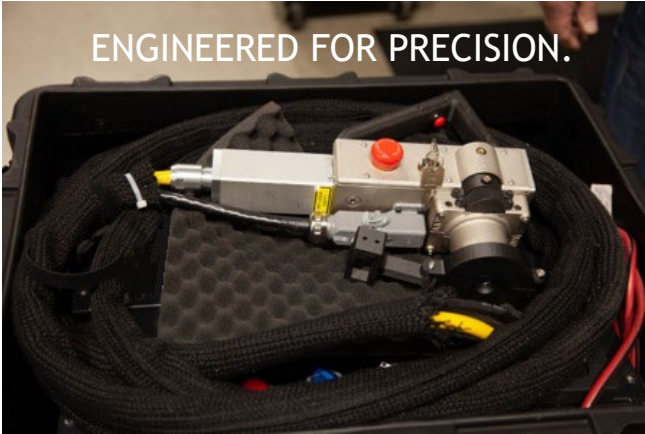




Transportable Handheld Laser Machine Tool ALE HH-100-200-NL

ENGINEERED FOR PRECISION.



DESIGNED FOR MOBILITY.



BUILT FOR INDUSTRIAL USE.



The American Laser Enterprises Transportable Handheld Laser Process Unit provides a versatile, environmentally responsible alternative to conventional chemical, abrasive, and water-blasting processes. Laser ablation removes coatings, contaminants, corrosion, and other unwanted surface materials without the hazardous waste, extensive site equipment, and lengthy preparation associated with traditional methods.

Laser technology provides a clean, energy-efficient process suitable for a wide range of industrial materials and high-value assets, including applications involving composites, fiberglass, alloys, and sensitive substrates.

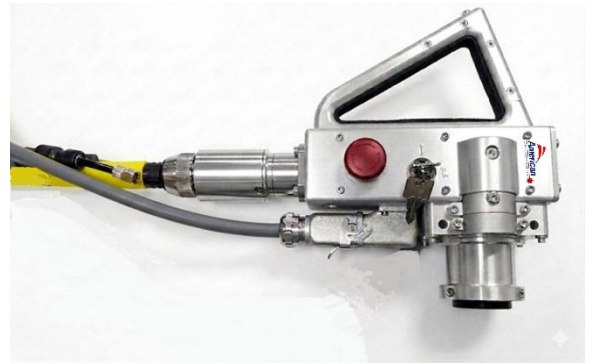
APPLICATIONS

- Paint Removal & De-Coating
- Corrosion Removal & Cleaning
- Surface Preparation for Adhesive Bonding
- Surface Preparation for Coating
- Mold Cleaning
- De-Oiling
- Surface Profiling
- Restoration of Stone, Brick & Concrete
- Sensitive Substrate Cleaning, including CFRP
- General Industrial Surface Cleaning

KEY FEATURES

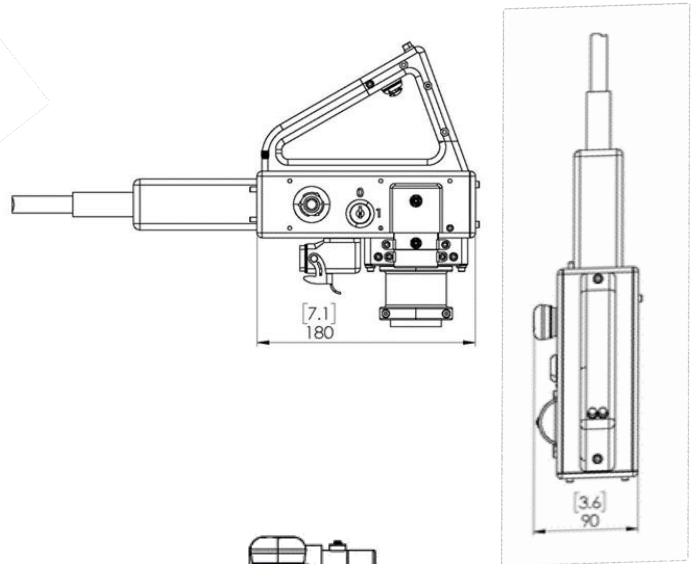
Ergonomic Laser Process Head

- Lightweight process head design
- Under 3 lbs.
- Designed for right- or left-handed operation
- Quick-disconnect cables and hoses
- Focusing lens with protective cover glass



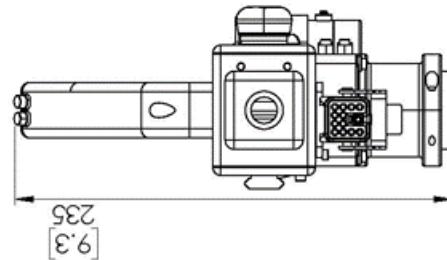
Operator Safety

- Deadman switch
- Automatic laser shutdown when the process head is not on target — optional
- Integrated safety features designed for controlled industrial operation
- ***ALL OPERATORS AND PEOPLE IN THE WORK AREA REQUIRED TO WEAR LASER SAFETY GLASSES RATED FOR THE LASER POWER OF THE SYSTEM!***



Flexible System Configuration

- Easily convert to robotic mounting
- Additional mounting configurations available upon request
- Fiber cable lengths from 5 to 30 meters
- Additional fiber lengths available upon request



Laser Source Compatibility

Designed for integration with laser sources from multiple OEM manufacturers, providing flexibility to select the appropriate laser technology and power level for the application that is suitable for rack mount in the Pelican Military Grade Case. Compatible OEM laser sources include:

- Coherent
- IPG Photonics
- Laserline
- Lumentum
- TRUMPF
- Other OEM laser sources upon

Transportable Flexible Case System

The complete system is packaged in a **military-grade hard transport case** engineered to protect critical laser equipment during transportation and field deployment.



Case Features

- Total system weight under 100 lbs.
- Water resistant
- Shock-mounted equipment protection
- Protection from drops, impacts, vibration, and other transportation hazards
- Molded-in gaskets sealing double-end compartments
- Comfort-grip handles on lids and sides
- 3.25" wheels
- 1" sway space
- Exceeds Air Transport Association Specification 300, Category 1 requirements

PARTICULATE COLLECTION — OPTIONAL

A **HEPA self-cleaning vacuum exhaust system** is available as an option for debris and particulate collection generated during the laser ablation process. There are many on the market and it is based on what type of work you intend to do with your system and what the environment conditions will require. The nozzle unit is adapted to be connected to the handheld, allowing the debris, smoke, etc. to be drawn into the filters and contained.



APPLICATION-FOCUSED LASER ENGINEERING

Laser Cleaning • Laser Ablation • Surface Preparation • Coating Removal • Corrosion Removal • Decontamination • Industrial Laser Processing

American Laser Enterprises continues to advance laser ablation solutions by integrating current laser source technology and power levels with engineered beam delivery systems designed around the customer's application.

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