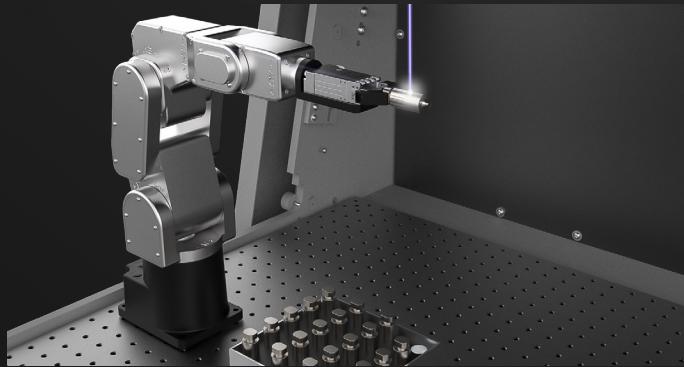




PrecisionFLEX WORKSTATION

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.



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.

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.



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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