



Pioneering industrial innovation
with laser cladding, APS
and HVOF excellence.

Taller

6 OCT 2023 – 5 OCT 2025

Aportaciones Especiales

- Pioneering industrial innovation with Laser Cladding, APS and HVOF.

More than 50 years of experience providing advanced machining and material deposition solutions.



Passion for Precision

- At Aportaciones Especiales, we carry out all processes inside our own facilities (machining, milling, cladding, and grinding).
- This allows us to guarantee full control, fast turnaround, and the highest quality.

Values: Innovation · Precision · Excellence.



High-Precision CNC Machining

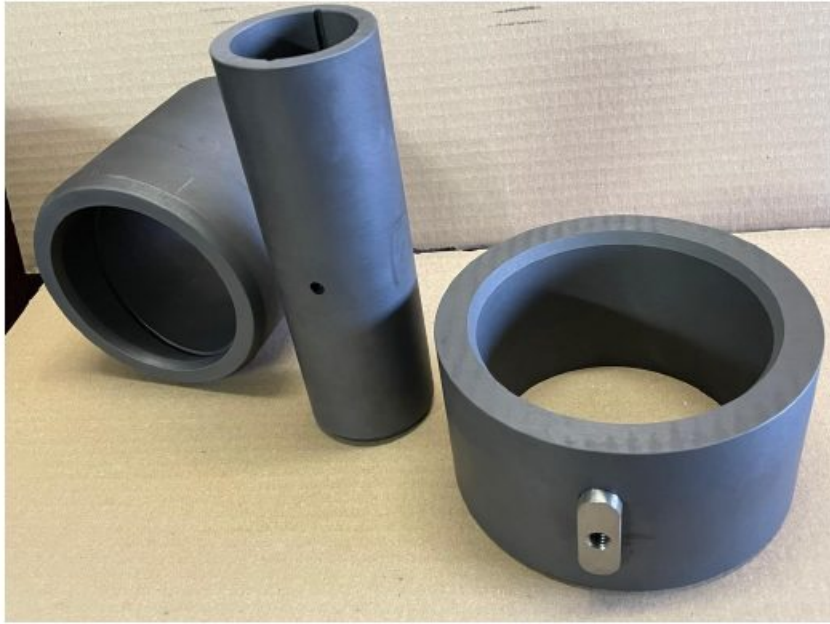
• We have state-of-the-art CNC lathes capable of machining up to $\varnothing 700$ mm and 2 meters in length.

• Key equipment:

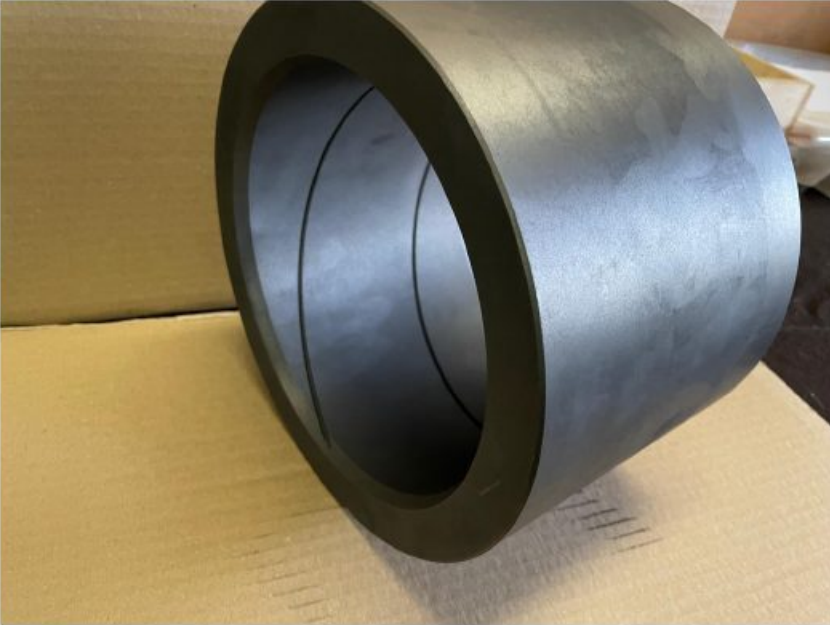
- DMG $\varnothing 500 \times 1200$ mm
- Amutio CNC $\varnothing 600 \times 800$ mm
- Puma CNC $\varnothing 700 \times 2000$ mm
- CMZ $\varnothing 500 \times 1350$ mm with Y-axis
- Hyundai CNC $\varnothing 300 \times 800$ mm
- Conventional lathes with 4-jaw chucks $\varnothing 800 \times 3000$ mm

CNC Shaft Machining





Machining of Carbon and Antimony Graphite Components





Machining and Milling of Solid Stellite Components

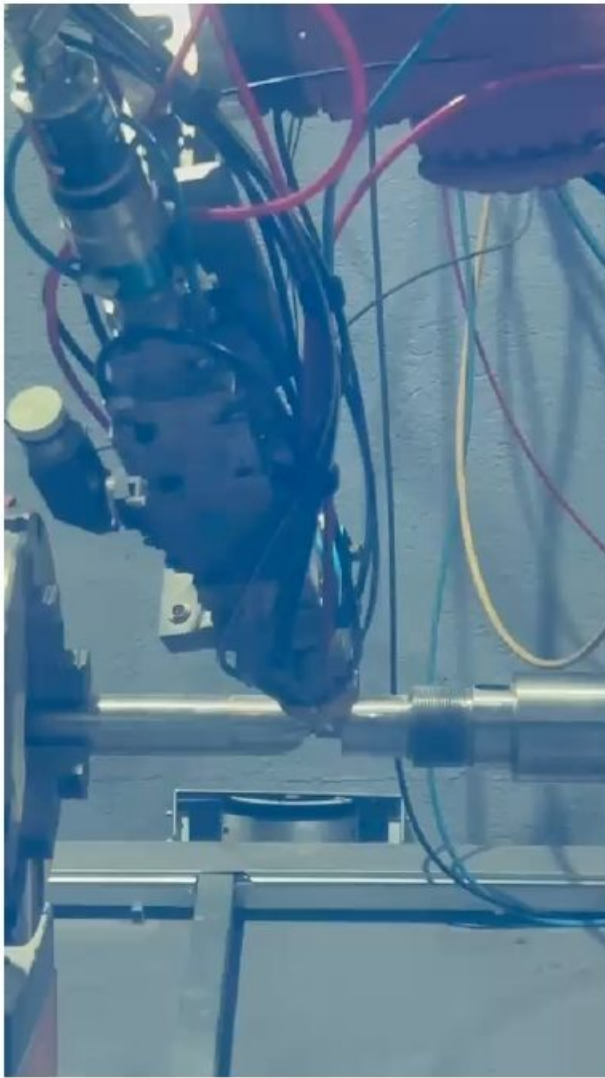


High Precision Grinding

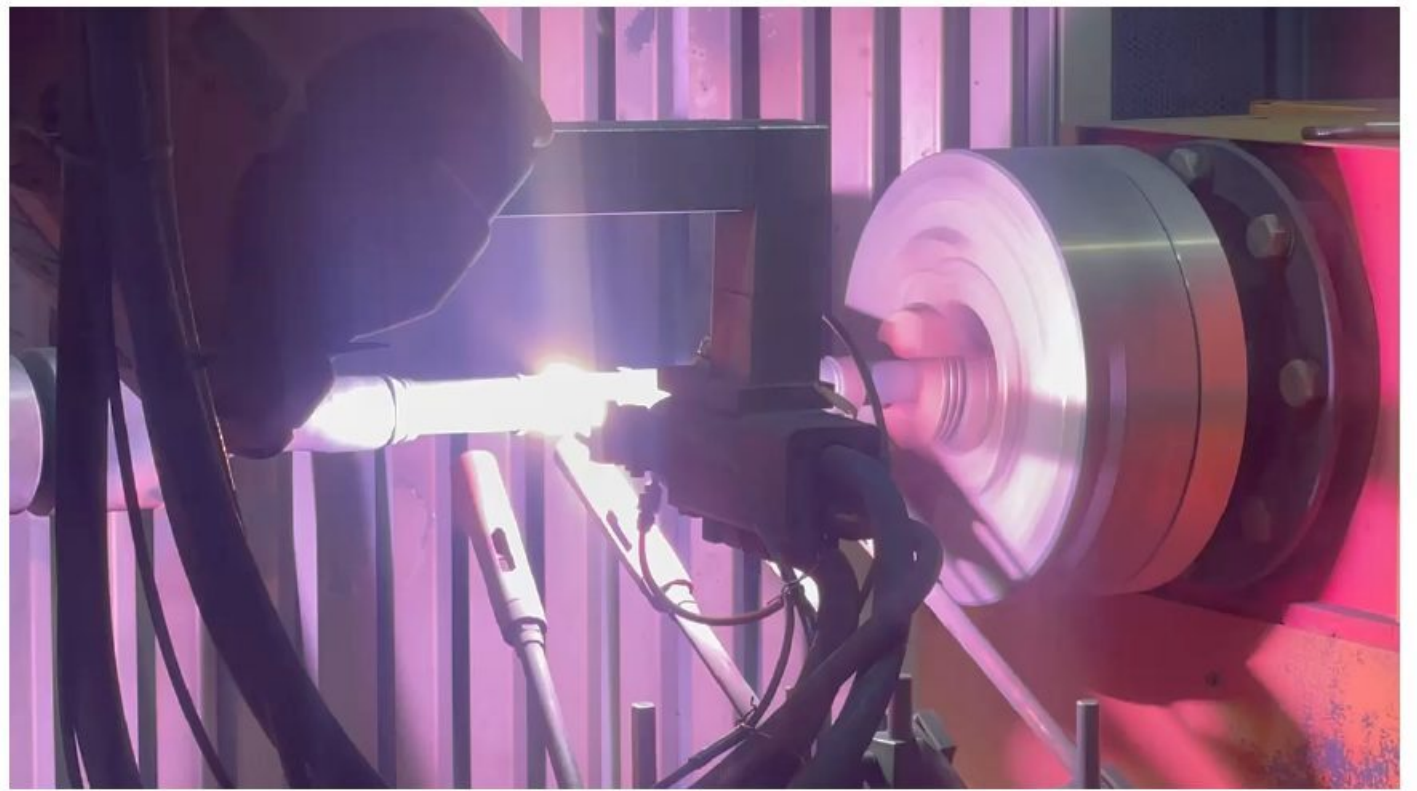
We grind components up to 4,500 mm in length, ensuring precision and an impeccable surface finish.

Equipment:

- GER 4,500 mm
- Jarbe 2.5 m
- Danobat 1,200 mm and 800 mm

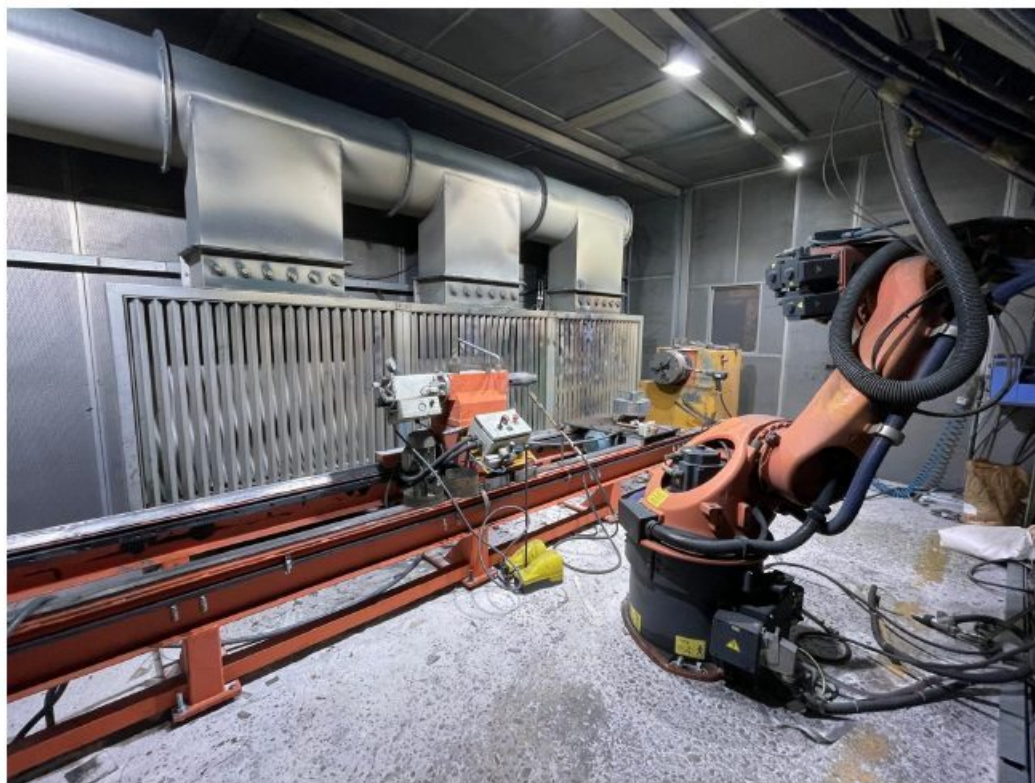


Material Deposition Technologies

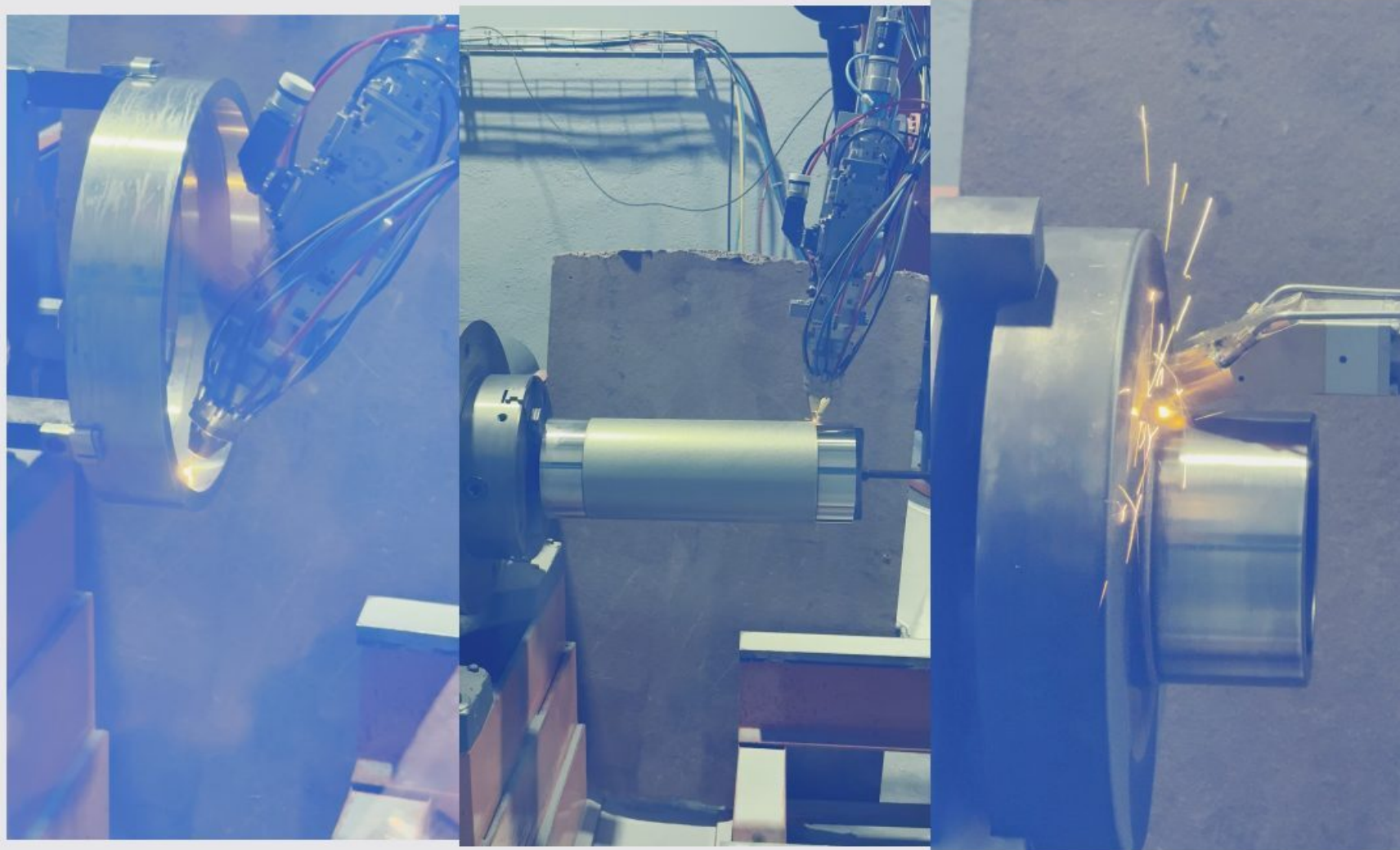


· Specialists in APS, PTA, HVOF, and laser cladding. We apply materials such as Stellite 6, 12, and 1 to protect new parts or repair high-value technical components, as well as chromium oxides, 431HC, Inconel, tungsten carbide, Diamalloy 3007, Ultimate, 42C, Colmonoy, and others.

APS and HVOF Coatings



Laser Cladding



- Our robotic laser cladding cell with a KUKA KR30 allows the application of metallic layers with millimetric precision, enhancing performance and durability.

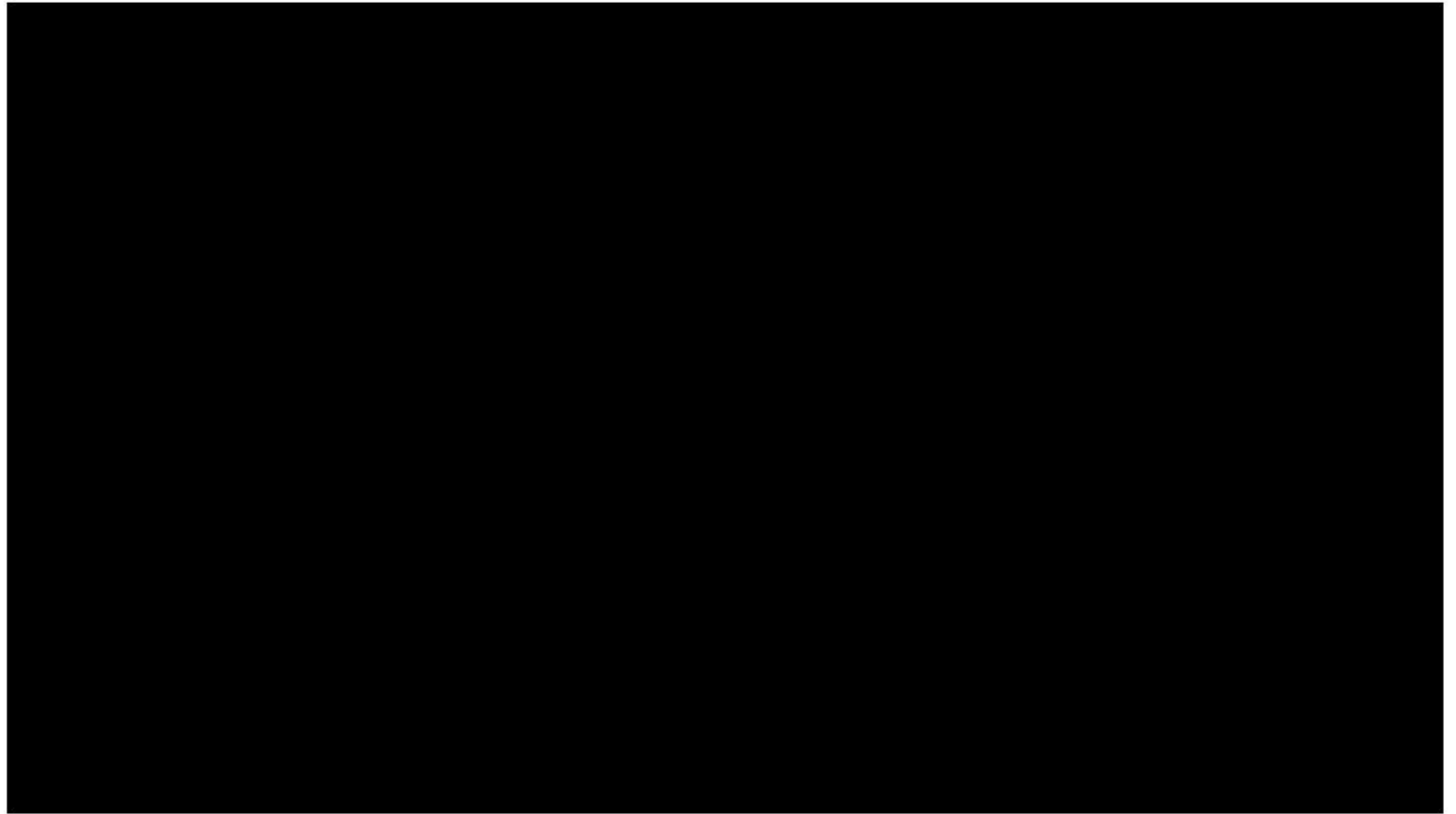
LASER CLADDING DLD

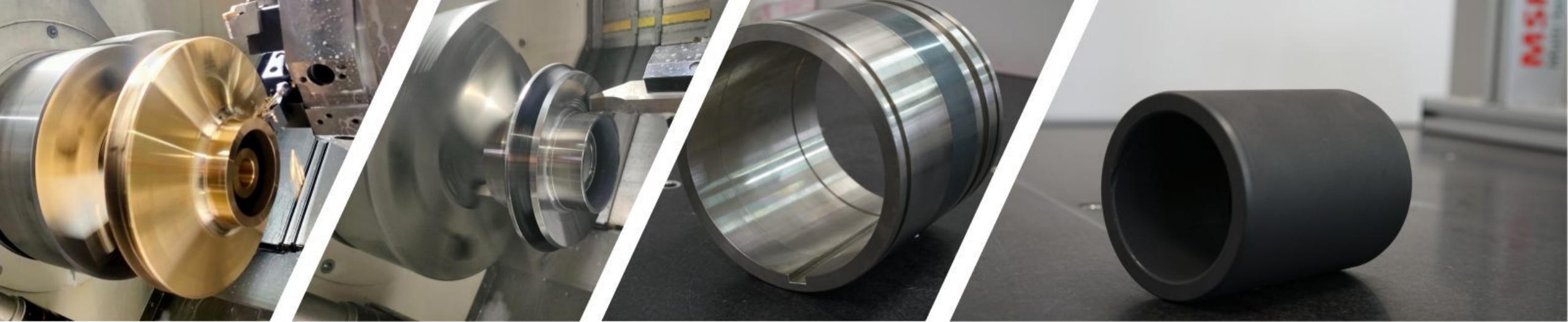


Stellite Welding: Laser Cladding

Quality Control

Part inspection using a Zeiss Contura G2 coordinate measuring machine (CMM).

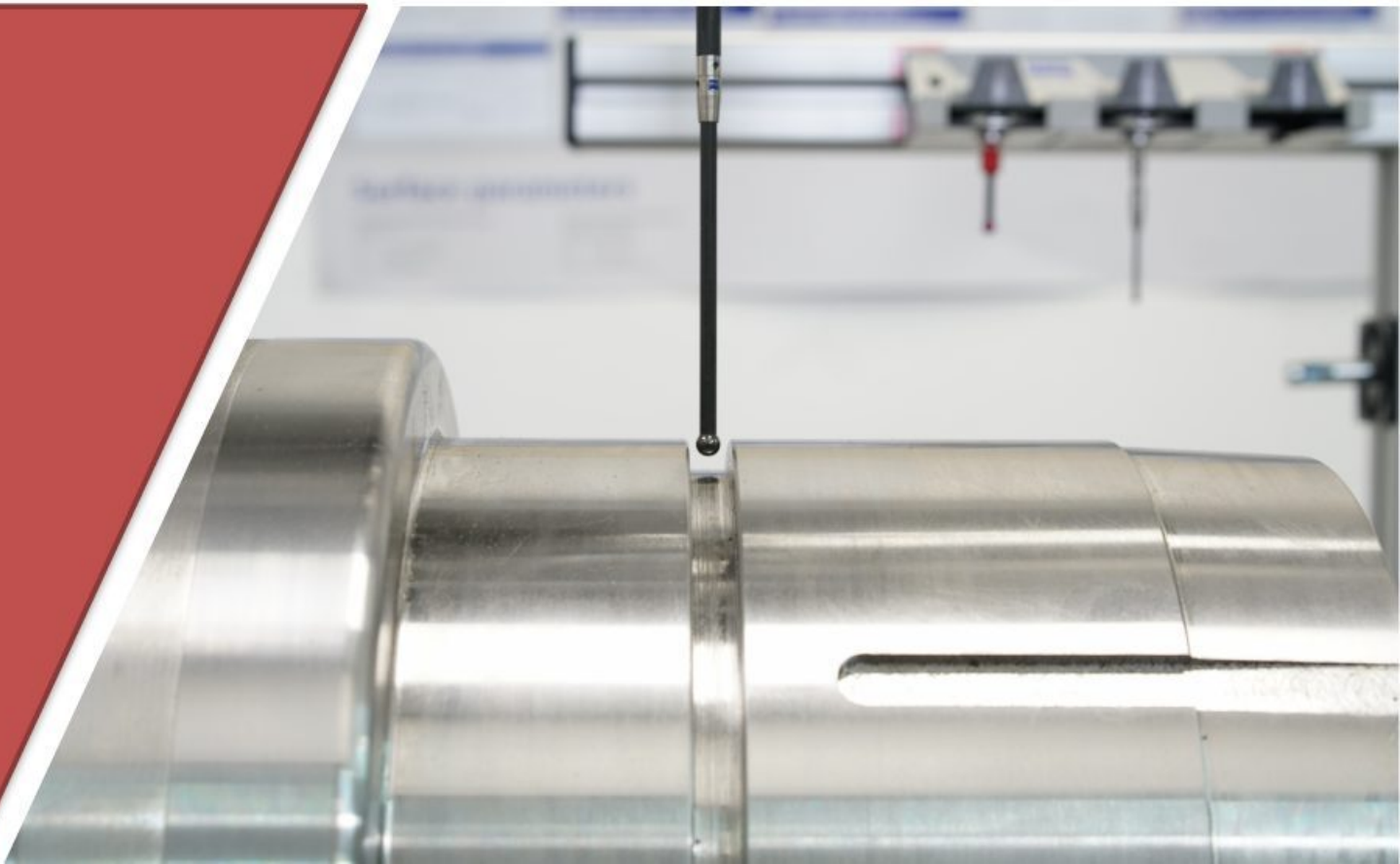




Sectors and Applications

We serve critical industrial sectors such as energy, petrochemical, oil & gas, and industrial processing, providing reliable solutions for equipment operating under extreme conditions of pressure, temperature, and corrosion.

We manufacture and machine custom parts and components using high-performance materials such as super duplex, Inconel, AISI 316, graphite, and stainless steels 410 and 420, ensuring precision, durability, and compliance with the most demanding standards.



•Aportaciones Especiales –
Innovación y Precisión Industrial



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