



**Center of MRO Excellence**




# Company Profile



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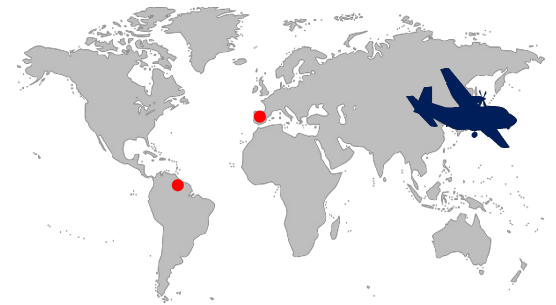
 Part 145 certified MRO for turboprops propellers, helicopters' MRB and TRB and landing gears overhaul and repair

 Strong international reputation built on top customer satisfaction and performance and reduced TAT and scrap rate

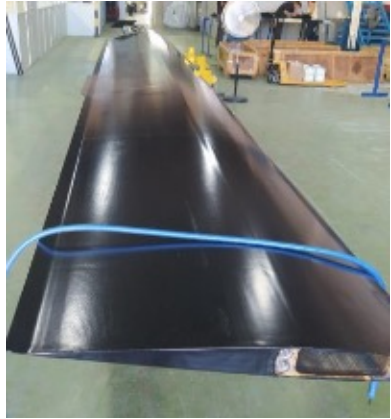
 Team with +35 years experience in civil and military aviation

 Over 400 aircrafts from key turboprop, helicopter and jet operators

 Global reach through our MRO sites in Spain (Seville) and Colombia (Bogotá). Soon in Mexico.



# Services



 Overhaul and repair of turboprop propellers and components (Part 145)

 Maintenance and repair of helicopters' MRB and TRB (Part 145)

 Overhaul and repair of Landing Gears (Part 145)

 Exchange programs on turboprop propellers and components stock planning

 AOG: "On Wing" needs, avoiding disassembling and shipping the component, when repairable on aircraft

 MRO Training center



# Capabilities - Turboprops



BESSEL Certified Part 145 (EASA), PERAM 145, UK-CAA 145, DGAC and Authorized Center

BESSEL Authorized for overhaul and repair of blades, hubs, governors, actuators, tube assembly, nuts, etc.

- Hamilton, Hartzell, McCauley , Sensenich

BESSEL Overhaul and Repair of Woodward, Hartzell, McCauley Governors



BESSEL Training and Customer Support



# Capabilities - Helicopters and eVTOL



Certified Part 145 (EASA), PERAM 145, UK-CAA 145, DGAC

Helicopters' maintenance and repair of MRB and TRB:

- Bell 206, 212, 407, 412
- Airbus H125, H135, H215, EC130, AS365, AS350, Super Puma AS332, Puma AS532,
- NH90
- Boeing Chinook CH 47, Apache AH 64

eVTOLs and drone rotor blades (soon)

Training and Customer Support



# Capabilities – Landing Gears



 Certified Part 145 (EASA),




 Overhaul and repair of landing gears for Boeing 737 (CLASSIC and NG). Adding Boeing 757 in 2025

 Training and Customer Support



# New Opportunity – Drone and VTOLs



-  Civil, surveillance and military
-  Overhaul and repair of all components
-  Training and Customer Support

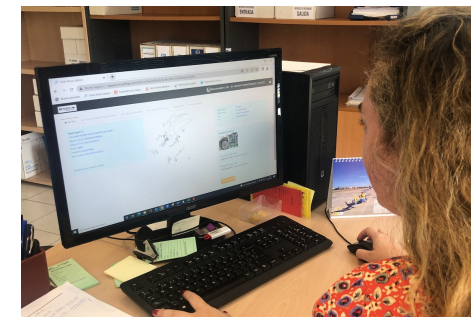




# Efficient Team and Process



- Focused on operators' specific needs
- +35 years experience on a wide portfolio of aircrafts
- Proven lead time (TAT) and scrap rate reduction
- Real time and seamless communication through digitization
- Company philosophy:
  - Excel in Quality and Safety
  - Full and proven commitment to deliver efficiency and profitability to our customers



# Advanced Technology and Facilities

Our +12000 m2 spacious and modern facilities host advanced technology and modern machinery for effectiveness, precision and full control of timing and costs

BESSEL Thorough inspection

BESSEL Compression wrap

BESSEL Shot peening

BESSEL Nickel Sheath

BESSEL De-icer

BESSEL Welding

BESSEL Grinding machine

BESSEL Autoclave / Oven

BESSEL Stress relieving and dehydrogenation furnace

BESSEL Chrome, Cadmium, Anodized process

BESSEL Metallization

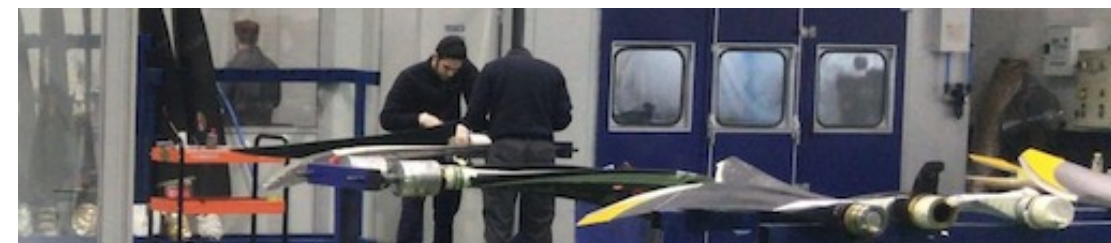
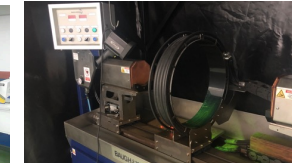
BESSEL Painting booth (latest technology)

BESSEL Digital Static Balancing

BESSEL NDT

BESSEL Extra clean environment

BESSEL Stock







100% internal operations

# Technology and Facilities – Compression Wrap for turboprops

Our Compression Wrap is among the very few available in Europe. We run all repair operations in house, reduce delivery time while ensuring top quality performance.

## In-house Compression Wrap

-  Speeds up operations
-  Ensure maximum precision
-  Reduces TAT
-  Reduces Costs




# Technology and Facilities – Heli blades Moisture and Oil Removal

We can remove water and oil trapped in rotor blades through non-destructive process.

## Moisture & Oil Removal

 X-rays / laser to identify moisture

 Drill specific areas

 Autoclave / hoven to extract moisture and water by delta pressure

 Repair and paint

 Digital Static balance

 Avoids scraps

 Improves blades performance and durability

 Improve fleet availability

 Reduces costs

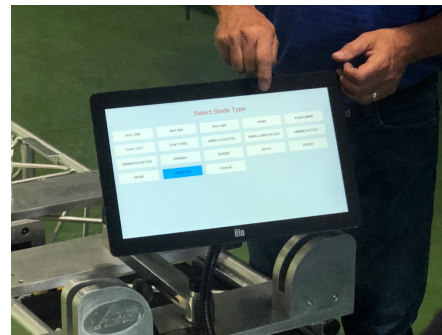
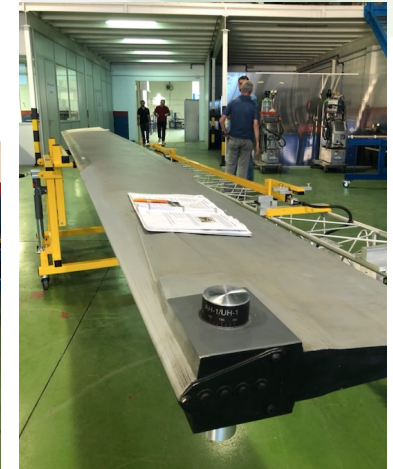


# Technology and Facilities – Heli blades Digital Static Balancer

Our Digital Static Balancer for MRB and TRB allows reduction of operations time while ensuring top precision and quality performance.

## Blade Digital Static Balancer





- Speeds up operations
- Ensure maximum precision
- Improves TAT
- Reduces Dynamic Balance operations
- Reduces Costs

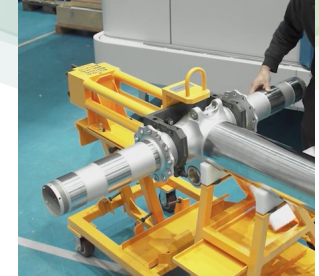


# Technology and Facilities – Landing Gears Overhaul and Repair

We invested in most efficient tooling and advanced Grinding Machine to deliver 100% in-house operations and offer best TAT and performance

## Grinding Machine

-  Speeds up operations
-  Ensure maximum precision
-  Reduces TAT
-  Reduces Costs



# Technology and Facilities – Painting booth




 Multi-blades painting booth

 Any type of blade:

 Airbus

 Bell

 Boeing (Chinook and Apache)







 NH90

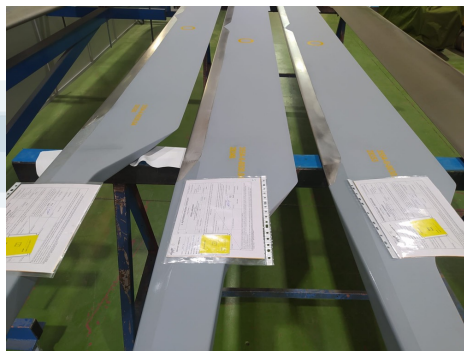
 Turboprops



# Customer Satisfaction Excellence



-  Best TAT for best fleet uptime
-  Lowest scrap rates
-  Top quality performance and experience
-  Fast and flexible response
-  Overall costs reduction and profits improvement
-  Continuous investments in Advanced Technology
-  Global







**Bessel.eu**

SPAIN COLOMBIA MEXICO