



LONG-HAUL PARTNER  
FOR LEADING AEROSPACE COMPANIES

## A FEW WORDS FROM SHAREHOLDERS



An ambitious project, loyal customers, stedy governance and qualified and passionate employees have allowed us, for more than forty years, to make our production units recognized as centers of excellence, and Groupe Lauak a Tier 1 supplier to OEMs and Tier 2 to renowned aerospace companies.

In order to continually improve our productivity and competitiveness, we continue to move towards Industry 4.0.

Thus, in Grandola (Portugal), we will inaugurate in 2020 a unit of 12,000 m<sup>2</sup> firmly digital and connected, dedicated to thin sheet metal cutting, machining of large dimension aluminum parts, automated surface treatments and coatings with tanks of 4-meters (for both light alloy and hard metals), robotic bending and structural assembly. In parallel, we are expanding our implantation in North America. In Mirabel, in parallel with the existing tubes & pipes activity, we will soon develop other core business lines. This Canadian site is closely linked to our new established site in Queretaro (Mexico).

We have also created a Joint Venture with an Indian partner well known in machining and surface treatments which allows us to benefit from a Best Cost presence in Asia and to support our customers in their local development. Our international expansion brings us even closer to our customers, helping to diversify our offer and improve our competitiveness. Due to our clients' confidence we are able to support and accompany them in defining their needs, and also to suggest innovative solutions leading to a fruitful long-term partnership.

We will take up the various challenges ahead, keeping in mind the values which constitute our DNA :

**HUMILITY, AGILITY, ETHICS AND COMMITMENT.**

## KEY FIGURES 2019

225

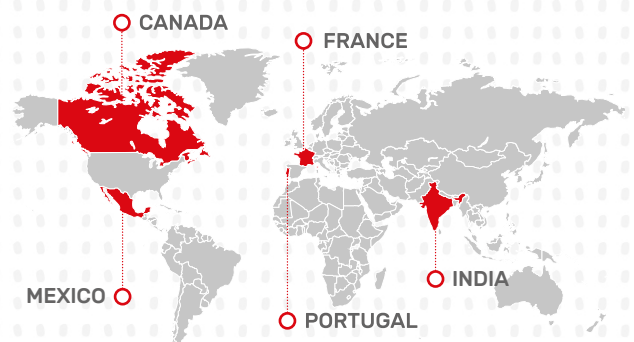
MILLIONS \$  
TURNOVER

1830

EMPLOYEES

10

PLANTS  
90 000 M<sup>2</sup>



## CERTIFICATIONS



## AWARDS

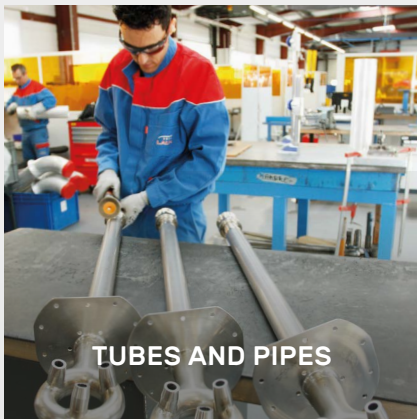
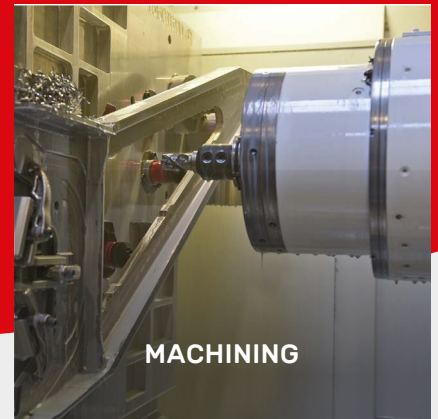
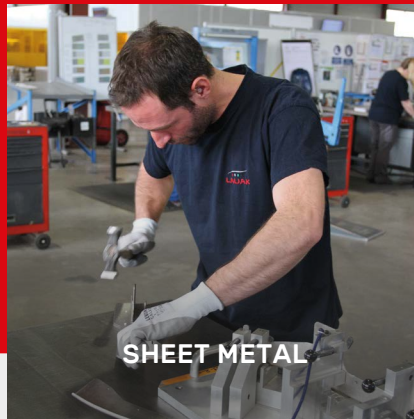
D2P Class B 2018  
by AIRBUS

Best improver 2017  
by AIRBUS HELICOPTERS

Best improver 2017  
by LIEBHERR

Best Performer 2016  
by AIRBUS

## OUR ACTIVITIES



## THEY TRUST US

**AIRBUS**

**AIRBUS**  
HELICOPTERS

**BOMBARDIER**

**Collins**  
Aerospace

**DAHER**

**DASSAULT**  
AVIATION

**EMBRAER**

**HUTCHINSON®**

**IAI**

**LATÉCOÈRE**

**LIEBHERR**

**MBDA**  
MISSILE SYSTEMS

**SAFRAN**

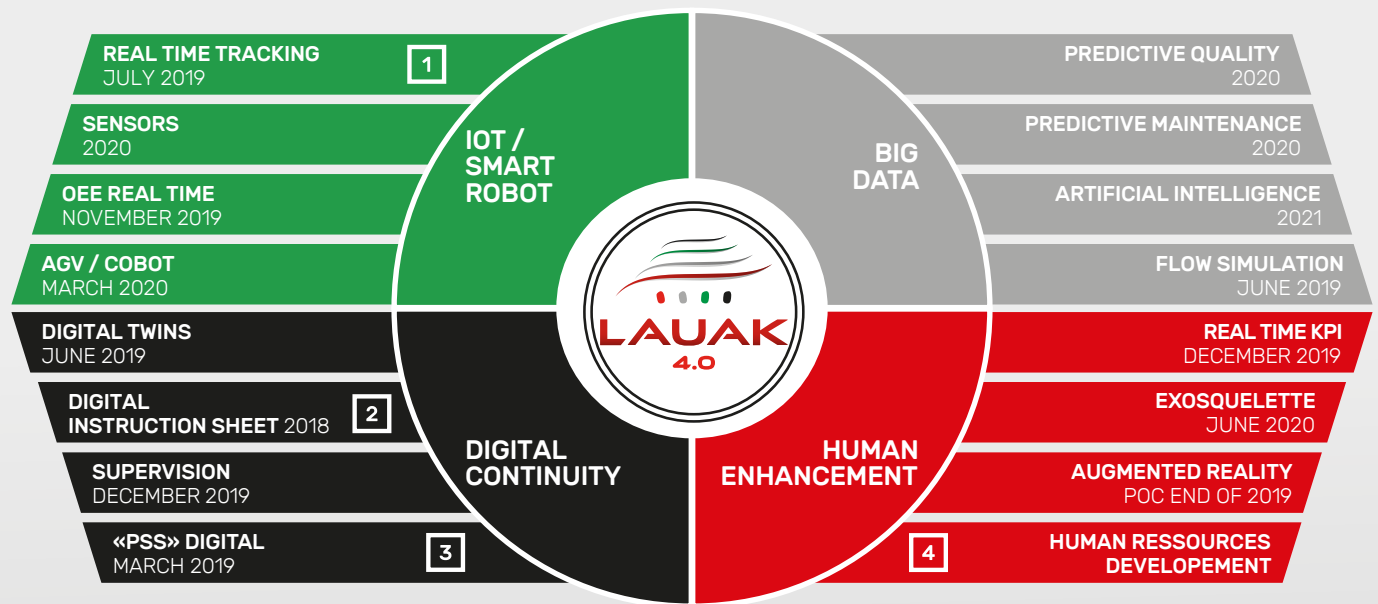
**SPIRIT**  
AEROSYSTEMS

**STELIA**  
RELIABILITY. PERFORMANCE.



To achieve excellence and improve our productivity and our competitiveness we have decided to develop our organization with the creation of a digital transformation center around the project LAUAK 4.0.

## WE HAVE LAUNCHED 4 MAJOR AND DECISIVE PROJECTS :



1

### REAL TIME TRACKING OF WORK ORDERS (WO) USING CONNECTED BOXES

- Localization by area
- Interfaced with the scheduling lines in the plant
- LED identification



2

### DIGITAL INSTRUCTION SHEET

- Digital continuity
- Real-time monitoring configuration management
- Implementation of Poka-yoke



3

### DIGITAL «PSS» (PROBLEM SOLVING SYSTEM)

- Real-time KPIs
- Proactivity
- Performance management



4

### HUMAN RESSOURCES DEVELOPEMENT

- Creation of autonomous production units
- Training and skills promotion
- Talent management



# INNOVATION

## LAUAK, YOUR PARTNER FOR INNOVATION

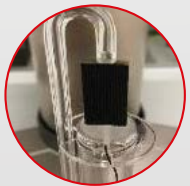
Innovating at LAUAK means imagining and developing the products, the technologies and the processes of tomorrow, in order to maintain our industrial excellence.



10 PATENTS

3 ONGOING THESIS

## MATERIALS



TRIALS AND CHARACTERISING



NEW MATERIAL DEVELOPMENT

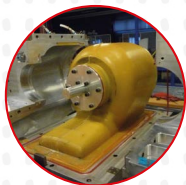


LABORATORY, CLEAN ROOM ACTIVITIES

## PROCESSES



PROCESS AUTOMATISATION AND SPECIAL MACHINES



HIGH PERFORMING COMPOSITES (HIGH TEMPERATURE RESISTANCE, THERMOPLASTICS)

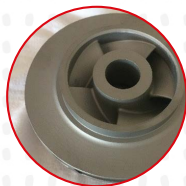


HOT FORMING AND SUPERPLASTIC FORMING

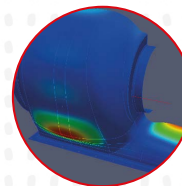
## PRODUCTS



DEVELOPMENT OF COMPLEX PARTS AND ASSEMBLIES



PROTOTYPINGS AND DEMONSTRATORS (COMPOSITES / METALLIC)



SIMULATIONS, STUDIES, INDUSTRIALIZATIONS

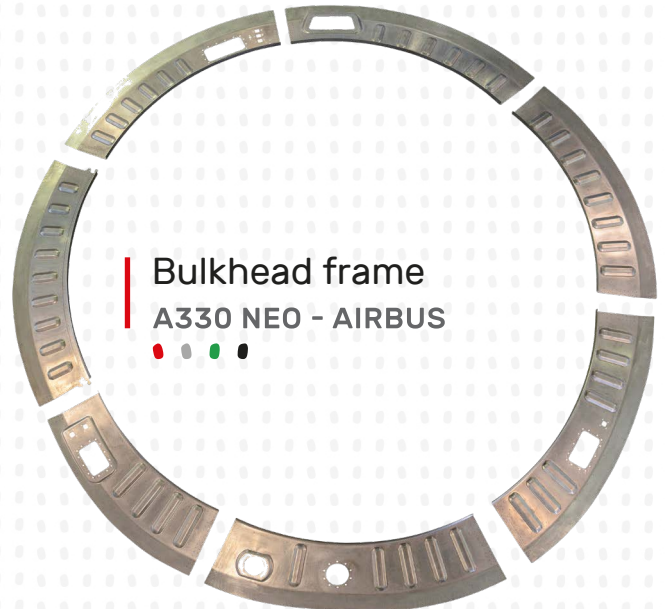


# SHEET METAL

## COLD FORMING, HARD METALS



Tail Cone  
LEGACY EMBRAER



Bulkhead frame  
A330 NEO - AIRBUS



APF assembly  
A380 - AIRBUS

## ALUMINUM SUB-ASSEMBLIES



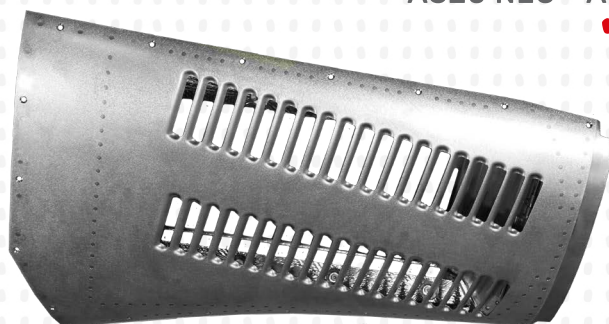
Main control panel  
Central pedestral  
A350 - COMPOSITE INDUSTRIE



## HARD METAL HOT FORMING



Heat exchanger cover  
A320 NEO - AIRBUS



Waste water service  
panel

A350 - AIRBUS



Skin upper assy  
A320 NEO - AIRBUS



Exhaust duct precooler  
G280 - IAI







# MACHINING

## HARD METAL MACHINING



Rib 5  
A320 NEO - AIRBUS



Lateral panel  
A320 - AIRBUS



Rib 5  
E2 170/190 - EMBRAER



Rib 8 et 9  
A350 - AIRBUS



## HARD METAL TURNING



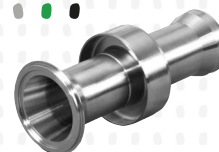
Upper Flange  
Lower Flange  
LEAP 1 B - SAFRAN AIRCRAFT ENGINES



Body actuator  
A320 - AIRBUS



V Clamp NAI  
A350 - AIRBUS



## ALUMINUM MILLING

Track 6

FALCON F8X - DASSAULT AVIATION



Track 1

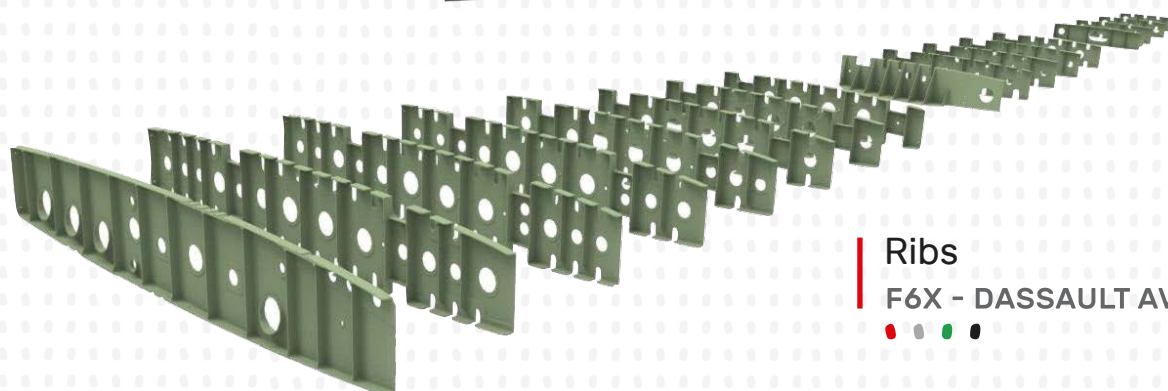
FALCON F8X - DASSAULT AVIATION



Aluminum  
forging frame

F900/F2000

DASSAULT AVIATION



Ribs

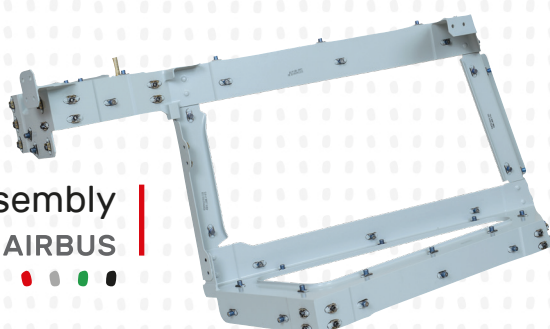
F6X - DASSAULT AVIATION



## ALUMINUM SUB-ASSEMBLIES

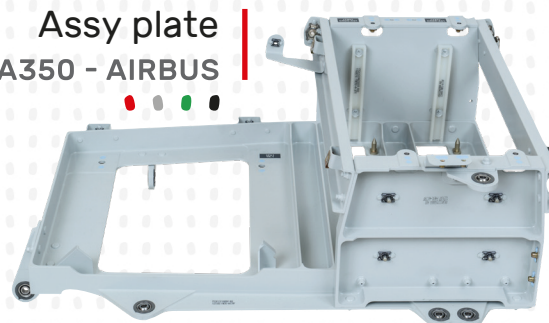
Rack assembly

A350 - AIRBUS



Assy plate

A350 - AIRBUS



Track 1

FALCON F8X - DASSAULT



Park plug  
box

A350 - PCC







# TUBES AND PIPES



Tube assy fuel refuel defuel  
GLOBAL 7500 - BOMBARDIER



Fitting assy fuel  
GLOBAL 7500 - BOMBARDIER



Wiring telescope 1 assy  
GLOBAL 7500 - BOMBARDIER



Tube assy fuel ventilation  
GLOBAL 7500 - BOMBARDIER



Handrail assy D D pass door  
CHALLENGER 350 - BOMBARDIER



Instl 3 tank & ejection fuel system  
CHALLENGER 350 - BOMBARDIER



Assy flange tube fuel system  
CHALLENGER 350 - BOMBARDIER







NACA inlet assy fuel  
CRJ 700-900 - BOMBARDIER



Tube assy welded fuel system  
CRJ 700-900 - BOMBARDIER



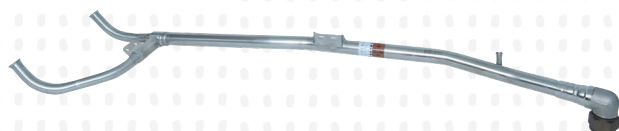
Fuel pipe  
A380 - STELIA



Ramp assembly  
A350 - STELIA



Welded pipe  
A330 - STELIA



Extinction pipes assembly  
A350 - STELIA



Wake pipe  
A320 - STELIA



NAI  
A350 - AIRBUS



NAI  
A320 - AIRBUS



Double piping  
A320 - AIRBUS





# MECHANICAL-WELDED

Outlet Diffuser

MAKILA 1  
SAFRAN HELICOPTER ENGINES



FT Distributor

ARRIEL  
SAFRAN HELICOPTER ENGINES



First Stage NGV

MAKILA 1  
SAFRAN HELICOPTER ENGINES



Combustion chamber

LARZAC  
SAFRAN AIRCRAFT ENGINES



Exhaust

ARDIDEN 3  
SAFRAN HELICOPTER ENGINES



Oil Casing

CFM56  
SAFRAN AIRCRAFT ENGINES



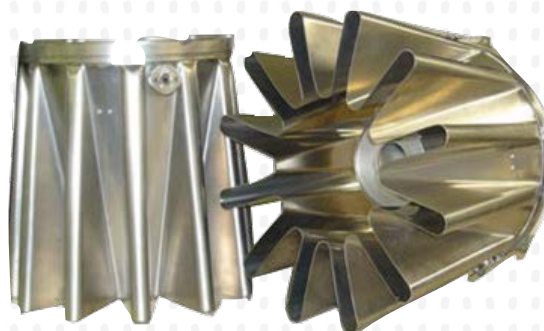
Static Seal

LEAP 1B  
SAFRAN AIRCRAFT ENGINES





Exhaust Collector  
TIGRE - AIRBUS HELICOPTERS



Exhaust  
ECUREUIL  
AIRBUS HELICOPTERS



Humidifier

F7X - LIEBHERR AEROSPACE



Precooler inlet and outlet  
A320 - LIEBHERR AEROSPACE



TRV panel

LEAP 1B  
SAFRAN AIRCRAFT ENGINES



Housing seal  
LEAP 1B  
SAFRAN AIRCRAFT ENGINES







# ASSEMBLY

Central section  
ECUREUIL - DAHER



Fixed slat  
F6X - DASSAULT AVIATION



Sponson  
A400 M - DAHER



Cargo door  
A320 - STELIA





Wing  
TBM - DAHER



Section T3  
F900 - F2000  
DASSAULT AVIATION



Fuel tank  
F8X - DASSAULT AVIATION

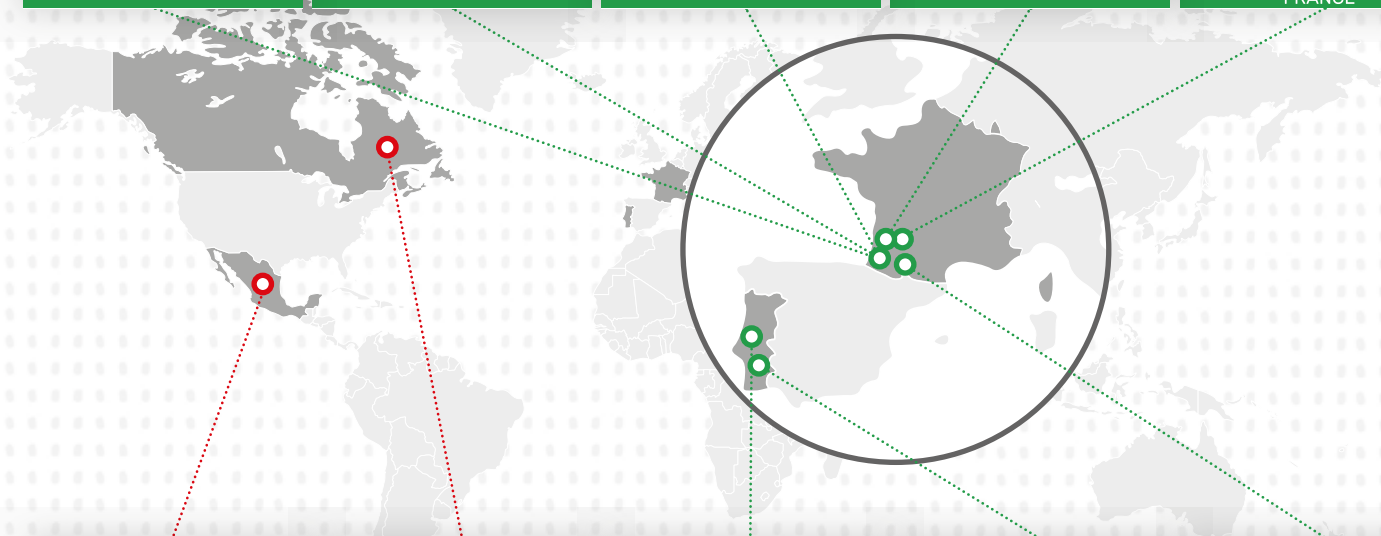


Fuel tank  
G280 - IAI





# OUR FACILITIES



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