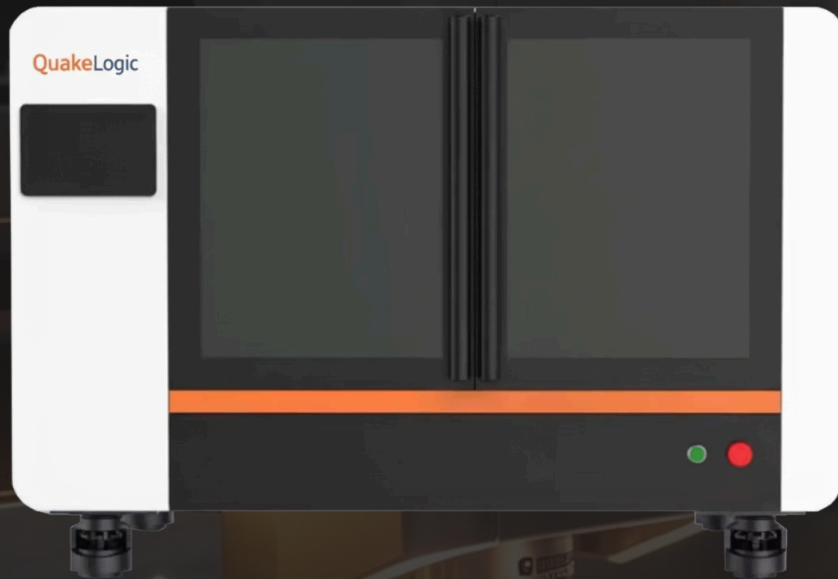




QL-FusionCore 1200 - All-in-One Enclosed Fiber Laser System

The QL-FusionCore 1200 is an industrial-grade, fully enclosed **all-in-one fiber laser system** integrating **welding, CNC metal cutting, laser cleaning, and engraving** within a single platform. Engineered for government and industrial metal shop operations, the system is designed to deliver **precision, safety, and operational reliability** in full compliance with solicitation requirements.



1200W Fiber Laser

High-power output for demanding industrial applications

Fully Enclosed Design

Safety-oriented architecture with integrated protection systems

CNC Multi-Function

Precision-controlled operation across all laser functions

Turnkey Configuration

Government-ready system with complete support infrastructure



Core Technical Specifications

The QL-FusionCore 1200 meets and exceeds all technical parameters specified in **RFQ No. W912LA26QA003**. Every specification has been engineered to ensure compliance while delivering superior operational performance in demanding industrial environments.

Laser System Parameters

Laser Type	Fiber Laser
Laser Power	1200 W
Safety Class	Class 4
Configuration	Fully Enclosed All-in-One

Working Area & Motion Control

Working Area	24 × 24 in
Metric Equivalent	610 × 610 mm
Positioning Accuracy	≤ 0.1 mm
Operating Speed	≥ 400 mm/s
Motion System	CNC Precision Platform

Electrical Requirements

Input Power	200–240 VAC
Frequency	50/60 Hz
Protection	Integrated Grounding
Components	Industrial Grade

1200W	0.1mm	24×24	400+
Laser Power Output	Positioning Accuracy	Work Area (inches)	Speed (mm/s)
Industrial-grade fiber laser capacity	Precision motion control tolerance	Optimal processing envelope	High-velocity operation capability

The system architecture incorporates **industrial-grade electrical components** with comprehensive protection systems, ensuring reliable operation in demanding production environments. The CNC-controlled precision motion platform delivers repeatable accuracy across all operational modes, while the fully enclosed design maintains safety compliance without compromising accessibility for maintenance and material handling.

Integrated Functions & Material Capability

The QL-FusionCore 1200 eliminates the need for multiple specialized machines by consolidating four essential laser fabrication functions into a single enclosed system. This integrated approach reduces floor space requirements, simplifies operator training, and streamlines workflow management while maintaining the highest standards of output quality across all operations.



Fiber Laser Welding

High-precision joining of metals with minimal heat-affected zones. Delivers clean, strong welds on materials from thin gauge sheet to structural components. Ideal for both production runs and prototype development.



CNC Metal Cutting

Computer-controlled cutting with exceptional edge quality and dimensional accuracy. Processes complex geometries and nested part layouts with minimal material waste. Optimized for both ferrous and non-ferrous materials.



Laser Cleaning

Non-contact surface preparation and restoration without chemicals or abrasives. Removes rust, paint, oxides, and contaminants while preserving substrate integrity. Environmentally responsible surface treatment solution.



Laser Engraving & Marking

Permanent part identification, serialization, and detail marking with microscopic precision. Creates durable, high-contrast marks for traceability and branding applications. Supports alphanumeric codes, logos, and 2D barcodes.

Material Compatibility Matrix

The system provides **repeatable, high-quality results** across a comprehensive range of industrial metals. Material-specific parameters are pre-programmed into the control system, enabling rapid setup and consistent performance across production runs.

Ferrous Metals

- Carbon Steel
- Stainless Steel
- Galvanized Sheet Metal

Non-Ferrous Metals

- Aluminum Alloys
- Brass
- Titanium



Each supported material has been tested and validated across all four laser functions to ensure optimal parameter settings are available in the system's control library. This comprehensive material qualification process guarantees that operators can achieve specification-compliant results without extensive trial-and-error setup procedures.

Safety, Installation & Support Infrastructure

The QL-FusionCore 1200 prioritizes operator safety and system reliability through comprehensive engineering controls and support infrastructure. Every aspect of the system—from initial installation through ongoing operations—is designed to meet the stringent requirements of government and industrial facilities.



Fully Enclosed Workspace

Complete laser containment with interlocked access panels



Emergency Stop System

Immediate shutdown capability at all operator positions



Controlled Access

Operational interlocks prevent unauthorized system activation

Installation & Commissioning

QuakeLogic provides complete turnkey installation services to ensure the QL-FusionCore 1200 is operational and compliant from day one. Our installation process is designed to minimize facility downtime while maximizing long-term system performance.

01

On-Site Installation

Professional rigging and positioning by certified technicians

02

System Commissioning

Electrical integration, calibration, and functional verification

03

Operator Training

Comprehensive instruction covering safe operation and system capabilities

04

Performance Validation

Test cuts and quality verification across all functions

Technical Support Network

Our **California-based support team** provides immediate assistance when you need it most. With **24/7 availability**, remote diagnostics capability, and rapid escalation procedures, QuakeLogic ensures your operation maintains maximum uptime and productivity.



24/7 Technical Support

Round-the-clock availability for critical issues



Remote Diagnostics

Real-time troubleshooting and parameter optimization



Rapid Response

Expedited escalation for time-sensitive situations

- Safety Compliance:** The QL-FusionCore 1200 is designed in alignment with applicable laser safety requirements for Class 4 fiber laser systems. The fully enclosed architecture with integrated safety interlocks ensures compliance with workplace safety standards while protecting operators from laser radiation exposure.

Delivery, Warranty & Compliance Statement

QuakeLogic stands behind the QL-FusionCore 1200 with comprehensive warranty coverage and expedited delivery terms designed to meet government procurement requirements. Our commitment extends beyond the initial sale to ensure long-term operational success and customer satisfaction.



30-Day Delivery

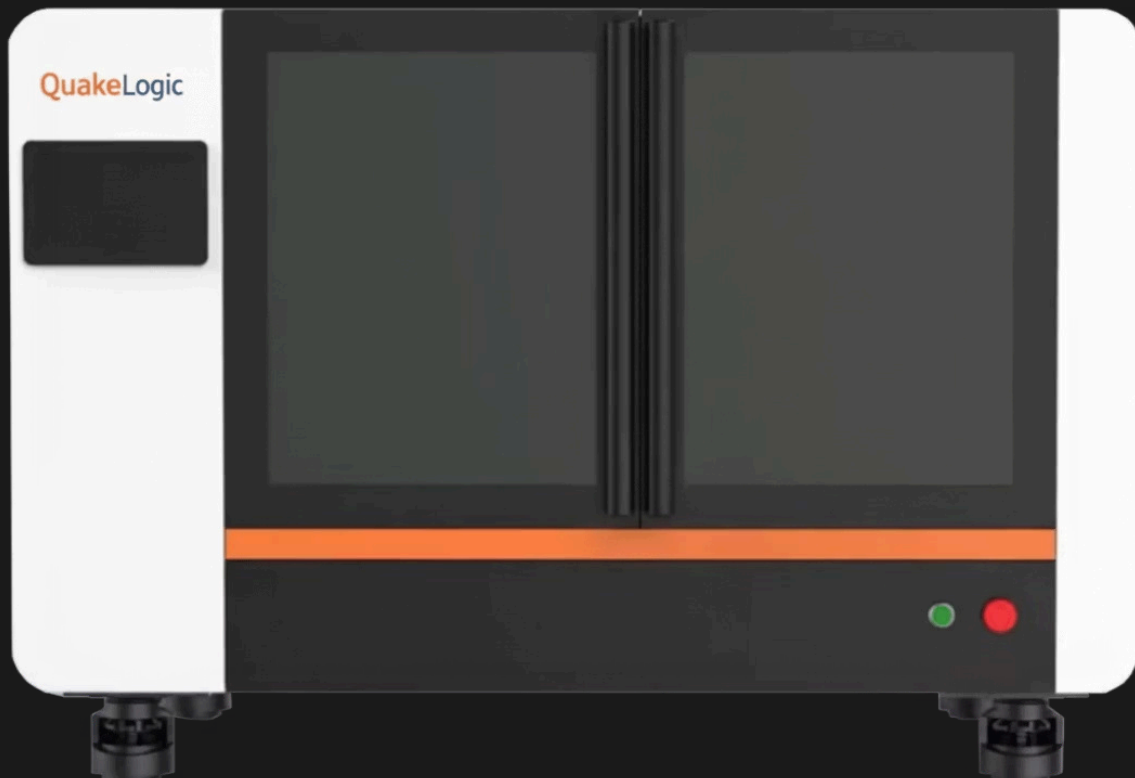


FOB Destination



Warranty Coverage

The QL-FusionCore 1200 represents not just a piece of equipment, but a complete partnership dedicated to meeting your operational requirements with precision, reliability, and unwavering support.



Advancing Precision with QuakeLogic

Empowering government metal shops, engineering laboratories, and applied manufacturing environments, **QuakeLogic Inc.** delivers **industrial-grade laser processing solutions** engineered for precision, safety, and operational reliability. The proposed **QuakeLogic QL-FusionCore 1200 All-in-One Enclosed Fiber Laser System** provides consistent performance across welding, CNC metal cutting, laser cleaning, and engraving operations, supported by intuitive CNC control and a robust enclosed system architecture.

Connect with QuakeLogic — Your Partner in Advanced Industrial Laser Solutions

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Direct access for advanced technical
consultations and priority instrument support.

Available Monday - Friday, 9 AM - 5 PM PST

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For strategic collaborations, enterprise-level
instrumentation solutions, and comprehensive
technical inquiries.

Our Unwavering Commitment to Operational Excellence



Certified Quality Assurance

Complying with international
standards for product reliability,
performance, and safety.



Pioneering Industry Leadership

Delivering advanced spectroscopy
and sensing technologies that ensure
precision, repeatability, and ease of
use.



Dedicated Client Success

Providing responsive technical
support, calibration guidance, and
complete after-sales assistance for
every system delivered.

Explore Our Complete Product Portfolio



Scan to Access Cutting-Edge Solutions

Discover how QuakeLogic's advanced CNC solutions modernize machining workflows, strengthen instructional capability, and deliver accurate, repeatable performance across training, laboratory, and applied production environments.

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