

COATING PRE-TREATMENT FOR WHEELS AND CASTORS



APPLICATION

- Coating and painting pre-treatment of wheel rims by laser processing
- For rim substrates of steel, stainless steel, aluminium and cast iron materials
- Residue-free degreasing & targeted roughening of the rim surface
- Surface tensions:
 $\sigma > 38 \text{ mN/m}$
- Increase of demolition values
- Long-term stable adhesion for coatings such as polyurethane, rubber, etc.



Laser treatment of a wheel rim



Left: laser treated
Right: untreated

LASER SYSTEM AND PROCESS

- Efficient and economical treatment with mid power systems
- Processing:
up to $20 \text{ cm}^2/\text{s}$ with CL 500G
- 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 (B x L):
1.722 mm x 2.847 mm
- Weight:
approx. 1.200 kg
- 2-station rotary table with
automatic clamping system
- Workpiece mandrel:
Stacking height up to 300 mm
Diameter up to 350 mm
- Automatic diameter check
- Stacking height check
- Camera system for process
visualization and documentation
- High technical availability
> 98,5%
- Designed for 24/7 operation
- Customer-specific adaptations
possible



cleanCELL 2220 with rotary table



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

COST-BENEFIT: ECONOMIC EFFICIENCY

- Running costs:
cleanCELL 2220 incl.
suction system
< 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!

