



# SAU&RON 15"

Separation Adapter Unit & Ride-On



SAU&RON 15" is a reliable and efficient separation adapter for small satellites. Designed for those requiring a standard and dependable interface to a launch vehicle or kick stage, SAU&RON 15" utilizes compression springs that can be easily configured to exert the desired separation velocity to the payload.

Weighing in less than 3,000 grams, SAU&RON 15" boasts two redundant actuators that can be commanded independently, providing low to non-shock to the payload during separation. The standard version includes two space-graded motors from Maxon, ensuring optimal performance for every mission. Customers can choose to use non-explosive HDRM from Glenair or even redundant explosive bolts for added flexibility.

Upon receiving the separation signal from the launch vehicle or kick-stage, SAU&RON 15" simultaneously releases all clamping mechanisms, allowing the separation springs to actuate and deploy the payload into orbit. With a Maximum Axial Line Load per bolt of 6940N and a maximum Shear Load per bolt of 1900N, SAU&RON 15" offers unparalleled stability and reliability for every mission.

Choose SAU&RON 15" for your next small satellite launch and ensure a smooth and successful mission. Trust in our industry-leading expertise and commitment to quality and performance. Contact us today to learn how SAU&RON 15" can meet your separation adapter needs.

# SAU&RON 15"

## Separation Adapter Unit & Ride-On

### Technical Specifications

<b>Product name</b>	SAU&RON 15" - Separation Adapter Unit & Ride-On
<b>Mechanical interface</b>	
<b>Total mass</b> (without interface screws and harness) <sup>1</sup>	Starting from 2.9 kg
<b>Ride-ON mass</b> (flyaway)	< 0.35 kg
<b>Rocket side ring interface</b>	24 x 1/4 inch bolts, 15" interface (or 24 x M6)
<b>Payload side ring interface</b>	24 x 1/4 inch bolts, 15" interface (or 24 x M6)
<b>Actuation response time</b>	< 100 ms
<b>Stack height</b>	50.0 mm
<b>Payload capacity</b> <sup>2</sup>	450 kg @ 255 mm CG / 250 kg @ 450 mm CG from rocket plane
<b>Unitary spring energy</b>	0.025 to 3.7 J (Customizable to user needs)
<b>Separation velocity</b>	Customizable from 0.1 m/s to 0.8 m/s (mass dependant)
<b>Electrical interface</b>	
<b>Actuator type</b> <sup>3</sup>	Redundant space-grade DC motors
<b>Actuator voltage</b>	28V ± 4V (typical)
<b>Release signal</b>	150 ms pulse with < 2 amps (typical)
<b>Release time</b>	150 ms max.
<b>Data / Power / Grounding interface</b> <sup>4</sup>	15-pin, negative insertion force per connector. Up to 3A per pin.

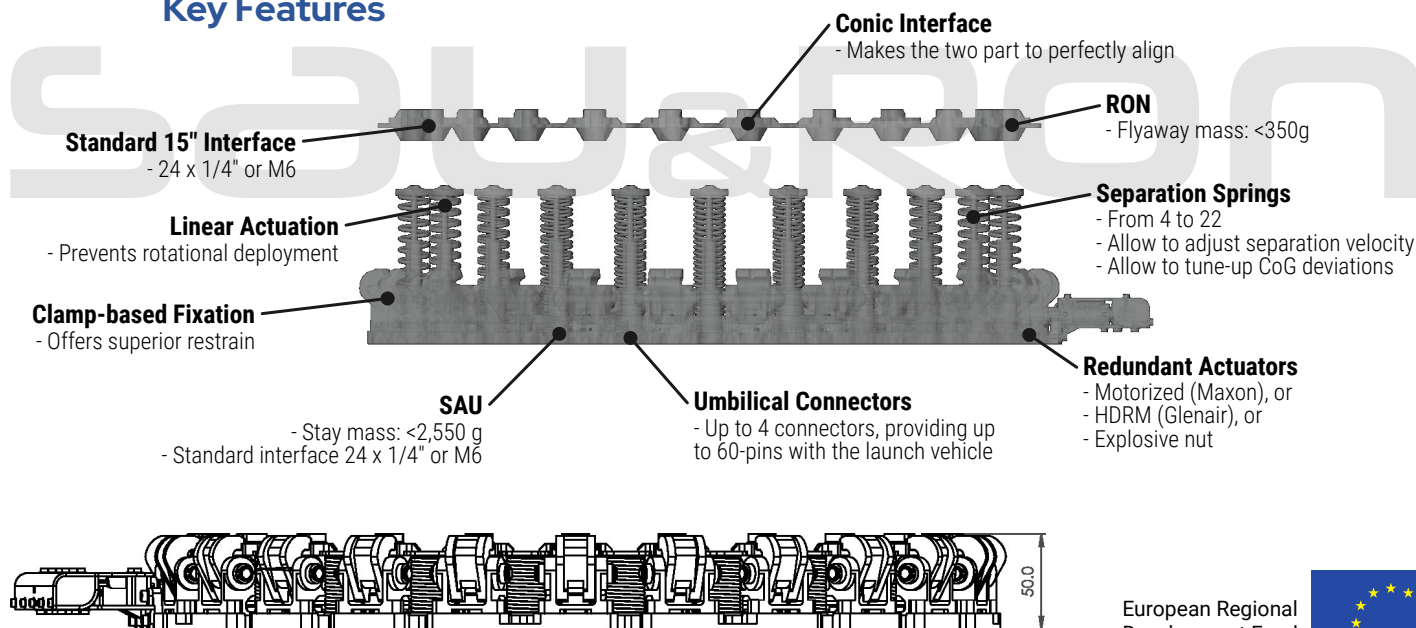
<sup>1</sup> Mass including 4 separation springs. Please confirm final mass based on your mission needs.

<sup>2</sup> Mission specific mass must be verified with UARX Space.

<sup>3</sup> Optionally, customer can choose between Motorized, HDRM, or explosive bolts.

<sup>4</sup> Up to 4 connectors can be added around the 15" interface. Typically used for grounding, power, and data separately.

### Key Features



European Regional  
Development Fund  
A WAY TO MAKE EUROPE.



UARX<sup>+</sup>

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