FRAMES AND CASES



ON BOARD WITH US

If you are looking for: A reliable partner Advanced design capabilities A solutions provider International team support A great design specialist and manufacturer Production of Casings and Frames with diameter > 800 mm

SAND CASTING /

ADDITIVE MANUFACTURING

THEY'VE ALREADY CHOSEN US General Electric Pratt&Whitney CFM Snecma

MANUFACTURING

ASSEMBLY

TESTING

DELIVERY



MRO & CRO

YOUR TECHNOLOGY

PARTNER

FRAMES AND CASES

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DID YOU KNOW?

Over 15 years of experience on machining processes of Superalloy (Inconel718, Waspaloy etc.) and production of LPT casings and frames. We are sure that our expertise in the design, manufacture and testing is a winning element that makes us an extremely reliable partner.

YEARS EXPERIENCE

TAKE A LOOK AT WHAT WE CAN DO

ALL AROUND DESIGN

- Components design and certification
- Parametric CAD generation
- Obtailed components optimisation
- Multidisciplinary design approach
 Heat transfer analyses capability
- for thermal map assessment
- Ourability LCF assessment via 2D and 3D FEA
- Buckling assessment via 3D FEA
- Oreep and strength assessment via 2D / 3D FEA
- Validation via experimental tests

DISTINCTIVE TECHNOLOGIES

CAD/CAM Tool path Design and Simulation

- Ultra High Pression Coolant (up 300 bar)
 Automatic thickness measurement
- with robotic ultrasonic sensor

OUR FRAMES AND CASES

Probe for automatic in-process measurements and toolpath adjustment

BEHIND THE PRODUCTION PROCESS

- CAD/CAM tool path design and simulation
 Vertical Lathe
- (turning diam. Allowed: from 400 to 2500 mm) Milling center
- (Milling capabilities: 5000*2000*1500 mm)
- Welding (TIG, EBW; Arco Plasma, Resistance Welding)
- @ Brazing, manual and in furnace
- Automatic deburring robotic cell
- @ Heat treatment (Under vacuum and air furnaces)
- Surface treatment (Sand blasting, shoot peening)
- Hardness check
- Oryer station
- Xray inspection (diam. 1000* 600 mm)
- Cleaning station
- *Q* Flushing & checking residul contamination station
- OCMM for dimensional & geometrical inspection



LM6000 REAR/FRONT FRAME	•	PW308 LPT CASE	••	SaM146 DIFFUSER CASE	•
LM2500 REAR/FRONT FRAME	•	LMS100 IPT MODULE	••	APU ARGO TURBINE HOUSING	••
LMS100 FRONT FRAME	•	ARIANE 5 CONE, FIXED SUPPORT	•		••
GEnx LPT CASE FAN HUB FRAME	••	PW308 TEC	•	FRAME PARTICLE SEP	
LEAP LPT CASE	••	PW800 TEC	••	CONTEINMENT RING	

Design Responsability

Manufacturing

CONNECT WITH US framesandcases@avioaero.com - www.avioaero.com



POMIGLIANO D'ARCO (ITALY) 78,000 Sqm specialised in Machining

OUR FRAMES AND CASES PLANTS ARE LOCATED IN:

BRINDISI (ITALY) 54,000 Sqm specialised in Machining