VENTURI SPACE



MEDIA KIT

WE'RE HARNESSING OUR EXPERTISE FOR SPACE RESEARCH, WHERE EXCELLENCE IS SIMPLY THE STANDARD.

| Gildo Pastor, President of Venturi Space and Venturi |

After two decades of innovation in terrestrial electric vehicles, Venturi's President Gildo Pastor has repositioned the firm in the space sector, aiming to forge new collaborations with NASA and ESA.

Venturi Astrolab, Inc. Its strategic partner, Venturi Space, is in charge of designing and manufacturing the hyper-deformable wheels (in Switzerland),









FLIP

2026 with Venturi Astrolab, Inc. and Astrobotic

FLIP (Flex Lunar Innovation Platform)

Astrobotic's Griffin lander will deliver, with the SpaceX's Falcon Heavy rocket, Venturi Astrolab's FLIP rover to the South Pole of the Moon as part of Astrobotic's Griffin Mission One (Griffin-1) scheduled for delivery in 2026.

As a strategic partner, Venturi Space plays a critical role in this mission in the development of FLIP. We design and manufacture the rover's hyper-deformable wheels and high-performance batteries, ensuring optimal mobility and power supply in the Moon's extreme environment.

Why design another rover?

FLIP, also designed by <u>Sacha Lakic</u>, is structured to respond to the growing number of institutional, businesses and scientific organizations in the U.S. and European markets, that are seeking access to the Moon for smaller payloads.







MONA LUNA

Designed and tailored for ESA and CNES

A project led by Venturi Space France

Venturi Space France will oversee MONA LUNA's development and space qualification from its base in Toulouse, coordinating every aspect of the process: onboard electronics, avionics, space-to-ground links, energy management systems, assembly, final integration, and acceptance testing in readiness for space flight.

All with one clear objective: to deploy MONA LUNA at the Moon's South Pole by 2030.

Using technology made in Europe

MONA LUNA is designed to be carried into space by the Ariane 6.4 launch system and landed on the Moon's surface by the European Argonaut lunar lander, while the rover itself will be equipped with a robotic arm to handle scientific instruments and payloads.









From the Moon to Mars

Building on the experience gained with Venturi Astrolab's FLEX lunar rover and in response to the US decision to advance Mars exploration missions, we have taken the initiative to design and build a versatile Mars rover.

Leveraging the foundation of the FLEX rover, we have adapted its technologies and instruments to deliver comprehensive services on Mars, targeting both private and public institutions.

This rover will be fully autonomous during its future missions while remaining capable of remote control.

Its primary mission will be to detect and extract water using an integrated drill and probe.

The mission has two main goals:

- Split water into oxygen and hydrogen
- Combine this water with the carbon dioxide in the Martian atmosphere to produce oxygen and methane, enabling spacecraft refueling



WHEELS

WHY has Venturi Space reinvented the wheel?

Advanced technology wheels exist, but the engineers, chemists and physicists at Venturi Space Switzerland have designed a unique, hyper-deformable lunar wheel. Why develop this breakthrough technology based on unique materials?

TO ACCOMMODATE

numerous significant challenges.

Solutions used on vehicles for the Apollo lunar mission and Curiosity Mars rover are not suitable, nor are terrestrial pneumatic tyres.

HOW has Venturi reinvented the wheel?

To achieve this breakthrough, as important as the invention of the rubber, and later pneumatic rimmed tyre in the 19th century, the Swiss teams of Dr. Antonio Delfino developed a system that required the invention of new materials.





WHEEL CHALLE

Works without at

ouncture proof

ladiation resistar

Supports a weigh

Works in tempera

Durable for over

FLEX 2027 >	Apollo LRV MISSIONS 1971 > 1972	Curiosity 2011 >	TERRESTRIAL TYRE
~	\checkmark	\checkmark	×
✓	 	✓	×
✓	 ✓ 	 	×
✓	×	×	✓
✓	×	×	×
 	×	×	\checkmark
		2027 > MISSIONS	2027 > MISSIONS 2011 >

BATTERIES

Venturi Space batteries are designed to withstand the extreme temperatures and intense solar radiation at the lunar south pole.

CELL TESTING

cells (10,000 for FLEX and 7,000 for FLIP): 80% will be used.

TEMPERATURE RESISTANCE: -240°C

temperature variation close to 400°C (from -240°C up to +130°C).

OVERCHARGE PROTECTION: 4,2V

charge interruption device is triggered.



EXTERNAL SHORT CIRCUIT **PROTECTION: OV**

BATTERY PACKS

Each rover is equipped with battery packs: **4** for the **FLEX**

FLEX









AN ORIGIN Unveiled at

"Équilibre" is a manifesto-sculpture — a suspended moment between gravity and ascension, between the conquest of space and our connection to humanity.

The vehicle, inspired by Venturi Space's lunar mobility design, no longer rests on its four wheels: it defies earthly logic. Its balance relies on a single point of contact — the left rear wheel — set upon a metallic base that evokes the rippling imprint of an impact on liquid. Though solid, this base symbolises the fragility of our bond with planet Earth.

At the opposite end, a cosmonaut clings to the front right wheel, his legs reaching skyward. He appears to be gently resisting the forces pulling him — not towards the Moon, but to an unnamed elsewhere. His body floats, yet his spirit remains tethered to what he is leaving behind.

Crafted entirely in satin-finished aluminium, the piece plays with light, tension, and disorientation.

- ÉQUILIBRE -

AN ORIGINAL CREATION BY SACHA LAKIC FOR VENTURI SPACE

Unveiled at the 55th edition of the International Paris Air and Space Show

It does not depict a technical scene or a futuristic tableau, but rather a metaphor for our times — torn between escaping into the unknown and the urgent need to restore balance here.

"Équilibre" captures that fleeting moment where everything could still tip - or fall into harmony.

> This is not a work about technology. This is not a work about conquest. It is a work about the necessity of keeping our humanity in motion.

LUNAR MOBILITY BY VENTURI SPACE: EXCELLENCE TIMES INFINITY.

In

VENTURI

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