

Balloons
Transversal competencies



CNIM Air Space (formerly Airstar Aerospace) is a manufacturer of aerostats and flexible structures in all shapes and altitudes.

Relying on half a century of experience, CNIM Air Space designs and manufactures tethered balloons, stratospheric balloons, airships, thermal protections for satellites and leads tailor-made projects for its customers. The company is ISO 9001 certified and complies with aeronautical and space standards (EASA CS-31TGB, ECSS).

COMPETENCIES & CAPABILITIES

CNIM Air Space know-how is based on:

- innovative flexible materials engineering
- high technicality fabrics and films assembly
- mechanical modelling of large deformations
- equipped envelopes and flexible structures design
- development of aerostat equipment: embedded electronics and mechatronics, complex wires, mechanical mooring systems, telemetry reception, inflation station...
- payload integration: optronics, telecommunication, radar...
- providing and training of all operating and maintenance services on balloons.



MLI - multi-layer insulation



Stratospheric balloon

CNIM AIR SPACE

PRODUCTS & SERVICES

CNIM Air Space designs, manufactures and assembles custom-made:

- Stratospheric balloons
- Thermal protections for satellites (multi-layer insulation - MLI)
- Tethered aerostats
- Drone airships
- High performance, intelligent and communicating inflatable envelopes, through the combination of textiles and complex films materials
- and with the integration of embedded technologies (sensors, communications systems, etc.)
- Tethered, autonomous and manned flight aerostats subsystems including avionics (Balloon control system), gas management,
- integration of payload...
- Any innovative aeronautical or space industrial application requiring the integration of technical textiles and films

MAJOR SPACE PROJECTS & REFERENCES

• AIRBUS • CNES • THALES • CNRS • ZERO 2 INFINITY • OHB • SSC • METEO FRANCE • CEA • FRENCH MoD/DGA ...

The trust of major international accounts to innovate:

- CNES: design and production of the stratospheric balloons of the future.
- Stratobus™ program: CNIM Air Space acts as a senior equipment supplier to Thales Alenia Space for the fully-equipped envelope of Stratobus™ and its associated technologies: nose moored system, ventilation system, pressure control systems of the balloon, tail units...

POINT OF CONTACT

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TURNOVER €4m

WORK FORCE 50

SPACE TURNOVER €2,5m