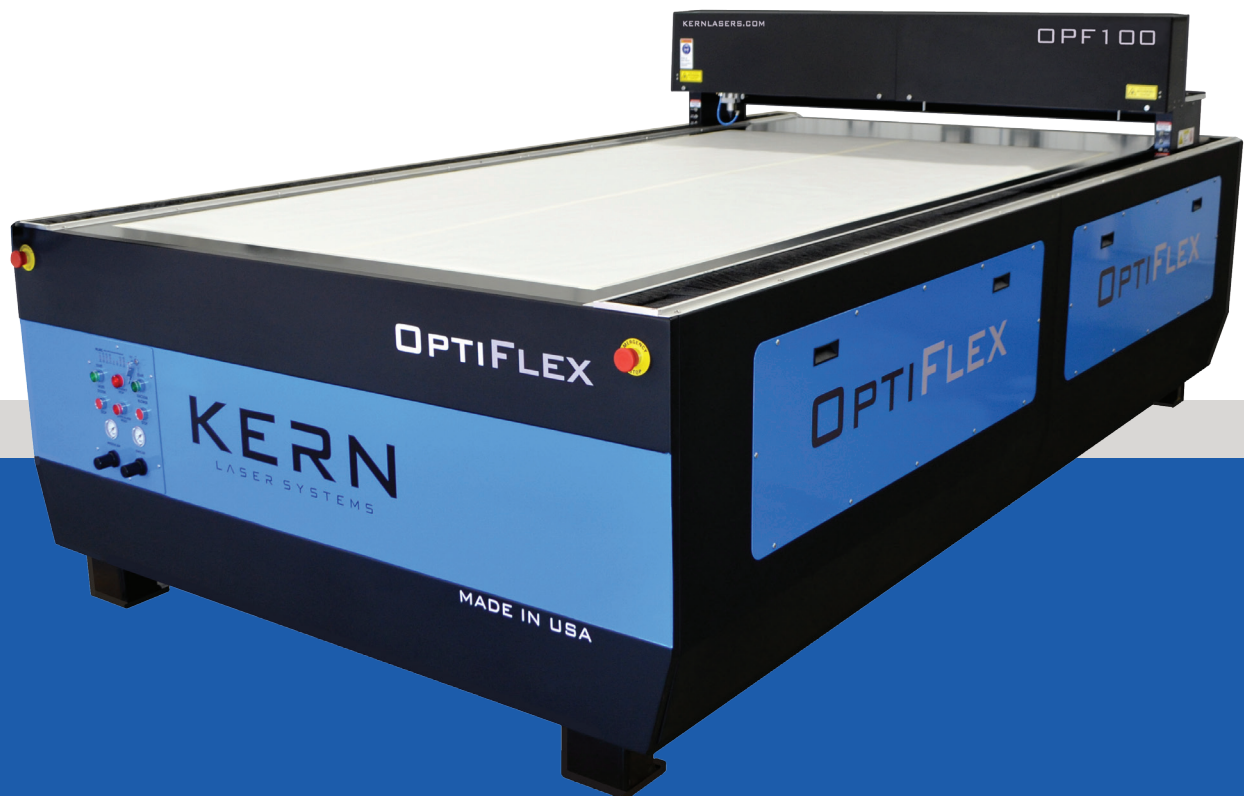
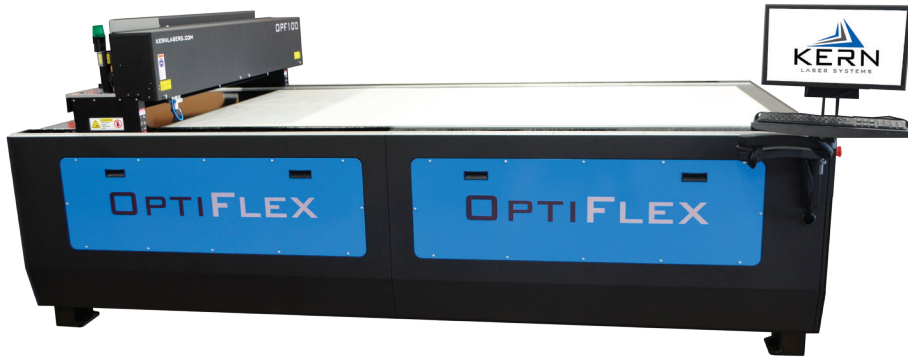


**KERN**

**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.



1501 Industrial Drive  
Wadena, MN 56482

218-631-2755 tel  
888-660-2755 toll free  
218-631-3476 fax