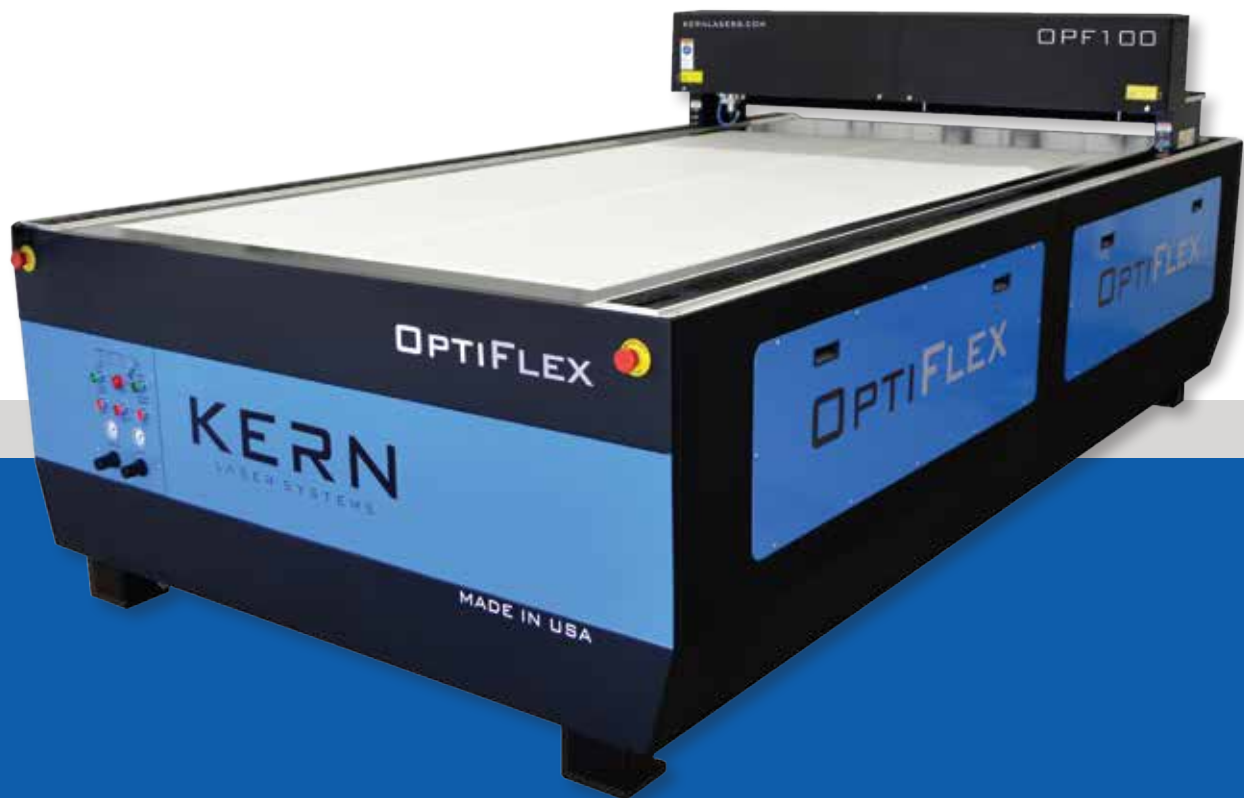


KERN

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

OptiFlex





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.

Model	OPF50	OPF100	OPF60120	OPF80120	OPF86144
Work Area	52" x 50"	52" x 100"	60" x 120"	80" x 120"	86" x 144"
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"	114" x 181" x 53"
*Part Clearance	3"	3"	3"	3"	3"
System Weight	3500 lbs	4700 lbs	5500 lbs	6500 lbs	7500 lbs

* Z-axis height can be customized.

OptiFlex SPECIFICATIONS

Laser Classification	Class 4 CO2 Laser
Laser Wattage	100, 150, 200, 300, 500 and 650 watts
*Positioning Accuracy	+/- .002"/ft
Repeatability	+/- .0005"/ft
Max Cutting Speed	20"/sec
Max Engraving Speed	150"/sec
Electrical	230v/1ph, 230v/3ph, 415v/3ph CE, 480v/3ph
Vacuum Blower	Two Blowers, each 1500 CFM or greater
Air Assist	100 – 250 PSI (9-17 BAR)
**Options Available	Metal Cutting, K-Vision Camera, Pipe Rotary, Multi-Zone Table, Fume Extractor, Advanced Safety Package, and Versa-Trays

* Mapped table, under controlled conditions.

** The Metal Cutting option decreases the maximum engraving speed to 130"/sec.

STANDARD FEATURES

Laser Source

High quality metal cavity laser sources manufactured in the USA by Kern Technologies. Liquid-cooled, metal cavity CO2 laser sources with a wide operating power range and exceptional power stability. Manufactured with pride in Minnesota, USA by Kern Technologies.

Motion Package

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 processing speeds Kern has presented to date.

Exhaust System

A blower package removes fumes and small debris created during laser processing. An integrated downdraft table holds material secure to the table as it is being processed. A vacuum arm elevates the gantry hoses neatly above the working table.

Chilling Unit

A closed-loop chilling unit will properly cool the laser source, ensuring a long laser lifetime and consistent cutting and engraving results.

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.

Safety

A UL certified electrical panel is placed on each laser system which turns on and shuts down components of the laser system. US CDRH compliance requirements are upheld including emergency stop buttons, interlocked access points and a 5 second safety key switch.

Steel Chassis

Kern's laser systems begin with a precision machined, heavy duty steel weldment at the machine base. The one piece weldment allows the machine to arrive fully assembled, greatly reducing installation time.

