



beyond gravity

Realizing what's next.

This Is **Beyond Gravity.**

07.05.2026 | Francesco Fainello

Switzerland – Where it started

beyond gravity

1966: Contraves develops the first satellite structure for Europe



ESRO-1:

- Beyond Gravity was one of the **three core team companies** developing the first **European satellite** for “European Space Research Organization” (ESRO).
- The mission of the two ESRO-1 satellites was to study the effects of solar activity on auroral zones.



Swiss Space Technology

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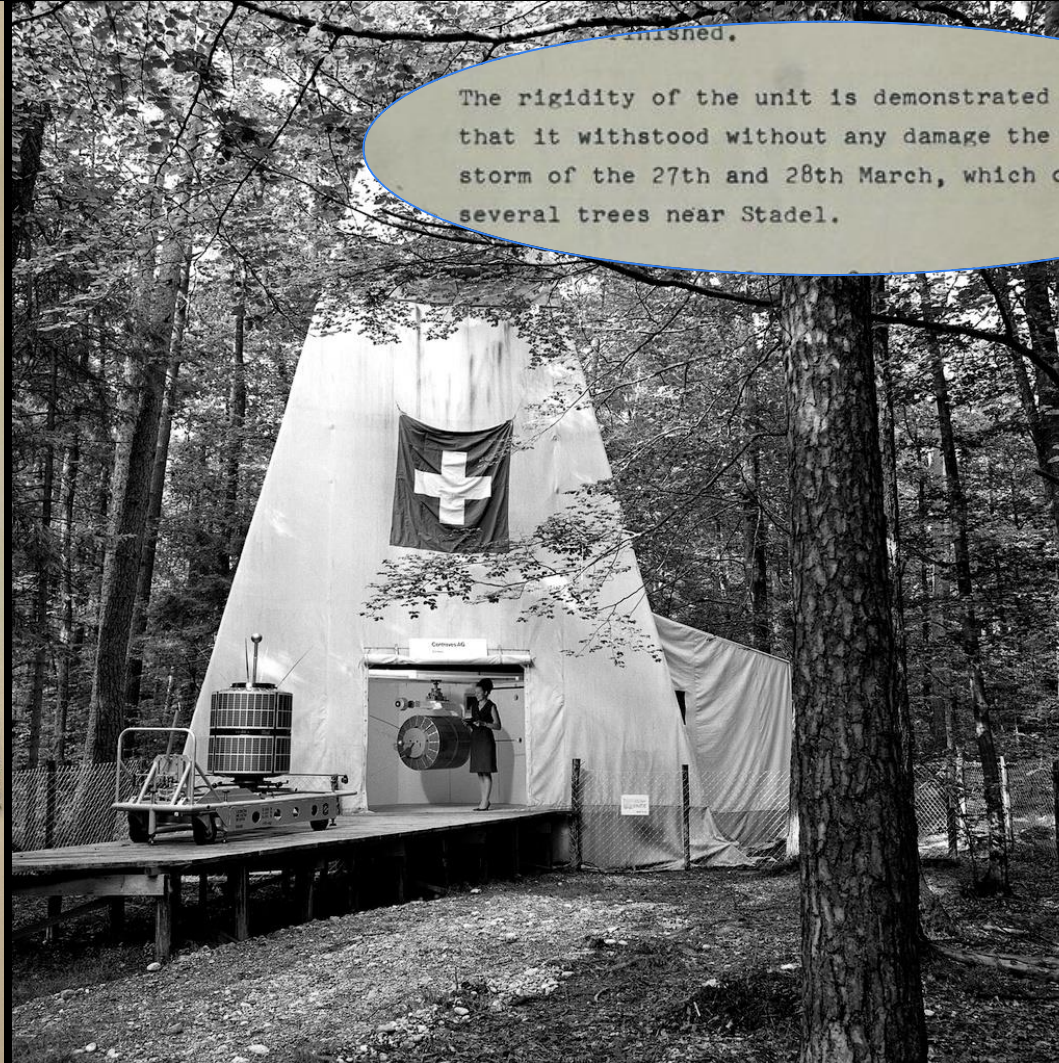
1966: Magnetic Stabilization Test in the forest near Zürich



Fig. 3.3 - 2

Magnetic stabilization test unit MSTU
(Test and foam-housing opened to show
structural Model)

(Photo Nr. 26603-92)



The rigidity of the unit is demonstrated by the fact that it withstood without any damage the violent storm of the 27th and 28th March, which overturned several trees near Stadel.

2.2. Magnetic Stabilisation Test Unit MSTU

Last details of the MSTU complex, like a few works inside, the access ramp and approach finished.

The rigidity of the unit is demonstrated by the fact that it withstood without any damage the violent storm of the 27th and 28th March, which overturned several trees near Stadel.

The mechanical stiffness of the suspension wire is higher than the proposed value of the final report. The calculated value at that time was based on the use of Nivaflex special alloy with very extreme characteristics and a wire length of 7.2 m (now 6.77 m). Troubles at the end of the assembling period with the delicate Nivaflex wire led us to choose a common high tensile wire with a much higher G-module. Nevertheless, the used wire is enough sensitive to allow the proposed measurements.

The following main data were established during the calibration of the MSTU (see paragraph 3.3.3.3).

Torsional spring constant of suspension wire	0.3562×10^{-3}	m. N/rd
Moment of inertia of support frame (suspended in central position)	8.51	kg.m ²
Total mass of support frame	48.3	kg

The MSTU is illustrated in Fig. 3.3.-2.

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2026: Beyond Gravity today is a global acting Space company



- Seebach 2026: Technology center with a worldwide reputation for fairing technology, satellite structures, and mechanisms



Beyond Gravity at a glance

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Key Facts:

More than **50**
years of experience



100 %
mission success

1270
successful separations



1800
employees* worldwide



CHF 359m
net sales in 2024



R&D spending **12.7m**
CHF in 2024

Products on **> 1000**
payloads delivered to space



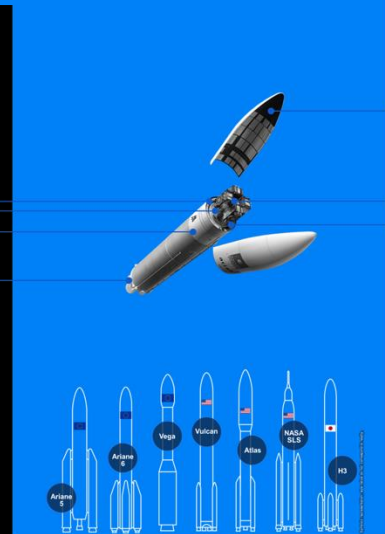
* includes employees for support functions.

Our Global footprint:



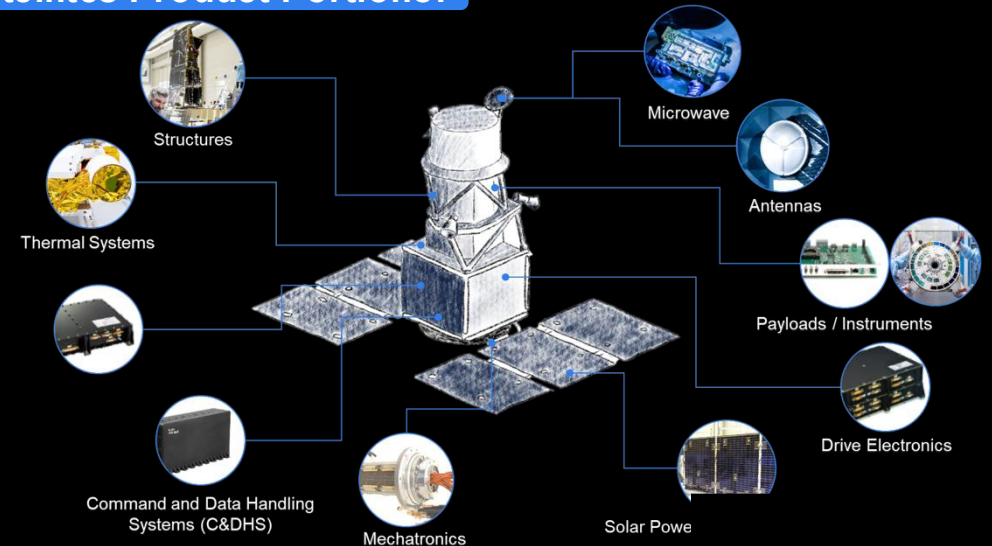
Launchers Product Portfolio:

Launcher computers
Separation systems
1000+
successful separations!
Interstage adapters
Heat shields



Payload fairings
Dispensers
S19 guidance systems

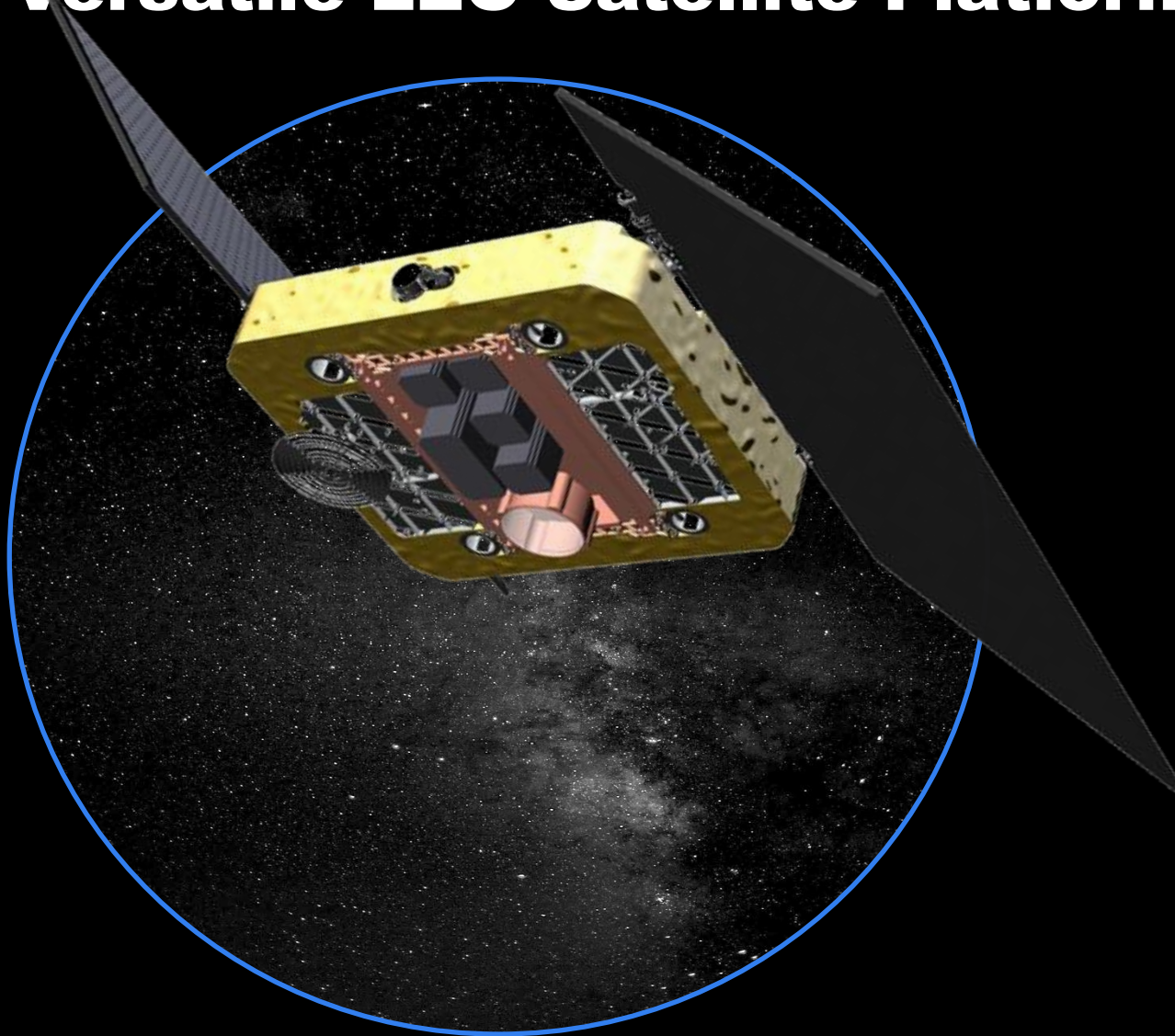
Satellites Product Portfolio:



The next move: The MPP

Versatile LEO Satellite Platform

beyond gravity



- **Slim design optimized for LEO**
- **Payload agnostic**
- **Scalable for power and mass**

Ongoing development and opportunities:

- **System engineering**
- **Payloads**
- **On-board software**
- **Digital twin**

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Let's go together

...where we have never been before.



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