
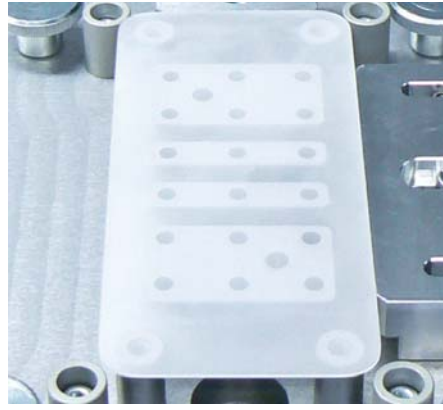


ELC 220
LASER PLATFORMS FOR ELECTRONICS



ELC 220

Laser Platforms for Electronics



TECHNICAL SPECIFICATIONS

ELC 220

Dimensions (L x W x H)	2,900 mm x 2,800 mm x 2,700 mm	
Weight	5,000 - 5,500 kg	
Power supply	200 - 480 V	
Compressed dry air	6 - 7 bar	
Cooling Water	5 - 20 l/min	
Working area	2 x 2 chucks	
Accuracy	< ±20 µm absolute < ±10 µm repeatability	
Maximum product size	140 x 170 mm (after confirmation also bigger layouts possible)	
Fiber-Laser sources	Wave length	1,070 nm
	Pulse	ns
Laser spot size	10 - 300 µm	
Beam delivery	Fiber delivery; Fixed optics	
Safety	CE	

PROCESS AND SYSTEM VALUES

Material	plane sapphire (different crystal orientations)
Material thicknesses	up to 1.0 mm
Sidewall roughness values	> 1 µm
Cutting speed	up to 25 mm/s (depending on thickness)
Taper angle	< 2° (neither chamfer nor adjustable taper possible)

FEATURES

- Universal cutting system
- Fixed optic or scanner setup
- Highly modular system design
- Fast manufacturing
- High volumes and quick ramp-up
- Highly accurate system
- Standalone system
- 3 x Process heads for high throughput

OPTIONAL

- Several laser sources available
- Fully automatic handling (mass production)
- Semi automatic handling (R&D)
- MES interface and integrated process metrology
- Import of CAD files (e.g. DXF, DWG)
- Vision system
- 1 x or 4 x Process heads
- Line integrable

Manz AG

Steigaeckerstrasse 5 • 72768 • Reutlingen • Germany
Phone +49 7121 9000-0 • Fax +49 7121 9000-99 • info@manz.com