

# CL Workstation

## Laser for precise surface treatment

Lasersysteme

Backpack

CL 20

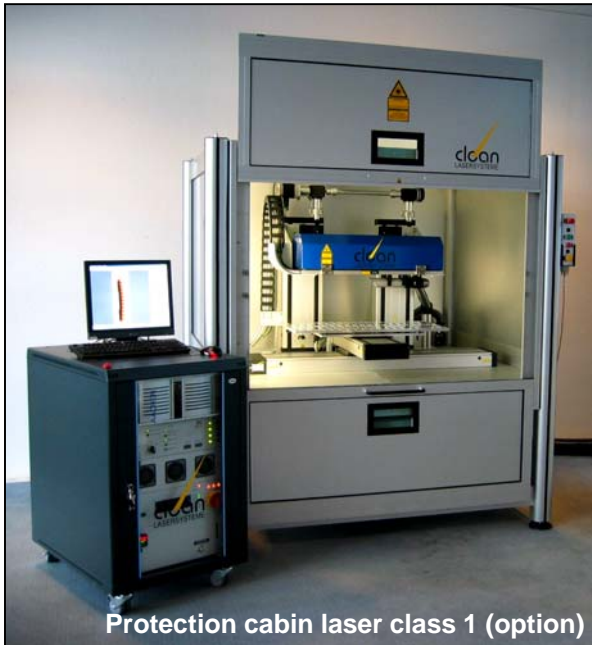
CL 150

CL 300

CL 500

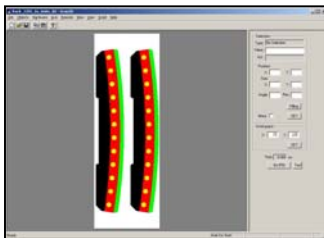
CL 1000

Workstation



- Average power up to **300 W (CW)**
- Solid-state, 1064nm or ultra compact CO<sub>2</sub>-Laser, 10,6µm
- Dust-tight optics
- Changeable objectives
- Ablation software Scan2D
- Laser class 4 (optional housing reduces laser to class 1)

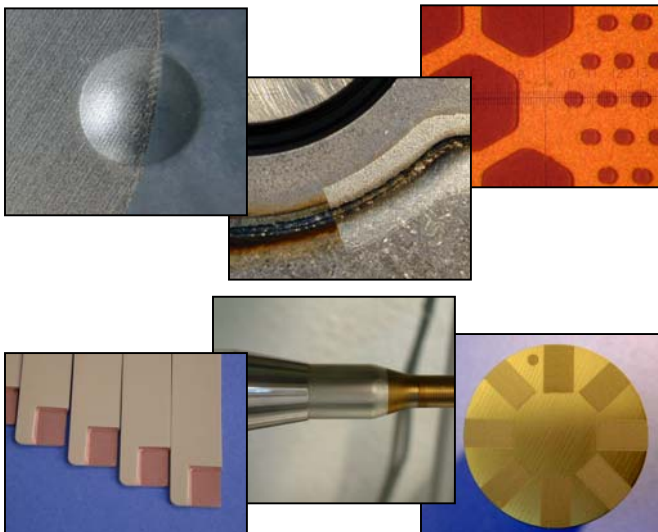
## Optics/Graphic user interface



- Graphic user interface Scan2D
- 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:

Backpack  
CL 20  
CL 150  
CL 300  
CL 500  
CL 1000

### Workstation

### Matching

### Basic systems:

CL 20  
CL 150  
CL 300



CL 150 WS with axis system (z-axis)

### Standard system features :

#### CL Workstation

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

#### Options:

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

The workstation is designed for industrial surface treatment processes in serial production. The 2D-optics deflect the laser beam in x- and y-directions to a work area on the surface of the target part. User defined geometries (for example circles, rectangles or tracks) can be treated very precisely in these areas.

The workstation is a product that benefits from the technology of the mobile base systems as well as graphic user interface for 2D-applications. The CL 20, CL 150 und CL 300 systems can be used as the base system. Due to it's modular configuration, the workstation can be customized to the customer's needs regarding performance, automation level and application. By using a protective cabin, the system can also be designed as laser class 1 product.



CL Workstation	Technical Data
Running cost per hour	2-5 Euro (depends on basic system)
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]	120
Wavelength [nm]	1064
Power supply (German vision)	3 x 16A
Maximal power consumption [kWh]	7,5
Minimum / Maximum ambient temperature [°C]	10 / 36
Humidity [%]	< 90, not condense
Laser class	4

Subject to technical changes