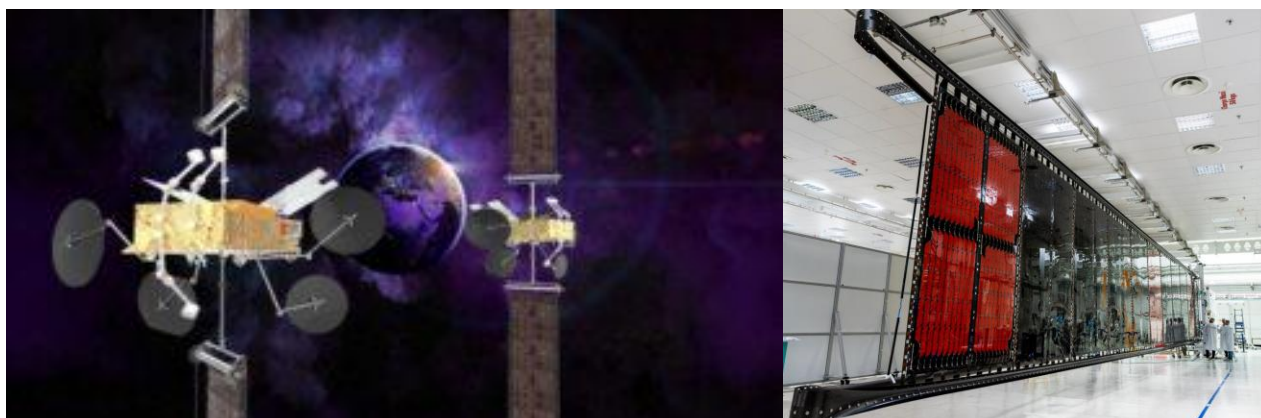


Mechanical Subsystems



Mechanical Subsystems

- Design, manufacturing and testing capability
- Zero-G deployment testing capability
- GSEs for integration and testing

Flexible solar array mechanical subsystem

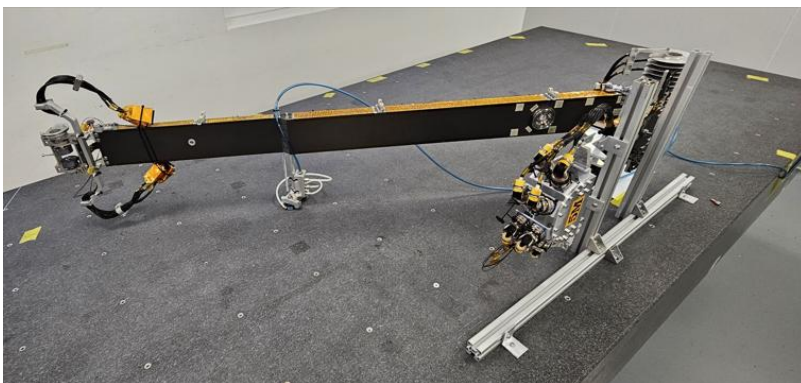
- Cooperation with TAS-F – responsible for detailed design, manufacturing and testing
- Hinged yoke
- Hold down release mechanisms
- Rolled flexible structure assembly
- Flexible deployable structure



Deployed Flexible solar array sub-system



Equipped hinged yoke



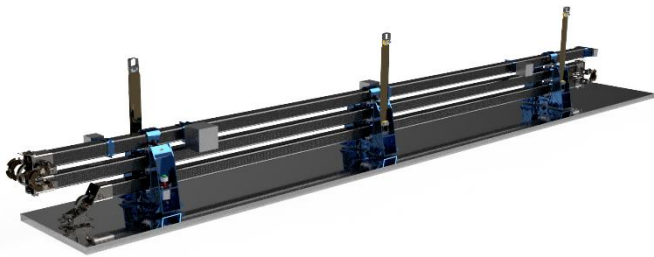
Yoke deployment



Stowed Rolled flexible structure assembly

Antennas and booms

- Composite Juice Mag Boom based on SMA (shape memory alloy)
- Antennas



Juice Mag Boom in stowed position



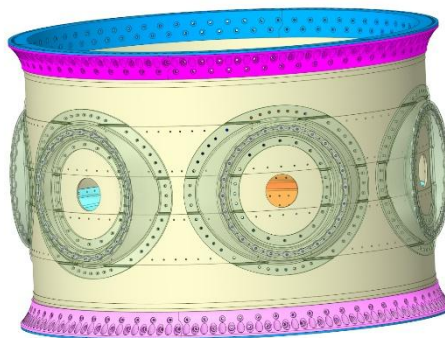
Juice Mag Boom deployment

Dispensers

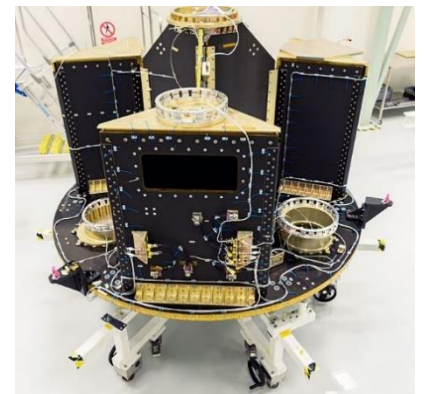
- Full composite dispenser structures for rideshare missions
- Tubular dispenser suitable for 1 MPL (up to 4500 kg) and 6 SPLs (up to 400 kg), or scaled down version with lower height for 8 small satellites
- Compatible with standard separation systems and small satellites dividers (can fit up to 36 small satellites)
- Lighter thermoplastic variant suitable for new space available in future
- Cooperation with SAB Aerospace on VEGA SSMS (Small Spacecraft Mission Service)



Rideshare configurations



Multi-launch system dispenser



VEGA SSMS dispenser

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References



Presentation



5M Space video

