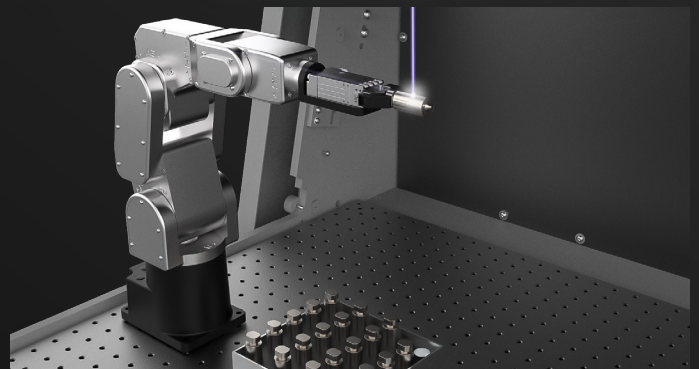




PrecisionFLEX WORKSTATION

PrecisionFLEX is a production-ready UV laser workstation designed for high-accuracy industrial applications. It combines a UV laser with high-resolution scanning optics and a precision robot part handler, delivered as a standard configuration for consistent, repeatable processing. Built on the FLEX platform, PrecisionFLEX can be configured with different laser powers, wavelengths, motion axes, and options to support marking, ablation, texturing, and cleaning—making it a flexible solution for regulated and high-precision manufacturing environments.



HIGH-PRECISION UV LASER PROCESSING

PrecisionFLEX combines a UV laser with high-resolution scanning optics to deliver clean, accurate processing on plastics, coatings, ceramics, and metals. The UV wavelength supports marking, ablation, texturing, and selective cleaning while minimizing thermal impact on sensitive parts.

PRECISION ROBOT HANDLING

A precision robot is integrated as a standard component of PrecisionFLEX, ensuring consistent part positioning and repeatable results. The robot enables multi-angle part presentation and efficient tray or batch handling, simplifying loading and unloading while reducing variability compared to manual operation.



ADAPTABLE PLATFORM

Built on the FLEX platform, PrecisionFLEX can be adapted with different laser sources, power levels, optics, axes, vision systems, and automation equipment. Beyond standard options, the platform supports custom layouts and equipment to meet specific production requirements.



PRODUCTION-GRADE DESIGN

PrecisionFLEX is a Class 1 enclosed workstation designed for easy integration into manufacturing environments. It supports standalone or automated operation and is compatible with standard industrial communication protocols and factory systems.

TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|---|
| Laser Power (Watts) | 1 - 55 W |
| Laser Type | UV |
| Wavelength | 355 nm |
| Laser Process | Marking, engraving, ablation, surface texturing, annealing |
| Part Material | Plastics, metals, coated materials |
| Cooling | Air-Cooling or Water-cooling (configuration dependent) |
| Tooling | Modular threaded aluminum tooling base plate |
| Machine Control and User interface | Laserax PLC-based control 24" touchscreen, keyboard & mouse on ergonomic arm |
| Communications | Ethernet/IP, PROFINET, EtherCAT, OPC-UA (others available) |
| Power Requirements | 120/230/240 VAC |
| Power Consumption | < 1.5 kW (configuration dependent) |
| Operating Temperature | 15°C to 35°C |
| Operating Humidity | < 70% |
| Fumes Extraction | Auto-controlled external unit |
| Enclosure | Class-1 certified laser safety enclosure |
| Part Loading Options | Manual or automated |
| Part Handling | Precision robotic handling (standard), optional motion axis |
| Vision | Vision systems for code reading, positioning, and process inspection |
| Working table dimensions (X-Y) | 900 x 600 mm |
| Total Working Area (X-Y) | Configuration dependent |
| General Dimensions (W x D x H) | 1400 x 1200 x 2000 mm (H: 2615 mm with door open) |
| Typical Station Weight | 650 kg |
| Typical robot payload | Depends on selected robot and tooling |
| Options | Precision 6-axis robotic handling Single or dual motion axis Rotary chuck Vision systems Automated door Power meter MES communication |



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