

 **QUAKELOGIC**

# QL-CleanWave 2000

LASER CLEANING SYSTEM



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## LASER CLEANING SYSTEM

- The QL-CleanWave 2000 CW Laser Cleaning System is a high-performance, industrial-grade fiber laser cleaning solution engineered for precision surface treatment, coating removal, and contamination elimination across a wide range of applications. Designed to meet stringent operational and safety requirements, the system delivers reliable 2000W continuous wave laser output with optimized wavelength performance, integrated cooling, and advanced control capabilities. The platform is fully configured for turnkey deployment, including safety equipment, onsite commissioning, operator training, and compliance-oriented features, ensuring seamless integration into demanding government and industrial environments.

### ✓ Technical Specifications:

	Laser Type:	<ul style="list-style-type: none"><li>• Fiber Laser Cleaning System (Continuous Wave - CW)</li></ul>
	Laser Power:	<ul style="list-style-type: none"><li>• 2000 W</li></ul>
	Wavelength:	<ul style="list-style-type: none"><li>• 1070 nm</li></ul>
	Working Mode:	<ul style="list-style-type: none"><li>• Continuous Wave (CW) operation</li></ul>
	Wavelength:	<ul style="list-style-type: none"><li>• Integrated industrial water chiller</li><li>• Uses distilled or de-ionized water</li><li>• Chiller Dimensions: 39 in × 23 in × 22 in (L × W × H)</li><li>• Chiller Weight: 280 lbs</li></ul>

## Technical Specifications:

Electrical Requirements:	<ul style="list-style-type: none"><li>• 220V, Single Phase, 50/60 Hz</li><li>• 50 Amp circuit</li></ul>
Scanning & Cleaning Performance:	<ul style="list-style-type: none"><li>• Max Scanning Width: 300 mm</li><li>• Multiple cleaning modes (line, rectangle, circular, sinusoidal, custom patterns)</li><li>• High-efficiency surface processing for rust, oxide, coatings, oil, and contaminants</li></ul>
Fiber Delivery System:	<ul style="list-style-type: none"><li>• Armored fiber cable (10 m length)</li><li>• Handheld laser cleaning head with precision control</li></ul>
Mechanical & Handling Features:	<ul style="list-style-type: none"><li>• Fully welded steel protective lifting cage</li><li>• 6-inch locking casters for mobility</li><li>• Integrated lifting sling rated <math>\geq 2000</math> lbs</li><li>• Industrial wheeled platform design</li></ul>
Control System:	<ul style="list-style-type: none"><li>• Intelligent multi-language control interface</li><li>• Adjustable cleaning parameters and programmable patterns</li><li>• Red-light assisted focusing system</li></ul>
Environmental Conditions:	<ul style="list-style-type: none"><li>• Operating humidity: <math>\leq 70\%</math></li></ul>



## ✓ **Included Consumables & Accessories:**

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- 10-pack protective lenses (30 mm × 2 mm),
- Laser protective glasses (ANSI Z87+ and CE EN 207 certified, OD 7+ @ 800–1080 nm, suitable for use over prescription glasses),
- Additional optical lens set,
- Standard system accessories and connection components.

## ✓ **Safety Equipment Package (Included):**

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- Four (4) pairs of ANSI Z87+ and CE EN 207 certified laser safety glasses
- Protection Level: OD 7+ @ 800–1080 nm
- One (1) Powered Air-Purifying Respirator (PAPR) system with clear visor and standard face seal
- Fifty (50) NIOSH-rated HEPA filters
- Fifty (50) compatible pre-filters

## ✓ **Warranty & Support:**

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### **Warranty:**

- Minimum 2-Year Manufacturer's Warranty including onsite repair support

### **Onsite Support:**

- System delivery, installation, and commissioning at end-user location
- Onsite operational training for end-users

### **Certification Training:**

- Online, self-paced Laser Safety Officer (LSO) certification training for minimum two (2) users

## ✓ **Delivery:**

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- Delivery Terms: FOB Destination
- Delivery Time: Within 30 Days After Receipt of Order (ARO)

# Advanced Laser Cleaning & Surface Preparation Solutions

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## Corporate Headquarters

QUAKELOGIC INC.  
2008 Opportunity Dr. Suite 130  
Roseville, CA 95678, USA

## Executive Support Line

**+1 (916) 899-0391**

Direct support for laser cleaning systems, surface treatment operations, and industrial material processing applications.

Available Monday - Friday, 9 AM - 5 PM PST

## Strategic Inquiries

**[sales@quakelogic.net](mailto:sales@quakelogic.net)**

For laser cleaning systems, surface preparation solutions, and high-performance industrial cleaning.

## Our Commitment to Advanced Laser Cleaning Solutions

### Reliable Cleaning Performance

Delivering precise, non-contact laser cleaning for rust, coatings, and surface contaminants across critical components.

### High-Efficiency Processing

Providing high-power fiber laser output for efficient surface treatment without damaging the underlying material.

### Dedicated Client Support

Ensuring reliable operation with intelligent control systems, adjustable parameters, and responsive technical support for industrial environments.

## Scan to Explore Laser Cleaning & Surface Preparation Solutions



### Explore Laser Cleaning Capabilities and Industrial Applications

Discover how QL-CleanWave 2000 enhances cleaning efficiency, operational reliability, and performance in industrial surface treatment applications.

**[www.quakelogic.net](http://www.quakelogic.net)**