CL 1000iF *stationary*

POWERFUL AND EFFICIENT 1000-WATT INDUSTRIAL LASER

- Laser sources made by IPG Photonics in Germany
- Turnkey system with a highly dynamic 2D scanner
- Standard focus distance of several hundred millimeters for minimal interference patterns
- High feed rates of up to 30 m/s, allowing surface rates of up to 120 cm²/s, depending on the application
- Stationary option in a robust industrial housing available
- Effortless integration into automation technology thanks to fiber-optic cables and interfaces



Laser system CL 1000iF *stationary* for industrial applications

„When power and speed matters, the CL1000iF is the perfect choice“

Switch on and get started – the CL 1000iF *stationary* is optimally preconfigured for the required application. Its homogeneous top-hat beam quality ensures uniform material removal and surface treatment, whilst the highly dynamic scanner with a large working area is suitable for both wide and narrow lines.

The combination of high peak intensity and optimized beam quality enables a robust operating range of several millimeters around the target distance. This allows for reliable operation without the need for tracking or adjusting the focus position.

The modern HMI control system with integrated remote diagnostics ensures intuitive operation and supports software functions such as on-the-fly processing or optional contourSCAN technology. Thanks to its fieldbus interface, the system can be easily integrated into industrial environments.

Additionally, interfaces for emergency stop, interlock and industrial suction equipment extraction units are available. The internally water-cooled design ensures reliable operation. Thanks to the high socket efficiency, very little waste heat from the auxiliary cooling unit is released into the plant environment or the building’s cooling system.

APPLICATION EXAMPLES

- Pre-treatment for many joining processes, such as welding, soldering, bonding and coating
- Post-treatment of weld seams and soldering flux for subsequent processes such as coating
- Cleaning surfaces with highly efficient processing speed
- Paint removal, efficient and cost-effective also for high layer thicknesses (>80 µm)
- Damage-free processing of galvanized steel
- Mold cleaning

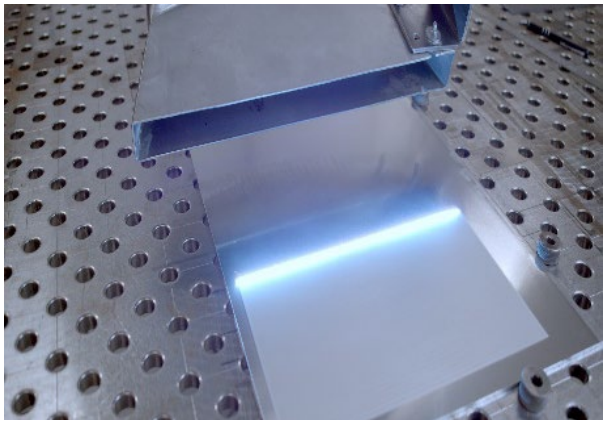
AUTOMATED – RELIABLE – VERSATILE

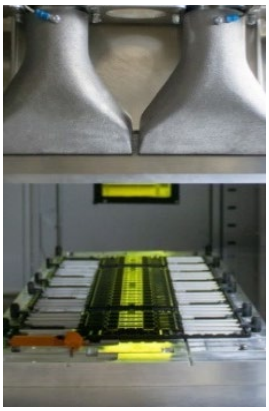


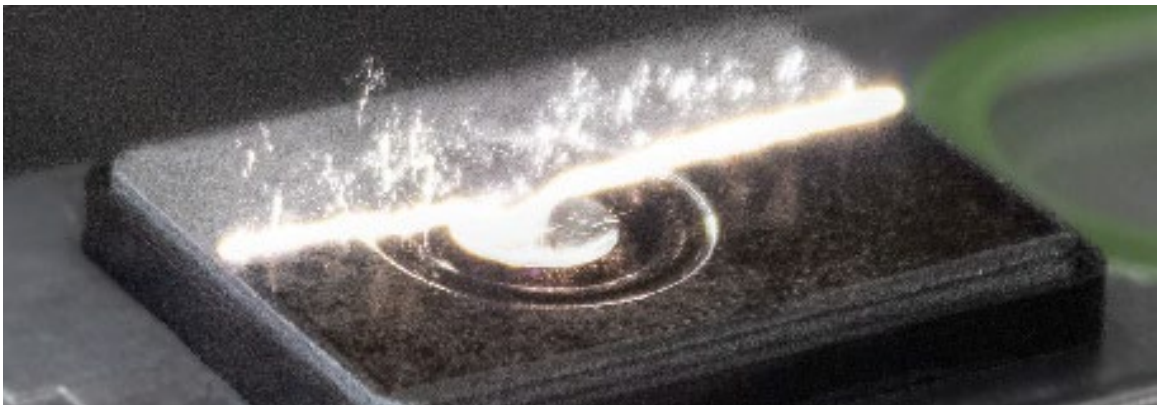
stationary Version with 2D optics and cooling unit



- Low total operating costs (2,5 €/h)
- Almost maintenance-free thanks to passive water cooling
- Available with various optics; most popular with 2D high-performance scanner
- The laser system is qualified for use in the automotive industry and is frequently implemented for surface preparation in the field of e-mobility, for example







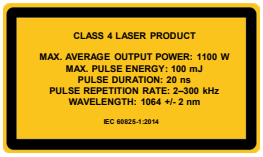
Application examples

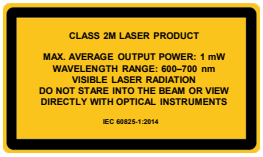
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