

DMR Laser Process Unit



Specifications:

- Fiber Cable lengths from 10m to 30m (additional lengths available upon request)
- Scan Rate: Exceeds 30m/s
- Power Range: 20W – 10kW
- Wavelengths: 255nm – 1550nm
- Focus Range: 100mm – 450mm
- Adjustable Width: 5mm – 100mm

Applications:

- Paint Removal & De-Coating
- Surface Preparation for Adhesive Bond and Coating
- Mold Cleaning
- De-Oiling
- Surface Structuring
- Pre-weld Cleaning
- Ideal for Mold Cleaning
- Inline production or Stand-alone Robotic Cell applications

Features:

- Suitable for Laser Powers 20 Watts to 10 kW from multiple OEM Laser Companies*
- All controls (robot, laser, process) Integrated into One Pendant
- Vacuum exhaust collects debris particulates
- Laser Process Control (LPC) for selective layer by layer removal prevents damage to base material

SurClean DMR Laser Process Unit for high power laser ablation robotic surface cleaning and preparation. This process head is durable, lightweight and utilizes the Risley Prism theorem to effectively utilize the power of laser light.

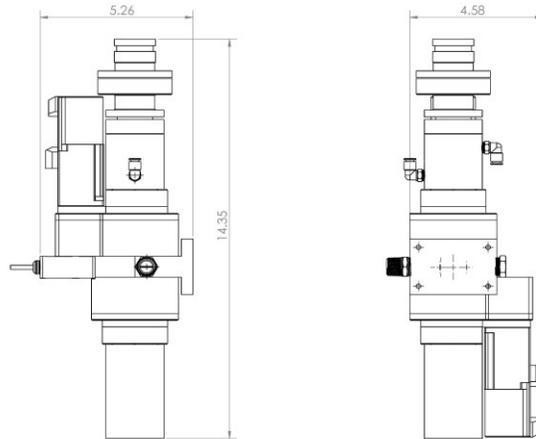
SurClean focuses on the workhorse of any laser system – the beam delivery. We marry our laser beam delivery system with off the shelf laser sources, chillers, exhaust/fume extraction and address the customer's specific application utilizing the correct laser power source from *OEM's Coherent, Laserline,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

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

DMR Laser Process Unit

SurClean DMR PROCESS HEAD:

- 304 Stainless Steel with Clear Anodizing
- Water-cooled Collimator
- 75mm QBH Fiber
- Must Specify Bolt Pattern for Robot Mount
- Optional Air Knife available



SurClean 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

SurClean 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
- DMR has long focal length allowing for 3D Cleaning

