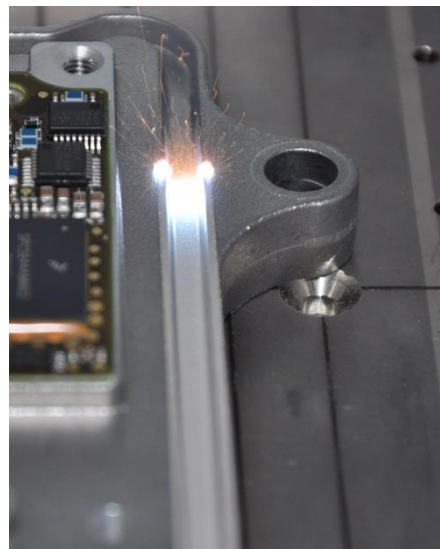


BONDING PRE-TREATMENT OF GEARBOXES AND CONTROL HOUSINGS

APPLICATION

- Substrates: aluminium and die-cast aluminium
- Gentle cleaning and possible structuring of the sealing contour
- Laser parameters adjusted for different sealants (e.g. MS-Polymer a.o)
- Processing of tongue and groove geometries with adjusted optics
- Treatment of milled surfaces and cross-grindings
- Surface tensions:
 $\sigma > 64 \text{ mN/m}$
- Improvement of the corrosion resistance



Groove processing by means of laser ablation and shareMOTION optics



Sealing contour with preserved milled structure after laser treatment

LASER SYSTEM AND PROCESS

- With low power system efficient and economical treatment
- Processing:
up to $6 \text{ cm}^2/\text{s}$ with CL 100
- 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 PRODUCTION OF GEARBOXES AND CONTROL HOUSINGS

- Machine type:
cleanCELL 2220
- ESD compliant design
- Footprint (B x L):
1.620 mm x 3.290 mm
- Weight:
approx. 1.400 kg
- Laser class 1
- Reduce cycle time by
2-drawer-based loading
and unloading
- Stand alone and integrated
line-operation possible
- Manual or automated loading
possible
- Camera system for process
visualization and
documentation
- Process monitoring by means
of plasma sensor technology
- Customized suction
technology
- Designed for 24/7 operation
- Customer-specific
adaptations possible



cleanCELL 2220 with double drawer



Processing area incl. customized suction nozzle

COST-BENEFIT: ECONOMIC EFFICIENCY

- **Running costs:**
cleanCELL2220, CL100
incl. suction system
< 6,00 €/h
- **Costs per unit:**
Contour gear box housing
l = 1.570 mm
3-shift operation
~ 0,08 €/piece

PLEASE CONTACT US – WE ARE HAPPY TO ADVISE!

 **cleanLASER**
cleaning with light