

Space planes
Launchers
Satellites
Transversal competencies



Dassault Aviation is a French aerospace company that shapes the future by designing, building and supporting military aircraft, business jets and space systems.

Thanks to its strong know-how and technical excellence in aerospace, the Company is leader on the New Generation Fighter (NGF), designer and builder of Rafale multirole fighter, special mission Falcons, Neuron and of high-end Falcon family of business jets.

The Company also designs and manufactures pyrotechnics devices and systems.

COMPETENCIES & CAPABILITIES

Competences

Integration of complex systems, Artificial Intelligence with Man-in-the-loop
Digital flight control systems
Hypersonic, Aerodynamics, Computational Fluid Dynamics, and Aerothermodynamics, Aircraft performance and Stealth
Pyrotechnics equipment / systems for launchers, satellites and balloons
Telemetry

Capabilities

Aircraft / Aero structures assembly and manufacturing
Aircraft systems integration
Flights tests and Certification
Aircraft completion, MRO
Simulation and Virtual reality



DASSAULT AVIATION

PRODUCTS & SERVICES

Over 10,000 military and civil aircraft delivered in more than 90 countries over the last century. 3100 aircraft still in service

Military aircraft: Mirage, Rafale, NGF project

UCAV: nEUROn, MALE project

Special mission aircraft: ATL2, Falcon 2000 Maritime multi-role aircraft

Business Jets: Falcon family

Space as an extension of aeronautical skills:

- Participation to IXV and Space Rider programmes (Design of shape, Aerodynamics and Aerothermodynamics computations)
- Pyrotechnics systems and devices for launchers (engine ignition, stage and payload fairing separation), satellites / Space probes (ejection, deployment of solar panels and antennas, apogee motor ignition, and unlocking of mechanisms) and balloons
- Telemetry: for ground stations for Ariane, Vega and Soyuz launchers.

MAJOR SPACE PROJECTS & REFERENCES

Ariane family (1 to 5) (ArianeGroup, RUAG): Pyrotechnics devices

VEGA launchers (AVIO / RUAG / CASA): Pyrotechnics devices

ATLAS launchers (RUAG): Pyro kits for fairing

Cassini-Huygens, Rosetta probes (CNES): Pyrotechnics devices

Hermès European Space Shuttle (ESA): design of shape, prime for aeronautics

Intermediate eXperimental Vehicle - IXV (ESA): design of aero shape, aerodynamics, aerothermodynamics,

Space Rider (ESA): aerodynamics, aerothermodynamics,

EVEREST, FLEX, Bargouzine (CNES): reusable launcher projects

Suborbital Vehicles (VEHRA Family – Internal projects): Reusable space transportation system

MLA (CNES) and **DANEO**: Design of airborne system based on Rafale or Falcon 2000 carrier for reactive launches

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TURNOVER 4,400 M€

WORK FORCE 9,000

SPACE TURNOVER 12 M€

SPACE WORK FORCE 100