cleanULTRA – CL 100iU *stationary*

ULTRASHORT PULSE LASER
ULTRA-PRECISE AND ULTRA-FAST

- **Very gentle cleaning or surface modification due to minimal heat impact**
- **For highly heat-sensitive materials such as glass, plastics/polymer, PCB, PP**
- **High-quality fiber laser beam sources made by IPG Photonics in Germany**

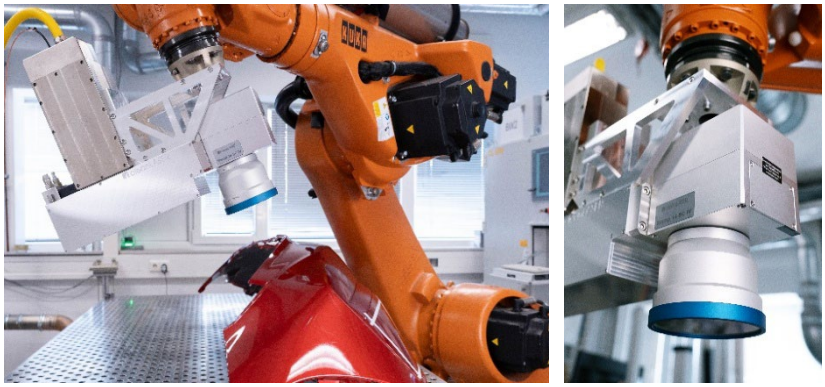


Switch cabinet CL 100iU *stationary* with optics

„Exceptionally gentle and rapid processing of plastics or transparent materials!“

The ultrashort-pulse laser generates extremely short pulses with an average power of up to 100 watts and very high pulse peak performances. The Gaussian beam profile enables excellent beam focusing and the highest level of processing precision.

Beam transmission via optical fiber allows a laser system to be flexibly and easily integrated into existing production lines and automation systems such as cleanCELL.



Application example

APPLICATION EXAMPLES

Adhesive bonding and coating pre-treatment of non-metallic components (e.g. plastics)

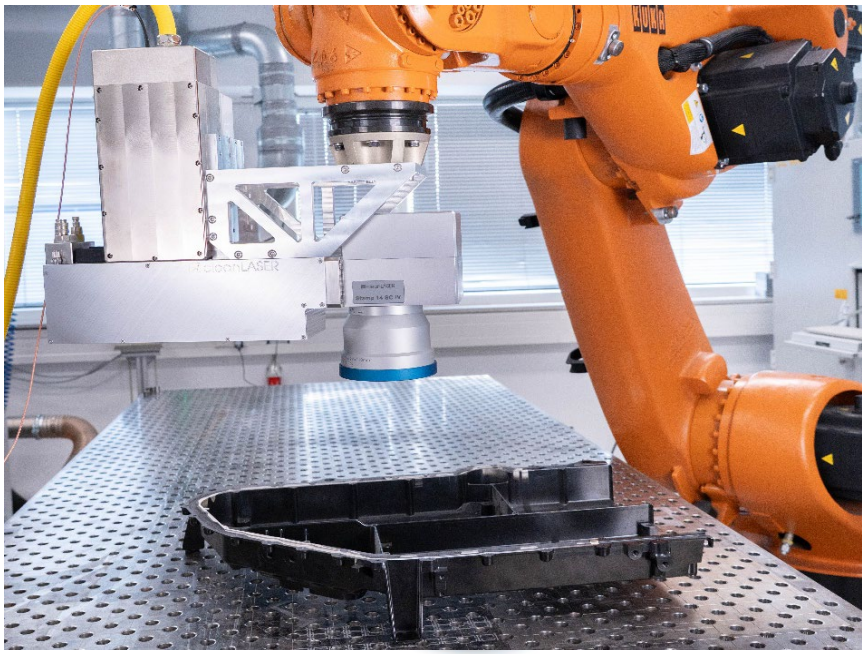
Selective removal of thin layers such as paint and functional coatings

Removal of PVD coatings from glass surfaces

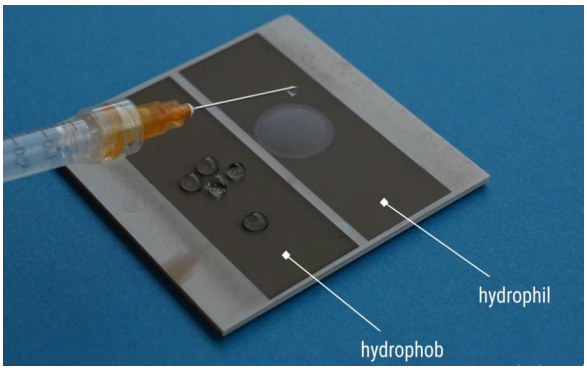
Selective removal and activation, e.g. of copper for contacting

Structuring / functionalization of
- PEEK (medical applications)
- Epoxy resin (printed circuit boards and ICs)
- PP (food and automotive industries)
- Dielectrics (optical devices)
- Cathodic dip coating (batteries)

cleanULTRA – the innovative and versatile ultrashort-pulse laser



Application example



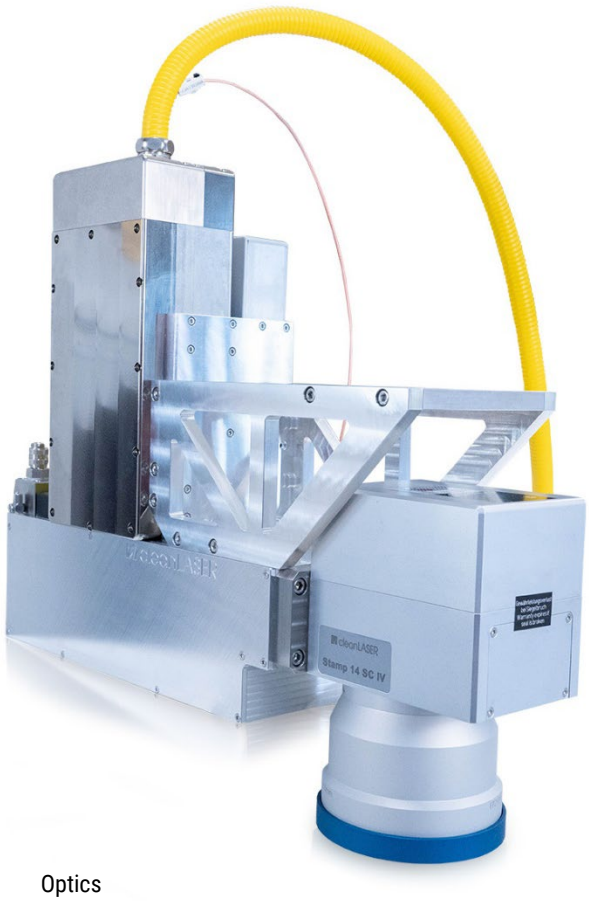


Treated samples with superhydrophobic attributes

Using non-linear absorption effects even transparent and non-absorbent materials such as glass or transparent plastics can be processed with a high degree of precision.

Further features:

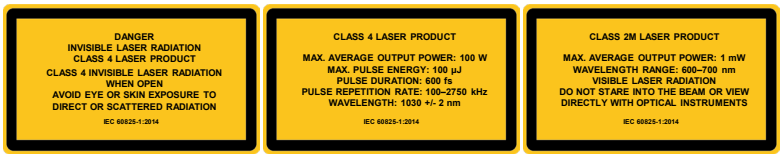
- 2D scanner with highest efficiency and precision
- Upgradeable to 3D scanning technology for processing non-uniform surfaces
- Robot interface possible
- Lower-cost version with reduced laser power also available



Optics

GLOBAL SERVICE FOR CUSTOMERS – LOCALLY AVAILABLE:

Around 30 IPG branches worldwide and over 10 cleanLASER service partners



© 10-2026-01 Subject to technical changes.

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