



SOLID ROCKET BOOSTER

Ø122mm/Ø290mm/Ø420mm/Ø520mm

Given EDePro's reputation as a go-to and dependable partner for cutting-edge propellant grain technologies and solid rocket boosters, the company can develop fully customised boosters of varying calibres for a wide range of rocket-based applications. So far, EDePro's engineering team have created 122mm, 290mm, 420mm, and 520mm boosters, all of which have proven to be highly effective, compact, and light in design.

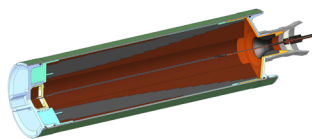
MAIN FEATURES

- » Thermoplastic composite propellant
- » Complete customization
- » Long-lifetime storage

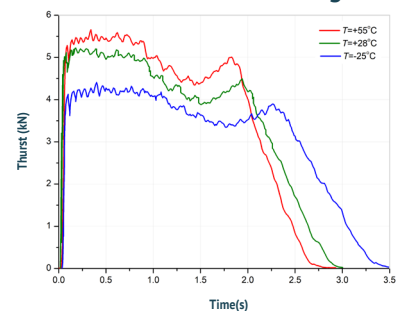
TECHNICAL SPECIFICATIONS

Ø122 mm

Parameters	Value
Rocket's motor mass	13.8 kg
Rocket's motor outer diameter	122 mm
Rocket's motor lenght	591 mm
Propellant's mass	5,3 kg
Total impuls	≥ 11.54 kNs
Maximum thrust force	≤ 5.45 kN
Burning time	3.2 – 3.5 s



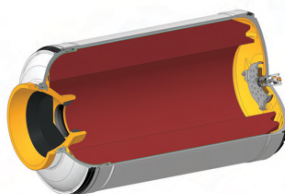
Thrust-Time Diagram



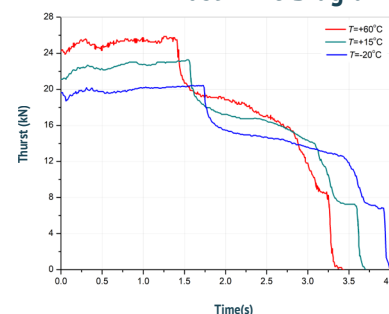
TECHNICAL SPECIFICATIONS

Ø 290 mm

Parameters	Value
Rocket's motor mass	50 kg
Rocket's motor outer diameter	290 mm
Rocket's motor lenght	475 mm
Propellant's mass	29 kg
Total impuls	≥ 65 kNs
Maximum thrust force	≤ 30 kN
Burning time	3.3 – 4.0 s



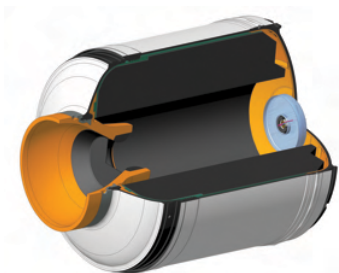
Thrust-Time Diagram



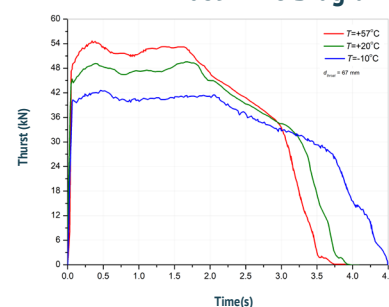
TECHNICAL SPECIFICATIONS

Ø 420 mm

Parameters	Value
Rocket's motor mass	109 kg
Rocket's motor outer diameter	420 mm
Rocket's motor lenght	550 mm
Propellant's mass	66 kg
Total impuls	≥ 150 kNs
Maximum thrust force	≤ 70 kN
Burning time	3.5 – 4.5 s



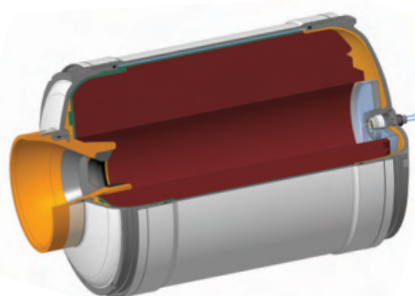
Thrust-Time Diagram



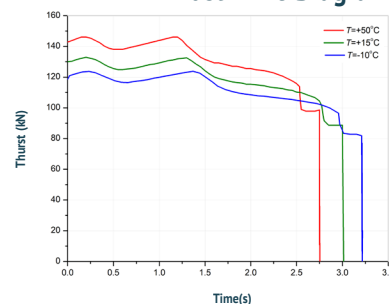
TECHNICAL SPECIFICATIONS

Ø 520 mm

Parameters	Value
Rocket's motor mass	300 kg
Rocket's motor outer diameter	520 mm
Rocket's motor lenght	950 mm
Propellant's mass	165 kg
Total impuls	≥ 360 kNs
Maximum thrust force	≤ 160 kN
Burning time	2.7 – 3.3 s



Thrust-Time Diagram



BENEFITS

- » advanced in-house propellant grain technology;
- » reliable, cost-effective solutions across diverse rocket platforms;
- » fully customizable systems with long-term storability.

