

QL-CleanWave Pulse 500

QUAKELOGIC

PULSED LASER CLEANING SYSTEM



QL-CleanWave Pulse 500

Pulsed Laser Cleaning System



PORTABLE 500 W PULSED LASER CLEANING

The QL-CleanWave Pulse 500 is a portable, high-performance pulsed fiber laser cleaning system engineered for controlled removal of rust, paint, coatings, oxides, and surface contaminants from metallic components. Its 500 W pulsed source, adjustable pulse parameters, and selectable scanning patterns deliver precise surface preparation across complex geometries while minimizing thermal and mechanical impact on the underlying substrate. Supplied as a complete, ready-to-operate solution on a rugged mobile chassis.

- Pulsed cleaning process removes contaminants with controlled material removal, minimizing thermal and mechanical impact on the underlying substrate.
- Adjustable power, pulse width, frequency, and scanning width let operators tune the process to each surface geometry and contaminant.
- Lightweight handheld cleaning head and rugged mobile chassis enable convenient positioning and operation across a range of components.
- Supplied complete with protective eyewear, operation manual, and required accessories as a ready-to-operate cleaning solution.

STANDARD FEATURES »

- 500 W Pulsed Fiber Laser
- Handheld Cleaning Head
- Touchscreen Control System
- Anti-Reflection Protection
- Rugged Mobile Chassis
- Integrated Casters
- Cable & Head Storage
- Laser Protective Eyewear
- Operation Manual

Key Features

- 500 W pulsed fiber laser source delivers efficient removal of rust, paint, coatings, oxides, and residues from metallic surfaces.
- Adjustable pulse width, frequency, and power regulation allow the cleaning process to be matched to each application and substrate.
- Multiple selectable cleaning mode patterns and configurable scanning patterns address different surface geometries and cleaning tasks.
- Adjustable scanning width provides control over cleaning coverage for both broad areas and fine, localized work.
- Integrated intelligent control system with touchscreen interface centralizes all laser and pattern parameter adjustments.
- Lightweight handheld cleaning head gives operators precise, ergonomic access to complex geometries and confined areas.
- Integrated anti-reflection protection supports safe and stable laser operation on reflective metallic surfaces.
- Rugged mobile chassis with wheels and dedicated storage keeps the cleaning head and cables secured during transport.
- 1064 nm central wavelength optimized for efficient absorption on metallic components across cleaning applications.

PRODUCT FEATURES

Laser Source

Pulsed fiber laser, 500 W output power · Central wavelength 1064 nm · Adjustable power regulation

Pulse Control

Adjustable pulse width · Adjustable pulse frequency · Adjustable scanning width

Cleaning Head

Lightweight handheld laser cleaning head · Configurable scanning patterns for varied geometries

Control System

Integrated intelligent control system · Touchscreen interface · Adjustable power, pulse, frequency, width, and pattern parameters

Safety

Integrated anti-reflection protection · Laser protective eyewear included

Chassis & Mobility

Rugged mobile industrial chassis · Integrated wheels/casters · Dedicated storage for head and cables

For more information about the features, specifications, and available configurations of the QL-CleanWave Pulse 500, please contact QuakeLogic.

TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Model	QL-CleanWave Pulse 500
Product Type	Handheld Pulsed Fiber Laser Cleaning System
Laser Output Power	500 W
Laser Type	Pulsed Fiber Laser
Central Wavelength	1064 nm
Power Regulation	Adjustable
Pulse Width	Adjustable
Pulse Frequency	Adjustable
Cleaning Modes	Multiple selectable pattern modes
Cleaning Pattern Control	Configurable scanning patterns
Scanning Width	Adjustable
Cleaning Head	Lightweight handheld laser head
Control System	Integrated intelligent system, touchscreen
Parameter Control	Power, pulse width, frequency, width, pattern

SPECIFICATION	DESCRIPTION
Anti-Reflection Protection	Integrated
Surface Compatibility	Metallic surfaces and components
Substrate Protection	Controlled removal, minimized thermal/mechanical impact
Power Supply	208 VAC, Single Phase, 60 Hz
Chassis	Rugged mobile industrial chassis
Integrated Storage	For laser cables and cleaning head
Mobility	Integrated wheels/casters
Safety Accessories	Laser protective eyewear included
Documentation	Complete operation manual included
Equipment Condition	New, current-production equipment
Warranty	1 year, materials and workmanship
Delivery	Within 60 calendar days after award
Configuration	Complete system with standard accessories

QL-CleanWave Pulse 500

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About QuakeLogic:

QuakeLogic Inc. is a California-based engineering and technology company providing innovative, reliable, high-quality solutions to customers worldwide.

Our Commitment

We are committed to quality, innovation, and customer satisfaction – building lasting partnerships through reliable solutions and dependable support.

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