

Laser plastic welding

The system satisfies in welding of thermoplastics and automated scanner welding through its efficiency and versatility.



Fields of application

- Automotive
- Medical technology
- Electronic industry
- Consumer goods industry

Specifications

Laser source	diode-pumped
Wavelength	between 940 nm – 2.500 nm, depending on the application
Max. mean power (cw)	up to 300W
Focus diameter	0,8 – 5 mm
Processing field	up to 560 mm x 560 mm
Load capacity turning table (optional)	100 kg per side
Traversing distance	$\Delta z = 200$ mm
Cooling	air cooling
Dimensions (d/h/w)	1.200 mm/2.200 mm/1.160 mm
Weight	800 kg

Optional equipment

Turning table	with optional ports for sensors and optical pressure device
Up to 2 rotating axes	for radial welding applications
Process control	customized solutions on request
Automatic clamping pressure unit	for homogeneous force input over the entire clamping process
Multi-clamping-system	to increase the cycle frequency

Highlights at a glance

- scanner technology permits outline and simultaneous welding
- 24/7 operation
- workpieces up to 100 kg
- local heat input
- no pre- or post-processing required
- online process control
- variable spot diameter

✓ Short cycle times
✓ High productivity
✓ Precise welding