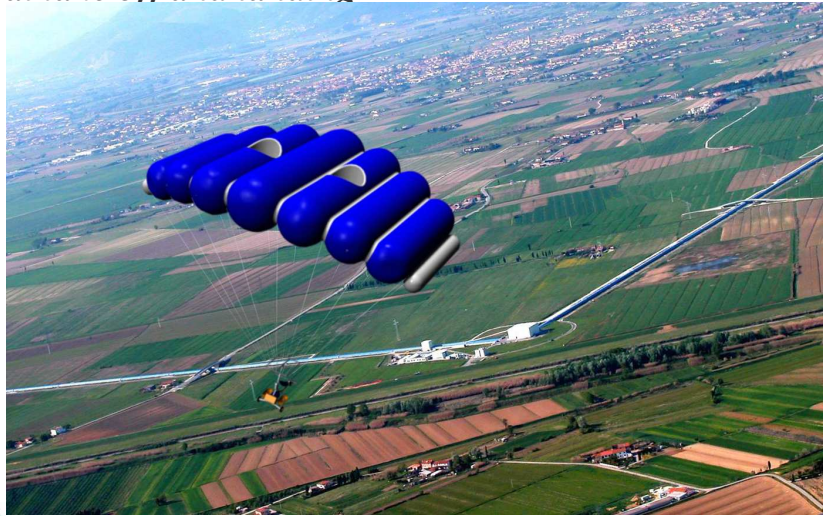


Présentation of HELION

Vertical take off and landing

For PUBLICITY
and leisure

publicity support



leisure flight



Storage position and security



Position stand by

DESCRIPTION of the HELION and the principles of design

HELION is a Ultra light hybrid aircraft, of motorized pendulum type.

It is constituted:

- Of a group of vertical propulsion, hung by means of an envelope filled with helium. It is in the shape of a canopy .
- Of a cockpit in pendulum position over a frame hung on a system of suspension-lines.

The volume of the envelope is defined according to the weight of the system of propulsion to be relieved so as to obtain always a positive flotation (lighter than air).

The cockpit, hung on the envelope by means of suspensions network, is of a weight superior to the static residual push of the envelope so as to constitute a machine heavier than the air.

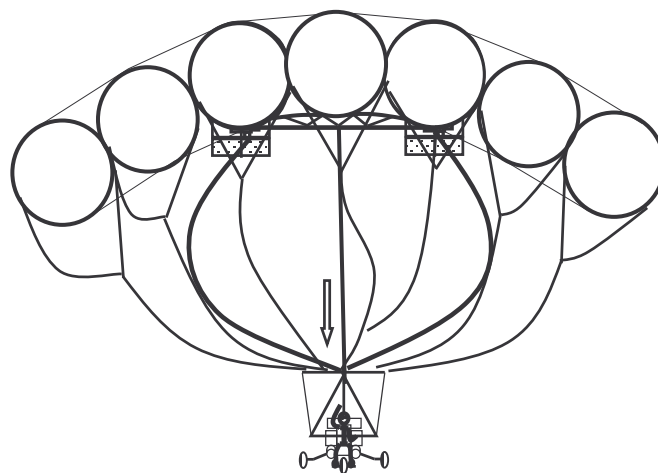
Innovation of this concept is found in the fact that a few power is required to take off since part of the push is generated by the helium envelope.

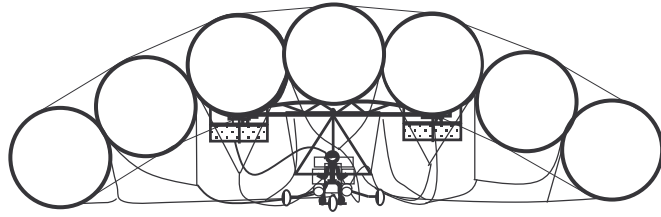
The pilote position as a pendulum garanty a good stability when taking off

Its sworing capability gives a maximum security.

Its original way of storage by lowering down its wing avoid protect it again climate hazards

See sketch below





Main advantages

Takeoff and vertical landing.

No assistance to the ground.

No landing field or infrastructure.

No anchoring The machine itself is near buoyancy.

Autonomy of movement, flexibility of operation and movement in all the directions even backward .

No additional ballast other than the one constituted by the cockpit itself.

Possibility of gliding flight.

Big safety in case of breakdown.

Possibility of transporting additional cargo load (depending on the push of propellers).

The easy storage in a ULM hangar or in wilderness (track, forest, etc.). Or on stretch of water (if floats).

Operational in a few minutes.

Secured in some minutes almost any where.

Dismantling and very easy transport. Can be put in container to be air-freighted.

Very basic technology with an easy and unspecialized maintenance.

Possible take off and landing on rivers, ponds, sea (if ball cocks are installed).

Very low investment cost and very low running cost, especially compared with the operating cost of helicopter.

More on www.helionproject-user.fr