

FEMTA LCS-100E LASER CLEANING SYSTEM

Laser source parameters:

Wavelength: 1064 nm (+/- 4 nm)
Spectrum width (FWHM): <4 nm (+/- 1 nm)
Average output power: 100 W
Power stability: $\pm 2\%$
Variable repetition rate: 1 – 8000 kHz, step: 1 kHz
Pulse duration (adjustable): 10 - 500 ns, step: 1 ns
Start-up time: <1 min



FEMTA LCS-100E

Laser gun specifications:

Maximal scanning dimensions at focal plane: up to 170 mm x 170 mm, variable in 1 mm steps
Focus length (recommended): 100/160/210/254/330 mm
Maximal scanning speed (at focus length): 10 m/s
Laser handle dimensions and weight: 250 mm x 100 mm x 80 mm, 1.15 kg
Variable scanning speed: 1-10 m/s, adjustable in 1 mm/s steps
Scanning shapes: line; sinusoid; circle, rectangle.

System parameters:

Fiber cable length: from 5 m (standard), up to 20 m.
Cooling: Air cooled
Operational humidity: 10% - 80%
Operational temperature: from 0 to +40 °C
Storage temperature: from -10 to +60 °C
Power requirements: 230 V / AC 50-60 Hz, <4 A, single phase plug
Dimensions and weight: L-600 mm x D-550 mm x H-420 mm, 51 kg
System operational lifetime: > 90 000 hours.
Laser category: Class 4 laser system
Certificates: CE; PL-D safety validation report;
Manufacturer: FEMTA - Industrial Laser Solutions (Lithuania)

Package includes:

Femta LCS-100E laser cleaning system

System maintenance and safety kit:

- Viewing card for IR radiation: (1 pcs)
- Laser safety glasses: (2 pcs)
- Respirators: (2 pcs)
- Lens cleaning kit (1 pcs)
- Technical documentation and manual

Additional options:

- Portable laser safety curtains, dimensions: 2 x 2 x 2 m, weight: 4 kg.
- Robot arm.
- Distance sensor.
- Door sensor.
- Laser operation external warning light.
- Fumes extraction and filtration unit.

Service and support:

- System operator training.
- Equipment integration into the production line, optimization and calibration services.
- Professional after-sales care - spare parts and technical personnel available.
- Warranty: 24 months.

In-stock systems shipping: 3 business days + 1 week in transit.

Manufacturing time: 4-6 weeks + 1 week in transit.



FEMTA LCS-100E with transportation covers



Additional option: Robot arm mounted system



Additional option: portable laser safety curtains.