

CL 80 SP

Short Pulse Laser

Laser systems

Backpack
 CL 20
 CL 50
CL 80 SP
 CL 150
 CL 300
 CL 500
 CL 1000
 Workstation



- Average power up to 80 W (CW)
- Pulses of < 15ns
- Solid-state, 1064nm
- Industrial design
- Fiber coupled (option)
- Dust-tight optics
- Changeable objectives
- Ablation software Scan2D
- Laser class 4 (optional housing reduces laser to class 1)

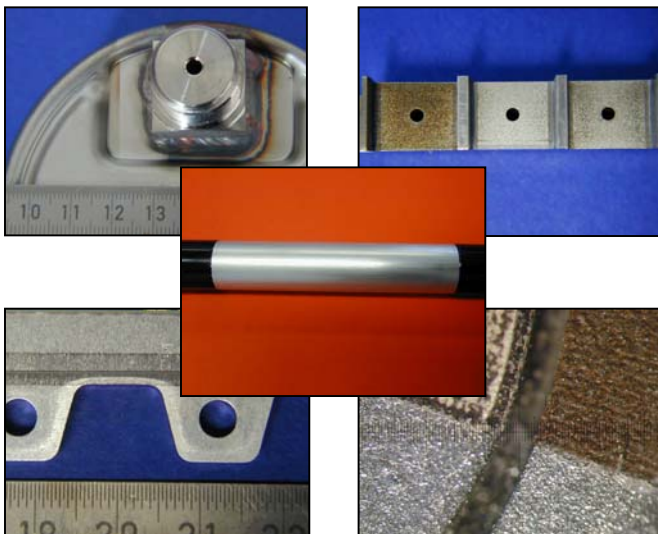
Optics



- 1D-optic OSA 20 for in-line integration
- 2D-optics „Stamp Series“ enable fast and highly precise processing



Examples for semi- and full automatic processing



- Partial structuring
- Pre-treatment for adhesive bonding processes
- Treatment of complex 2D-profiles
- Highly precise paint removal from metallic surfaces
- Pre- and post-treatment (welding seam)
- Selective de-coating
- Automated processes
- Highly reproducible

Technical Data

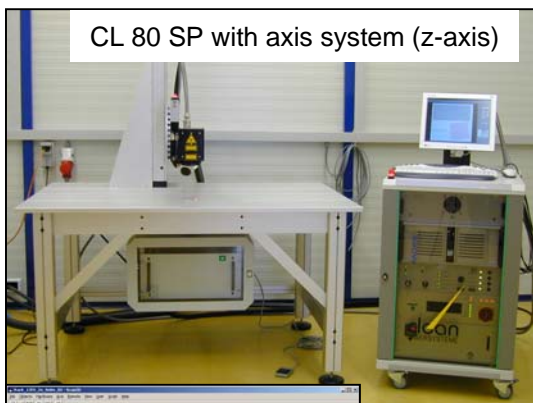
Overview

Laser systems:

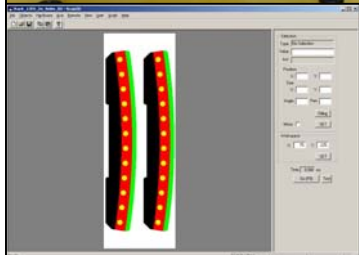
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Matching Optics:

OSA 20
 Stylus
 Stamp



CL 80 SP with axis system (z-axis)



Graphic user interface Scan2D

Standard system features :

CL Short Pulse Workstation

- ▶ Cooling system water-water
- ▶ 2D –Laser optics
- ▶ PC based user interface (Scan2D Software)

Options:

- ▶ Different focusing optics
- ▶ Control of up to 4 axes
- ▶ Optical „z-axis“ (focus adjustment)
- ▶ Z-axis adjustment
- ▶ On the fly option

The CL 80 SP is the short pulse laser of Clean Lasersysteme GmbH. Due to his short pulses the laser opens special application fields that normally not can served by Nd:YAG lasers. Like all products of Clean Lasersysteme the CL 80 SP is designed for industrial processes in serial production. The short pulses offer a high intensity with very short interaction time. Thus very sensitive base material can be treated.

The CL 80 SP is a product that benefits from the technology of the mobile base systems as well as the graphic user interface for 2D-applications. The CL 80 SP system can be used as a mobile 1D cleaning laser, as a mobile 2D laser or as a stationary 2D laser. Due to it's modular configuration, the CL 80 SP can be customized to customer's needs regarding performance, automation level and application. By using a protective cabin, the system can be designed as laser class 1 product as well.



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CL 80 SP	Technical Data
Running cost per hour	3 Euro
Size (d x w x h) [mm³]	Depends on Application
Weight (approx.) [kg]	Depends on Application
Cooling system	Air / Water
Specified power of the beam source [W]	80
Wavelength [nm]	1064
Pulse wigth [ns]	< 15 ns
Repetition rate [kHz]	100

Subject to technical changes