

# NEW FACILITIES FROM P120C SOLID ROCKET MOTOR INTEGRATION UP TO EQUIPPED SOLID ROCKET ON A6 LAUNCH PAD

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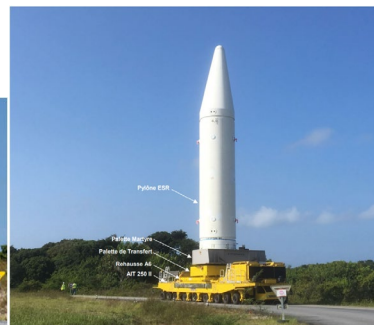
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## Abstract:

P120C SRM has been developed to be the Common Solid Propulsion Motor to be used as strap-on booster on Ariane 6 Launch Vehicle for both A62 and A64 versions and as first stage for Vega Consolidation and Vega Evolution launch vehicles<sup>[1]</sup>. Made of P120C SRM, the Equipped Solid Rocket (ESR) Module is linked to the Lower Liquid Propulsion Module (LLPM, part of the central core of the Ariane 6 launcher).

This paper reports the implementation of the SRM and ESR new horizontal integration approach, with new industrial means and tools, and a new transport vehicle AIT400/Skidder for road transfer between facilities in horizontal Configuration and for verticalization at the entrance of ESR finishing new building (EFF) for A6 Launcher and at BBP (Batiment Basculement Propulseurs) for the A1A, VegaC 1<sup>st</sup> Stage. Adaptation of the existing Fardier AIT250 and development of a new vehicle dubbed Fardier AIT250 NG for road transport in vertical position up to A6 launch pad of the ESR module just laid down on its pallets stack onto the vehicle is also addressed, as well as new storage needs.



## References:

1 T. Germani, F. Barrier, P.F. Dezio, E. Pradie– P120C Solid Rocket Motor, Synthesis of the development of the common propulsive SRM for Ariane 6 and VEGA-C – Space Propulsion 2020+1 – March 17th-19th , 2021