



# stratospheric balloons

**HEMERIA designs and manufactures stratospheric balloons intended to carry scientific, earth observation and connectivity missions up to 45 km into the stratosphere.**

Low cost of access to the stratosphere

Flight persistence for long term missions

Large payload capacity

Three ranges : zero pressure, pressurized and maneuvering 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*

## BalMan

HEMERIA develops an innovative stratospheric balloon: the maneuvering balloon. This stratospheric balloon is able to pilot its trajectory in the stratosphere for Earth observation and communication missions.

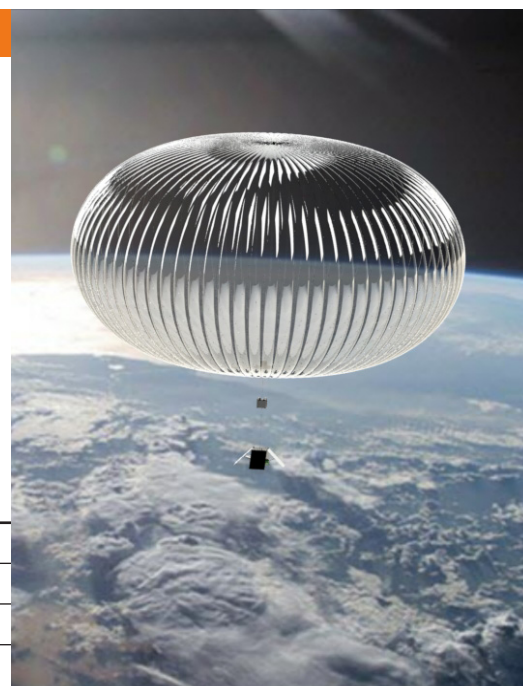
### Benefits :

- 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

### Main features:

- HAPS like maneuvering stratospheric balloon
- Persistent and permanent platform: both stationary and mobile flights
- Swarm flight capacity

Altitude	Between 16 and 22 km
Flight duration	Several months
Payload	Between 15 and 20 kg
Dimensions	Ø ≈ 20 m



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