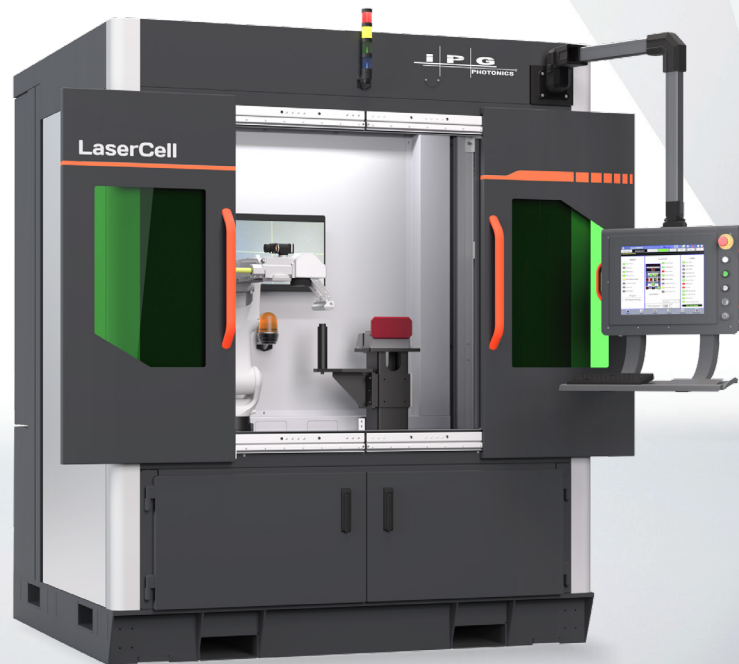


# LASERCELL 2000

## AUTOMATED LASER CLEANING WORKSTATION



Based on the high-performance IPG LaserCell platform, the **LaserCell 2000 Automated Laser Cleaning System** is a system purpose-built for surface processing applications. Laser surface processing offers high-speed cleaning, coating removal, stripping, and texturing for a wide variety of materials and part geometries.

**The LaserCell 2000** utilizes a 6-axis robotic arm that can be used to either move incoming parts underneath a static laser scanner or move the scanner around a fixtured part. A configurable design enables efficient processing for various part shapes and sizes.



### FEATURES

- ▶ Automated laser surface processing with proven process developed by IPG
- ▶ IPG laser source and beam delivery optimized for the application
- ▶ 6-axis robot supports both "part-to-process" and "process-to-part" configurations



### APPLICATIONS

- ▶ Surface processing
- ▶ Cleaning & rust removal
- ▶ Coating removal
- ▶ Paint stripping
- ▶ Texturing

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## AUTOMATED LASER CLEANING WORKSTATION

### System Specifications

Laser Source	IPG Air-Cooled Nanosecond Laser (Or Best Match for Application)
Beam Delivery	IPG Mid-Power Scan Head. Optics selected to suit application
Maximum Part Size	1000 mm x 600 mm x 1250 mm
Part Loading	Depends on System Configuration (Manual Loading or Sliding Drawer)
Part Tooling	Custom-Designed Part Tray & Robot Gripper
Part Handling Robot	Industrial 6-Axis Robot. Reach 911 mm. Max Payload 14 kg. Positioning Repeatability $\pm 0.010$ mm.
Machine Enclosure (L x W x H)	2000 mm x 1900 mm x 2500 mm
System Control	Industrial PLC controller with front swing-arm mounted HMI and keyboard running IPGCore software. Comprehensive door interlock and E-stop systems. Integrated work chamber heat sensor.
Power Measurement	Optional integrated laser power meter
Fume Extraction	Optional fume extraction module mounted within the system using a downdraft table beneath the process area to collect dust, fumes, and particles. Filtered air exhausted through system roof. Air exchange rate: 12,750 l/min. Efficiency: 95% on 0.3 micron mist/smoke.
Software	HMI using IPGCore multi-platform interface and process control software with embedded IPGScan deflection controller.
Facilities Required	Power: 230 V, 3 Phase, 60 Hz, 60 Amps Air: Filtered moisture-free compressed air, 550 kPa minimum
Operating Environment	Temperature: 0 C to 43 C Relative Humidity < 75%, No dew or frost
Regulatory Standard Compliance	OSHA 29 CFR 1910, ANSI/RIA 15.06-2, ISO 10218-2, NEC UL 508.A, ANSI ASC Z136.1, NFPA 70, NPFA 79



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