

D-Raise is an agile propulsion system, able to perform a quick and reliable perigee raise, for those satellites initially designed to be transferred from GTO to GEO only by full electric propulsion.

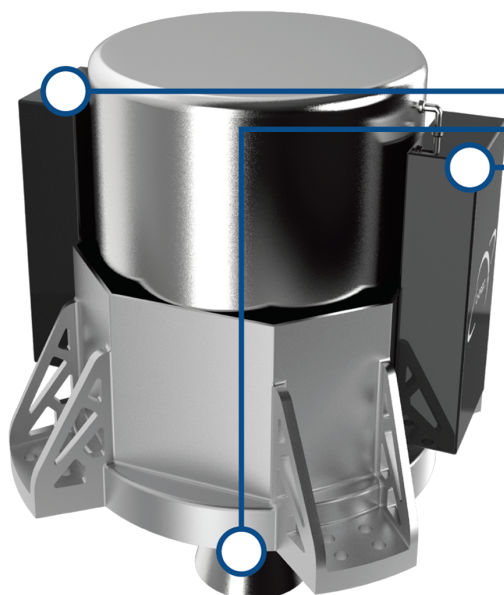
D-Raise ensures a significant reduction of operational risks associated with atmosphere related issues, atmospheric drag and Earth proximity.

D-Raise Examples of Configurations

Application	Orbit Raising		Class		Mini Configuration
Satellite Mass [kg]	Orbit Before Maneuver [km]	Orbit After Maneuver* [km]	Name	Architecture	Mass** [Kg]
3,000	250 x 35,186	500 x 35,186	D-Raise.S70	1 x S70	50
5,000	250 x 35,186	500 x 35,186	D-Raise.S130	1 x S130	78

* In addition to benefits in above, higher perigee altitude raising significantly reduces time to orbit.

** Device mass depends on the Mini Configuration level of customization. Exclude mechanical interface to platform and dedicated Thrust Vector Control if required.



Design

- Electro-Explosive Subsystem (EES)
- Solid Rocket Motor
- Command and Control Unit (CCU)

Electrical Interfaces (customizable upon request)

• Power Interface

UNR 28 V DC / 100 V DC / Custom Voltage

• Data Interface

MIL-STD-1553 / CAN Bus / SpaceWire

Quality and Reliability

Compliance with Safety Standard MIL-STD-1576

- **Components Level** SCC-B to Extended Range
- **Predicted Reliability** > 0.999
- **Fail-Safe Architecture** Single-point-of-failure free
- **Critical Software** B-Class

Contact us for a quote on the best customization for your satellite design

sales@dorbit.space

D-Orbit SpA Viale Risorgimento 57 Fino Mornasco (CO) Italy | (+39) 02 3792 0900 | © D-Orbit SpA

dorbit.space