

NEW SPACE APPROACH FOR MECHANICAL GROUND SYSTEMS

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Based on a strong heritage in the field of Ground Facilities and Services, MT Aerospace AG is now using its extensive knowledge to master the challenges of the New Space approach within the space industry. Its strategic positioning in the CSG (Guyana Space Center) and in Europe on both historic and new projects confer to MT Aerospace AG the best prerequisite to unify a solid heritage with new development challenges.

In this way, MT Aerospace AG is involved in several New Space projects as experts for mechanical ground systems such as deflectors, transport systems, and erectors for mini-launchers. This expertise has also led to significant involvement in high-level studies for launch pad architecture.

In an educated New Space manner, the objective is always to focus on the customer's needs, by offering pragmatic, pertinent, and cost-effective solutions with high added value. As a consequence, the systems developed by MT Aerospace AG are focusing on modularity, genericity regarding launchers and launch sites, and on evolvability. This is why the systems under development are aiming for low operational costs, as well as the standardisation of procedures, manufacturing processes, and interfaces.

Furthermore, sustainability, understood as the interconnection between planet, people, and prosperity, has become a major requirement in every project MT Aerospace AG undertakes, and is now a crucial driver, and even a motive force, for the current initiatives.

In order to answer new market needs, MT Aerospace AG is applying agile working and management processes, which, together with strong and transversal networking, consolidate its position as an asset for the future of the space industry.

This paper describes the status of the most relevant developments led by MT Aerospace AG in the field of Ground Systems and Services, focusing on innovative mechanical systems for launch pads, especially in the frame of mini-launchers.