



# stratospheric balloons

**HEMERIA designs and manufactures stratospheric balloons intended to carry scientific and technical missions up to 45 km into the stratosphere.**

💡 Low cost of access to the stratosphere

💡 Flight persistence for long term missions

💡 Large payload capacity

💡 Two ranges : Zero pressure & Pressurized stratospheric balloons

**European leader**  
55 years of heritage

long-time industrial partner of the CNES (French space agency)



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## Zero pressure stratospheric balloons

Altitude	Up to 45 km
Flight duration	A few hours up to several days
Payload	Up to 2 tons
Dimensions	Ø 60 up to 135 m (inflated) L. 88 up to 185 m (on the ground)



## Pressurized stratospheric balloons

Altitude	Up to 20 km
Flight duration	Several months
Payload	Up to 50 kg
Dimensions	11 and 13 m

*Standard range, other dimensions available on request*

## Innovative projects

### BalMan, the maneuvering stratospheric balloon

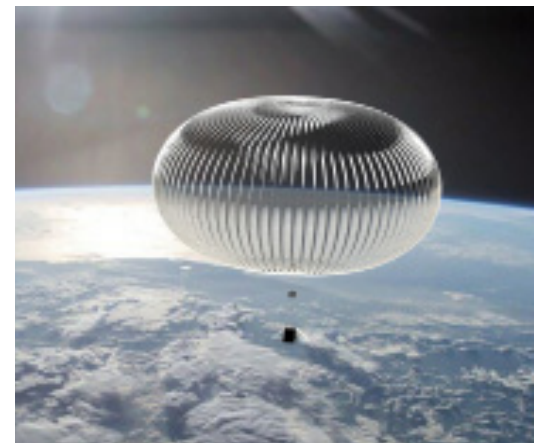
*(for CNES - French Space Agency)*

Within the framework of "France Relance", HEMERIA develops for the CNES an innovative stratospheric balloon: the maneuvering balloon.

This stratospheric balloon is able to pilot its trajectory in the stratosphere.

#### Benefits :

- A stratospheric balloon able to adjust its trajectory in the stratosphere
- Facilitate access to space at lower cost and environmental impact
- Flying over an area of interest for a longer time
- Reduction of logistical and operational constraints



### Envelopes of the Stratobus™ project

*(for Thales Alenia Space)*

Since 2015, HEMERIA has been working with Thales Alenia Space on the Stratobus™ program. Stratobus™ is a stratospheric airship, which is halfway between a drone and a satellite.

HEMERIA is involved in the design and manufacture of the airship's envelopes.

#### Benefits :

- Long-term flight: up to 1 year in the stratosphere
- Able to stay in stationary position

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