THE ENGINEERING COMPANY TO TRUST ON

Image: NASA

AERONAUTICS

Jan 2024

ABOUT COMET

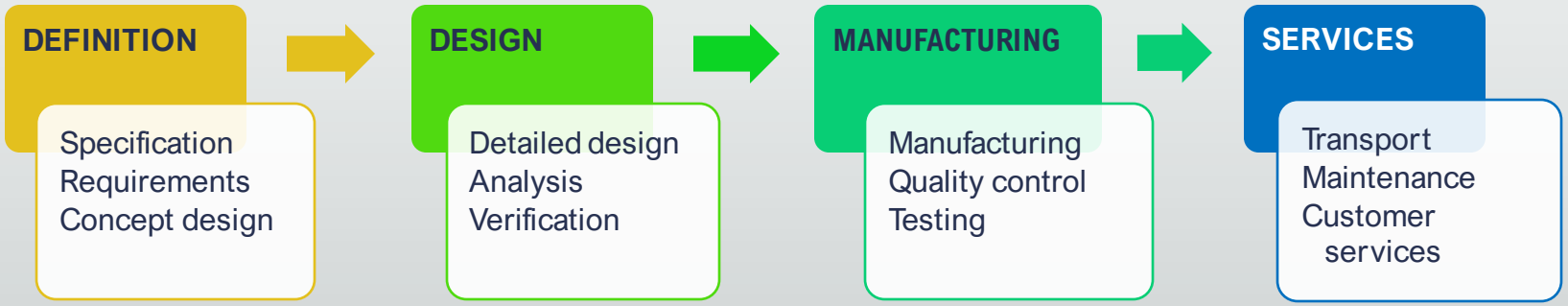
AN OVERVIEW

- Global engineering services focused on the development of innovative products.
- Manufacturing of *ad hoc* components: metallic, composites, etc.
- Founded in 2007 / Staff: 30 technicians, 85% engineers.
- Revenues: 1,9 M€ (2022).

MISSION

- Provide solutions through research, development and application of the most advanced technologies.
- Become the reference technology suppliers for our clients.

THE PROCESS



ACTIVITY SECTORS

AERONAUTICS

AUTOMOTIVE

DEFENCE

INDUSTRY

NAVAL

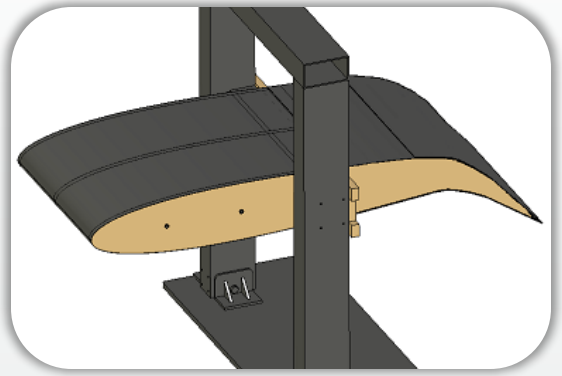
RAILWAYS

SPACE

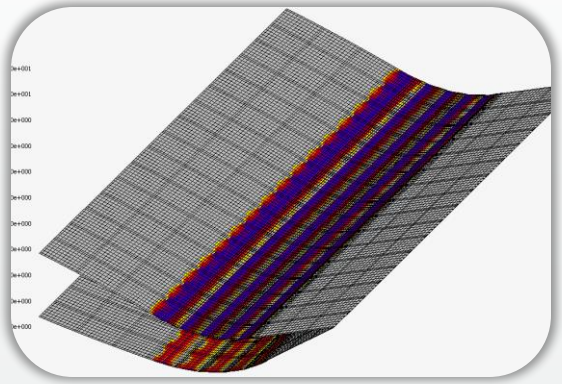
COMPETENCES

TURNKEY PROJECTS

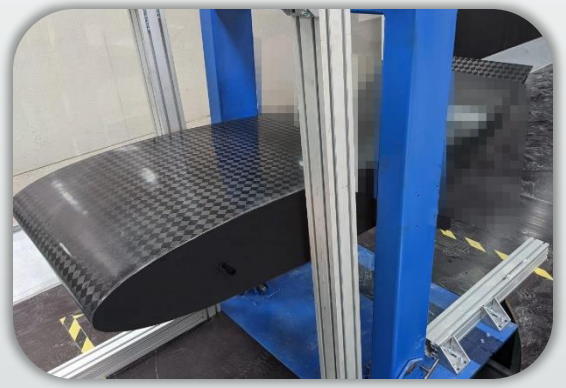
TECHNICAL ASSISTANCE



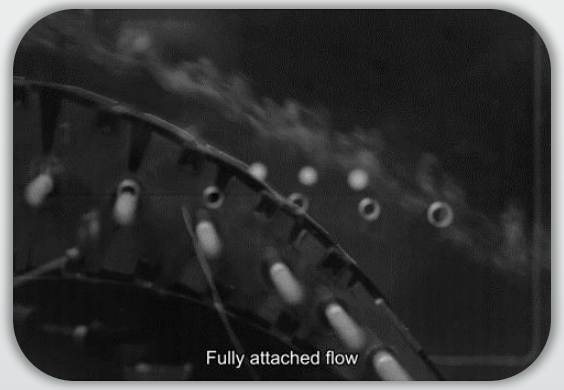
DESIGN



SIMULATION & ANALYSIS



MANUFACTURING



TESTING

AERONAUTICS EXPERTISE

MECHANICAL DESIGN

- Fuselage sections
- Wings
- Landing gear doors
- Elevators / Rudders / Ailerons
- Doors
- MGSE

ANALYSIS & SIMULATION

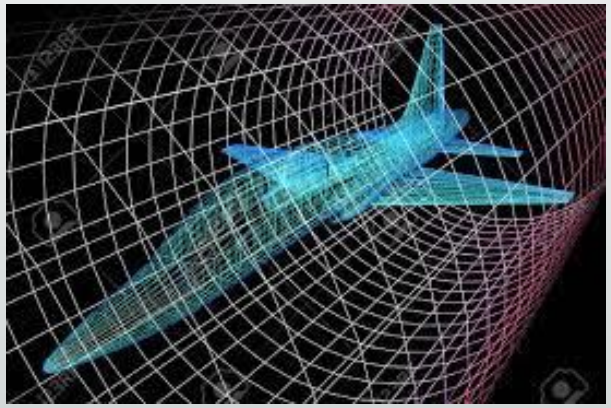
- Structural (Statics, Dynamics, F&DT)
- Thermal
- Acoustics
- Fluid dynamics (CFD)
- Mechanical systems

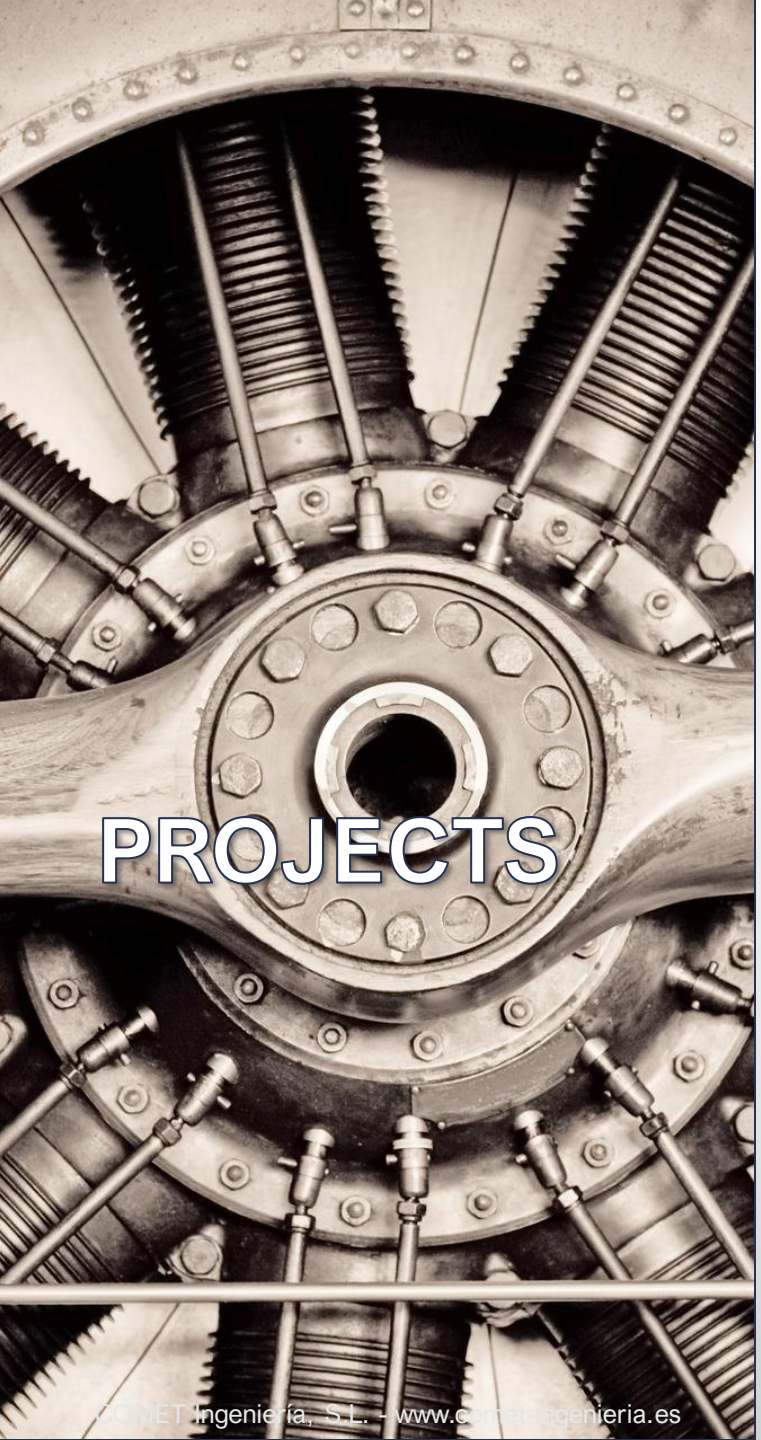
MANUFACTURING

- Prototypes
- Test samples
- Short series
- Tooling

R & D

- Morphing Structures





PROJECTS

AIRCRAFTS

- A318
- A340-500/600
- A380 / A380e
- A400M
- A350 SWB
- A330 MRTT
- C295W
- B747-8
- EMB 170
- EMB KC390
- BMB CRJ 900/1000
- CSeries

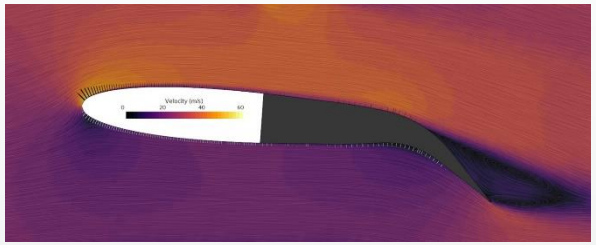
STRUCTURES

- Fuselage
  - Skin / frames
- Wing
  - Skin / Spars / Ribs
- HTP / VTP
  - Skin / Spars / Ribs
- Command & control
  - Rudder / Elevator
  - Aileron / Flaps
  - Skin / Spars / Ribs / Fittings
- Belly fairing
- Fan cowls
- Doors

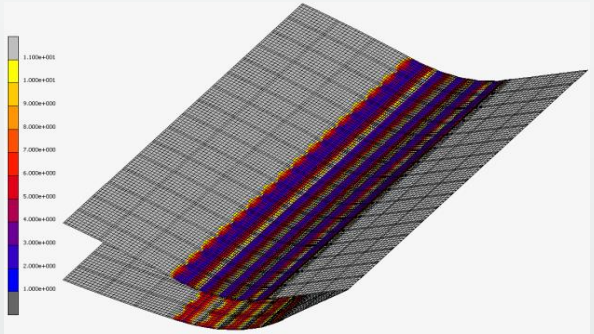
Product Development

In cooperation with Airbus.

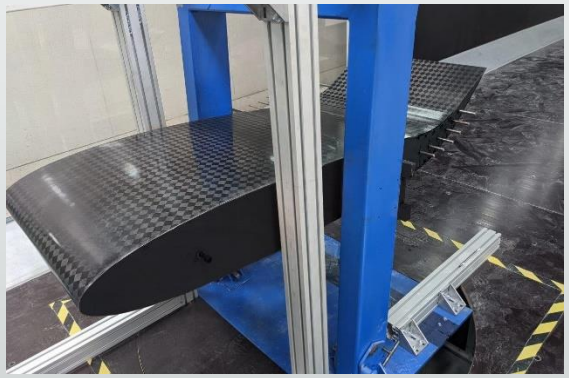
FLEXIBLE SKINS FOR MORPHING APPLICATIONS



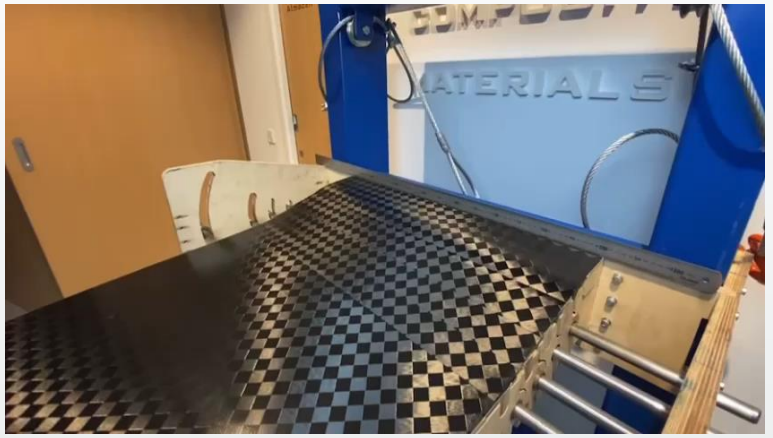
Fluid Dynamic design & analysis



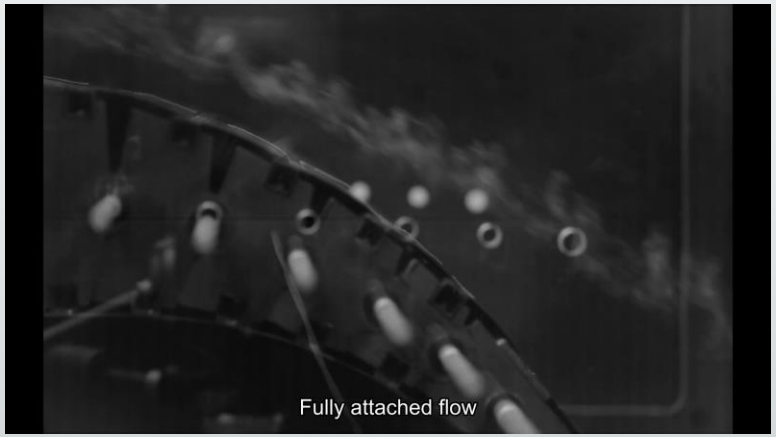
Non linear structural behaviour



Breadboard manufacturing



Manufactured Flexible LE skin

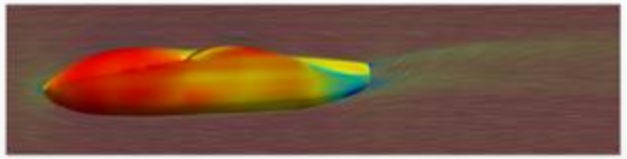


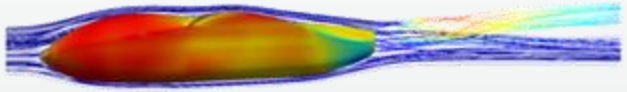
Wind tunnel testing

Product Development

In cooperation with IMS drones.

CFRP VTOL DRONES

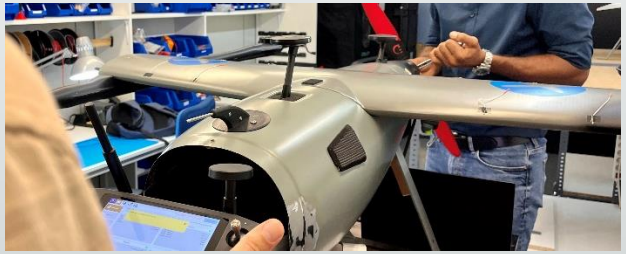




Fluid Dynamic design & analysis

Structure Design & Analysis

Flight test



Structure Manufacturing & Assembly

EASA APPROVALS

DOA EASA.21J.812

POA (in progress)

DOA / POA APPROVALS

2007

EN ISO 9001:2015

EN 9100:2018

2008

Mar. 2023

Part 21 Sub J DOA

EASA European Union Aviation Safety Agency


EASA

APPROVAL CERTIFICATE

EASA.21J.812

Pursuant to Regulations (EU) 2018/1139 and (EU) 748/2012 and subject to the conditions specified below, the Agency hereby certifies

COMET INGENIERÍA, S.L.

C/ CONVENTO CARMELITAS 2 ENT 2 3ª

VALÈNCIA 46010 - VALENCIA

SPAIN

as a DESIGN ORGANISATION

approved according to Part 21, Section A, Subpart J.

CONDITIONS:

AESA AGENCIA ESTATAL DE SEGURIDAD AÉREA

Part 21 Sub G POA

Mar. 2024

DOA / POA COMPETENCES

STRUCTURE

CABIN SAFETY

FLIGHT

FLIGHT (FL)

- Design review of (Approved Sections of) Flight Manual Supplements
- Weight and balance analysis
- Assessment of mechanical installations in cockpit
- Test plans and reports to demonstrate compliance with flight-related requirements

STRUCTURE (ST)

- Design review of installations of structures and mechanical systems
- Analysis: Static and dynamic justification
- Hazard assessment of mechanical installations in other locations than cockpit or cabin
- Test plans and reports to demonstrate compliance with structure-related requirements

CABIN SAFETY (CS)

- Hazard assessment of elements inside the cabin
- Test plans and reports to demonstrate compliance with cabin safety-related requirements

ICA

- Design review of (Approved sections of) Instructions for continued airworthiness


COMET
INGENIERÍA
INNOVATION IN PROGRESS