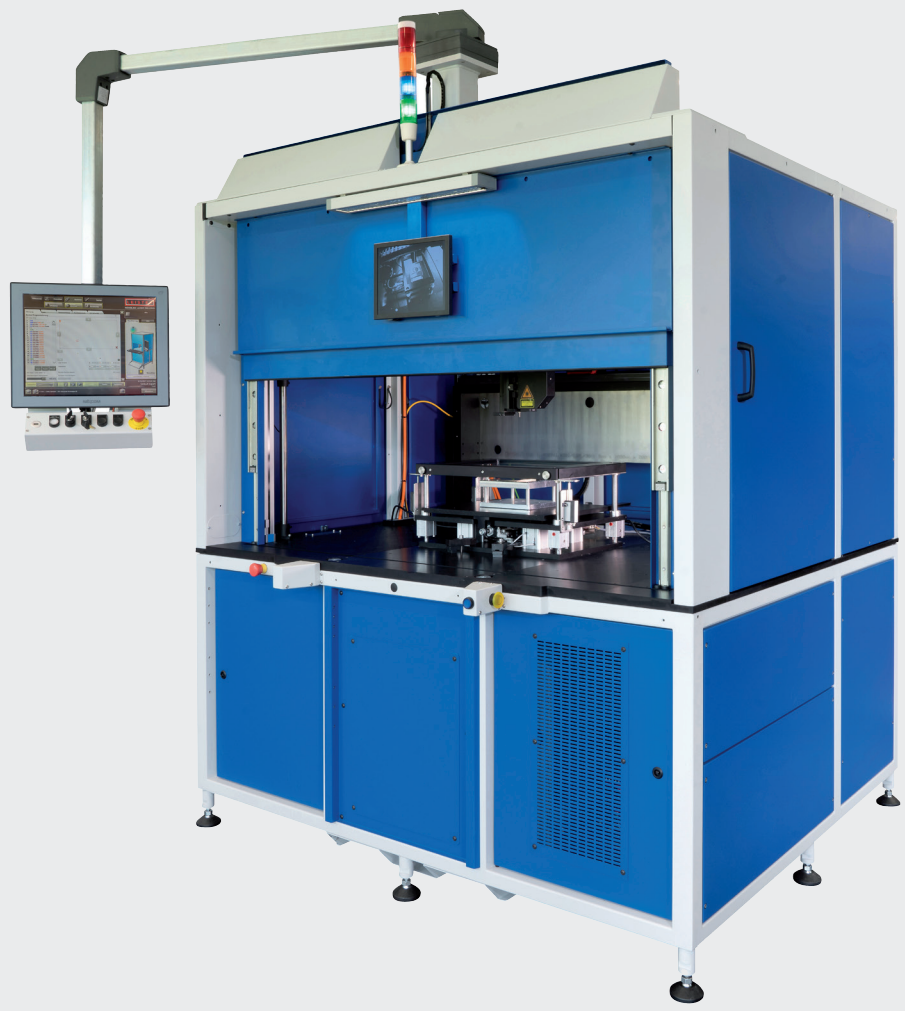




# MAXI



## Laser plastic welding workstation

MAXI is a modular, universally applicable laser welding system and specializes in large components. It can be equipped in many different ways as a manual workstation and can be adapted to customer-specific applications and processes.

- ✓ Laser welding large plastic components
- ✓ Software for optional robot integration
- ✓ Online process control
- ✓ Easy to integrate into existing processes
- ✓ High throughput and thus profitability



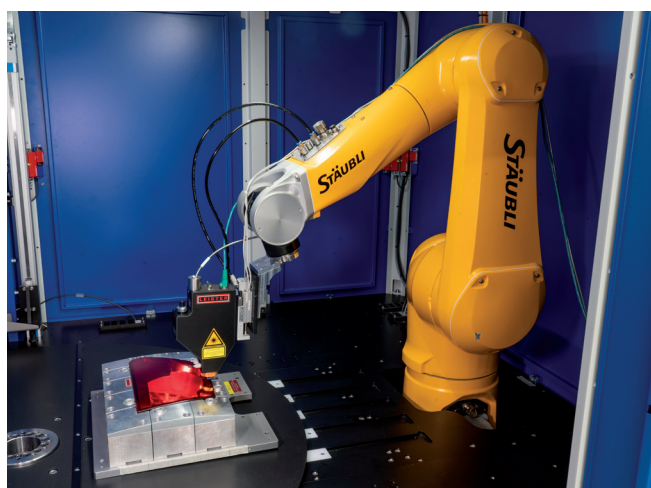
## MAXI with robot

The MAXI is a configurable manual turnkey system equipped with all necessary components for laser plastic welding.

The Human Machine Interface (HMI) software visualizes the full process and assists while parameterizing the welding process. The HMI shows the welding contour as well as the local limits of the robot within the operation cell. The contour is displayed by a sequence of points where each point can be edited with an additional function like change of speed or laser power. In addition, the HMI transmits process data like laser power, speed and clamping pressure to the system where this data is saved in relation to a specific project.

Not only can the system be configured with the robot but also with other motion systems. Furthermore, the system can be equipped with a conveyor belt or with no feeding system at all.

- + Laser welding system based on a 6-axis-robot
- + Several applications eligible for production
- + Process-independent HMI Software
- + Laser safety class 1



Technical Data	
laser type	diode laser or fiber laser
beam shape	Spot, line, ring, field DOE, radial
laser power [W]	< 600
pilot laser / aiming beam	LED
working area robot [mm]	until approx. 1450 x 800
welding speed [mm/s]	< 200 max.
max. working load [kg]	14
compressed air [bar]	6
controller	integrated PLC, HMI, robot
data interface	Leister HMI, robot
dimensions (L x W x H) operation cell [mm]	1760 x 1500 x 2200
weight [kg]	< 2000
voltage [V]	400 ~ max.
max. current consumption [A]	16
frequency [Hz]	50 / 60
environmental conditions [°C]	15 – 35



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