

Laser Cladding Services

Advanced Laser Cladding Technology by Deloro

A 5 kW diode laser, combined with a robotic system and a rotary tilt table, provides the ideal conditions for delivering cost-effective, high-quality coating solutions, even for complex components. Deloro supplies wear-protected, ready-to-install components, including buying or primary forming, pre-machining, post-machining, and manufacturing of complete subassemblies – all from a one stop supplier.

Cladding
of inner
geometries
possible!



Component Dimensions

- ✓ Component length up to 2 meter
- ✓ Diameter up to 1 meter
- ✓ Weight up to 1.5 tons



Cladding of Inner Geometries

- ✓ Minimum internal diameter: Ø 85 mm
- ✓ Maximum bore depth: 445 mm

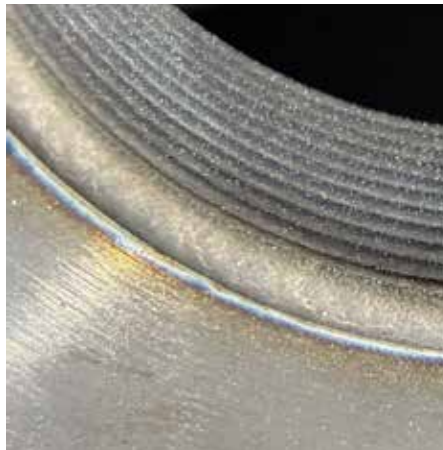


Individual dimensions

Maximum component dimensions may vary. Please contact us to discuss your specific requirements.



Raw layer thicknesses can be produced with tolerances of a **tenth-of-a-millimeter** range.



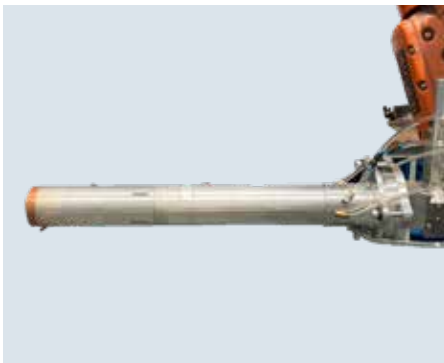
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Optic for welding inner geometries



Laser Cladding capabilities at Deloro

- ✓ Wide range of available coating materials in Laser Cladding
- ✓ Laser Powder Cladding
- ✓ Coating thicknesses from 0.5 mm to several millimetres
- ✓ Metallurgically bonded coatings
- ✓ Fully mechanized processing
- ✓ Automatic laser power control
- ✓ Multi-pass processing to minimize dilution
- ✓ Twin powder feeder system for blended powder applications like Metal Matrix Composites

Benefits of Laser Cladding

- Low heat input
- Low dilution
- Minimal distortion
- Near-net-shape coating
- Reduced machining effort
- High process reliability
- High deposition speed
- Welding dept. in constant dialog with materials development and application specialists
- 360° expertise in wear protection



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