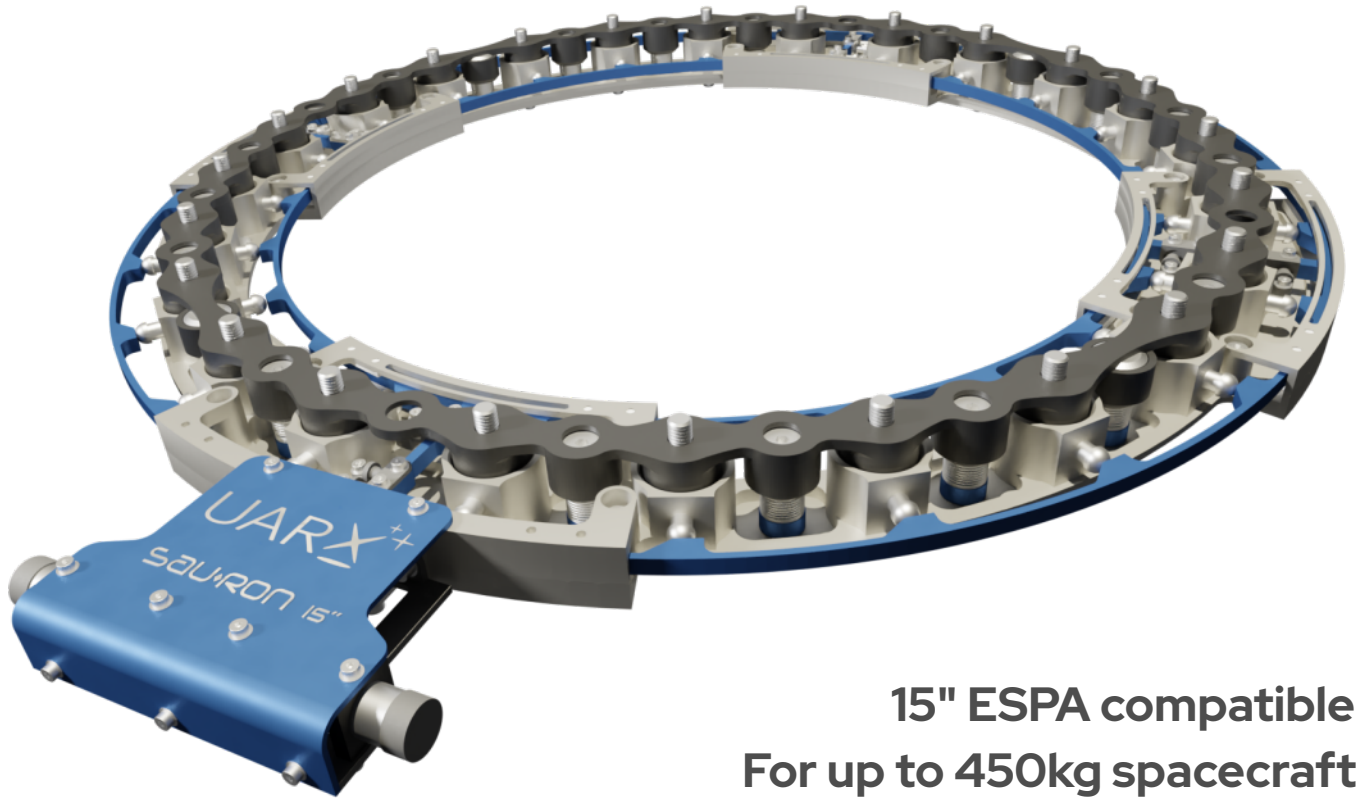




SAURON 15"

Separation Adapter Unit & Ride-On



15" ESPA compatible
For up to 450kg spacecraft

Highly-Reliable Separation System for Small Satellites

SAURON is a separation ring built for those small satellites that require a standard and reliable 15" interface to a launch vehicle.

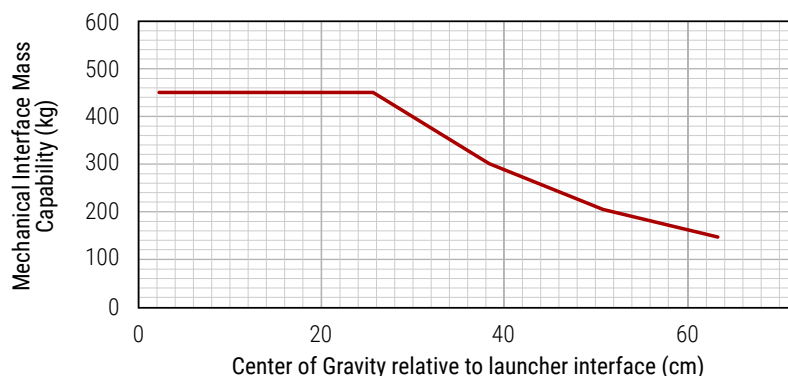
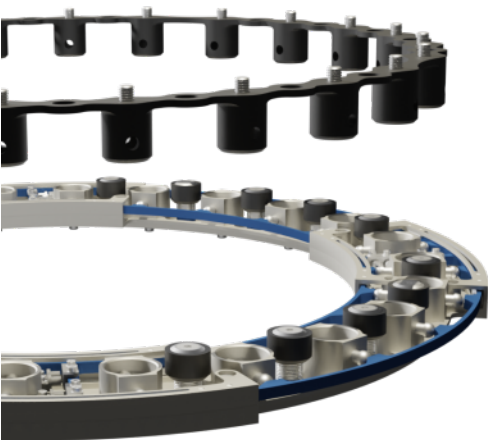
Its optimized mechanical design allows attaching a spacecraft with the maximum mass supported by an ESPA adapter, making it the best separation system in terms of mass ratio.

With just 2.3 kilograms of mass and the use of redundant flight-proven motorized actuators, it offers low to no shock to the carried payload.

SAURON also allows customization on the separation velocity to meet customers' requirements on the precise deployment of payloads.

Technical Specifications

Product name	SAURON 15" - Separation Adapter Unit & Ride-On
Mechanical interface	
Total mass (without interface screws and harness)	2.3 kg
Ride-ON mass (flyaway) ¹	< 0.4 kg
Rocket side ring interface	24 x 1/4 inch bolts, according to 15 inch ESPA interface
Payload side ring interface	24 x 1/4 inch bolts, according to 15 inch ESPA interface
Actuation response time	< 250 ms
Stack height	30.8 mm
Payload capacity ²	450 kg (260 mm CG height from rocket plane)
Unitary spring energy	Customizable to user needs
Separation velocity ³	Customizable from 0.02 m/s to 0.4 m/s
Shock output (as seen by the Payload) ⁴	< 100 g's @ 1 kHz (Low shock)
Electrical interface	
Actuator type	Redundant space-grade DC motors
Actuator voltage	28V (typical)
Release signal	150 ms pulse with < 2 amps (typical)
Release time	150 ms max.
Data / Power / Grounding interface ⁵	15 pin, negative insertion force connector. Up to 3 A per pin.



¹ Lightweight version available for spacecraft with mass below 200 kilograms.

² See the maximum payload CG plot for your specific configuration.

³ The overall system mass can limit the maximum relative separation velocity.

⁴ Value obtained by analysis. The final results are pending and will be confirmed after further testing.

⁵ Up to 4 connectors can be added around the 15" interface. Typically they are used for grounding, power, and data separately.