

KERN

MEDIUM FORMAT / ENCLOSED
LASER CUTTING & ENGRAVING SYSTEMS

Studio



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Medium Format / CO2 Laser Systems

The STUDIO laser system is a compact, medium-format CO2 laser system designed to deliver powerful laser processing in a space-saving footprint. The Class 2 enclosed design provides added flexibility when positioning the STUDIO within your manufacturing environment. Available with CO2 laser sources up to 250 watts, the STUDIO delivers the performance and versatility needed for a wide range of cutting and engraving applications, all while fitting through a standard 36" doorway. All Studio laser systems are proudly designed and manufactured in the USA.



Model	STUDIO4.2
Work Area	48" X 24"
Footprint, Lid Open (W x L x H)	68.24" x 40.08" x 71.5"
*Footprint, Compact (W x L x H)	68.24" x 34.5" x 46.6"
Part Clearance	13"
System Weight	750 lbs

*Lid closed and minor parts removed.

Studio SPECIFICATIONS	
Laser Classification	Class 2 Laser Product - 1mW CW MAXIMUM 600-700nm
Laser Wattage	75, 150, or 250 watts (CO2)
Motor Type	Brushless DC Servo Motors
Cutting Speed	Up to 20"/sec
Engraving Speed	Up to 150"/sec
Focusing Lens	1.5" FL (standard), 2.5" & 4.0" FL (optional)
Cooling Requirements	Distilled Water : Optishield Plus (90:10 ratio, 3.8 gallons)
Electrical	Laser System: 120V/1Ph/20A, 230V/1Ph/20A Chilling Unit: 120V/1Ph/20A, 230V/1Ph/20A
Exhaust Requirements	Light Duty: >400 CFM, Heavy Duty: >800 CFM
Air Assist	Integrated Air Pump: Delivers up to 1 CFM at nozzle. High Pressure Air (optional, compressor required): up to 120 PSI
Options Available	K-Vision Camera, Z-Axis Rotary, High Pressure/Programmable Air, Fume Extractors, Computer/Monitor Package, Bed Structures



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STANDARD FEATURES

Laser Source

High-quality metal cavity CO2 laser sources manufactured in the USA by Kern Technologies. Liquid-cooled, with a wide operating power range and exceptional power stability. The Studio Includes an integrated red dot tracer.

Flexible Table Design

A pass-through design accepts oversized material extending horizontally through the system. A 13" deep auto-focus table, accommodates a wide range of material formats. Multiple bed structures include aluminum and paper honeycomb, acrylic slats, and a pin table.

Material Database

KCAM8 laser software includes a preset material database that stores processing parameters for quick, consistent setup. Custom materials and settings can also be added and saved for future use.

Chilling Unit

A closed-loop chilling unit will properly cool the laser source, ensuring a long laser lifetime and consistent cutting and engraving results. A remote start feature ensures water flow once the laser system is turned on.

Mobile Design

Heavy-duty castor wheels provide easy mobility, allowing the STUDIO laser system to be smoothly moved through a standard 36" doorway for convenient installation and repositioning.

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.

LCD Display Screen

An integrated 6" LCD display, allowing operators to conveniently set machine parameters directly at the system, without the need for an external computer.

