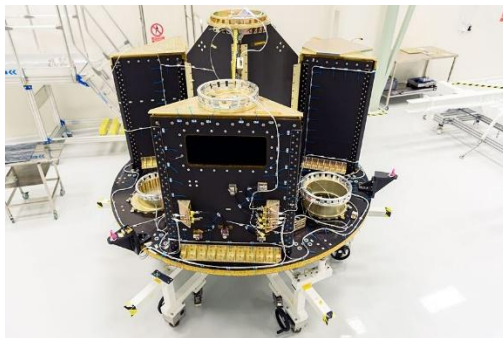


Space Structures



Structures - sandwiches

- PLATO Service Module (SM) Panels (2020-2023)
 - Qualification of new prepreg for CFRP production process and measurement of allowables
 - SM CFRP panel production and testing
 - 5M prime contractor for ESA
- ROSE-L Secondary Structure Sandwich Panels (from 2023)
 - 5M is sub-contractor for SAB Aerospace and TAS-I
 - Delta qualification campaign
 - CFRP panel production and testing
- VEGA Dispenser (from 2015)
 - Qualification of 5M CFRP production process for manufacturing of Dispenser structure
 - Qualification of Tower Modul
 - Preparation for serial production of Dispenser CFRP panels
 - Contractor: SAB Aerospace Italy



VEGA Dispenser panel assembly



PLATO Service Module panel assembly



ROSE-L secondary structure panel assembly

Structures - tubes

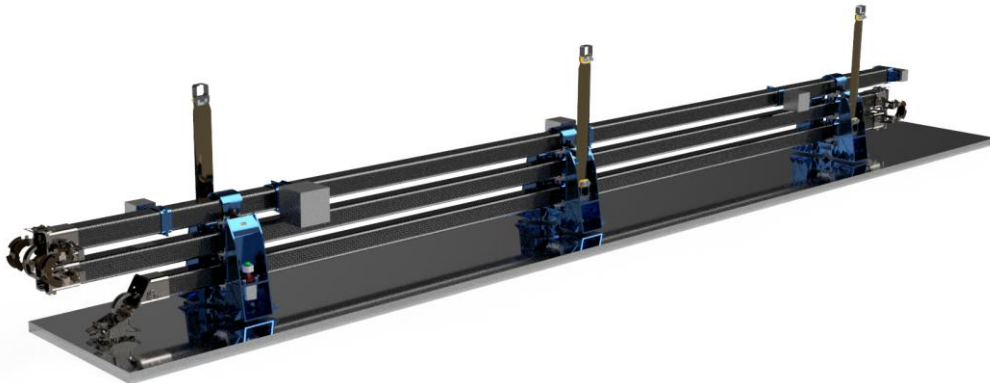
- COMPOSITE TECHNOLOGY FOR ARIANE 6 MLS STRUCTURE (9/2023-now)
 - Design, manufacturing and qualification of cylindrical structure for Ariane 6 dispenser (Ariane 6 “Multi-Launch Service”)
 - 5M prime for ESA, Sub-contractors: LK Engineering, VZLU Prague



Ariane 6 Dispenser

Structures - profiles

- 5M Composite Technology Evaluation (2013-2014)
 - Qualification of 5M composite technology for space applications (Pultrusion, LF Technology)
 - Prime contractor: TAS-F
- Critical Review and Assessment on CFRP and Polymeric Material Usage for Crew Compartments and Manned Transport Systems (2017-2019)
 - 5M role is production and testing CFRP profiles made by pultrusion
 - Prime contractor: TAS-I
- Design and Qualification of Mag Boom for Juice Magnetometer Experiment (2015-2021)
 - 5M role is qualification of structural pull-winded profile for Mag Boom at JUICE mission
 - Prime contractor: Frentech, Czech Republic



Mag Boom for Juice Magnetometer Experiment

Contact

5M s.r.o.
Na Záhonech 1177
686 04 Kunovice
Czech Republic

tel. +420 770 178 769
e-mail: 5M@5M.cz
www.5M.cz



References



Presentation



5M Space video

