

Laser Surface Treatment, Coating Removal and Cleaning

General Lasertronics Corporation (GLC) leads the way in applying high-power laser energy to the tasks of surface treatment, coating removal, cleaning and decontamination. GLC was first to deploy portable, flexible laser systems to aircraft maintenance organizations, conventional and nuclear power plants, and restoration projects. Our systems safely and effectively harness laser power to replace hand sanding, scraping and media blasting, and to replace the use of chemical etchants and solvents. GLC products save money by reducing or eliminating hazardous waste disposal, by improving operator health and safety and by reducing training and processing times.

GLC tackles tough cleaning and decontamination tasks such as lead paint abatement, selective removal of individual coating layers, small pipe and tube cleaning, surface treating and cleaning of thermally sensitive composite materials.

100W to 400W Portable Systems



Showing, from left to right, the laser and its controls, the waste management module and the chiller. End-effector (workhead) with its umbilical is resting on top.

Workheads for Every Application



Handheld



Handheld Color



Confined Space



Tube Crawler









Fixed Angle



Robot-Mounted

Applications:

- Surface cleaning
- Paint, sealant and coating stripping
- Selective stripping down to the primer
- Specialty coating removal
- Radioactive decontamination
- Selective layer removal and contouring
- Pipe and tube cleaning and decontamination
- Removing oxide, rust and mill scale
- Preparing surfaces for bonding, coating, and welding

GLC Model	Laser Power Options*		
	100W	150W	400W
	220V 1-phase 25A	208V 3 phase 30A	208V 3-phase 70A
GLC- A — Rotary Scan Handheld Confined-Space Workhead  3 cm standoff (aperture to surface) 7 cm diameter workhead body 1 cm scan diameter pattern Options: Integrated waste collection and filtration, Integrated television camera	●	●	●
GLC- B — Rotary Scan Workhead for Automated Positioner  3 cm standoff (aperture to surface) 7 cm square workhead body 1 cm scan diameter pattern Options: Integrated waste collection and filtration, Integrated television camera	●	●	●
GLC- F — Rotary Scan Fixed-Angle Workhead  Metal detection firing interlock Edge/step-contour tracking 1 cm scan diameter pattern Options: Integrated waste collection and filtration	●	●	●
GLC- H — Rotary Scan Handheld Workhead  3 cm standoff (aperture to surface) 7 cm diameter workhead body 1 cm scan diameter pattern Options: Integrated waste collection and filtration, Integrated television camera	●	●	●
GLC- W — Handheld Color and Metal Recognition Workhead  Surface-contour tracking Programmable color recognition and firing Metal detection firing interlock 1 cm scan diameter pattern Options: Integrated waste collection and filtration	●	●	●
GLC- T — Tube Crawler  Decoat or clean inner surfaces of tubes, pipes or vents with inner diameter ≥ 2.5 cm Accommodates bends as specified as well as extended pipe/tube lengths	Alternative power options for the GLC-T product line are available to meet customer task requirements and tube sizes		



- All models include Laser, Water Chiller, Controller, and Safety Interlocks.
- Standard fiber umbilical length 15 meters. Optional lengths up to 50 meters.
- * Power Options refer to continuous wave (CW) rating of laser output.

DSGLC-1206



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