

Solid Rocket Motor Igniter

- Ariane 6 and Vega P120C Igniter



The Igniter during initiation to fully functioning

Nammo Space has developed the **Igniter** for the common Vega-C and Ariane 6 solid rocket motor.

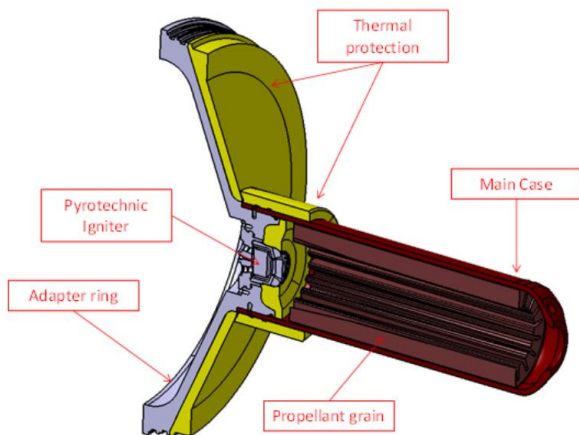
The hardware is manufactured from Carbon fiber composite and Aluminium, and is available in quantities of 3 per month.

The ignition command is done using an initiator (IFOC).

The Igniter consist of a pyrotechnical igniter based on Boron/Potassium Nitrate pellets, and a main igniter with solid propellant.

The carbon fiber reinforced Main Case is able to withstand the thermal loads inside the motor, and keep its shape after the motor functioning phase.

The igniter nozzle holes are an intergrated part of the carbon fiber composite structure.



Section view of the Nammo Space Igniter



Booster Stage Test

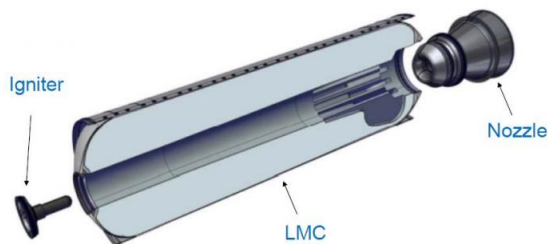
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Igniter Type	Two step, solid propellant based
Response Time	Motor size dependant, contact Nammo for details
Pressure	Under 15 MPa
Dimensions	Diameter 1 meter, and length 1 meter
Mass	Under 200 kg
Delivery Condition	Complete, ready for integration
Materials	Carbon composite, Aluminium, propellant, insulation
Signal Interface	IFOC
Sturctural Interface	Adapter Ring with O-rings
Technology Readiness Level	Qualification will be Q4 2021



The Igniter after a static motor firing test



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