LaserStar® Portable Laser Cleaner+Engraver

4102-M Series

★ HIGHLIGHTS

- ✓ Robust, Compact, Portable Design
- ✓ 220W or 320W Air Cooled MOPA Fiber Laser
- ✓ Dual Galvo Wand with LED Red Pointers & Lights
- ✓ Wireless Operator Interface Laser Control Device
- ✓ Easy-To-Use / 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 / Sanitizing / Decontamination

Laser cleaning is a versatile and effective technique for removing contaminants, coatings, or oxides from various materials. It is used across a wide range of industries due to its precision, efficiency, and minimal environmental impact.

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

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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 with minimal damage to the underlying surface.

Non-Abrasive and Gentle: Unlike traditional methods like sandblasting or chemical cleaning, laser cleaning is non-abrasive and non-corrosive.

Environmentally Friendly: Laser cleaning is a dry process that doesn't require consumables such as chemicals, solvents, or abrasive media, 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 automation.

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

Safety and Cleanliness: Laser cleaning reduces the risk of contamination and exposure to harmful chemicals, improving operator safety.

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

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

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

Laser Wavelength	Ave. Power (Model Dependent)	Pulse Energy (Model Dependent)	F-Theta Lens	Supply Circuit	Optional Battery	Output Fiber Length	Warranty
1064nm	220W / 320W	2mJ or 15mJ	254mm	100-240VAC, 1 Phase	Lithium Module	≥5m	2 year

For More Technical Details Scan Here and Select the Desired Model:

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