



Self-explanatory operation

Point-and-shoot Cleaner

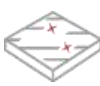
The **FLCH series** is a high-performance, handheld laser cleaning machine designed and manufactured by MRodin Laser Machinery, S.L., a Spanish company backed by shareholders with extensive expertise in laser technology development, production, and service.



Handheld



Wobble



Finishing



The **FLCH series** by **MRodin** represents a new generation of high-tech surface treatment solutions, designed for easy installation, operation, and automation.

- ✓ **Easy to operate and portable**, the system is highly adaptable to a wide range of working environments.
- ✓ It can **non-destructively clean** oxide layers, oily residues, and other contaminants from metal and various materials, making it widely used across industries.
- ✓ Featuring an **air-cooled pulse finishing laser system**, it is ideal for small craft marine vessel applications.
- ✓ Its **portable design** is perfect for laser cleaning and surface treatment of small areas, including delicate cleaning, paint removal, rust and corrosion removal, and other surface



See FLCH working

APPLICATIONS

MATERIALS

<ul style="list-style-type: none"> • Laser Finishing • Laser Cleaning • Paint Stripping • Surface Texturing • Surface Conditioning • Pre-Adhesion Treatment • Pre-Weld Preparation • Post-Weld Treatment 	<ul style="list-style-type: none"> • Degreasing • Induced Surface Prep • Rust & Corrosion Removal • Precise Paint removal • Mold Cleaning • Zinc Removal • Anodization Removal • Oxide Removal 	<ul style="list-style-type: none"> • Steel • Iron • Ceramic • Aluminum • Brass • Titanium • Copper • Concrete 	<ul style="list-style-type: none"> • CFRP • Plastic • Silicon • Metal Alloys • Cast Iron • Carbide • Chrome • Galvanized Metals
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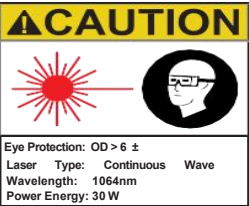
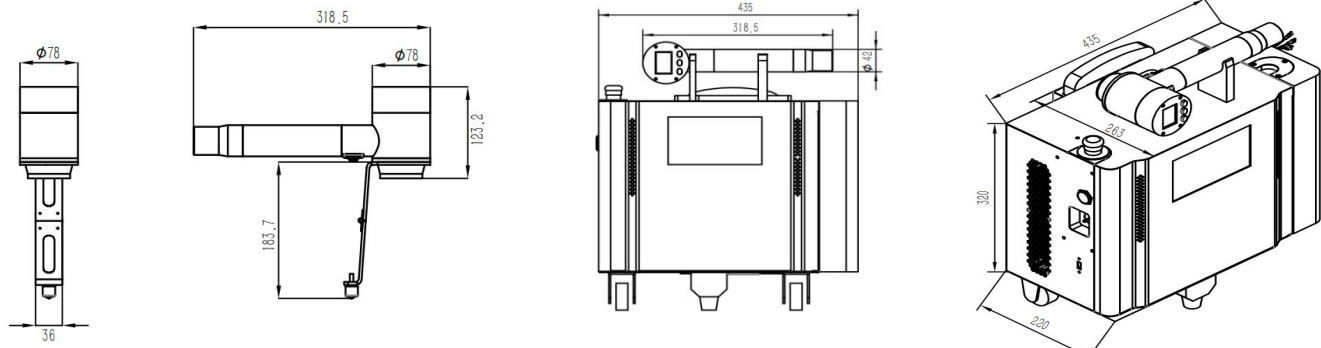


The **FLCH handheld MOPA pulse laser cleaner machines** are **Class IV laser instruments** equipped with enhanced safety features, ensuring **easy and safe operation** across various industries and work environments.

» **No Dangerous Chemicals** » **No Hazardous Fumes** » **No Complex Cleaning Procedures**

SYSTEM SPECIFICATIONS

Model	FLCH10200	FLCH10300
Laser source wattage	200W	300W
Machine power	750W	1200W
Max. Single Pulse Energy	1.5mJ	1.5mJ
Repetition frequency	5-200kHz adjustable	1-3000kHz adjustable
Pulse Width	150-190ns adjustable	20-500ns
Beam Quality	<1.8 M2	<1.8 M2
Scanning Range (L*W)	0-100mm continuously adjustable	
Cleaning Speed	3000-10000mm/s adjustable	
Laser Adjustment Range	0-100% gradient adjustable	
Fiber Length	3.5m	
Cooling Method	Air cooling	
Ambient temperature	5°C ~40°C	
Ambient humidity	≤80%	
Electrical parameters	AC100-240V, 50/60Hz	



The 1064nm wavelength laser light emitted by this laser system is invisible and poses potential harm to the human eye. It is imperative to always wear appropriate laser safety eyewear during operation.



Additional requirements not covered in this listing can be provided upon request. For guidance in identifying the optimal capabilities to meet your specific needs, please reach out to MRodin Laser Machinery S.L. or visit our website at www.mrodin.es.

Product is a Class IV laser as designated by the CDRH and does not meet the full requirements as a stand-alone laser system as defined by 21 CFR 1040.10 under the Radiation Control for Health and Safety Act of 1968. It is user responsibility to utilize all integrated safety features of the system to exploit as compliant with 21 CFR 1040.10.

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