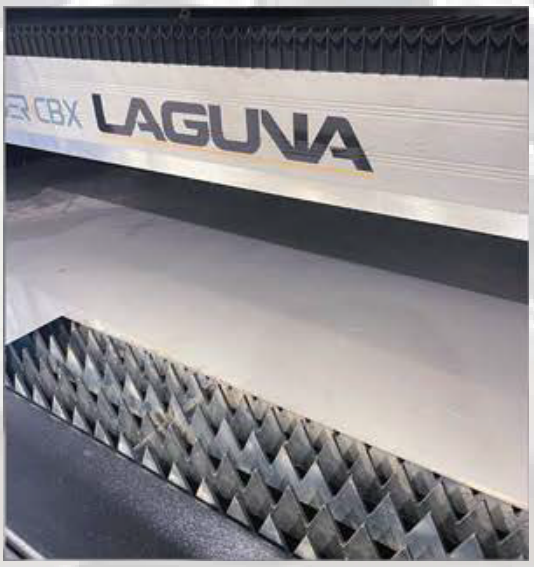
THE LAGUNA SMART SHOP® FIBER LASER CBX

LAGUNA

FIBER LASER 4’x4’ CBX 2026



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The Laguna SmartShop® Laser CBX is a high performance, heavy duty fiber laser cutting system in a compact package. The CBX is a self-contained portable unit capable of full sheet pass through. This unit is perfect for prototyping, small run quantities or limited space. The CBX has all the technology and versatility you need to keep up with an ever changing demand. Auto nesting, report generator, network compatible, Cad / Cam software, sheet/edge detection, and optical sensing head (non-Contact).

MACHINE SPECIFICATION:

- A 3'x4' and 4'x4' are available
- One Piece Welded Enclosure
- Fiber Laser Power Options: 2KW and 3KW Available
- Fully Enclosed
- Full Sheet Pass-through
- BOCI Closed Loop Cutting Head, Real time Feedback to the Controller
- Nesting and Batch Production
- Automated Height Control with Edge finding Capabilities
- Yaskawa Servo systems for all Axis
- Ball Screw Drive System
- Climate Controlled Electrical Cabinet
- Comprehensive Maintenance Packages Available with Laguna Care

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Average Maximum Cut Thickness by Power Supply:

Power supply Wattage	Carbon Steel	Stainless Steel	Aluminum	Copper	Brass
2,000 W, 2KW	0.620"	0.230"	0.150"	0.050"	0.070"
3,000 W, 3KW *	0.780"	0.310"	0.230"	0.110"	0.190"

POWER REQUIREMENTS:

Power supply Wattage	Power Supply Voltage	Power Supply Amperage	Phase	Oxygen Assist Gas	Nitrogen Assist Gas
2,000 W, 2KW	208-240V	60 Amps	1 Phase	30-100 PSI	50-200 PSI
3,000 W, 3KW	440-480V	60 Amps	3 Phase	30-140 PSI	50-300 PSI
Low Volt 3KW	208-240V	125 Amps	3 Phase	30-140 PSI	50-300 PSI

Notes: *3KW requires an additional 208-240V.40A,3PH circuit for Motion.

**** On Site Commissioning and Training Available.***

**** Lifetime Machine Technical Support.***

**** Laguna-Care Maintenance Programs Available.***

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INTELIGENT 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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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 ± 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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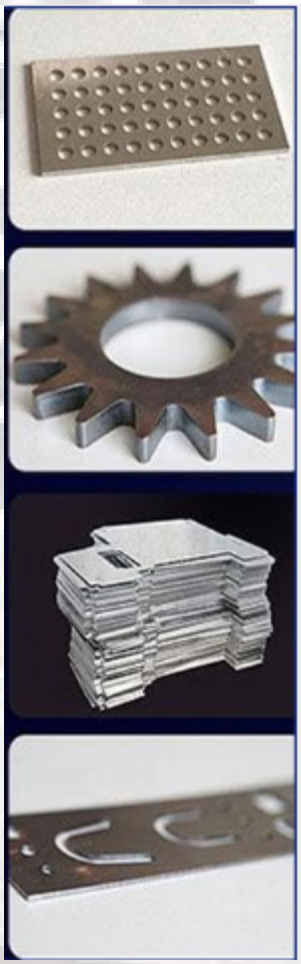
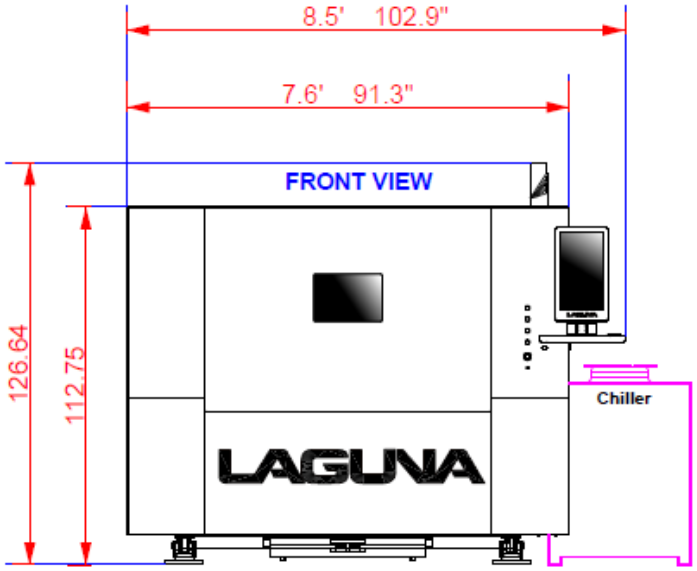
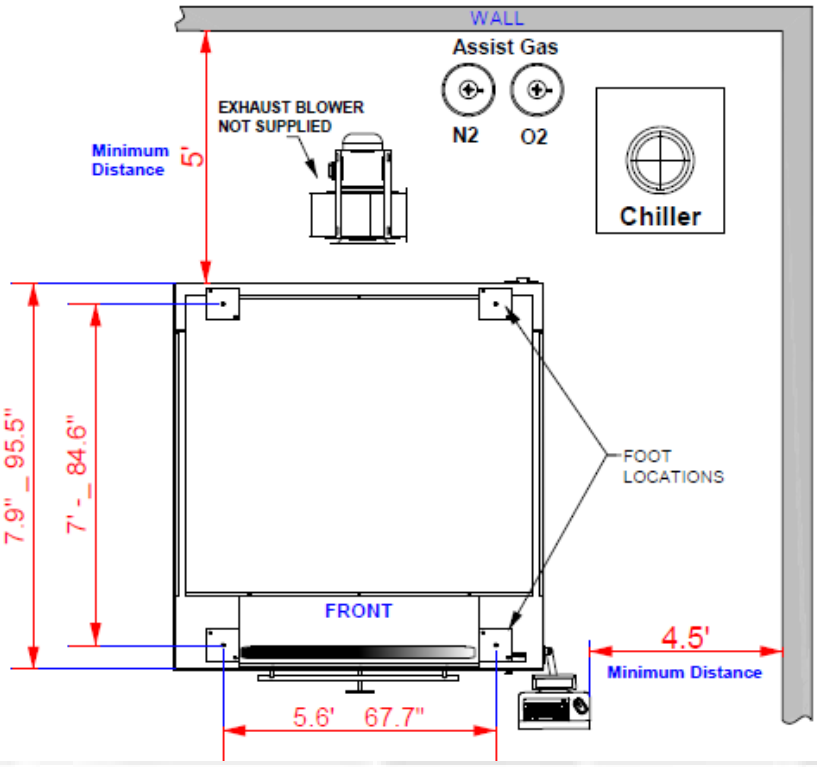
4'X4' CBX







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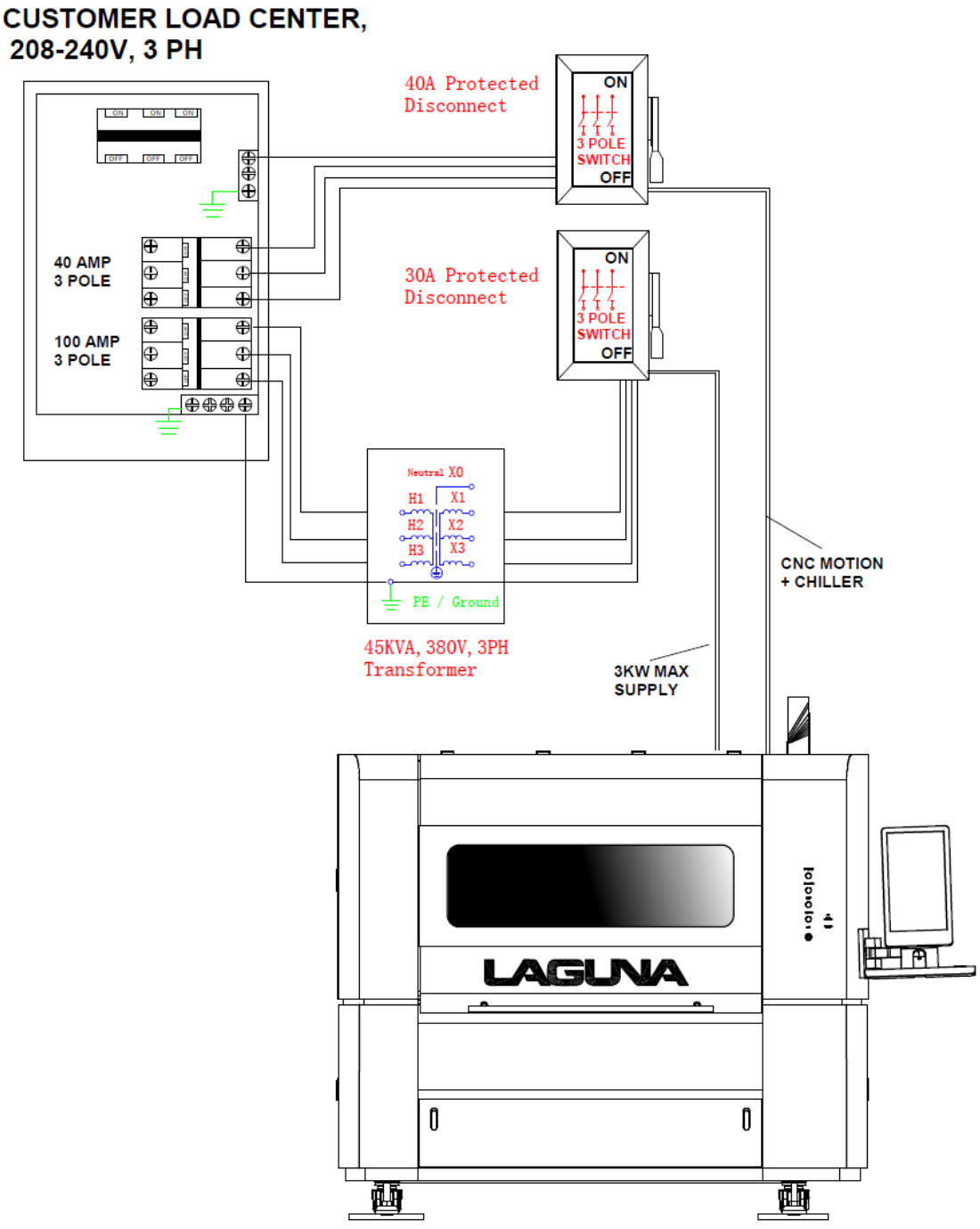
3KW ELECTRICAL LAYOUT



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2KW ELECTRICAL LAYOUT