LASERS 1

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
- Stone
- Glass
- Plastics
- Rubber
- Wood
- Ceramics
- Carbon-Fiber Polymers
- Fiber Glass Polymers
- Painted or Coated Surfaces
- Organic Materials

- Automotive Industry
- Aerospace Industry
- Marine Industry
- Oil and Gas Industry
- Plastic Injection Mold Industry
- Electronics / PCB Industry
- Tool, Die & Metal Fabrication
- Medical Device Industry
- Pharmaceutical Industry
- Food Processing Industry
- 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 it precision, efficiency, minimal environmental impact, and ability to work on delicate or complex surfaces without causing damage.



LASERSTAR.NE



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

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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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