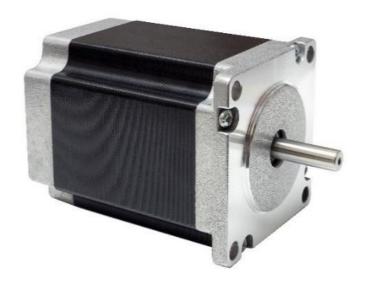


#### **BONDING PRE-TREATMENT FOR SERVOMOTORS**



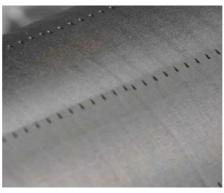


#### **APPLICATION**

- Bonding pre-treatment of shafts and sheet metal stacks for rotor production
- Pre-treatment of magnets for bonding as an option
- For synchronous and asynchronous three-phase and servo motors
- Long-term stable adhesion through surface modification
- Surface tensions:
   σ > 38 mN/m
- Increase of demolition values
- Alternative or complementary to conventional blasting and washing processes



Laser processing rotor



Laser treated rotor surface

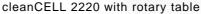
## LASERSYSTEM AND - PROCESS

- Even with Low Power Systems efficient and economical
- Processing: up to 5 cm<sup>2</sup>/s with CL 50
- Faster processing times due to higher laser power
- Process-oriented suction technology
- Optionally: Process monitoring and component control
- Own laser production and application expertise
- Process qualification up to the serial production

# COMPACT TURNKEY SOLUTION FOR YOUR WHEELS & CASTORS PRODUCTION

- Machine type: cleanCELL 2220
- · ESD compliant design
- Footprint (W x L):
   1.722 mm x 2.847 mm
- Weight: approx. 1.200 kg
- 2-station rotary table with automatic clamping system
- Workpiece spectrum:
   Loading height up to 445 mm
   Diameter up to 260 mm
- · Automatic diameter check
- · Loading height check
- Camera system for process visualization and documentation
- High technical availability (> 98,5%)
- Designed for 24/7 operation
- Customer-specific adaptations possible







Right: Mandrel with rolls Left: Laser optics with 90° positioning

### COST-BENEFIT: ECONOMIC EFFICIENCY

- Running costs: cleanCELL 2220 incl. suction
   7,00 €/h
- Costs per unit:
  Rim d=100 mm, b=30 mm
  Laser CL 500G (500 Watt)
  3-shift operation
  ~ 0,10 €/piece

PLEASE CONTACT US - WE ARE HAPPY TO ADVISE!

