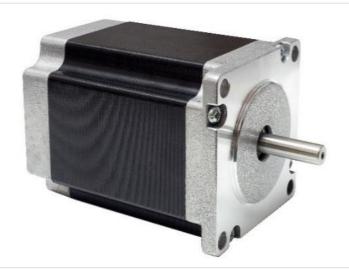


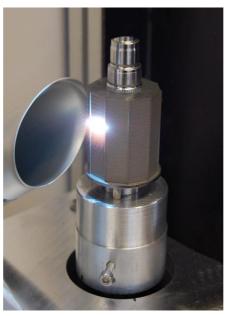
BONDING PRETREATMENT FOR SERVOMOTORS



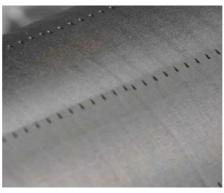


APPLICATION

- Bonding pretreatment of shafts and sheet metal stacks for rotor production
- Pretreatment 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 cm²/s with CL50
- 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 SERVO MOTOR PRODUCTION

- Machine type: cleanCELL1170
- · ESD compliant design
- Footprint (W x L): 1.114 mm x 1.790 mm
- · Weight: approx. 900 kg
- Variable clamping device:
 Processing height < 680 mm
 Rotor diameter < 150 mm
- Hand scanner for workpiece identification
- Sensor based position detection
- Automatic diameter check
- Camera system for process visualization and documentation
- High technical availability (> 98,5%)
- Designed for 24/7 operation
- Customer-specific adaptations possible



Ergonomic operation



cleanCELL1170 with lifitng door



Variable clamping device

COST-BENEFIT. ECONOMIC EFFICIENCY

- Running costs: cleanCELL1170 incl. Suction
 < 5,00 €/h
- Costs per unit:
 Rotor d=80mm, h=110mm
 Laser CL50 (50 Watt)
 3-shift operation
 ~ 0,12 €/piece



PLEASE CONTACT US - WE ARE HAPPY TO ADVISE!