

microPRO™ XS

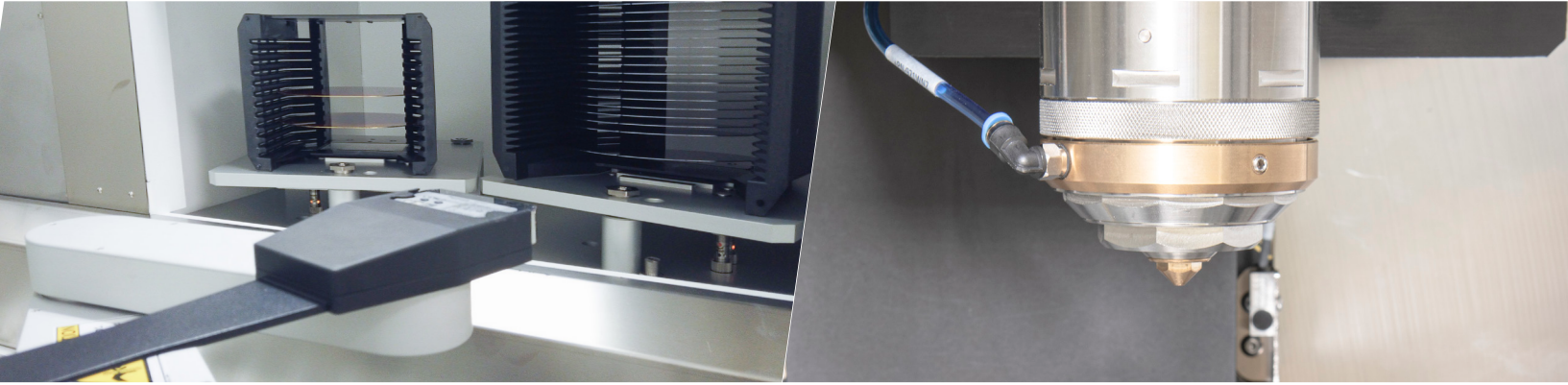
COMPACT AND COST-EFFICIENT LASER MICROMACHINING SYSTEM

3D-Micromac's microPRO XS is a compact and highly flexible laser micromachining system used in industrial production, product development and applied research. Superior flexibility and cost efficiency make the system ideally suited for laser structuring, cutting, drilling, and welding applications on a variety of substrates, e.g. metals, alloys, transparent and biological material, ceramics and thin-film compound systems.

HIGHLIGHTS

- One free configurable working area
- Integration of different laser sources
- Various optical setups
- Quick changing of workpiece clamping unit
- User-friendly, flexible, upgradable system control
- Automatic handling on request





microPRO™ XS - SYSTEM OVERVIEW



The microPRO XS enables the laser processing of various substrates. Due to the integration of different technology modules, the platform can be adapted to customers' requirements. Configuration packages may include:

- Cutting
- Drilling
- Engraving
- Structuring and modification
- Ohmic contact formation (OCF)
- Customized solutions

Laser sources	• The system is prepared for integration of one laser source (ns/fiber/fs/ps/CO₂)
Beam delivery unit	• One beam path with different options • 2D and 3D galvo scanner models or fixed optics • Power measurement at work piece level
Positioning system	• Direct-driven XY positioning system • Travel distance 300 mm x 200 mm • Positioning accuracy ± 0.015 mm • Repeatability ± 0.005 mm
Working area	• One working area • Max. substrate size 200 mm x 200 mm (larger sizes on request)
Handling	• Automatic handling as an option
Alignment	• Manual, semi-automated, or fully-automated workpiece alignment with XY system and optical measurement system on request • Automatic Z positioning (depending on configuration packages)
Software microMMI	• Control and supervision of all hardware components and machining parameters • Different user levels (administrator, supervisor, operator) • Data input file types: DXF, CSV, Gerber, CLI, others on request
Options	• Automatic handling system • Loading- and unloading handling according to customers' specification • RFID or Data matrix reader (DMC)
Safety	• Laser class 1 housing • Certified laser window or overview camera (webcam) • Active exhaust system included
System dimensions	• 2,444 mm x 920 mm x 2,100 mm (L x W x H) • Approx. 1.2 t



Rev. 2024-09 Changes in accordance to technical progress are reserved.
3D-Micromac® is a registered trademark in the EU and other countries.