

THE LAGUNA SMART SHOP® FIBER LASER FCS



LAGUNA FIBER LASER FCS 2026



THE LAGUNA SMART SHOP® FIBER LASER FCS

The Laguna SmartShop® Laser FCS is a high performance, heavy duty fiber laser cutting system. 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. A Full enclosure and material exchange tables allow the FCS to handle high production needs with ease.

MACHINE SPECIFICATION:

- **FCS Table Sizes. 5'x10', 6'x13' Available.**
- **Heat Treated and Stress relieved Frame.**
- **Fiber Laser Power Options: 3KW, 6KW, 12KW and 20KW Available.**
- **Programable Central Oiling System.**
- **Fully Enclosed with Shuttle Table.**
- **Automated Zone control for the most efficient Fume Extraction.**
- **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.**
- **Rack and Pinion Drive System.**
- **Climate Controlled Electrical Cabinet.**
- **Comprehensive Maintenance Packages Available with Laguna Care.**



THE LAGUNA SMART SHOP® FIBER LASER FCS

Average Maximum Cut Thickness by Power Supply:

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"

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

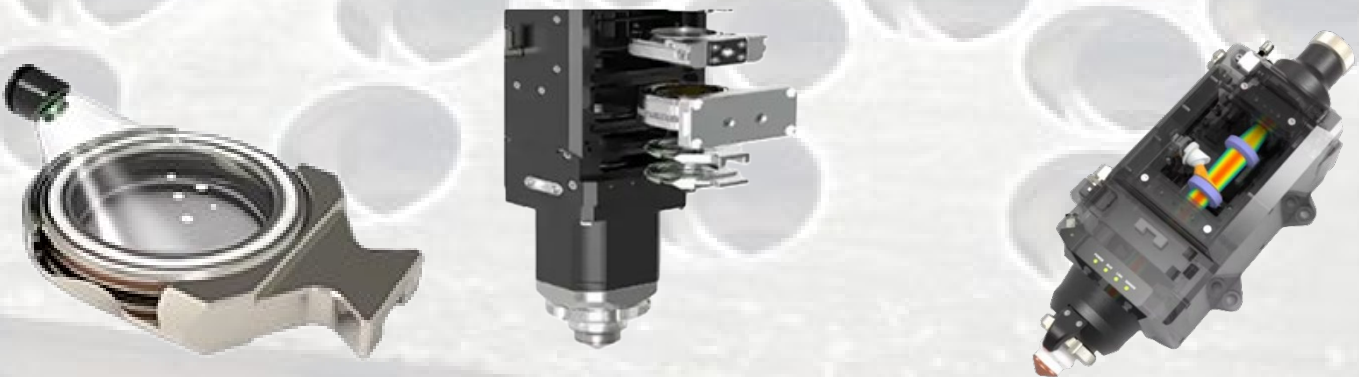
- * On Site Commissioning and Training.**
- * Lifetime Machine Technical Support.**
- * Laguna-Care Maintenance Programs Available.**



THE LAGUNA SMART SHOP® FIBER LASER FCS

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.**



THE LAGUNA SMART SHOP® FIBER LASER FCS

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.

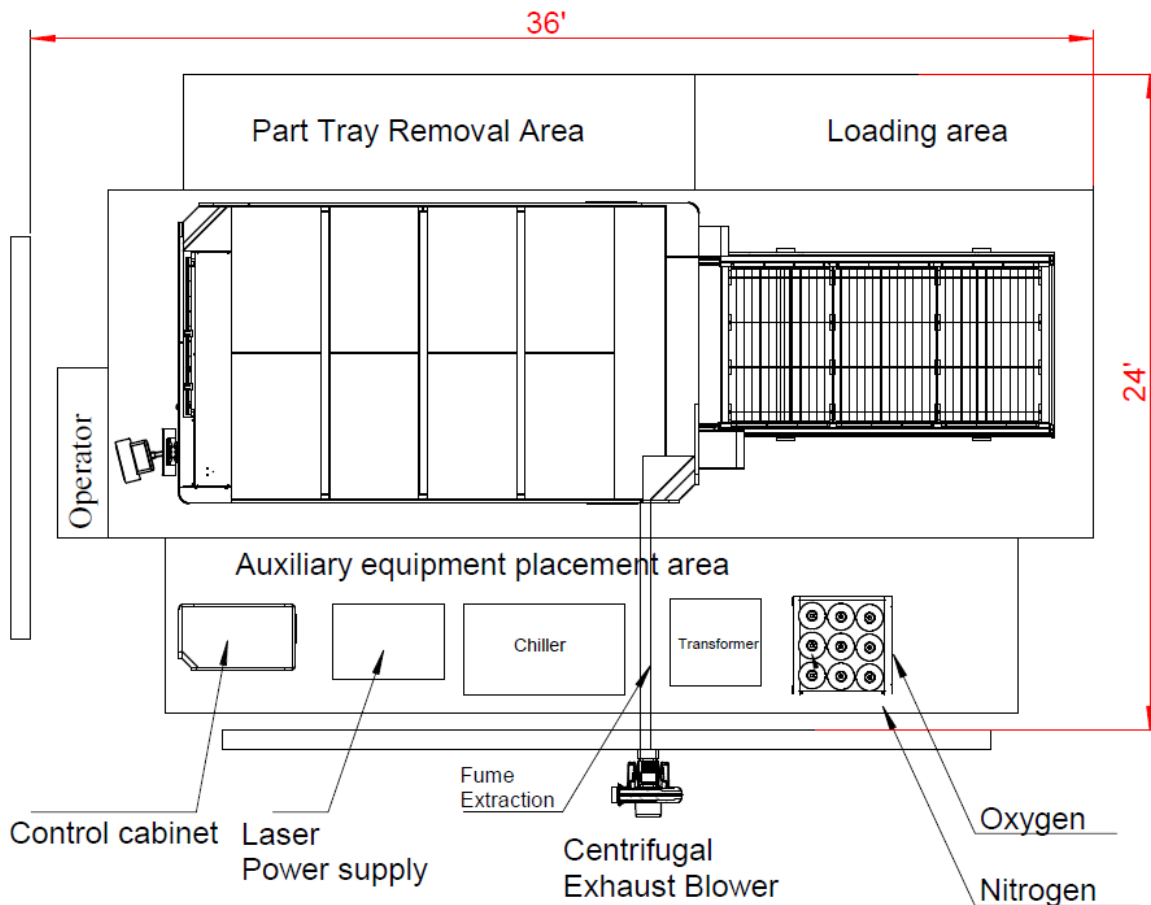
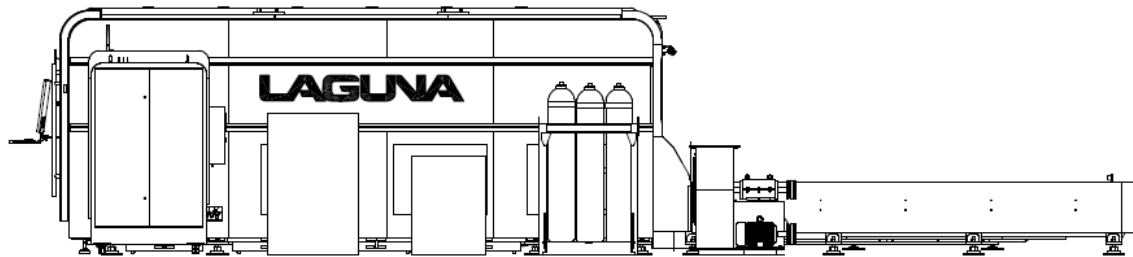
FEATURES:

- **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.**



THE LAGUNA SMART SHOP® FIBER LASER FCS

**5' X 10' FCS, 3-20KW
FOOTPRINT**



THE LAGUNA SMART SHOP® FIBER LASER FCS

**6' X 13' FCS, 3-20KW
FOOTPRINT**

