KERN

Ecoflex





EcoFlex - Economical / CO2 Laser Systems

STANDARD FEATURES

The EcoFlex Laser System is Kern's entry-level large format model. A wrap around gantry traverses over the cutting bed allowing for finished parts to be easily removed at all sides of the machine. The moving gantry features high speed servo motors



EcoFlex with Z12 Monument Package

and a flying optics beam delivery providing consistent beam power and quality over the entire work area. The EcoFlex machine is well known as a highly-productive laser system offered at an economical price.

The optional, Z12 Monument Etching Package offers a greater level of detail than has ever been available to the stone industry. The solid steel frame and extra high gantry is designed to handle heavy stones up to 12" thick. A wrap around gantry and roller bed make loading and unloading stones guick and easy.

| Model | ECO50 | ECO100 |
|-------------------------------------|-----------------|------------------|
| Work Area | 52" × 50" | 52" x 100" |
| Footprint (W \times L \times H) | 74" x 87" x 53" | 74" x 137" x 53" |
| *Part Clearance | 3" | 3" |
| System Weight | 3500 lbs | 4700 lbs |

^{*} Z-axis height can be customized.

| EcoFlex SPECIFICATIONS | | |
|------------------------|---|--|
| Laser Classification | Class 4 CO2 Laser | |
| Laser Wattage | 100,150, 200 and 300 watts | |
| *Positioning Accuracy | +/002"/ft | |
| Repeatability | +/0005"/ft | |
| Max Cutting Speed | 10"/sec | |
| Max Engraving Speed | 100"/sec | |
| Electrical | 230v/1ph, 230v/3ph, 415v/3ph CE | |
| Vacuum Blower | Two Blowers, each 1500 CFM or greater | |
| Air Assist | 100 PSI (9 BAR) | |
| Options Available | Z12 Monument Package, K-Vision Camera & Fume Extraction System | |

^{*}Mapped table, under controlled conditions.



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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

The EcoFlex is installed with compact driver-integrated servo motors on both axes. High quality ball screws and linear rails move the gantry and beam delivery accurately over the processing area.

Chilling Unit

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

Exhaust Systems

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.

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 are built around a solid steel frame. The frame features Blanchard ground flat surfaces and high-temperature stress relieved welds. Kern technicians double check for precision tolerance at the Kern factory.

