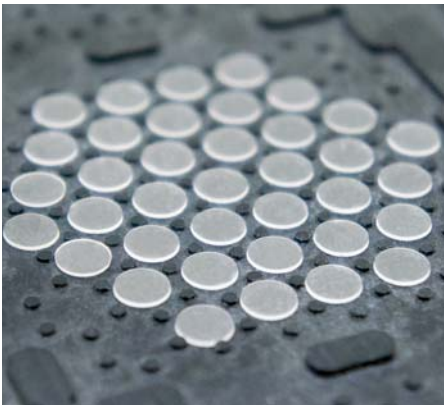


ELC 720
LASER PLATFORMS FOR ELECTRONICS



ELC 720

Laser Platforms for Electronics



TECHNICAL SPECIFICATIONS

ELC 720

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 Scan field 60 mm x 60 mm	
Accuracy	< ±20 µm absolute < ±10 µm repeatability	
Available laser sources	Wave length	10.6 µm (CO ₂) 1,030 nm
	Pulse	µs; ps
Laser spot size	2 - 300 µm	
Beam delivery	Scanner; Fixed optics	
Safety	CE	

PROCESS AND SYSTEM VALUES

Material	polished plane Sapphire (c-plane)
Material thicknesses	< 0.4 mm
Sidewall roughness values	~ 0.4 µm
Maximum product size	2"
Throughput	up to 40 pcs per minute (depending on layout)
No HAZ	
Taper	< 2°

PROCESS AND SYSTEM LIMITATIONS

Minimum space between neighboring caps is 750 µm
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FEATURES

- Universal cutting system
- Highly modular system design
- Fast manufacturing
- High volumes and quick ramp-up
- Highly accurate system
- Standalone and line integrable system
- Linear / free form
- Up to 2 x scanner heads
- Up to 2 x fixed optics
- Up to three laser sources in one machine

OPTIONAL

- Fully automatic handling (Production)
- Semi-automatic handling (R&D)
- MES interface
- Integrated process metrology
- Import of CAD files (e.g. DXF, DWG)
- Vision system

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