



THE SKY IS NOT THE LIMIT, IS THE BEGINING.

FREMEN

A E R O S P A C E

- 
- 02** Who We Are?
 - 03** Mission & Vision
 - 04** Why Us
 - 06** Manufacturing
 - 08** Part & Tool Design
 - 10** Assembly
 - 12** Surface Treatment and Paint
 - 14** Quality Control & Measurement



WHO WE ARE?

Fremen Aerospace offers unique solutions to the aerospace industry with its production infrastructure and continuous improvement principle. It works based on the principles of quality, safety and sustainability.

Our Mission

As Fremen Aerospace, we aim to provide innovative production solutions that meet the high quality and precision requirements of the aerospace industry and to provide our customers with reliable, durable and high-tech products by combining technology and expertise.

Our Vision

Fremen Aerospace's vision is to become a leading company that offers innovative and sustainable solutions that are globally preferred in the aerospace industry.



WHY US?

What Are We Doing?

- Aircraft and spacecraft bodyparts
 - Fasteners, supporting structures
 - Composite and metal machined parts
 - Prototype and low volume production
 - Precision machining, welding and surface treatment
- Fremen Aerospace offers traceable and optimized solutions tailored to customer needs.

What Do We Believe?

- That quality is not achieved through an abundance of resources, but through process intelligence and team discipline,
- That real engineering is the art of “**doing more with less**”,
- And most importantly: We believe that the sky is not the limit, but the beginning.

Quality & Trust

Quality is central to all our production processes. Our modern facilities, certified with **ISO9001**, **AS9100**, and **NADCAP**, ensure production according to the highest international standards. Every part we produce is designed and tested to be durable, lightweight, and maximally safe.



MANUFACTURING

3 and 5 Axis CNC Machining

Fremen Aerospace has a machine park consisting of state-of-the-art CNC machining centers equipped with high precision manufacturing capability. Our production processes are planned according to the principles of precision, speed and efficiency, and each of them is carried out with machines selected in accordance with sectoral needs.

Huron KX300

2000x5000 mm
12000 rpm, 86 kW power
Large size machining capability with HSK 100 gripper

Huron KX 50L

1250x3500 mm
20000 rpm high speed
Precision machining with Siemens Sinumerik control unit

Mazak Variaxis i800-Neo

650x800 mm
18000 rpm
High speed compact production capacity Mazak Variaxis i1050 (Ø1250 mm table) with HSK 63 gripper. High torque machining capability (350 Nm), large table diameter.

Etasis DL 3220

1100x3000 mm
12000 rpm, 242 Nm torque
HSK 100 holder, ideal for precision surface machining and roughing operations.



PART & TOOL DESIGN

Fremen Aerospace offers mold and holder (fixture) design and machining services for aerospace applications that require high precision. This auxiliary equipment, which directly affect production efficiency and part quality, are designed by our expert engineering team and machined on [state-of-the-art CNC machines](#).

Thanks to the [CAD/CAM](#) software we use and our [5-axis machining centers](#), [complex geometries](#) can be produced with high precision and every part is verified with post- production controls.

ASSEMBLY

We design our assembly operations to meet the complex integration needs of aerospace structures based on **precision, repeatability and structural integrity**. We provide strong, reliable and lightweight assembly solutions using both mechanical and structural bonding methods.

Our team is highly experienced in riveting, a mechanical joining method widely used in the aerospace industry. This method **ensures long-term durability and structural stability**. We also use structural bonding techniques to join composite or metallic parts without increasing weight, improving load distribution and increasing fatigue resistance.

All assembly operations are carried out in accordance with engineering requirements, process standards and customer demands. Aspects such as dimensional **accuracy, joint quality and surface cleanliness are checked at every stage**.





SURFACE TREATMENT & PAINT

Welding

With MIG (Metal Inert Gas) and TIG (Tungsten Inert Gas) welding techniques in our production line, we realize joints that provide both structural strength and aesthetic integrity. All welding processes are carried out in accordance with established procedures, technical specifications and industry standards (ASME, AWS, etc.). Traceability and quality assurance systems are in place throughout the process and every stage of production is recorded.

Surface Treatment & Paint

The applied paint systems protect the parts against corrosion while providing aesthetic appearance and operational durability. Thanks to our trained personnel and controlled process management, every part is delivered in full compliance with customer specifications and industry regulations.



Our measurement infrastructure includes a HexagonCM (Coordinate Measuring Machine) and ScanTrack scanning device, enabling complex geometries to be measured with high accuracy. We also utilize Laser Tracer technology for positioning and measurement of large volume and precision parts. These systems enable us to measure with micron-level precision, ensuring traceability and consistency in the production process.

QUALITY CONTROL & MEASUREMENT



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