

LA VISION D'UN SOUS-TRAITANT : MT AEROSPACE / VISION OF A SUB-CONTRACTOR: MT AEROSPACE

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Résumé / Abstract :

The worldwide emerging competitions e.g. in the United States of America, Japan and China lead to the decision to stop the Ariane 5 ME development in 2014 and to establish an European launcher family with Ariane 6 and Vega C and a common Solid Rocket Motor (SRM) P120C.

The development of the European Ariane 6 Launcher is characterised by the aims to reduce the launcher- and launch campaign costs. Additionally a limited development budget with an industrial co-financing to fill the gap of Industry Programme File and the Member States subscription as well as a tight schedule with a maiden flight of Ariane 6 in 2020 is planned.

These ambitious aims will be realised by a new organisation for launcher development and production with Airbus Safran Launchers (ASL) as Launcher System Prime. MT Aerospace is the launcher sub-contractor for

- the Upper Liquid Propulsion Module (ULPM) Bare Tank,
- the Lower Liquid Propulsion Module (LLPM) Tank Components,
- the metallic structures (Inter Tank Structures (ITS) of ULPM & LLPM, the cylinder of the Aft Bay and the SRMs Forward and Rear Skirts) as well as
- the Composite SRM Case (50% Work Share with AVIO)

The main development challenges are mentioned. Furthermore it is presented how MT Aerospace will work on these challenges to master it and how MT Aerospace takes the responsibility for their structures to fulfil the specified requirements.

Carrière en bref / Career in brief :

Born 1964, Biberach/ Riß, Germany. Dr.-Ing. Aerospace Engineering, University Stuttgart.

1992 - 1998 - University Stuttgart : Project and structural engineer for industrial projects (e.g. Airship NT-07- structural analysis under various dimensioning flight conditions; non-linear static, stability and dynamic analyses)

Software development of the multi-physics finite element program PSU ("Prozess Simulation Umformtechnik")

1998 - date - MT Aerospace AG (formerly MAN Technologie AG) :

- 1998: Structural Engineer for Cryogenic Structural Tanks
- 2000: System Engineer ARIANE 5 EPC Tank Bulkheads
- 2005: System Engineer ARIANE 5 EPC Front Skirt JAVE-C
- 2005: Head of Lightweight-Structure Analysis
- 2012: Head of Systems Engineering Department
- 2014: Head of Systems Engineering Department & Head of Analysis Department

Member of the German Association of Aerospace Structure Analysis (Luftfahrttechnisches Handbuch LTH).