



The Road for Tomorrow



Who We Are



What We Offer



Resources



Why Us

We are the Main Company of the Sermec Group and our headquarters are located at Oporto city (Portugal).

We have over **60 years of experience** in maintenance and components manufacturing.

Our main customers are companies operating in several areas of activity, such as :



Metallurgical
Industry



Biomass



Wind Industry



Food Industry



Metallic
Constructions



Extraction of
Cement



Refineries,
chemicals
plants



Paper, cellulose
Industry



Rope and
Netting
Industries





Who We Are



What We Offer



Resources



Why Us

WIND POWER®



Services

- *Repair, Maintenance and Refurbishment of Gearboxes;*
- *Drive Train, Main shaft, Bearing Housing repair, Gears Repair and Manufacturer;*
- *Up-tower Repair services:*
 - *Gearbox Oil Changes;*
 - *Remote Visual Inspections;*
 - *Gearbox Exchange;*
 - *Up-Tower Repairs of HSS and ISS*
- *Measurement and Vibrations Analysis;*
- *Generators Repair:*
 - *Shaft Refurbishment;*
 - *Bearings Exchange;*
- *Yaw's Repair;*
- *Repair and manufacturing of mechanical elements;*



Technological Resources

- *Thermography;*
- *Laser Alignments;*
- *Laser Cladding;*
- *Thermal Spray Coating – HVOF*
- *Atmospheric Plasma Technology – PLASMA APT*
- *Borescope Inspection;*
- *Laser Tracker and Scan - FARO*



Human Resources

- *Reverse Engineering;*
- *Multidisciplinary Teams*
- *Highly experienced Technicians and Application Engineers*

Repair, maintenance and refurbishment of gearboxes

EXPERIENCE

Gearboxes Repaired

- **WINERGY PEAS 4280**
- **WINERGY PEAC 4280**
- **WINERGY PEAB 4407**
- **WINERGY PEAS 4285**
- **MOVENTAS PLH-310**
- **MOVENTAS PLH-312**
- **MOVENTAS PLH-1100**
- **MOVENTAS PLH-1400**
- **WINERGY PEAB 4375**
- **WINERGY PEAB 4390**
- **WINERGY PEAB 4395**
- **MOVENTAS PLH-400**
- **MOVENTAS PLH-308**
- **HANSEN EH802**
- **HANSEN EH552**
- **HANSEN EH553**
- **HANSEN EH804**
- **LOHMANN GPV 305**
- **LOHMANN GPV 306**
- **LOHMANN GPV442**
- **LOHMANN GPV 300.3331**
- **BOSCH REXROTH GPV 451S**
- **BOSCH REXROTH GPV 500**
- **BOSCH REXROTH GPV 300S**

Gearboxes for sale

- **WIND POWER TRANSMISSIONS E-1600 - Eco80**
- **WIND POWER TRANSMISSIONS E-1600 - Eco74**





EXPERIENCE

Drive Train, Main Shaft, Bearing Housing Repair, Gears Repair and Manufacturer



Main Components Repaired and Manufactured

Uptower Repair Services

EXPERIENCE



Gearbox Oil Exchange



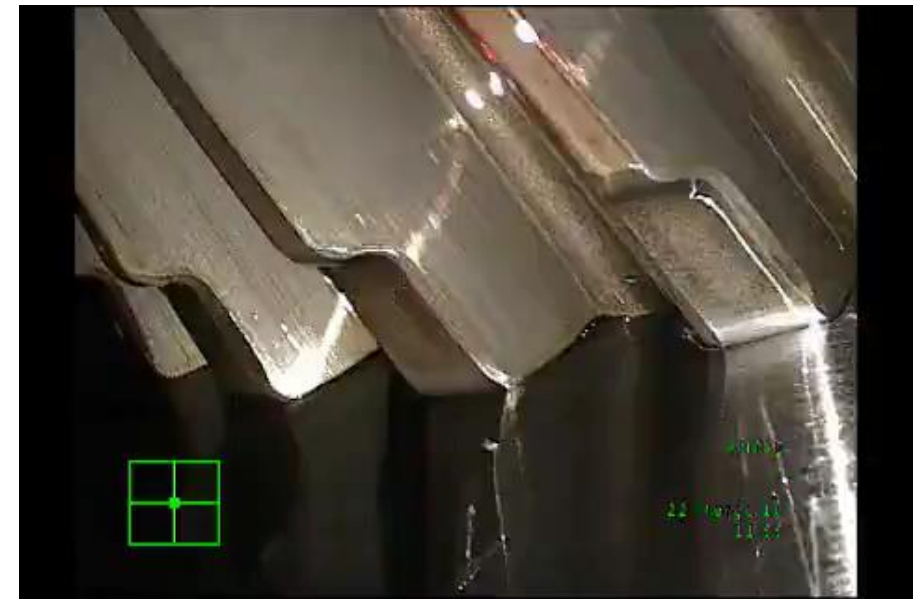
Gearbox Exchange



Up Tower Repair



Remote Visual Inspection

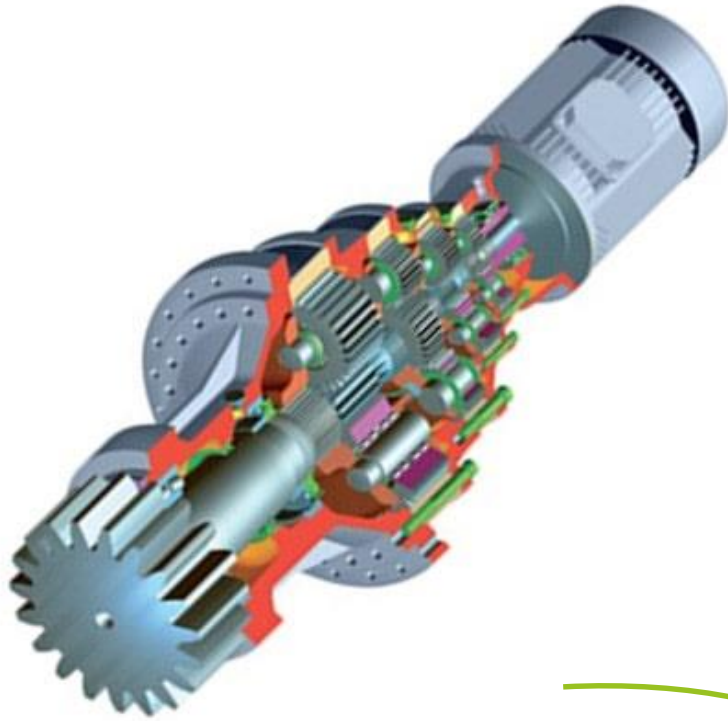


Generators Repair

EXPERIENCE



Yaw's Repair



EXPERIENCE







Services

- *Machining - Lathe and CNC Milling*
- *CNC Grinding*
- *Rectification "in Situ"*
 - *Linear*
 - *Orbital*
- *Welded Construction;*
- *Components and Parts Manufacturing*
 - *Coated with Stellite, Tungsten Carbide, Silicon Carbide, Nickel-Chrome, TIN Ceramics*
- *Dynamic and Statical Balancing*
- *Leak Repair*
- *Cut by various technologies*



Technological Resources

- *TIG - MIG / MAG and Submerged Arc Welding*
- *3, 4 and 5 -Axis Machining Centers*
- *CNC Lathe*
- *Cylindrical and Flat CNC Grinding Machines*
- *Erosion, Wire Cutting and Penetration*
- *Laser, Plasma, Oxyfuel and Water Jet*
- *Blending and Calendering*



Human Resources

- *Collaborators with High Level of Skills and Technical capabilities*

-Machining - Lathe and CNC Milling



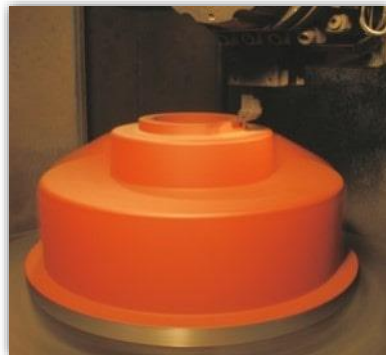
Milling



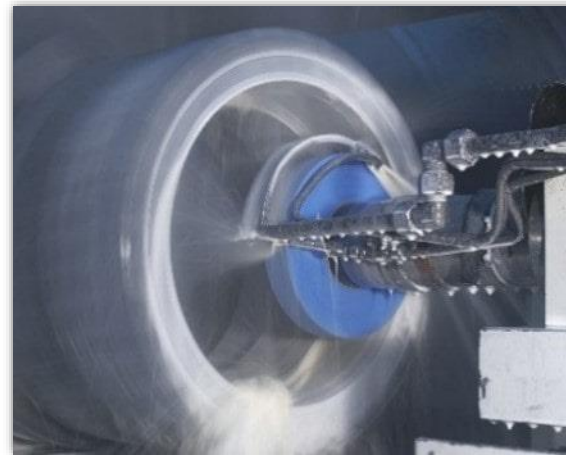
Machining centers



Turning and Boring

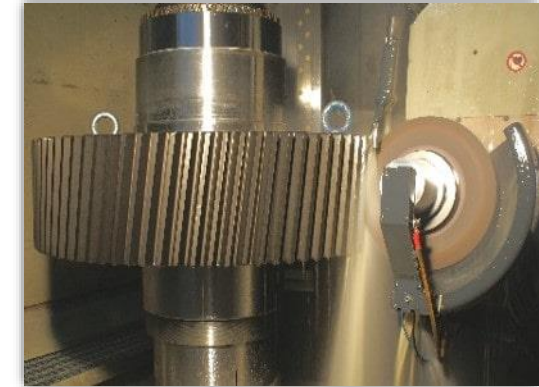


EXPERIENCE



Grinding (Interior)

CNC Grinding

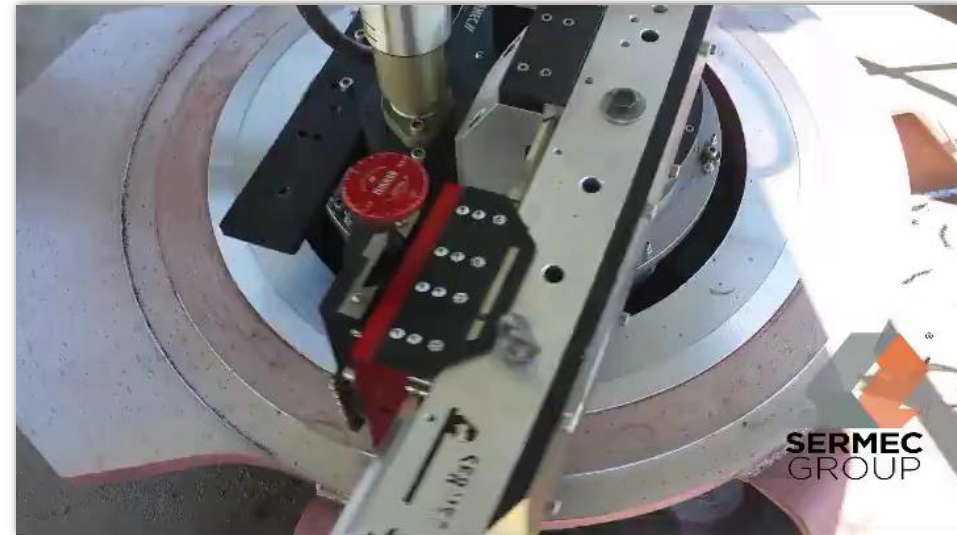


Grinding (gears))



Grinding (Exterior)

Machining “in Situ”



Welded Construction





Shafts



Gears



Couplings



Coatings in Stellite, Carbide
Tungsten and others



Spindles



Pump Gears

EXPERIENCE

**Components and Parts
Manufacturing**



Dynamic and Statical Balancing



Leak Repair



Cut by various technologies





Who We Are



What We Offer



Resources



Why Us



WORLDWIDE STRATEGIC LOCATION

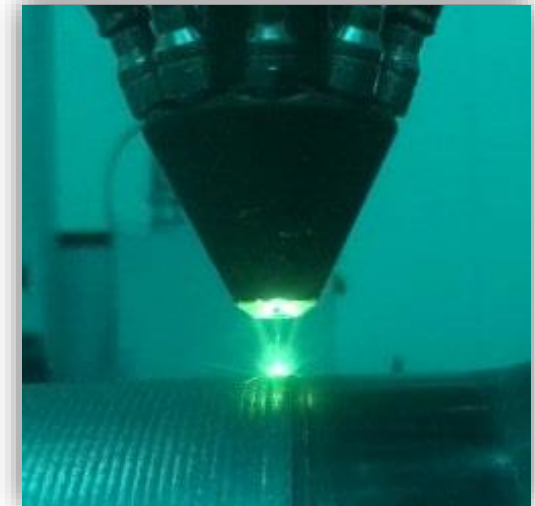
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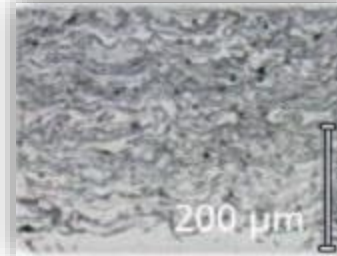
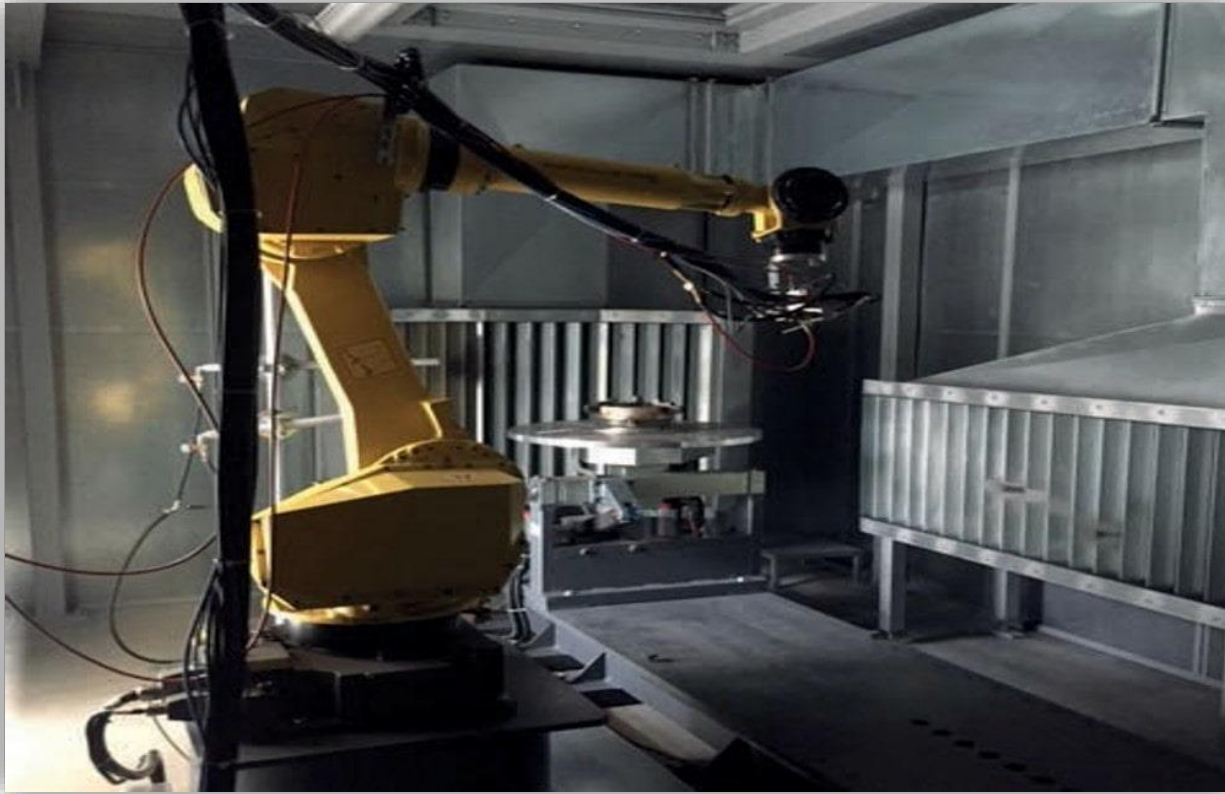


Workshop Facilities Area
Over 10.000 m2

Laser Cladding

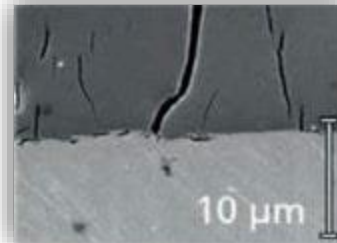


HVOF (High Velocity Oxygen Fuel) and Plasma APT (Atmospheric Plasma Technology)



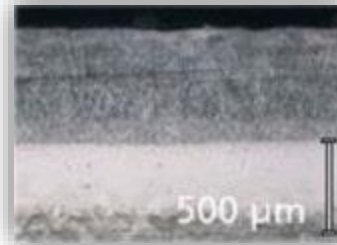
Thermal Spraying

- ❑ Mechanical Bonding



Electroplating

- ❑ Diffusion Bonding



Laser Cladding

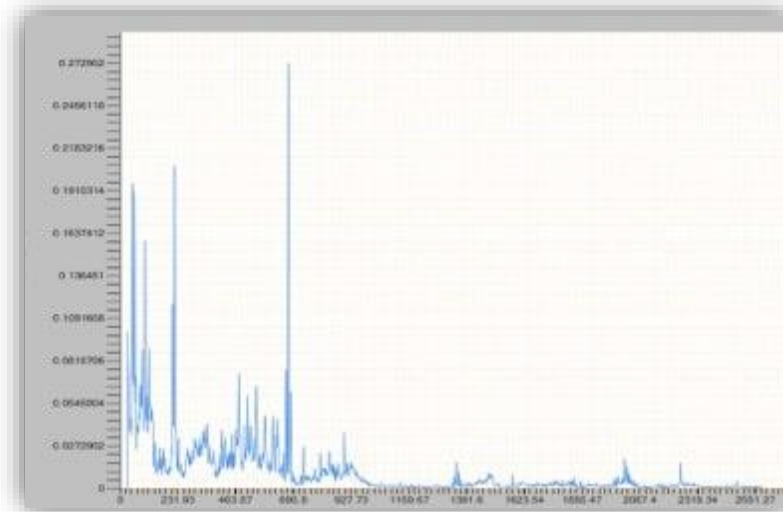
- ❑ Metallurgical Bonding
- ❑ Dilution > 5%

Test Bench (Full Load)

- Adjustable test run time;
- Adjustable acceleration/deceleration cycle with automatic start up after the lube oil temperature and cleanness level (previously programed) have been reached;
- Temperature & Vibrations record (16 measure points simultaneously);
- Sound Power record;
- Oil pressure of before and after Filter;
- Torque level on the gearbox (on time);
- Cleanliness record of the oil lube;
- Adjustable load cycles;



Test Bench for gearboxes up to 2,5 MW



Vibrations Record



Laser Alignment



Three-Dimensional Quality Control



Gear Measuring Centers



Termography



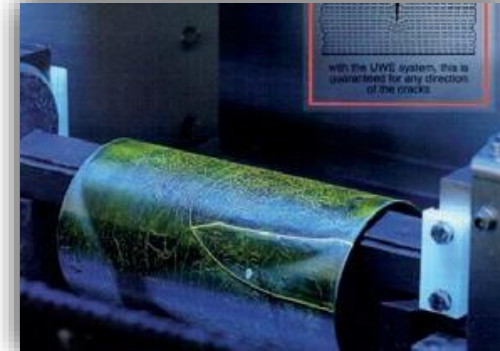
Liquid Penetrant Test



Laser Tracker - Faro



Borescope Inspeccion



Magnetoscope Control



Portable 3D Dimensional Control



TIG – MIG/MAG
and Submerged Arc Welding



3, 4 and 5 –Axis Machining
Centers



CNC Lathe



Cylindrical and Flat CNC
Grinding Machines



Erosion, Wire Cutting
and Penetration



Laser, Plasma,
Oxyfuel and Water Jet



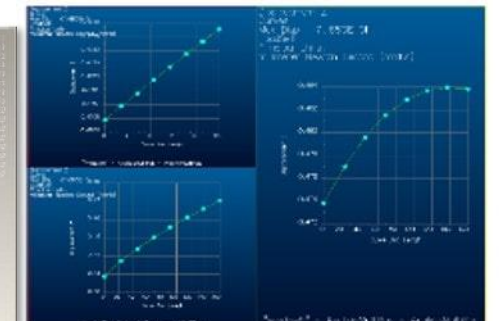
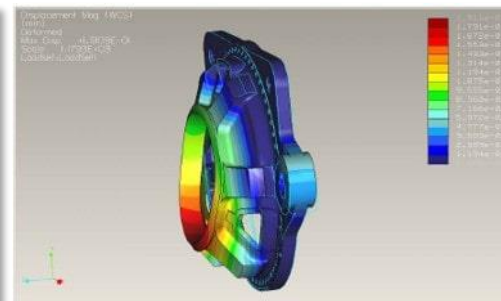
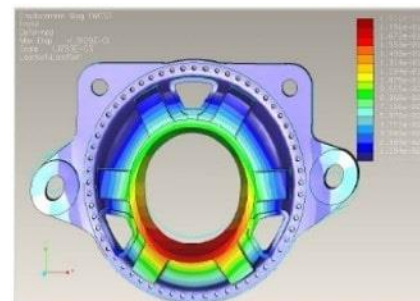
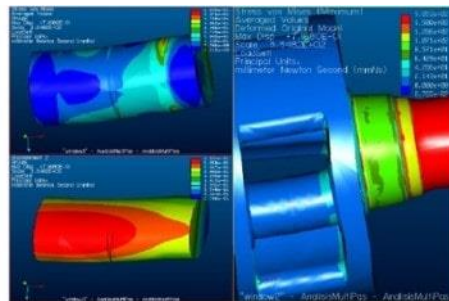
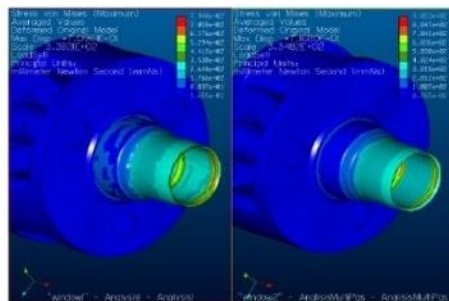
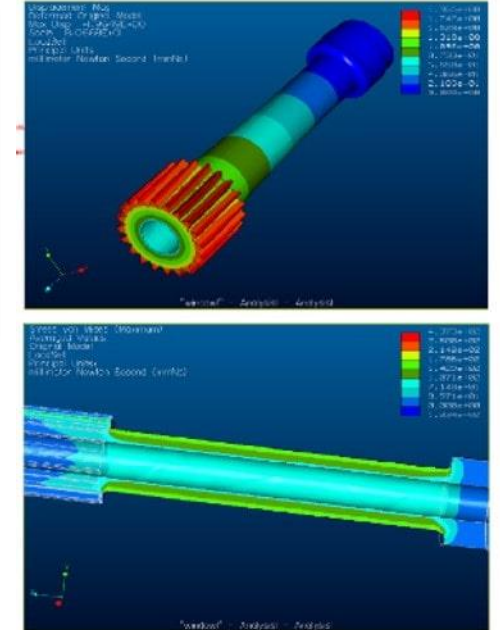
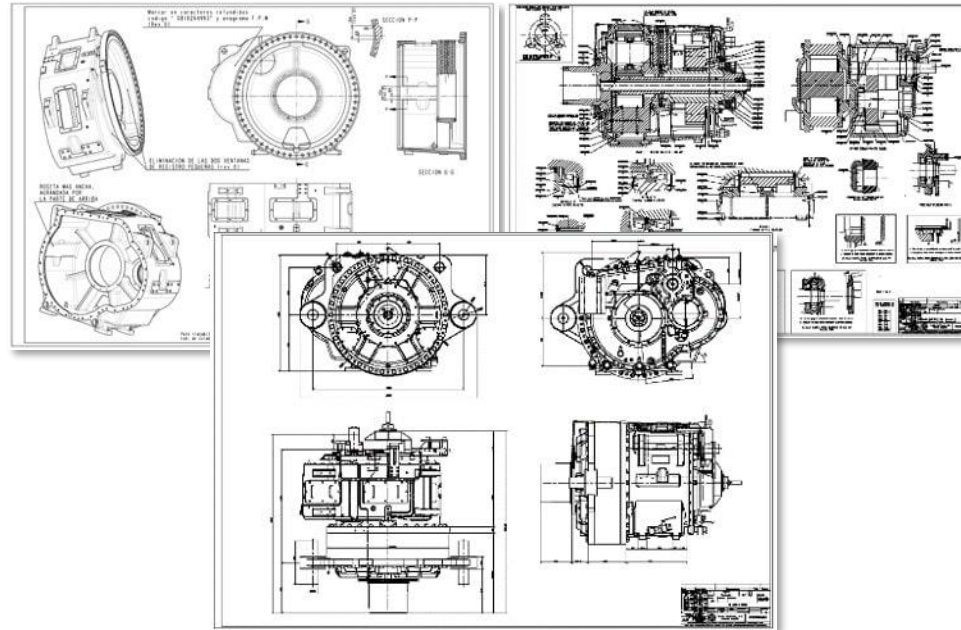
Bending



Calendering

Reverse Engineering

Our Technical Department, is supported on Technicians and Application Engineers with extensive experience in the development of gearboxes, mechanicals elements, cast iron parts, steel castings parts , forgings parts, special tools and metallic structures (for constructions and manufacturing process).





Who We Are



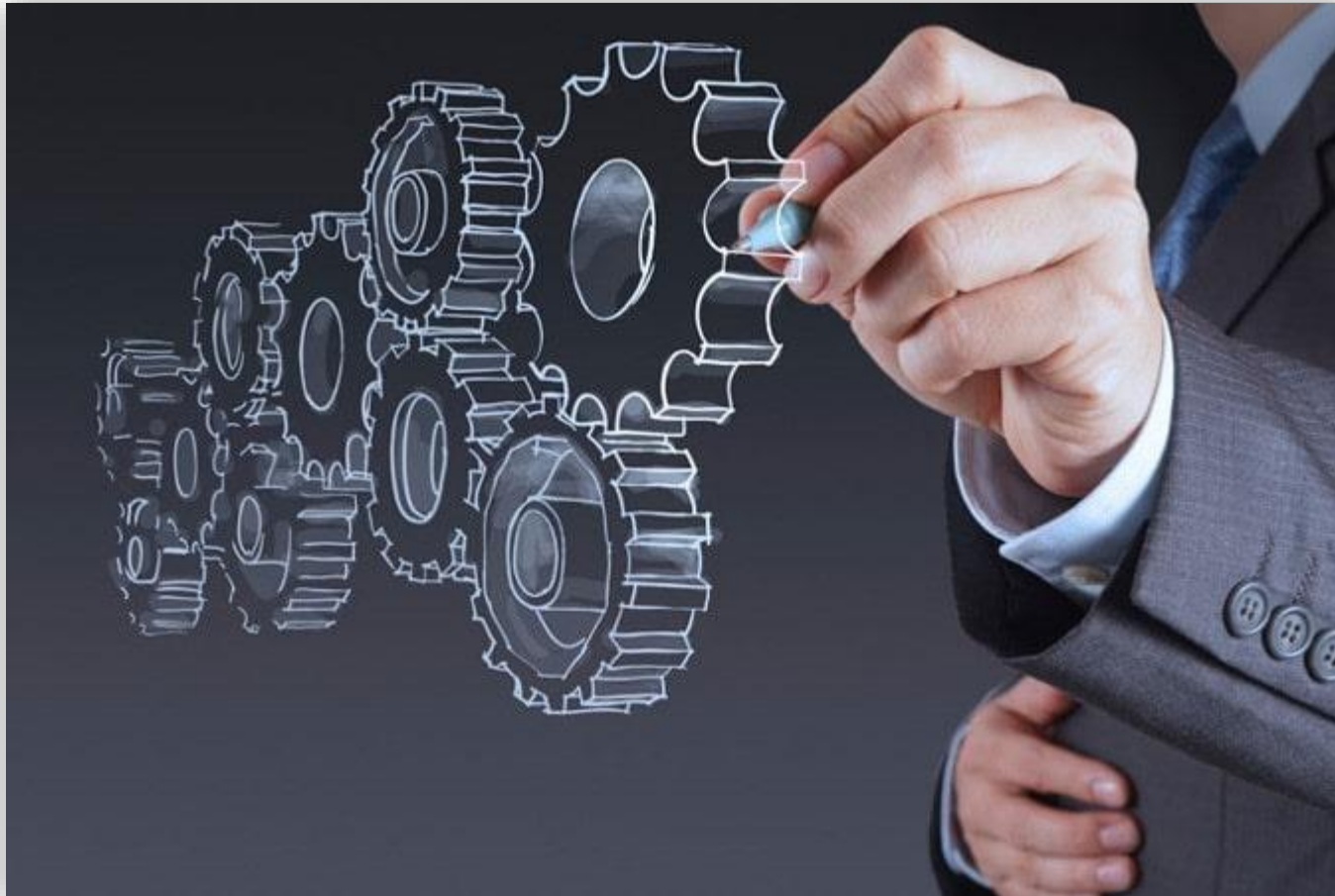
What We Offer



Resources



Why Us



Experience
Top Technology Facilities
Wide Range of Solutions
Capability
High Skilled Technicians
Reverse Engineering



Thank you for your time !