



HandHeld CleanTech™ LPC-200CTH Laser Systems



COMPLETE METALWORKING SOLUTIONS
(800) 991-4225 www.ahbinc.com
ISO Certified customerservice@ahbinc.com



CLASS 4 INDUSTRIAL-GRADE LASER PARTS CLEANING, RUST REMOVAL AND SURFACE CONITIONING SYSTEM



Applications

The CleanTech™ Laser Systems operates in a wide variety of applications on a broad range of materials.

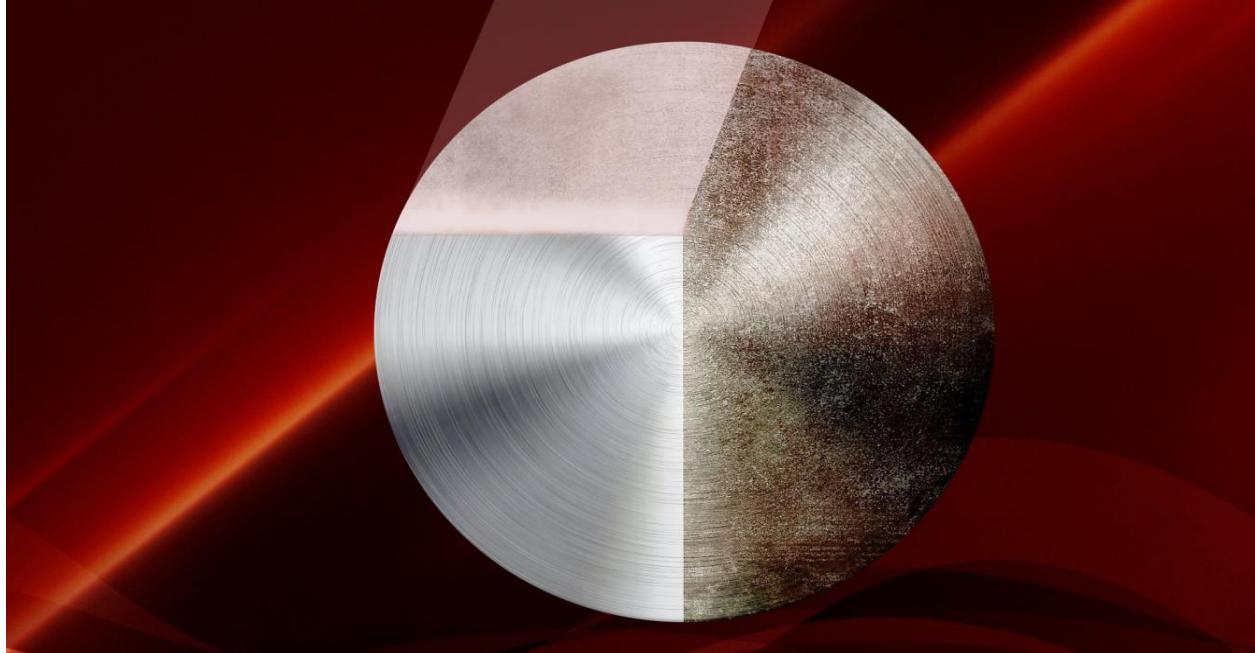
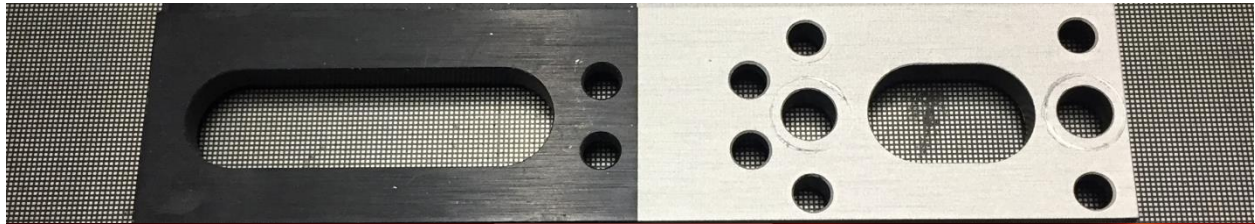
| Applications and Types of Cleaning | | Materials | |
|---|---|--|--|
| <ul style="list-style-type: none"> • Airplane De-painting • Metal Parts Cleaning • Anodizing removal • 3D Surface Cleaning and Conditioning • Surface Texturing • Cosmetic surface conditioning (replaces bid blasting) • Selective paint Removal • Mold Cleaning • Joining pre-treatment • Pre Welding | <ul style="list-style-type: none"> • Cleaning • "On-The-Fly" Cleaning • Ablation (Anodized, Painted or Coated) • Paint Stripping and Removal • Rust and Corrosion Removal • Degreasing • Induced Surface Improvement • Parts Cleaning | <ul style="list-style-type: none"> • Aluminum • Stainless Steel • Mild Steel • Titanium • Copper • Brass • Nickel • Galvanized Metals • CFRP • Coated Plastics • Silicon • Plastic | <ul style="list-style-type: none"> • Multi-Coated Materials • Painted Metal Alloys • Cast Iron • Chrome • Carbide • And More |

✓ CleanTech™ Laser Surface Preparation and Cleaning Systems

The CleanTech™ Laser cleaning equipment removes the messy chemicals and contaminants from the equation. No more storing and using dangerous chemicals, hazardous fumes,

costly clean-up and complicated procedures. CleanTech is the most cost effective, efficient and safe method of industrial cleaning, rust removal, paint removal and surface preparation.

CleanTech Laser cleaning machines is are class 4 laser products and include added safety measures for easy and safe operation in all industries and work environments. Aerospace, defense, commercial, manufacturing and institutional industries are pressing for economical, efficient and Earth friendly cleaning processes. The CleanTech Laser provides a versatile and easy to use industrial-grade laser cleaning machine that is eco-friendly, renewable and budget friendly.



BEFORE LASER CLEANING

AFTER LASER CLEANING



BEFORE



AFTER



✓ CleanTech™ Laser User Interface

The user-friendly software interface entails a fully integrated 7" and 9" Touch Screen GUI. It allows the choice any of preinstalled cleaning patterns or develop a custom pattern for a specific job, surface specification or throughput requirements. File links to several internal databases make the CleanTech™ program flexible and powerful.



Microprocessor controlled, system is instantly ready when the key is turned ON. Touch screen allows you to choose among the 5 pre designed cleaning patterns.

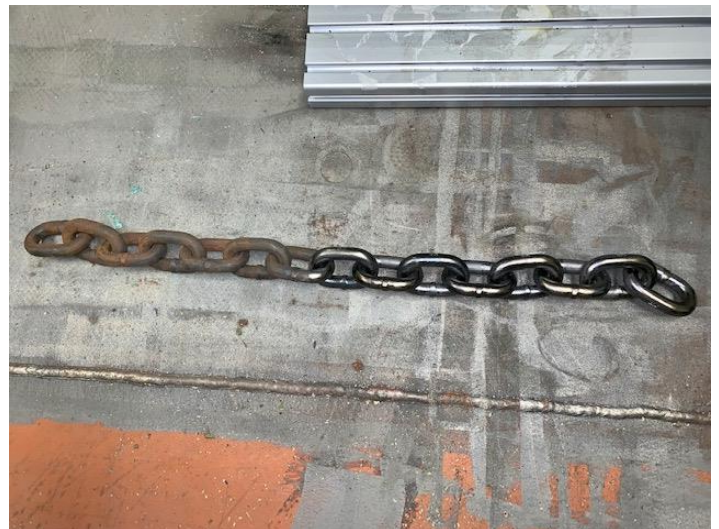
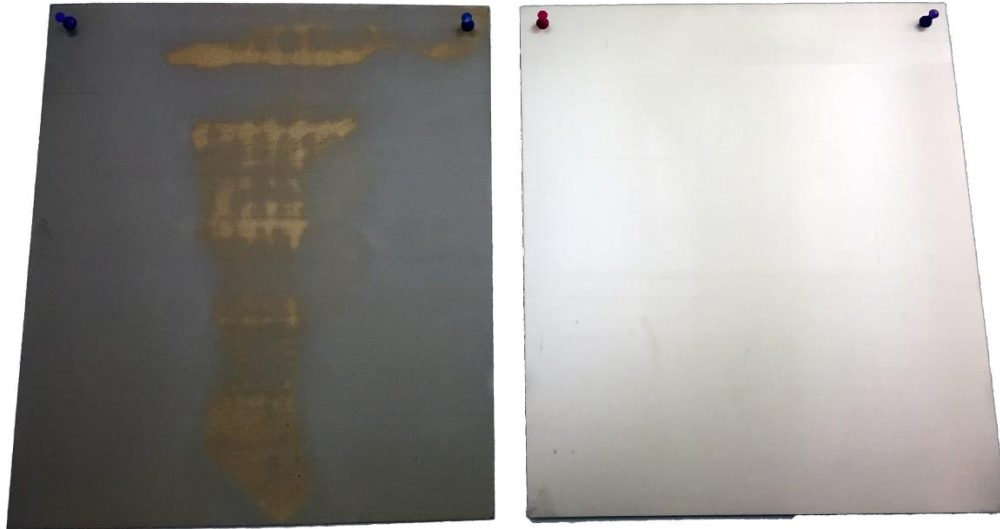
✓ Transparent Protective

Window: CDRH rated yellow transparent laser rated acrylic window for visualization of lasing processes and easier alignment.

✓ Operations & Maintenance Manual (in English) includes:

- Service information
- General description
- Laser safety manual
- Software manual (Appendix B)
- Operation description
- Troubleshoot guide
- Warranty certificate







LPC-200CTH CleanTech™Lasers



Handheld System



Robotics System

LPC-200CTH Cleaning Laser is an air-cooled pulsed laser system.

The LPC-200CTH CleanTech™ Laser is a high performance, industrial-grade, fast, precise and incredibly productive laser cleaning tool.

Super Compact it is designed as a Professional level laser cleaning and surface treatment system for small areas requiring delicate cleaning, de-painting and other surface preparation operations.

☑ Laser

The Q-switched Laser was specifically designed for maintenance-free applications. It delivers a diffraction limited ($M2 < 1.05$) laser beam directly to the worksite via a metal sheathed single-mode fiber cable. These compact service-free Lasers are designed to operate under high shock, vibration and dust conditions in relatively high humidity across wide operating temperature ranges. Wall-plug efficiencies up to 50% result in a compact size, reduced utilities, and trouble-free air cooling. There is no routine replacement of parts or materials scheduling; they require only a low voltage power source.



Microprocessor controlled, system is instantly ready when the key is turned ON. Touch screen allows you to choose among the 5 pre designed cleaning patterns.

Heavy duty industrial design is based on years of experience building Hand Held Lasers for marking and engraving applications. No PC needed.



✓ CleanTech Application:

Mold release cleaning, shipbuilding industry and Marine Corrosion removal, Decontamination, Zink coating removal for welding operation, automotive parts manufacturing, food processing equipment cleaning, sewage treatment, rubber tires, gas and oil industries, rust removal, aero craft de-painting, coating and paint stripping, degreasing, parts pre-coating, pre-welding treatment operations, welding treatment, oxide removal.

| SPECIFICATIONS FOR LPC-200CTH Laser Cleaning System | |
|---|-------------|
| Model Number | LPC-200CTH |
| Average Power (W), Max | 220W |
| Cooling Type | Air Cooling |
| Wavelength (nm) | 1064nm |

| | |
|---|---|
| System Dimensions(mm/inch) | See envelope drawings below |
| Hand Unit Cable length | 3-5 meters |
| Cleaning Pattern | 5 predesigned pattern modes |
| Laser Equipment Safety Class | Class 4 |
| Operating interface | 9" Touch Panel |
| Operating Temperature | 5-40°C. Non Condensing |
| Maximum Parts Size | Cleaning Area |
| Cleaning Area | Cleaning Area |
| Dust Collector/Fume Extractor | Optional |
| Head Weight | 8 Pounds |
| Clean Dry Air* (If Required and equipped)** | 60 PSY |
| Process Assist Inert gas Selection *** | Nitrogen, Argon, Carbon Dioxide, Compressed air |
| | |

** For system equipped with pneumatic components

*** For Systems equipped with Assist Gas Process Capability



✓ Cleaning Head

Multiple Cleaning Heads available for optimizing and maximizing performance for different Applications.



Dual Axis HandHeld Cleaning Head for Anilox and Pressure rolls applications



Dual Axis HandHeld Cleaning Head with integrated suction



Single Axis general purpose HandHeld Cleaning Head

Cleaning Head with dual activation switch and mechanical interlock for safety compliance.

General purpose Dual Axis HandHeld Cleaning Head in various configurations



✓ **Transparent Protective Window:**

CDRH rated yellow transparent laser rated acrylic window for visualization of lasing processes and easier alignment (Optional).

✓ **Operations & Maintenance Manual (in English) includes:**

- Service information and General description
- Laser safety manual and Operation description
- Troubleshoot guide and Cleaning head manual

✓ **Dust Collector/Fume Extractor for Laser cleaning system:**

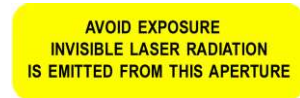
Movable Laser Cleaning system consists of laser, cleaning head, controls, and dust extractor/collector with extraction hose and replaceable filter bags. Dust extractor unit is designed for use with an array of portable/movable laser cleaning systems. The 1/2HP motor pulls air through a heavy-duty, reusable, front drawer-mounted filter at a rate of 620 cfm. Cleaning the filter is a simple matter of pulling the drawer out and vacuuming the filter and is durable enough to be re-used.



✓ **Application Research Center**

Laser Photonics maintains an applications lab for processing customer samples and assisting with process development. Our applications lab has the latest testing equipment to analyze all of your application needs.

✓ Safety and Compliance Disclosure



Safety Considerations During Operation

1064 nM wavelength laser light emitted from this laser system is invisible and may be harmful to the human eye. Proper laser safety eyewear must be worn during operation.

21 CFR 1040.10 Compliance

The product is a Class IV laser as designated by the CDRH and MEET the full requirements for a stand-alone laser system as defined by 21 CFR 1040.10 under the Radiation Control for Health and Safety Act of 1968. As an added level of security, a redundantly switched safety interlock system helps prevent accidental exposure to excess laser radiation. Plus, the system is equipped with an electrical power manual reset, a key-locked laser power switch and a remote interlock connector. Finally, the system has audible and visible emission indicators with five (5) second emission delay settings. All these features, in combination, constitute the laser radiation safety system, which allows the LaserTower™ Series of equipment be used in a safe and secure manner.

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Laser Photonics Corporation

1101 N Keller Road Suite G • Orlando, FL 32810 • USA



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