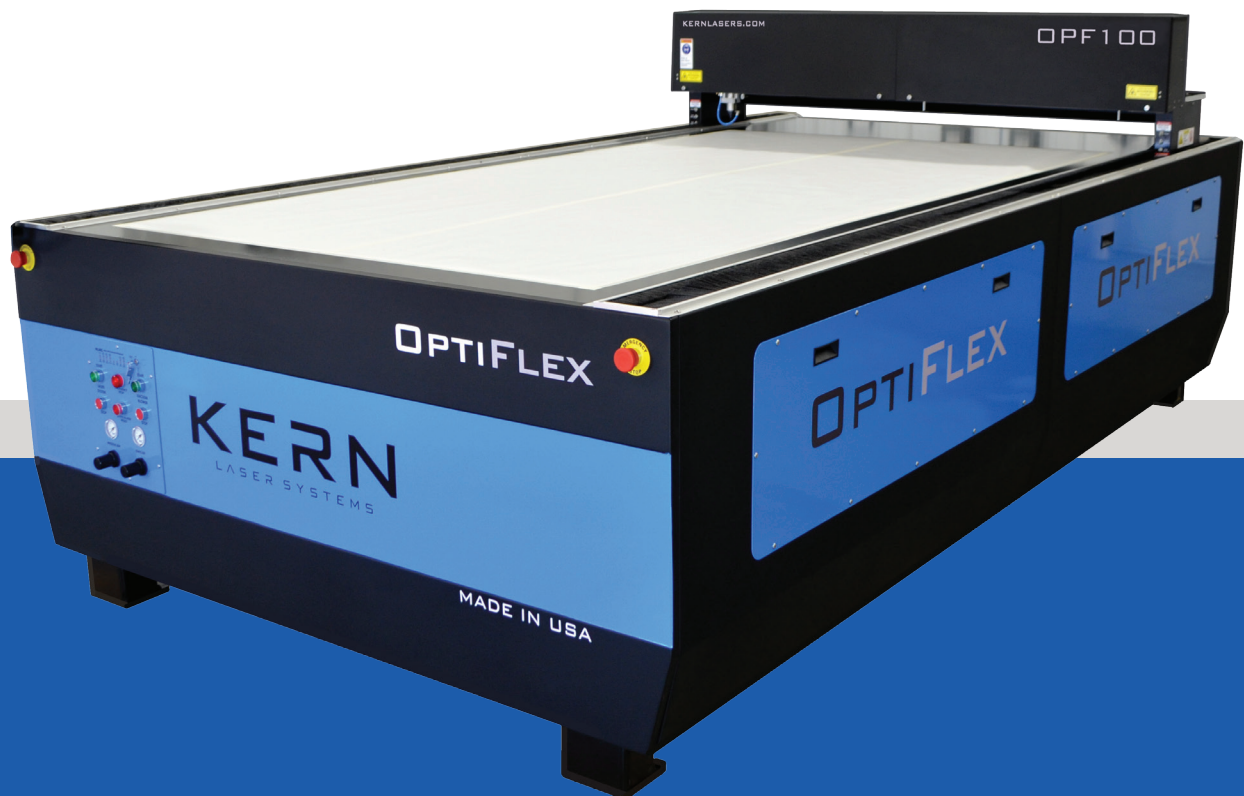
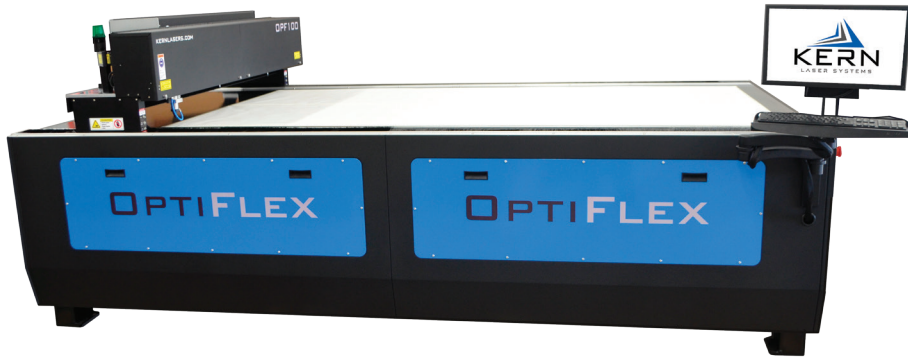


**KERN**

**HIGH PERFORMANCE/LARGE FORMAT  
LASER CUTTING & ENGRAVING SYSTEMS**

# OptiFlex





| Model                          | OPF50           | OPF100           | OPF60120         | OPF80120          |
|--------------------------------|-----------------|------------------|------------------|-------------------|
| Cut/Engrave Area               | 52" x 50"       | 52" x 100"       | 60" x 120"       | 80" x 120"        |
| Footprint (W x L x H)          | 74" x 87" x 53" | 74" x 137" x 53" | 82" x 157" x 53" | 102" x 157" x 53" |
| Table Work Height (from Floor) | 36"             | 36"              | 36"              | 36"               |
| System Weight                  | 3500 lbs        | 4700 lbs         | 5500 lbs         | 6500 lbs          |

The OptiFlex is Kern's flagship large format, high performance laser system. The HyperDual motion package installed on the OptiFlex features a rack and pinion design and powerful servo motors at each side of the table. Cut acceleration rates are up to three times faster than previous models. Without a doubt the OptiFlex is setting the standard for large format laser cutting and engraving systems.

### OPTIFLEX SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| Laser Source Type           | CO2 laser                                       |
| Laser Power                 | 50,100,150, 200, 250 and 400 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           | 20"/sec   |
| Max Engraving Speed         | 150"/sec  |
| **Z Clearance               | 3"  |
| Options Available           | Metal Cutting, K-Vision Camera, and Pipe Rotary |

\*Mapped table, under controlled conditions.

\*\*Custom gantry heights are available.

### US Made Laser Source

Kern installs high quality metal cavity laser sources manufactured in the USA.

### HyperDual Motion

Kern's next generation HyperDual motion package features a rack and pinion design driven by powerful servo motors at each side of the table. The result is smooth cut radiuses, quick acceleration rates, and the fastest cutting speeds Kern has presented to date.

### Downdraft Table / Vacuum System

A blower package is included which removes fumes and small debris created during laser processing. An integrated downdraft table holds material flat to the table as it is being processed.

### 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 OptiFlex system.

### Safety / Certification

Emergency stops are located around the laser table which will shut down the laser and motion when activated. A UL certified electrical panel is installed on each machine. The beam path is completely sealed between the laser source and beam delivery nozzle.

### Chilling Unit

A closed loop chilling unit is included on laser systems of 100 watts and greater. This cooling system properly cools the laser source ensuring a long laser lifetime and consistent cutting results.

### Sheet Metal Guards

Sheet metal panels are installed around the OptiFlex which completely encase the bottom structure of the laser system. All four sides of the table's work area are accessible for easy loading and unloading of parts.



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