

2025 BUSINESS OVERVIEW

FLYING FURTHER AWAY

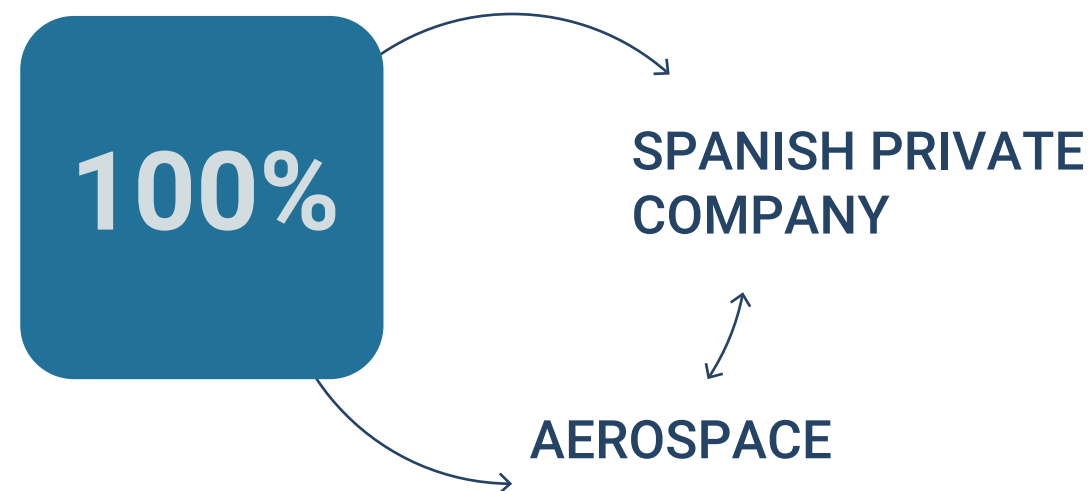


FOR A CHALLENGING WORLD

A PREMIER AEROSPACE **GLOBAL** MANUFACTURER

Founded in 1999 as an engineering company, Sofitec Aero is a premier manufacturer of cutting-edge composite, metal bonding, highly skilled sheet fabricated components and assemblies at all levels of complexity, with products installed on the industry's most advanced commercial and defence aircraft.

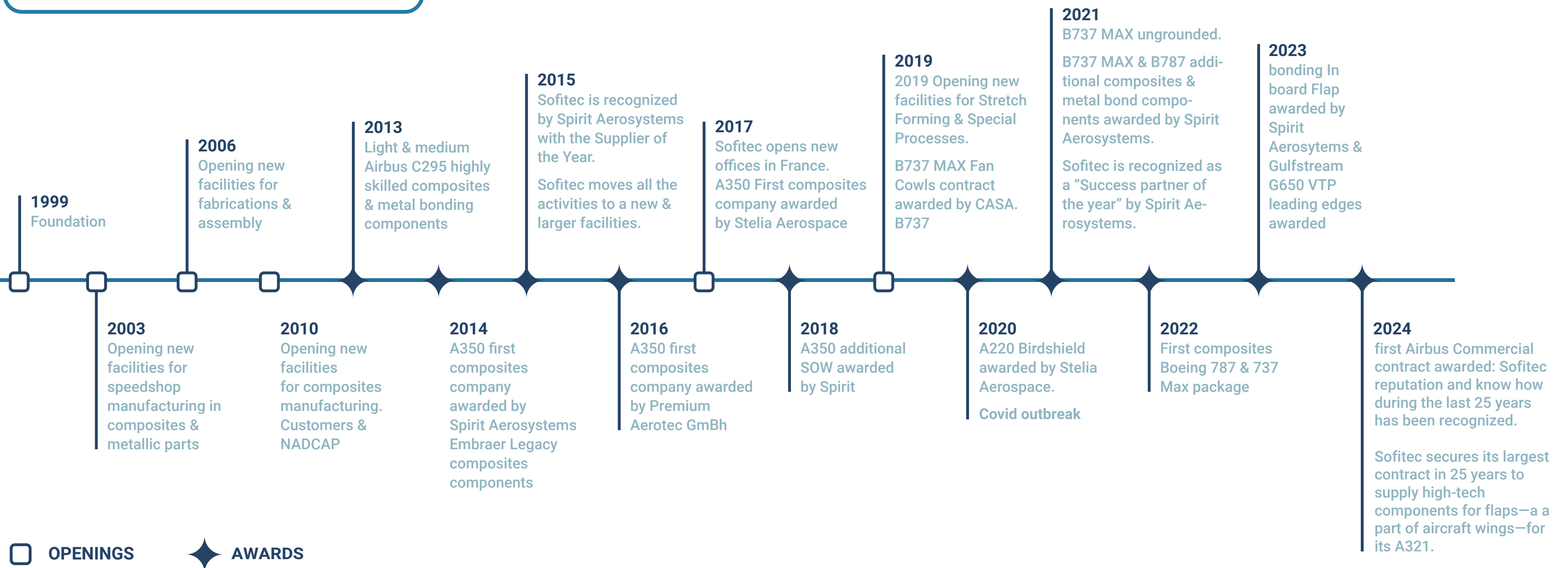
A spaniard owned company supplying worldwide with a footprint of almost half million square feet (half hundred thousand square meters), of state-of-the-art facilities, expandable to the double, Sofitec competitively solves the market's toughest challenges on time, with Quality Assured.



OUR EVOLUTION AS AN AEROSPACE

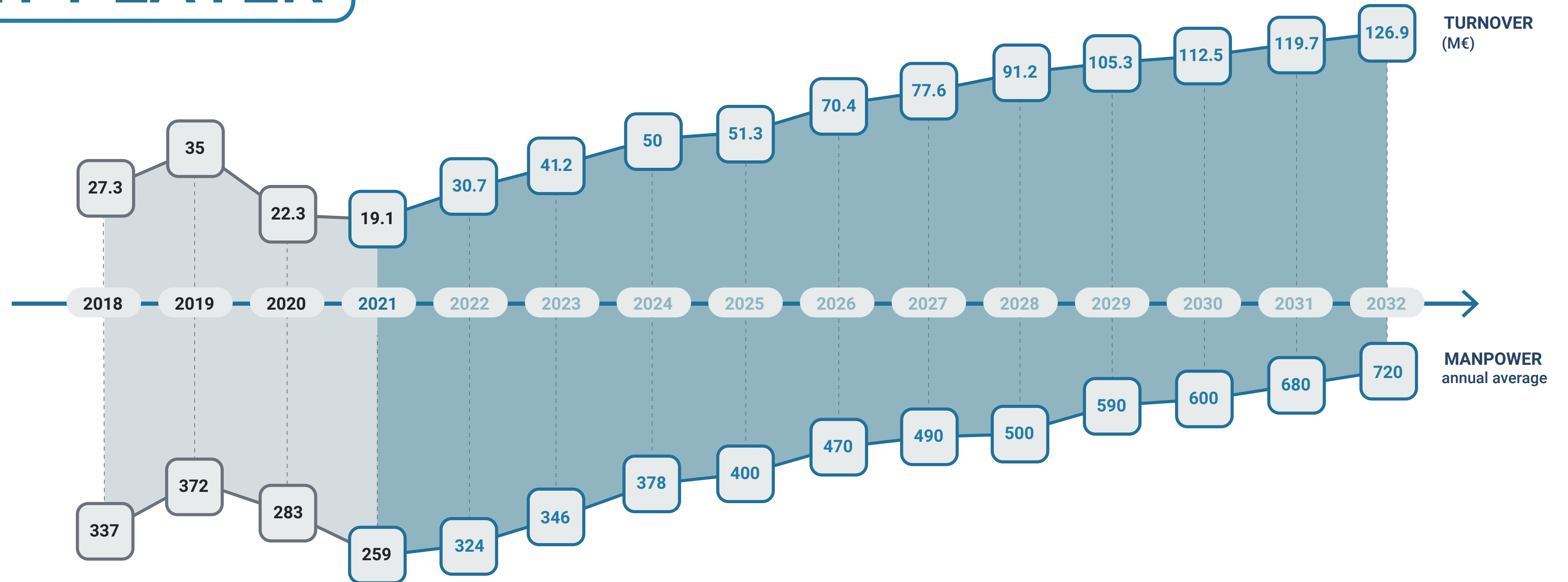
KEY PLAYER

Founded in 1999, Sofitec Aero is a dynamic & young company whose history reflects vast experience and stellar progress in aviation and aerospace composites, metal bond, fabrications and assemblies. Sofitec Aero has proven experience in commercial, military and business aviation, producing for a wide variety of platforms & global customers.



OUR EVOLUTION AS AN AEROSPACE

KEY PLAYER



A **WORLDWIDE CLASS** PARTNER IN THE AEROSPACE INDUSTRY

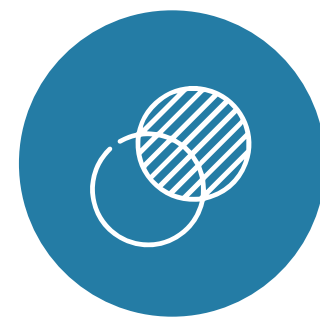


GREENER

OUR COMMITMENT TO THE COMMUNITY

Committed to the environmental quality & conservation of natural resource, 50% of our energy consumption comes from renewables sources due to 20,000 sqm of solar panels installed on our facilities in 2018, in addition LNG, consider the cleanest fossil fuel, as an energy source for many of our primary equipment defines Sofitec Aero contribution to a Greener Aerospace Industry.

Sofitec Aero is ISO 14001 and REACH Compliance, using most of Cr6 free analyzing and painting systems in the aerospace market.



TRANSPARENCY

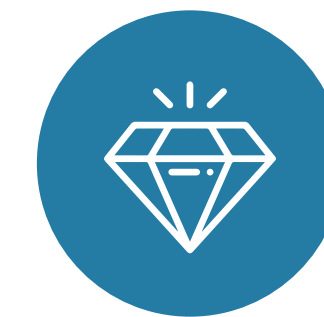
OUR COMMITMENT TO THE STAKEHOLDERS

Being open, collaborative, honest & respectful with communication. sharing ideas and building trust by making intentions clear.

Philosophy of working together to achieve the best outcomes.



Conquer your operational roadblocks that are wasting energy and resources.



OPERATIONAL EXCELLENCE

OUR COMMITMENT TO THE CLIENTS

In such a highly competitive industry, Sofitec stands out for its service vocation & efficiency philosophy.

The process involves focusing of the customer's needs, keeping the employees positive and empowered, looking for improving the current activities in the workplace using Lean Manufacturing or Kaizen methodologies and managing tools like APQP.



ONE TEAM,
ONE SOFITEC



The Sofitec Aero leadership team has a century of combined experience leading teams across the aerospace industry.



PRODUCTION DIRECTOR
IRENE HERNÁNDEZ

Programs
Manufacturing
Technical support
industrialization R+D

Manufacturing eng.
tooling
logistic



QUALITY ASSURANCE DIRECTOR
ALBERTO FERNÁNDEZ

Quality system
Quality tooling
Quality supply



CEO
JOSÉ MIGUEL
HERNÁNDEZ



PURCHASING & BUSINESS DEVELOPMENT DIRECTOR
VÍCTOR HESS

Bidding eng.
Purchasing
Commercial



FINANCE DIRECTOR
CANDELA GOMEZ

Finance
Accounting



LEAN MANUFACTURING DIRECTOR
JOSÉ ÁNGEL GARCÍA

Lean Manufacturing



MAINTENANCE DIRECTOR
JOSÉ ANTONIO PIÑA

Maintenance

HIGHLY SKILLED COMPOSITES PARTS

More than 2,000 sqm. of cca
certified climate controlled areas,
expandable to 3,000 sqm. in an agile
and flexible manner.



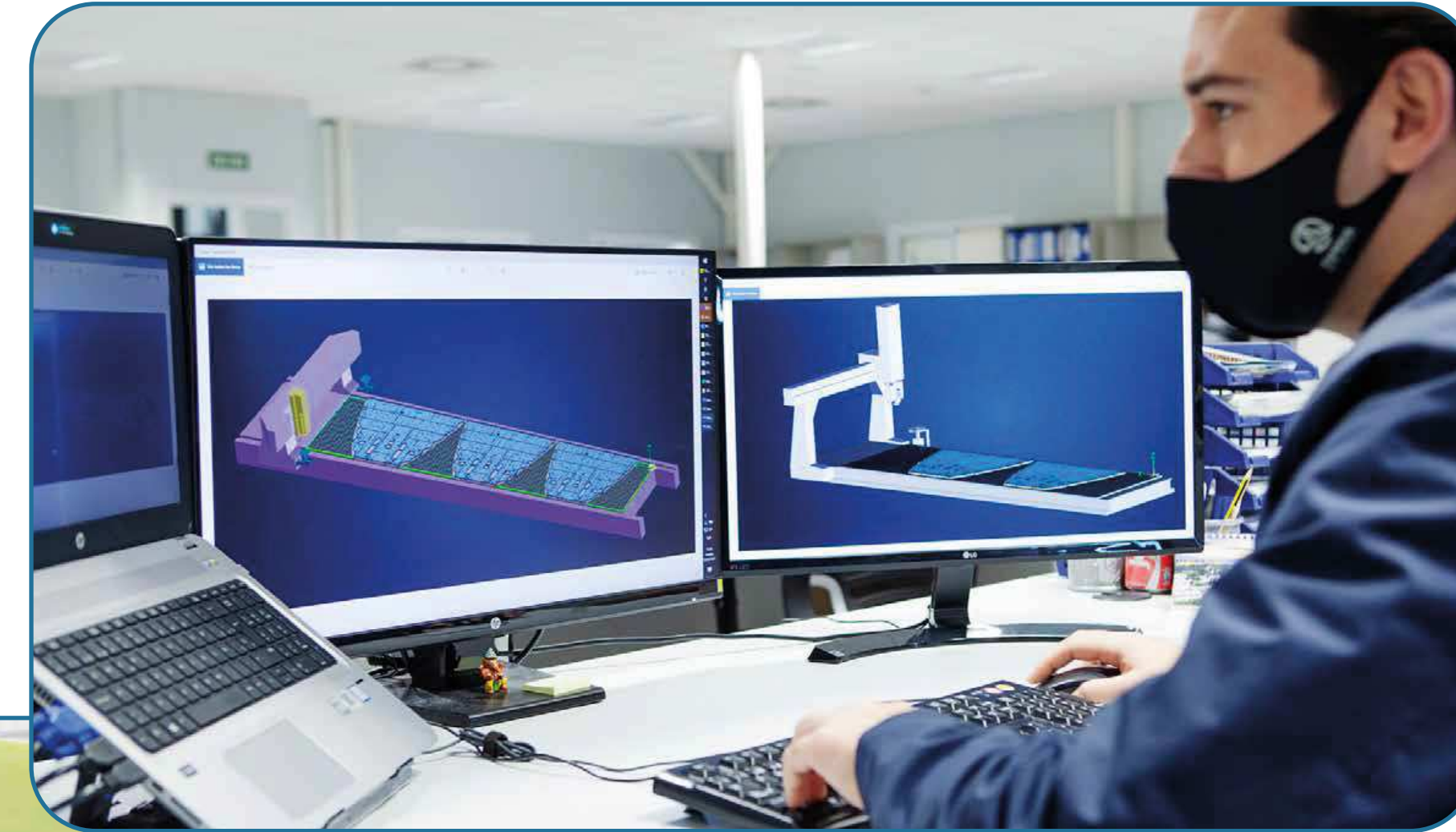
HIGHLY SKILLED COMPOSITES PARTS

Sofitec offers world leading complex composites components and structures in carbon woven, tape, kevlar, glass combined with honeycomb and foams, cured, co-cured and/or bonding structures, pressurized in autoclave or OOA (Out of Autoclave) processes up to 14 meters long. A “state of the art” NDT facilities support these capabilities.



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METAL BONDING CONFIGURATIONS

An independent strong and reliable technological partner.



METAL BONDING CONFIGURATIONS

Metal bonding, co-bonding of metallic alloys for structural assemblies in both commercial and defence fixed wing aircraft using materials such aluminum, stainless steel, metallic and non metallic honeycomb core, phenolic prepregs, film and expanding adhesives is a well know capability in Sofitec, with the addition of a recently built facilities that add new special processes to our portfolio.

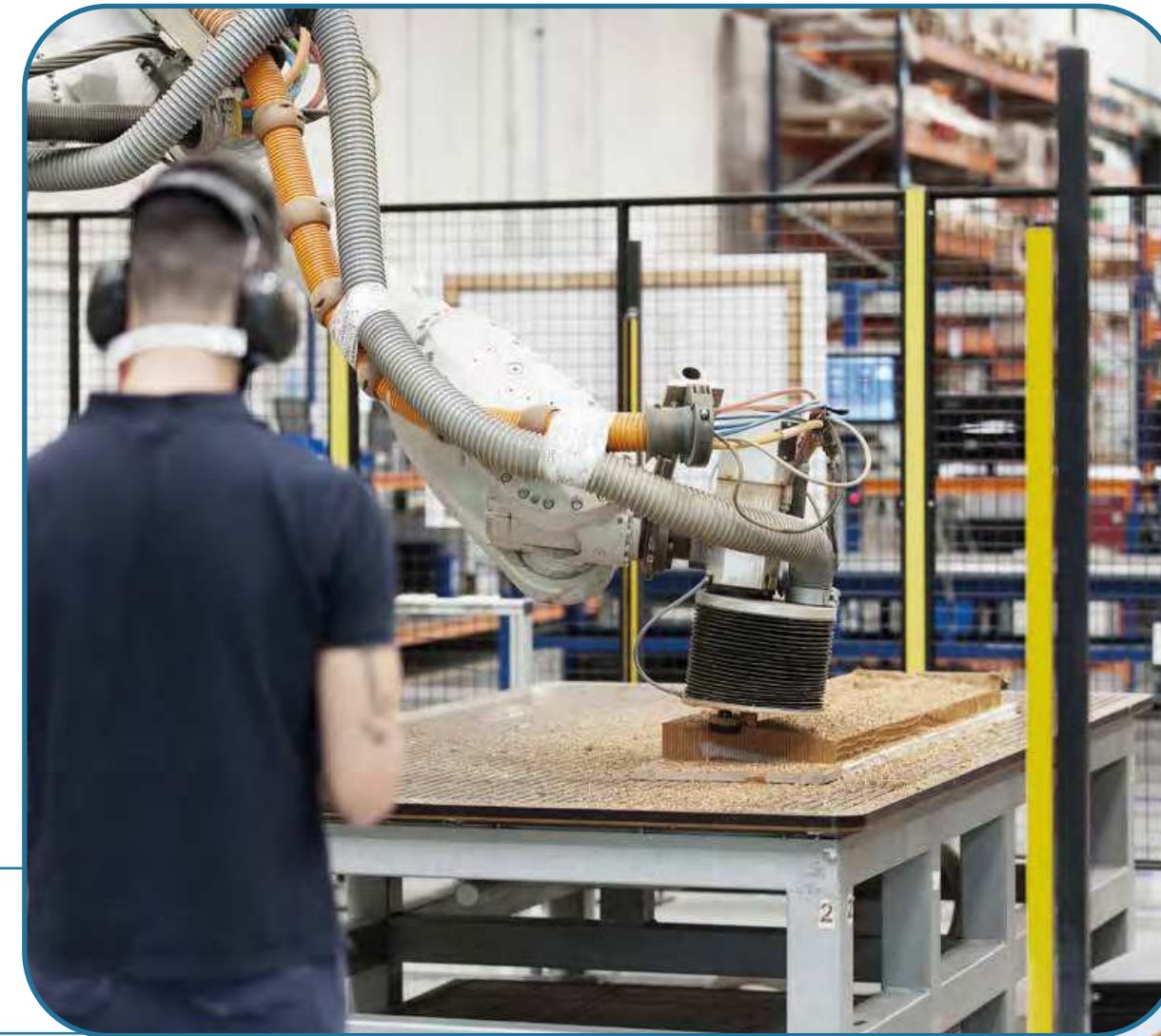
A state of the art NDT and “in house” lab areas support these capabilities.



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COMPLEX FABRICATION PARTS

Turn key solutions ready to be integrated
at our customer's final assembly line.



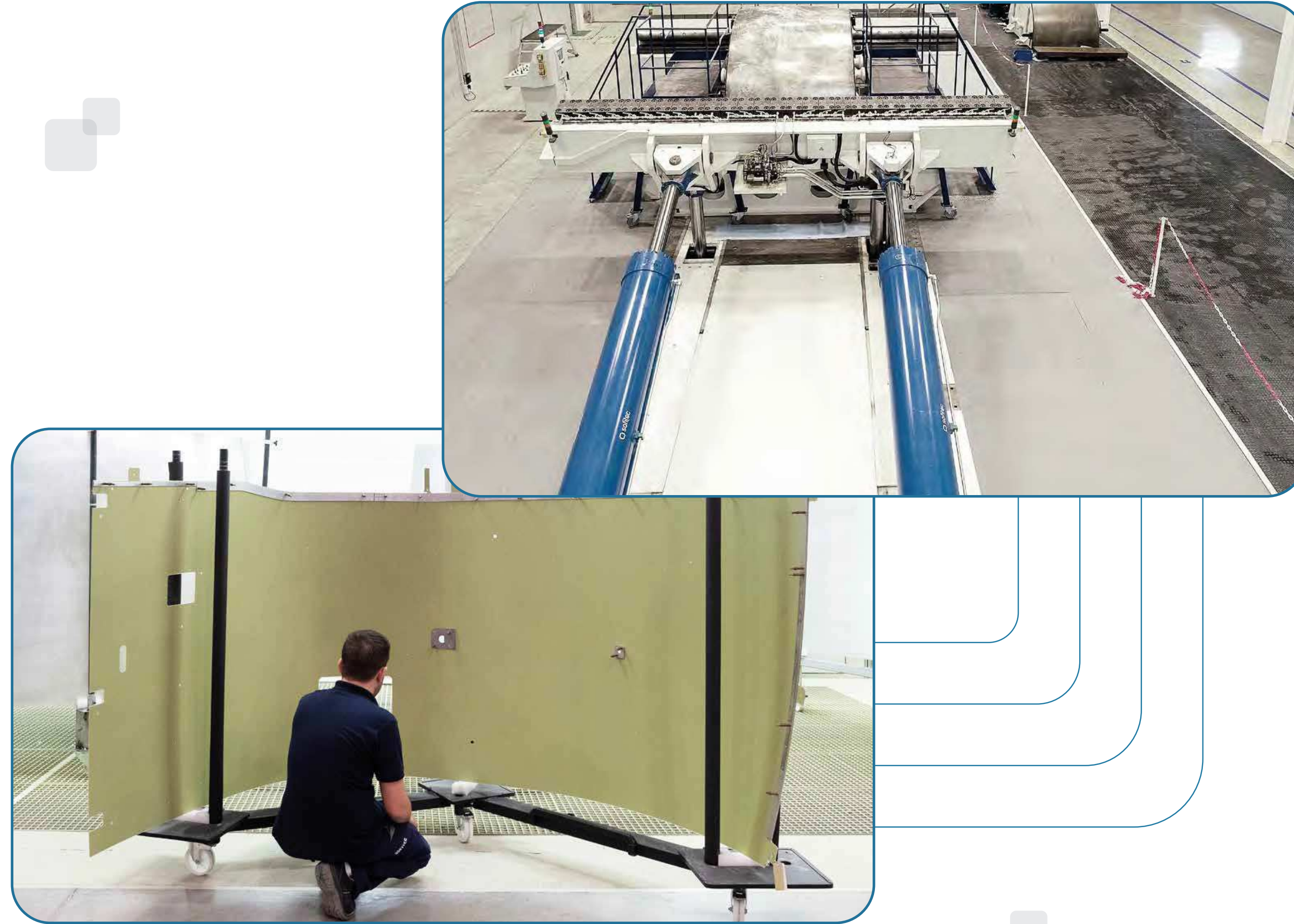
COMPLEX FABRICATION PARTS

With a factory built and capitalized to accomodate large and complex fabrication components including stretch forming, press forming, heat treatments for aluminum alloys, mechanical milling, CNC and waterjet cutting plus a long and rich story of fabrications manufacturing.



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ASSEMBLY

Vast experience in the assembly of complex composites or metallic components and structures.



ASSEMBLY

From Legacy programs using assembly jigs at each mayor installation step, to determinate wich eliminate the need for assembly jigs together.



NDT & LAB

Providing the site an independent way of working with a significant cost and lead advantages.



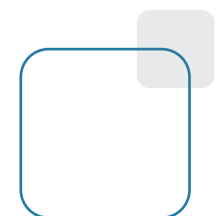
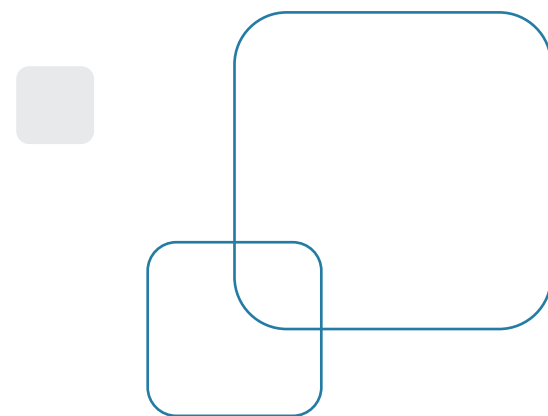
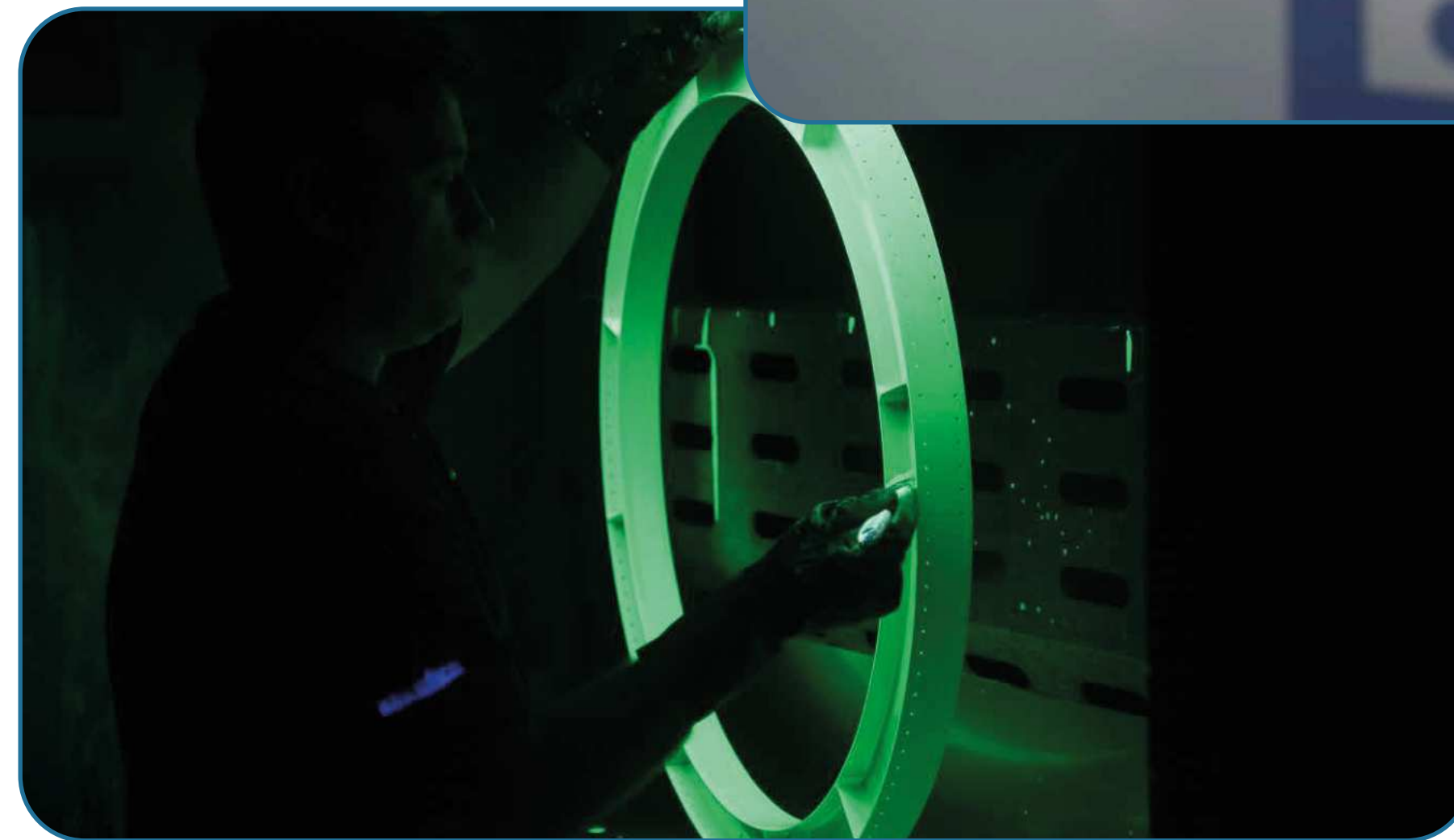
NDT & LAB

The scale and complexity of composite, bonding structures and chemical processes have significantly increased over the past decade. To support these emerging requirements, Sofitec has invested in up-to-date NDT equipment and an “in house lab” with a vast portfolio of test methods.



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SPECIAL PROCESSES

More than 300 special processes, NDT & Lab test methods done “in house”.



SPECIAL PROCESSES



CHEMICAL PROCESSING

Anodizing Line.

TSA > Tartaric sulphuric anodizing.

BSA > Boric sulphuric anodizing.

PSA > Phosporic sulphuric anodizing airbus pre-treatment prior metal bonding process.

PAA > Phosporic anodizing boeing pre-treatment prior metal bonding process.

CAA > Chromic anodizing, limited users, specially abroad europe, airbus canada pre-treatment prior metal bonding process.

Alodine conversion coatings.

Dry blasting.

Ti pickling.

Climate certified controlled cnc robotic installation for aplying of non corrosive primers to bonded parts. sol-gel for aluminum an its alloys.

Antistatic erosion resistant, antifriction, antistatic, structural, fluorescent and external paint systems.

Rework of paints on metallic and non-metallic structural parts.

Inspection for confirmation of the anodising process (based upon measurement of surface resistance).

Acid pickling of alumium alloys.



ASSEMBLY

Preparation of holes in metallic materials and mixed assemblies for fastening.

Wet installation of fasteners.

Sealing of aircraft structures.

Electrical bonding and measuring resistance of bonding points.

Liquid shims.

Installation of blind bolts pull type and threaded type.

installation of blind rivets.

Bush installation in interference assemblies.

Installation of pneumatic de-icer.

Torque tightening of screws, bolts and nuts.

Installation of parallel shank threaded fasteners.

Preservation of Cut Edges of Carbon Fibre Composite Parts to prevent Galvanic Corrosion on attached Metal Parts.

Rectification of metallic materials by 3 point bending.



SPECIAL PROCESSES



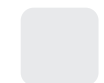
COMPOSITES & METAL BONDING

Manufacturing of monolithic parts with thermoset prepreg materials.
Advanced composites and honeycombs structural parts.
Manufacturing of high temperature resistant epoxi structural parts.
Structural bonding metal to metal.
Manufacturing of metallic sandwich parts, bonding process.
Machining and drilling of composite parts.
Non structural adhesive bonding.
Qualification of autoclaves for metal bonding and curing composites structures.
Fabrication of structural adhesive bonded assemblies for use up to 180° C.
Machining of fibre reinforced plastic FRP components.
Rework of Structures Manufactured from Composite Materials Laminates and Sandwich.
Mechanical surface preparation of non-structural adherend prior to adhesive bonding.
Non-structural adhesive bonding.
Structural bonding on phosphoric anodizing.
Repair of Structures Manufactured from composites materials. (Laminates Sandwich)



HEAT TREATMENT

Heat treatment of aluminium alloys.
Ferrous alloy heat treatment inspection by hardness.
Aluminium alloy heat treatment inspection by electric conductivity and hardness.



SPECIAL PROCESSES



TEST METHODS

All of them associated to process control in chemical processing, heat treating, composites & metal bond structures:

Determination of chloride contamination, hydrogen in treatment tanks.

Structural adhesives peel metal-metal floating roller.

Structural adhesives peelingtest metal-noneycomb core.

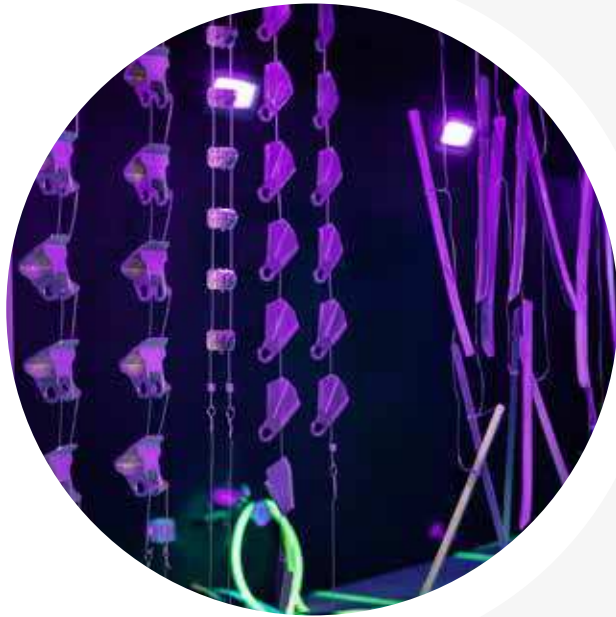
Carbon fibre reinforced plastics determination of aparent interlaminar shear strength.

Corrosion test in artificial atmospheres-salt spray testing

Combined determination of free hydroxide and aluminium in alkaline surface treatment baths.

Anodizing of aluminium and its alloys. determination of mass per unit area (surface density) of anodic oxidation coatings. gravimetric method.

Anodizing of aluminium and its alloys - estimation of loss of absorptive power of anodic oxidation coatings after sealing - dye-spot test with prior acid treatment.



NDT

Penetrant inspection process.

Ultrasonic through transmission inspection of composite parts, monolithics, sandwich parts, metal bonded parts, sandwich and adhsevely joined metal parts.

Ultrasonic pulse echo inspection of fibre composite parts and phased array technique.

Tap test.

Determination of electrical conductivity of al alloys by eddy current method.

Leak test for sandwich structures.

Resonance impedance inspection using Fokker bond tester.

Visual inspection.

Thickness measurement of fiber composites by ultrasonic pulse-echo technique.

Ultrasonic pulse-echo inspection of areas around fastener and rivet holes in composites.

For Inspection Processes Determination of electrical conductivity of aluminium alloys by Eddy current method.

Leak Test for Sandwich Structures.

SPECIAL PROCESSES

TRUST IN OUR SPECIAL
PROCESSES

AIRBUS

 EMBRAER

 **BOEING**

BOMBARDIER
the evolution of mobility

 **AIRBUS**
HELICOPTERS

AIRBUS
CANADA

AIRBUS
DEFENCE & SPACE





CURING CENTERS & OVENS

Redundancy in our curing centers is critical in maintaining a reliably predictable workflow.

Autoclaves and High temperature Ovens for composites, metal bond curing, quenching and aging of Al and its alloys.



CURING CENTERS & OVENS



2 AUTOCLAVES. 4 x 1 6 m . / 1 3 x 5 2 f t (DxL)



OVEN OOA. 4 x 4 x 8 m . / 1 2 x 1 2 x 2 4 f t (WxHxL)



HEAT TREATMENT OVEN. 4000mmX2610mm x 2 200mm / 1 4x8.6x7.5x f t /
WxHxD Tolerance_ +/- 5°C | + /- 41°F & T emperature_ 6 00°C | 1 112°F



HEAT TREATMENT OVEN
1800x1000x1000 m m. / 6 x3.3x3.3 f t. (WxHxL)

TRIM & MILL

Expansive array of working envelops
integrating configurable holding fixtures,
OEE monitoring & CMM probe systems.



TRIM & MILL



5X CNC 10x4x1.7 m. / 32x13x5.5 ft (LxWxH)
2 WORKING ZONES / MQL & COOL JET REFRIGERATION



5X CNC 13x4x1.1 m. / 43x13x3.6 ft (LxWxH)
COOL JET REFRIGERATION



3X CNC 14x3x0.35 m. / 46x10x1.15 ft (LxWxH)
2 WORKING ZONES / MQL & COOL JET REFRIGERATION

TRIM & MILL



HONEYCOMB MACHINING 5x2 m / 16 x 7 ft



5X CNC 5x2,6x1 m / 16x8.5x3.2 ft & 3X CNC 3,6x2,3x1,6m / 32x12x5 ft (LxWxH) COOL JET REFRIGERATION



HONEYCOMB TRIMMING & CHAMFERING 10x3,6 m. / 32x12 ft

STRETCH & PRESS FORMING



STRETCH & STAMP



STRETCH FORMING

5x5 m ./16.5x16.5 ft. | F ORCE (V/H) up t o 6 000/3000 k N



ELASTOFORMING PRESS 800x500x55 m m./ 3 1.5x19.7x2.17 in . | 300 bar



PRESS FORMING 1300x800x1040 m m./ 5 1.2x31.5x41 in . | 2 60 Tm.

SURFACE TREATMENT & PAINTING



SURFACE TREATMENT & PAINTING



AUTOMATED SURFACE TREATMENTS - BSA / TSA / PSA / CAA / PAA
6x2 m / 20x6 ft. PROCESSING CAPACITY 800 sqm/day (8,611 ft2/day)
CLEANING / CHEMICAL CONVERSION COATING / DEOXIDIZING ALUMINUM
ALLOYS / TITANIUM PICKLING UP TO 6x2 m. / 20x6 ft

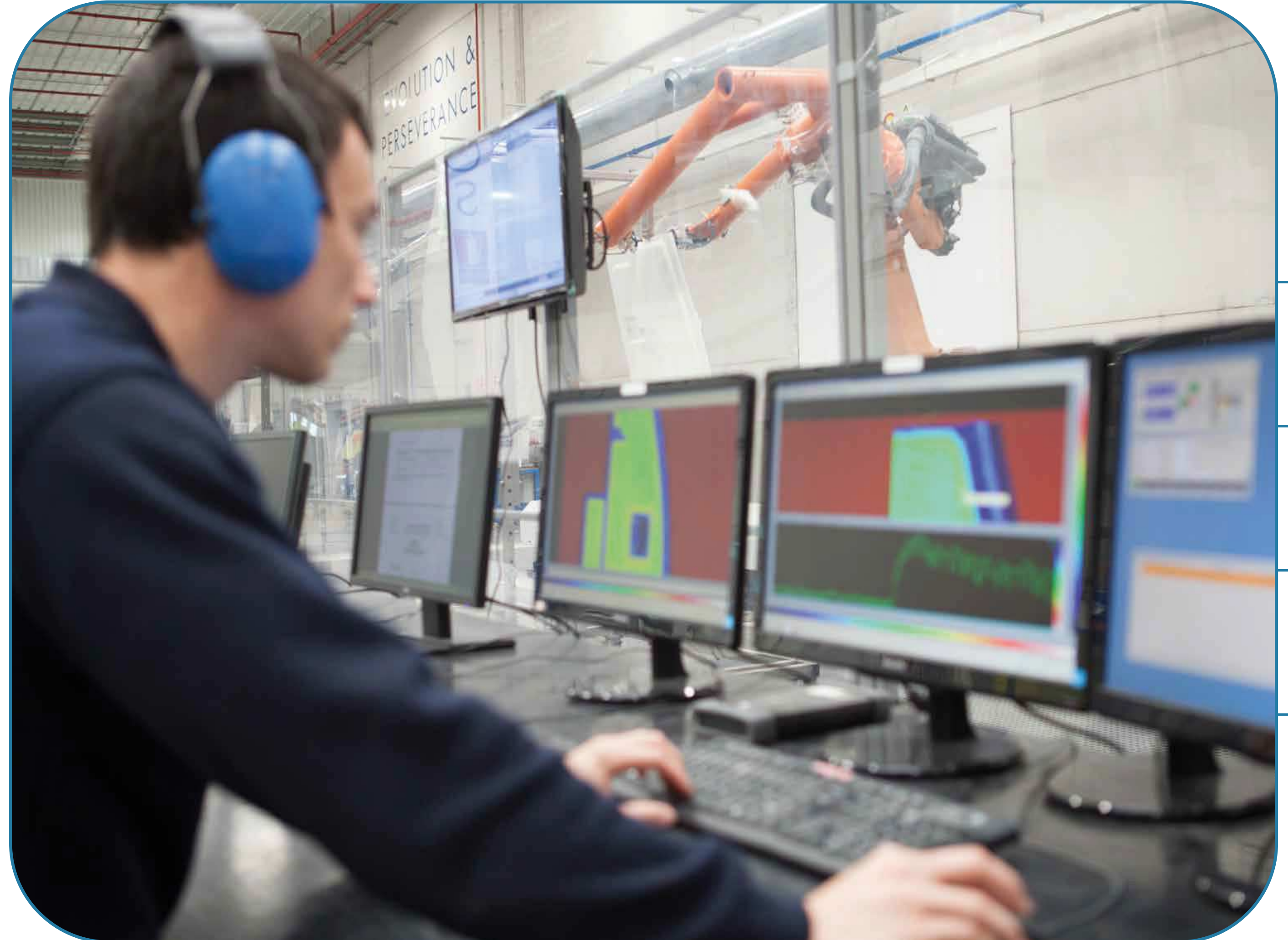


CLIMATE CERTIFIED CONTROLLED CNC ROBOTIC SPRAYING 6x2 m / 20x6 ft.
PROCESSING CAPACITY 4356 sqm/day (46,887 ft2/day)
ENVIRONMENTAL MONITORING & CONTROL



SANDING & PAINTING FACILITIES 14x4 m . / 4 5x13 f t

NDT & LAB



NDT & LAB



FOKKER BOND TESTER



MICROSCOPY METALOGRAPHIC TESTING Nikon LV150NL



PENETRANT DYE INSPECTION 6x2 m. / 20x6 ft



ROBOT AUTOMATIC TRANSMISSION - PHASE-ARRAY - A/B/C SCAN
14 x 2,5 m. / 40 x 8 ft

NDT & LAB



UNIVERSAL TESTING MACHINE
50kN



SALT SPRAY TEST (400L)
800x1080x550 m m. /31.5x42.5x21.6 in .

FOOTPRINT

ONE LOCATION, ALL PROCESSES TOGETHER

Sevilla has a long history related with the aerospace industry, being today one of three cities that host an Airbus FAL with Toulouse and Hamburg. Locates in a very competitive region, Sevilla has a **strong aerospace network, including the aerospace degree at the university and R&D centers.**

The city is characterized by an **expanding high-tech industry** that affords ready access to a diverse manufacturing talent base and extensive resources.



FOOTPRINT

ONE LOCATION, ALL PROCESSES TOGETHER

The last expansion at the end of 2019 few months before of Covid Outbreak and the impact of the pandemic in the aerospace business keeps a significant **free workload capacity in Sofitec**, around 50% of average in every work center.



FOOTPRINT

CLEAN AREA - TOOLING PREPARATION -
AUTOCLAVE > 12,800 sqm / 138k ft2



FOOTPRINT

TRIM AND DRILL > 3,000 sqm / 32.3k ft2
 ASSEMBLY > 3,000 sqm / 32.3k ft2
 INSPECTIONS, NDT AND LABORATORY > 2,200 sqm / 23.7k ft2
 OFFICES > 2,200 sqm / 23.7k ft2



FOOTPRINT

SURFACE TREATMENTS AND PAINTING > 12,800 sqm / 138k ft2
SHEET METAL AND FABRICATIONS > 4,000 sqm / 43.1k ft2
AUXILIARY EQUIPMENT > 3,000 sqm / 32.3k ft2
SHIPPING AND STORING > 5,500 sqm / 59.2k ft2



PROGRAMS



Most of major OEM's in the world does not fly without components from Sofitec

COMMERCIAL

A350 XWB
A320 NEO
A321 NEO
A321 XLR
B737 MAX
A330-340
B777-X
B787
B767
A220
LEGACY 450/500
GLOBAL
7000/8000
GULSTREAM
G650
F6X
F10X

DEFENCE

A400M
A330 MRTT
KC390
C295 / CN235



QUALITY IN EVERY FIBER

At Sofitec Aero, our facilities hold the highest level of aerospace accreditation across all major processes, more than 300 special process, NDT's or test method qualified by the most relevant OEM's all over the world.

KNOW MORE ABOUT
OUR COMPLETE
CERTIFICATIONS BOOK



CHEMICAL
PROCESSING
HEAT TREATING
COMPOSITES
ASSEMBLY
NON
DESTRUCTIVE
TESTING
MEASUREMENT
& INSPECTION



SUPPORTING US, CUSTOMERS

AIRBUS

SPIRIT
AEROSYSTEMS

BOMBARDIER
the evolution of mobility

AIRBUS
HELICOPTERS

PREMIUM
AEROTECH

TATA

EMBRAER

TURKISH
AEROSPACE

AIRBUS
ATLANTIC

AIRBUS
DEFENCE & SPACE

Fokker





FLYING FURTHER AWAY