

FIBERSTAR® LASER CLEANING SYSTEM

4102 Series

★ **HIGHLIGHTS**

- ✓ Robust, Compact, Industrial Design
- ✓ 200 Watt Air Cooled Fiber Laser System
- ✓ Dual Galvo Wand with LED Red Pointers & Lights
- ✓ Wireless Operator Interface Laser Control Tablet
- ✓ Easy To Use / Safe / Cost Effective Solution

Laser Cleaning is effective on a wide range of materials and industries:

- | | |
|------------------------------|-----------------------------------|
| ➤ Metals | ➤ Automotive Industry |
| ➤ Stone | ➤ Aerospace Industry |
| ➤ Glass | ➤ Marine Industry |
| ➤ Plastics | ➤ Oil and Gas Industry |
| ➤ Rubber | ➤ Plastic Injection Mold Industry |
| ➤ Wood | ➤ Electronics / PCB Industry |
| ➤ Ceramics | ➤ Tool, Die & Metal Fabrication |
| ➤ Carbon-Fiber Polymers | ➤ Medical Device Industry |
| ➤ Fiber Glass Polymers | ➤ Pharmaceutical Industry |
| ➤ Painted or Coated Surfaces | ➤ Food Processing Industry |
| ➤ Organic Materials | ➤ Nuclear Decontamination |

✓ Rust, Corrosion, Paint and Coating Removal

✓ Surface Preparation for Welding or Bonding

✓ Plastic & Rubber Mold Cleaning

✓ Oil, Grease and Oxide Layer Removal

✓ Deburring and Surface Texturing & Finishing

✓ PCB Cleaning / Anilox Print Roll Cleaning

✓ Microbial Cleaning / Sterilization / Decontamination



Laser cleaning is a versatile and effective technique for removing contaminants, coatings, or oxides from various materials without causing damage to the underlying substrate and surfaces. It is used across a wide range of industries due to its precision, efficiency, minimal environmental impact, and ability to work on delicate or complex surfaces without causing damage.



LASERSTAR
ACADEMY™

Our education courses are designed to provide you with a solid foundation of fundamental laser skill sets to immediately gain a revenue impact with your new laser device.

LaserStarAcademy.com

Technical Specifications at www.LaserStar.net

Benefits of Laser Cleaning:

Precision and Control: Laser cleaning offers precise control over the cleaning process, allowing for the removal of specific layers of material without damaging the underlying surface.

Non-Abrasive and Gentle: Unlike traditional methods like sandblasting or chemical cleaning, laser cleaning is non-abrasive. This means it doesn't wear down or alter the surface of the material being cleaned.

Environmentally Friendly: Laser cleaning is a dry process that doesn't require the use of chemicals, solvents, or abrasive materials, reducing environmental impact and waste.

Cost-Effective: Over time, laser cleaning can be more cost-effective due to lower maintenance requirements, reduced need for consumables, and the ability to automate the process.

Versatility: It can be used on a wide range of materials, including metals, ceramics, plastics, and composites, making it suitable for various industries such as aerospace, automotive, and conservation.

Safety and Cleanliness: Laser cleaning reduces the risk of contamination and exposure to harmful chemicals, improving safety for operators and reducing the need for protective equipment.

Reduced Downtime: The precision and efficiency of laser cleaning can minimize downtime in industrial settings, allowing for faster turnaround times and increased productivity.

Minimal Residue: The process typically leaves minimal residue, which simplifies the post-cleaning process and ensures a cleaner work environment.

Automation Compatibility: Laser cleaning systems can be easily integrated into automated production lines, enhancing efficiency and consistency in cleaning tasks.

Long-Term Savings: The durability of laser cleaning equipment and the reduction in consumable costs can lead to significant long-term savings.

LASER TYPE	AVE. POWER	PULSE ENERGY	F-THETA LENS	SUPPLY CIRCUIT	FIBER LENGTH	WARRANTY
1064µm / Pulse	200 Watt	1.5mj	254 FS	120-230V, 1 Phase	3 meter	2 year

Worldwide Safety Certification
FDA(CDRH), CE



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