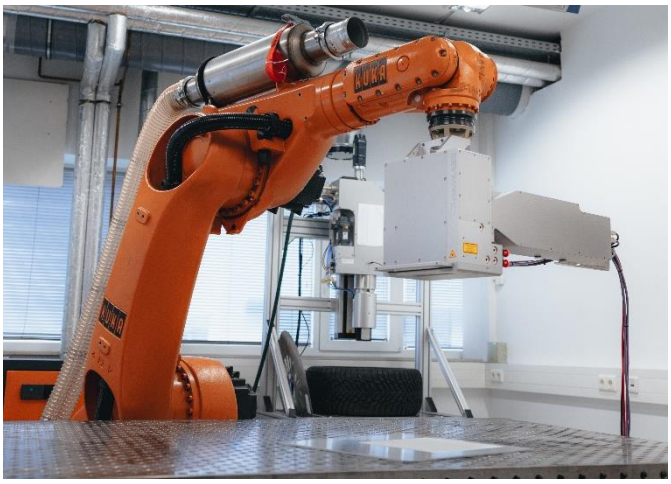
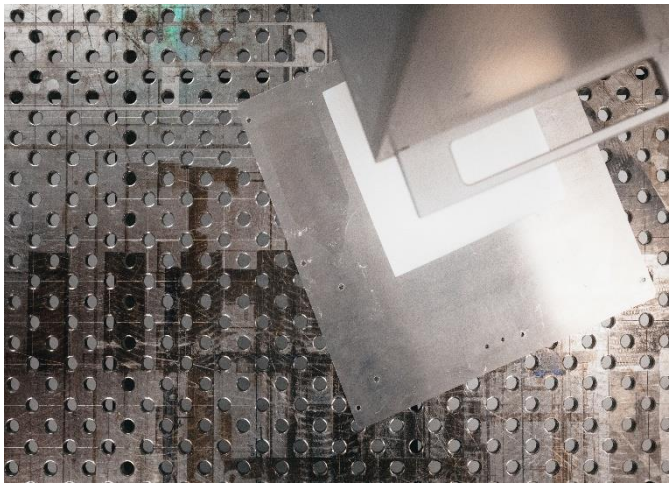
warpSCAN - rotary scanning of pulsed lasers with outer space speed





The new generation of laser optics

- Combination with burst laser source for high utilization rate of average power
- Disadvantage of lower duty cycle is compensated by boosting the average power during a short burst period over the nominal average power
- Higher frequencies with same pulse energy
- 1,5MHz@2mJ - 8MHz@0,375mJ
- IPG's new boost Laser sources with 2 kW average Power and up to 3 kW peak power fit to the new scanning technology
- No performance loss while switching the beam off at the facette margins

Substrates does not show bending or other thermal stress/impact effects

Price performance ratio ns-pulsed laser sources vs. cw-lasers: Factor 4-6!

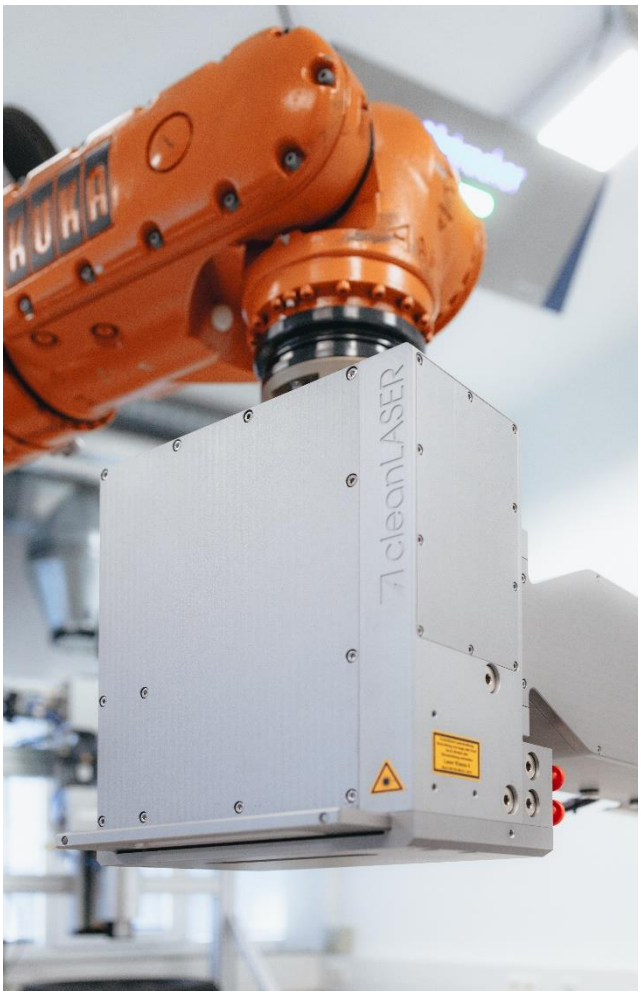


Summary

- High speed degreasing with up to 300 cm^2/s
- RFU mesurement before and after cleaning
- CW and pulsed laser comparison with similar fluence
- Rotation instead of oscillation

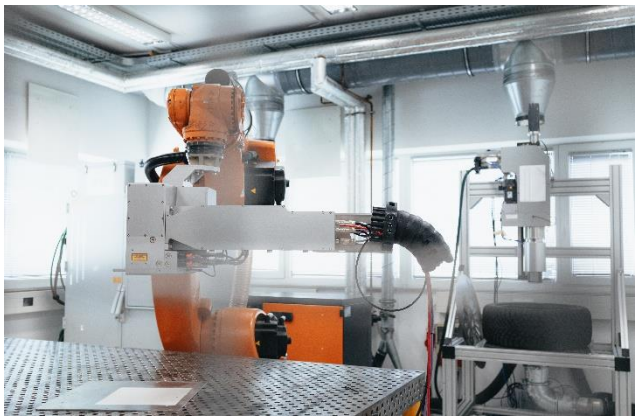
Ultra high speed scanner optics for cleaning applications


Protective glass cover: easy to open



APPLICATION EXAMPLES

- Aluminium oxide
- Aluminium with oil film
- Alumnium with graphite layer / adhesive
- bonding preparation
- Steel with KTL (dip coat), layer (black coating) or grey powder coating
- paintShop primer on steel



05.2025 Subject to technical changes

PLEASE CONTACT US – WE ARE HAPPY TO ADVISE

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