

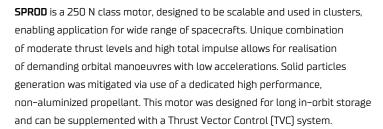
## **CHARACTERISTICS**

A 250 N Solid Rocket Motor, developed by the Łukasiewicz Research Network – Institute of Aviation, is designed for the safe deorbitation of satellites and other objects at their end–of–life. It also enables other orbital maneuvers, including response to urgent threats. The use of this type of propulsion system ensures simplicity and reliability in operation. A dedicated propellant was also created as part of the motor's development.

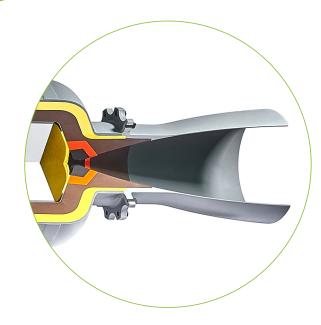
The key benefits of solid propulsion for de-orbit:







Development of a dedicated Solid Rocket Motor for the European Space Agency (ESA) is carried out by the Łukasiewicz Research Network – Institute of Aviation and its partners in Poland. The developed propellant is the first dedicated solid propellant in the world meeting ESA CleanSpace requirements.



## TECHNICAL INFORMATION

Parameter	Value
Thrust	250 N
Burn time	400 s
Total mass	50 kg
Specific impulse	283 s
Total impulse	82.5 kNs





## The Łukasiewicz Research Network - Institute of Aviation

offers a wide range of specialized research, engineering services and products. We provide comprehensive solutions, ranging from dedicated analyzes, simulations, engineering design, through the selection, testing and certification of materials and structures, to rapid prototyping and additive manufacturing.