

5'x10' Table

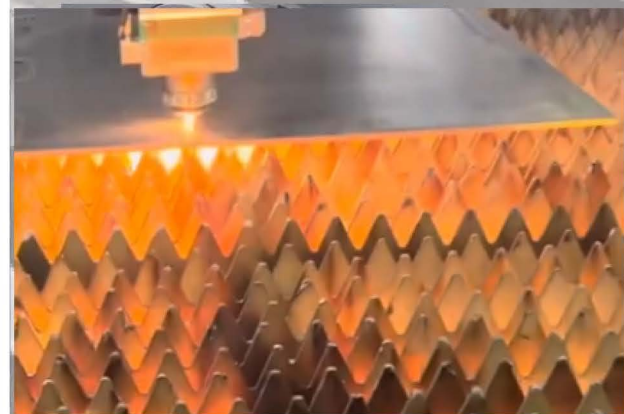
LAGUNA

SMARTSHOP®

LASER | FCE



4'x4' Table



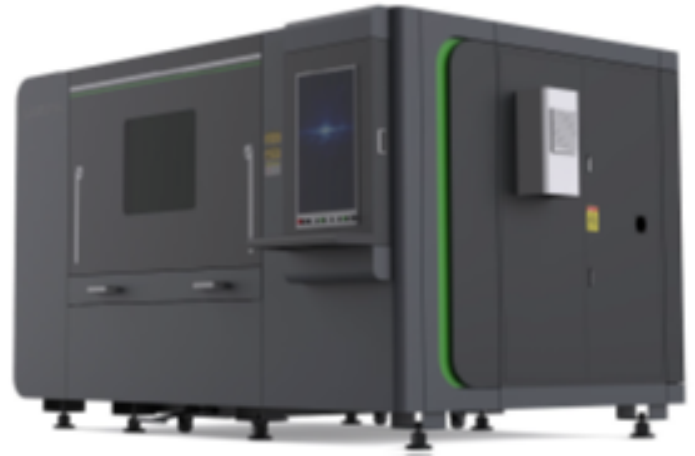
THE LAGUNA SMARTSHOP® FIBER LASER FCE

The Laguna SmartShop® Laser FCE is a high performance, heavy duty fiber laser cutting system. It's small Footprint is perfect for a shop with limited floor space. The ultra rigid frame and gantry provide for a stable platform that ensures accuracy and high speed processing. You can choose from several Optical power supplies and Powers.

FCE FIBER LASER SPECIFICATION:

- * FCE Table Sizes 4'x4' and 5'x10' Available.
- * Laser Power Options: 3KW - 12KW.
- * Work Table In and Out with Industrial Electric Gear Motor.
- * Electro Pneumatic Door open/close.
- * BOCI Closed Loop Cutting Head, Real Time Diagnostics to the control software.
- * Central Oiling System for Precision Linear Bearings on all Axis.

4'x4'



- * Heat-treated and stress relieved Frame.
- * WiFi capable.
- * Yaskawa servo drive package.
- * Automatic Cutting Head height Control.
- * Industrial Chiller, Cooling system for laser source and optics.
- * Automatic edge finding.
- * Software Controlled Focal Adjustments.
- * Batch and Nesting Production.
- * Rack and pinion drive system.
- * Optical Power Supply is Bluetooth Capable.
- * Control Cabinet Climate Controlled.
- * Several Optical Supplies Available.
- * Comprehensive Maintenance Packages with Laguna-Care.

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Average Maximum Cut Thickness's

This Chart is an Estimate of the Depth of Cut Permissible with the Wattage Purchased

Power supply Wattage	Carbon Steel	Stainless Steel	Aluminum	Copper	Brass
2,000 W	0.620"	0.230"	0.150"	0.050"	0.070"
3,000 W	0.780"	0.310"	0.230"	0.110"	0.190"
4,000 W	0.860"	0.390"	0.310"	0.150"	0.230"
6,000 W	0.980"	0.700"	0.550"	0.190"	0.390"
12,000 W	1.180"	0.980"	0.980"	0.310"	0.550"



LAGUNA CARE

Maintenance Packages that Keeps Your Investment in Production.

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Power Requirements:

Power supply Wattage	Power Supply Voltage	Power Supply Amperage	Phase	Oxygen Assist Gas	Nitrogen Assist Gas	Clean Dry Shop Air
2,000 W	208-240V	60 Amps	3 Phase	30-100 PSI	50-200 PSI	7-9CFM, 90PSI
3,000 W	440-480V	60 Amps	3 Phase	30-140 PSI	50-300 PSI	7-9CFM, 90PSI
Low Volt 3KW	208-240V	125 Amps	3 Phase	30-140 PSI	50-300 PSI	7-9CFM, 90PSI
4,000 W	440-480V	70 Amps	3 Phase	30-140 PSI	50-300 PSI	7-9CFM, 90PSI
Low Volt 4KW	208-240V	130 Amps	3 Phase	30-140 PSI	50-300 PSI	7-9CFM, 90PSI
6,000 W	440-480V	80 Amps	3 Phase	30-140 PSI	50-300 PSI	7-9CFM, 90PSI
Low Volt 6KW	208-240V	208 Amps	3 Phase	30-140 PSI	50-300 PSI	7-9CFM, 90PSI
12,000 W	440-480V	110 Amps	3 Phase	30-140 PSI	50-300 PSI	7-9CFM, 90PSI

Note: 3KW and up require an additional 208-240V.40A,3PH circuit for Servo's

- * On Site Commissioning and Training Available.
- * Lifetime Machine Technical Support.
- * Laguna-Care Maintenance Programs Available.



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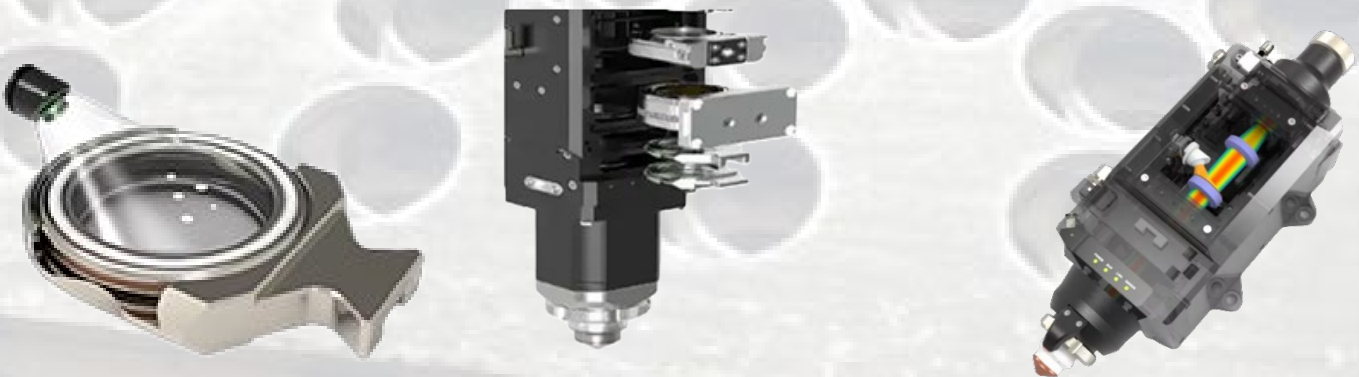
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THE LAGUNA SMART SHOP® FIBER LASER FC

INTELLIGENT CUTTING HEAD by BOCI:

- **Real Time Closed-Loop Feedback from built-in sensors provides Intelligent Monitoring for Rapid Diagnostics of Problems with Proactive Warnings.**
- **Lens Temperature Detection for Contamination / Damage Detection.**
- **Collision Detection Minimizes Losses and enables Rapid Production Recovery.**
- **Rapid Focus-Collimation Response Ensures a more Precise and Consistent Cut.**
- **2 Lower Protective Lenses to Provide added Shielding for the Focal Lens Set.**
- **Optimized Cooling System covers 90% of the Optical Path Provides Full Body Cooling for the Cutting Head.**



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THE LAGUNA SMART SHOP® FIBER LASER FC

HIGH PERFORMANCE FIBER LASER:

Our Optical Supply Delivers Performance, Consistency, and Cost Efficiency in the Most Demanding Industries or Educational Facilities. Laguna can Provide Solutions to Drive Success while Optimizing your Operational Costs.

FEATURES:

- **Global Industrial Fiber Laser Manufacturer**
- **Consistent Beam Quality for repeatable cutting performance**
- **Power Stability Maintains the Output within $\pm 1\%$ Ensuring Consistent Results**
- **Remote Diagnostics with the Machine and Fiber Optic Power Supply**
- **Connections for Optical interface information through the machines PC and with Bluetooth.**
- **Reliability and Efficiency through a High Electro-to-Optical Conversion.**
- **3KW and Larger have the added Back Reflection Protection for Highly Reflective Materials like Copper, Brass, and Nickel.**



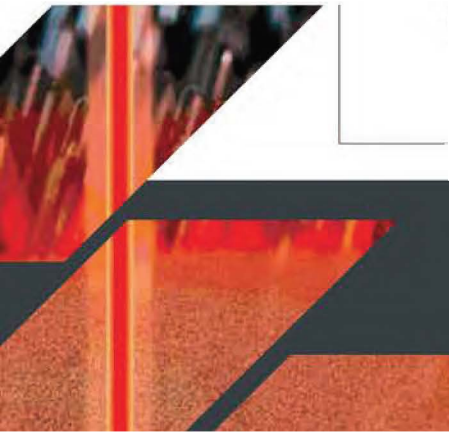
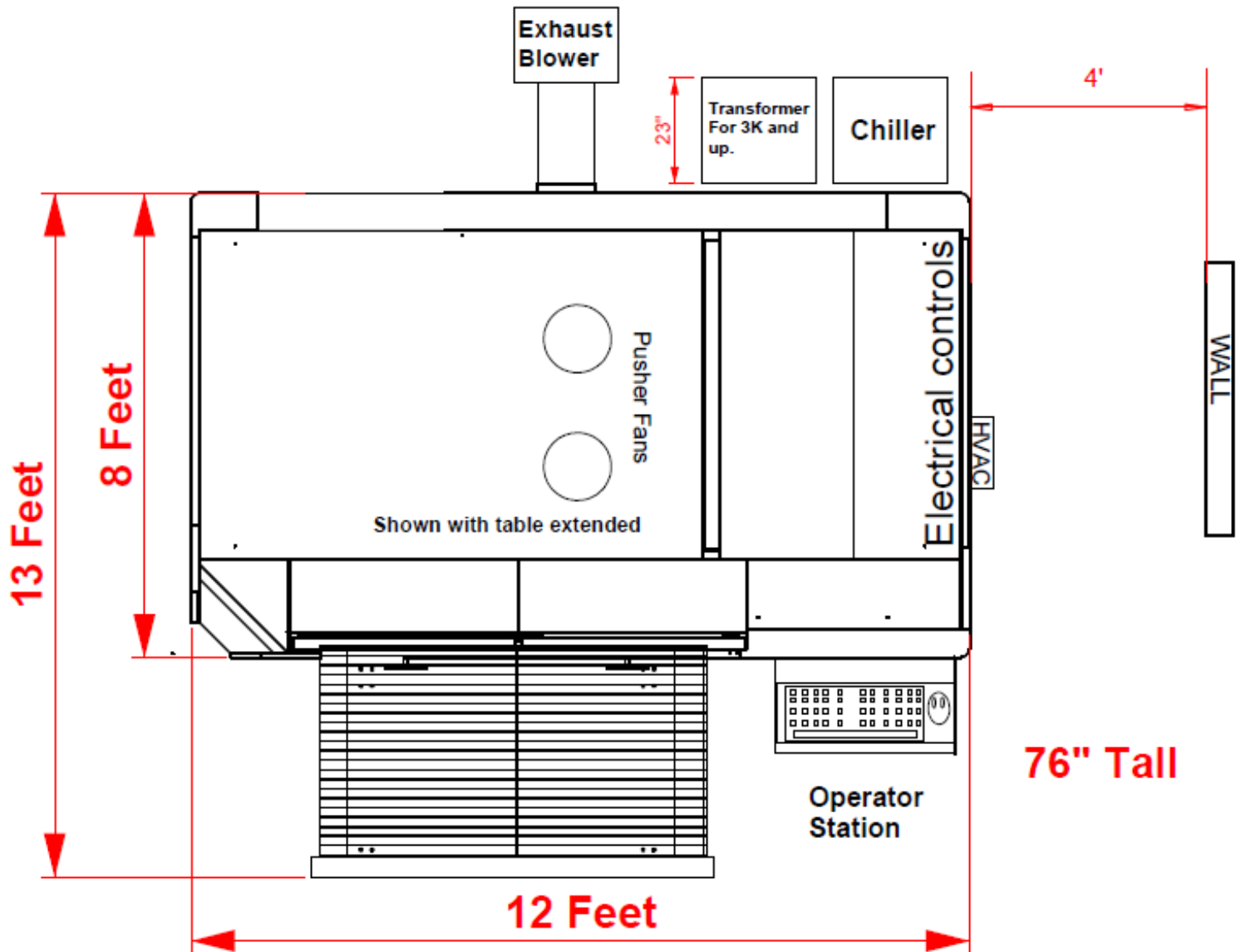
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THE LAGUNA SMARTSHOP® FIBER LASER FCE

4'x4' FCE Footprint



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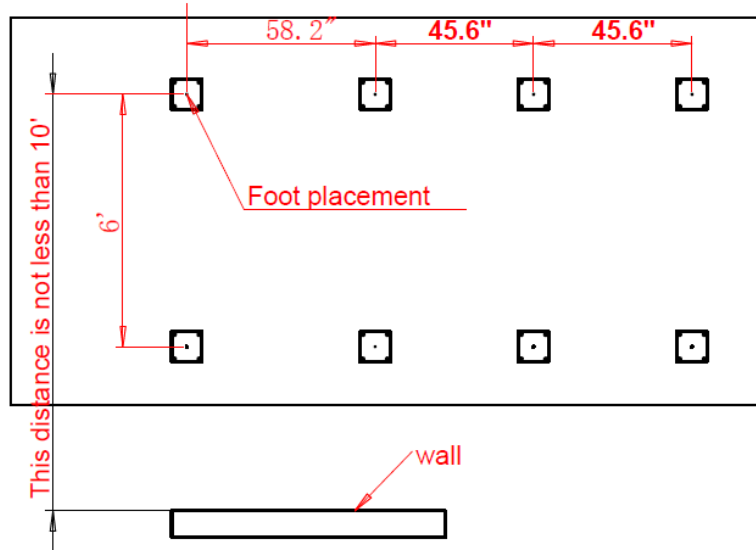
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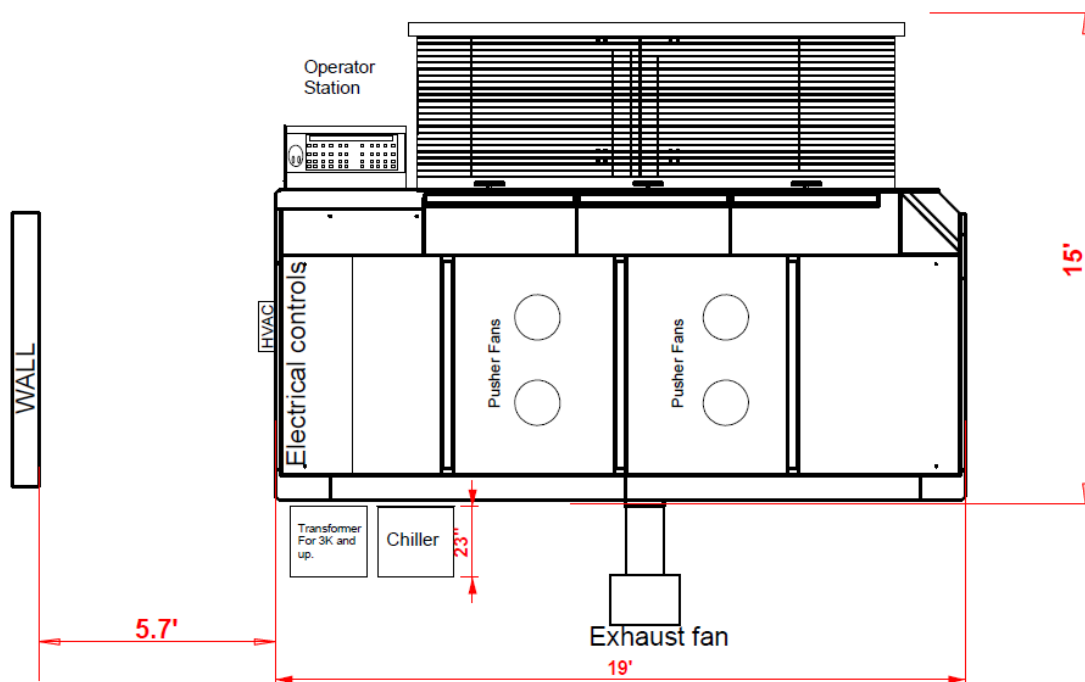
THE LAGUNA SMARTSHOP® FIBER LASER FCE

5'x10' FCE Footprint

Foundation drawing



Layout
Shown with table extended



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