

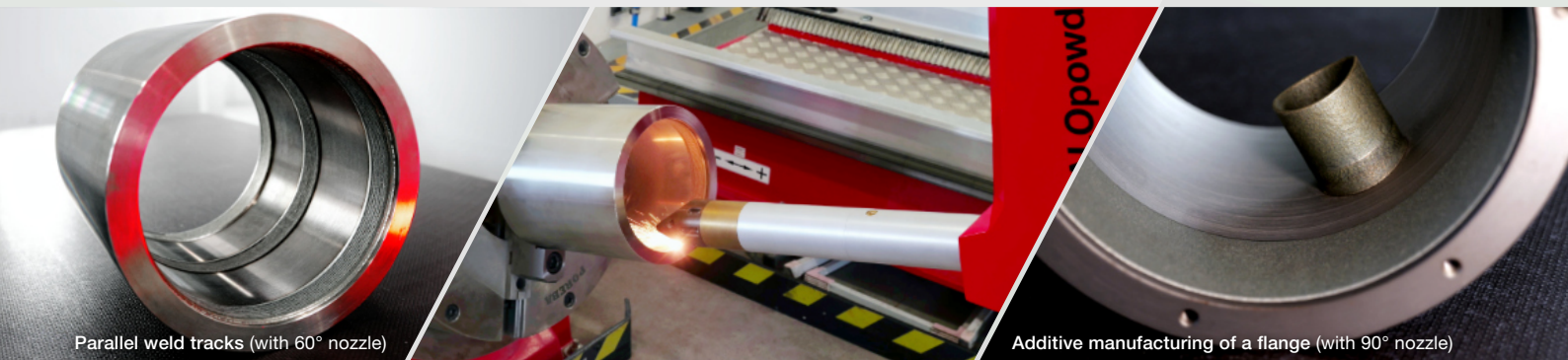
ALOpowder^{ID}

Repairing and coating internal surfaces

Internal coating optics ALOpowder^{ID} for laser cladding

Our new internal coating optics for laser cladding with powder are particularly suitable for repairing and coating internal diameters, internal surfaces, blind holes, pipes and cylinders as well as components that are difficult to access.

A special feature is the 60° angled coating nozzle. This means that blind holes can also be processed right to the end. Additive manufacturing is possible with a nozzle set at 90°.



Parallel weld tracks (with 60° nozzle)

Additive manufacturing of a flange (with 90° nozzle)

Applications:

- Coating or repairing internal surfaces
- Repair of worn contours or design changes to production defects
- Coating for corrosion or wear protection
- For the automotive, machine and tool construction, oil and gas industry, shipbuilding and offshore industry

Technical data:

- Efficient cooling for high laser powers up to 8 kW
- Immersion depth: up to 450 mm / can be extended to 1000 mm
- Diameter: for openings from Ø 70 mm
- Track widths: from 4 to 7 mm
- Integrated sensors for thermal monitoring and control