

HyperDisc™ Laser Process Unit



Applications:

- Paint Removal & De-Coating
- Surface Preparation for Adhesive Bond and Coating
- Mold Cleaning
- De-Oiling
- Surface Structuring
- Restoration of Stone, Brick, Concrete
- Ideal for Sensitive Substrate Cleaning i.e. CFRP

Features:

- Suitable for Laser Powers 20 Watts to 15 kW from multiple OEM Laser Companies*
- Not locked into anyone specific Laser! Used with Fiber, Di-ode, Excimer, CO₂, Lamp YAG and other types of lasers. Deadman Switch
- New HyperDisc uses 98% of the laser time over and above all other types of scanner devices ranging 45%-75%
- Adjustable focus/spot size maximizing removal area and amount, wide range of focus to surface
- Built-in adjustable vacuum port for at the point of work in order to contain fumes Vacuum exhaust collects debris particulates
- Laser Process Control (LPC) for selective layer by layer removal prevents damage to base material

SurClean introduces the HyperDisc Laser Process Unit for high power laser ablation surface cleaning and preparation. This process head is lightweight but powerful and suitable for large area applications.

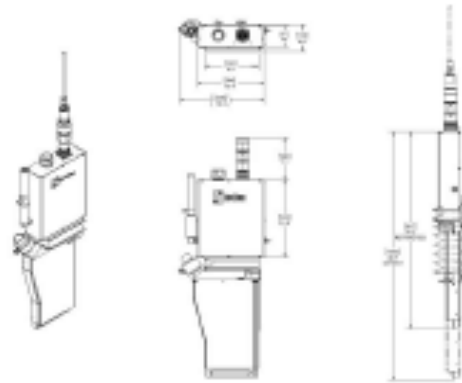
SurClean focuses on the workhorse of any laser system – the beam delivery. We marry our laser beam delivery system with off the shelf laser sources, chillers, exhaust/fume extraction and address the customer's specific application utilizing the correct laser power source from *OEM's Coherent, Laserline, TRUMPF, Rofin, Teradiode and others.

Our customers receive the latest technology and power levels as the laser industry continues to push forward with new developments and our engineers continue revolutionizing the SurClean laser ablation solutions.

HyperDisc™ Laser Process Unit

Specifications:

- Fiber Cable lengths from 10m to 30m (additional lengths available upon request)
- Scan Rate: Exceeds 60m/s
- Power Range: 20W – 15kW
- Wavelengths: 255nm – 1550nm, 10um
- Focus Range: 100mm – 1m
- Adjustable Width: 5mm – 100mm



LPC FEATURES:

- Online monitoring of the Laser Beam Ablation Process
- Detects Paint, Primer and Base Materials
- Real-time information
- Contactless
- Non-destructive
- CW and PULSED Laser Modes
- Adaptable Detector Configuration
- Closed loop Laser Power Control
- Suitable for all Industrial Laser Beam Sources



ROBOTIC INTEGRATION:

- SurClean is an authorized distributor of FANUC Robots.
- Laser, Chiller, Beam Delivery, LPC and Robot Controls Integrate into ONE programmed pendant.
- Multiple Program configurations available