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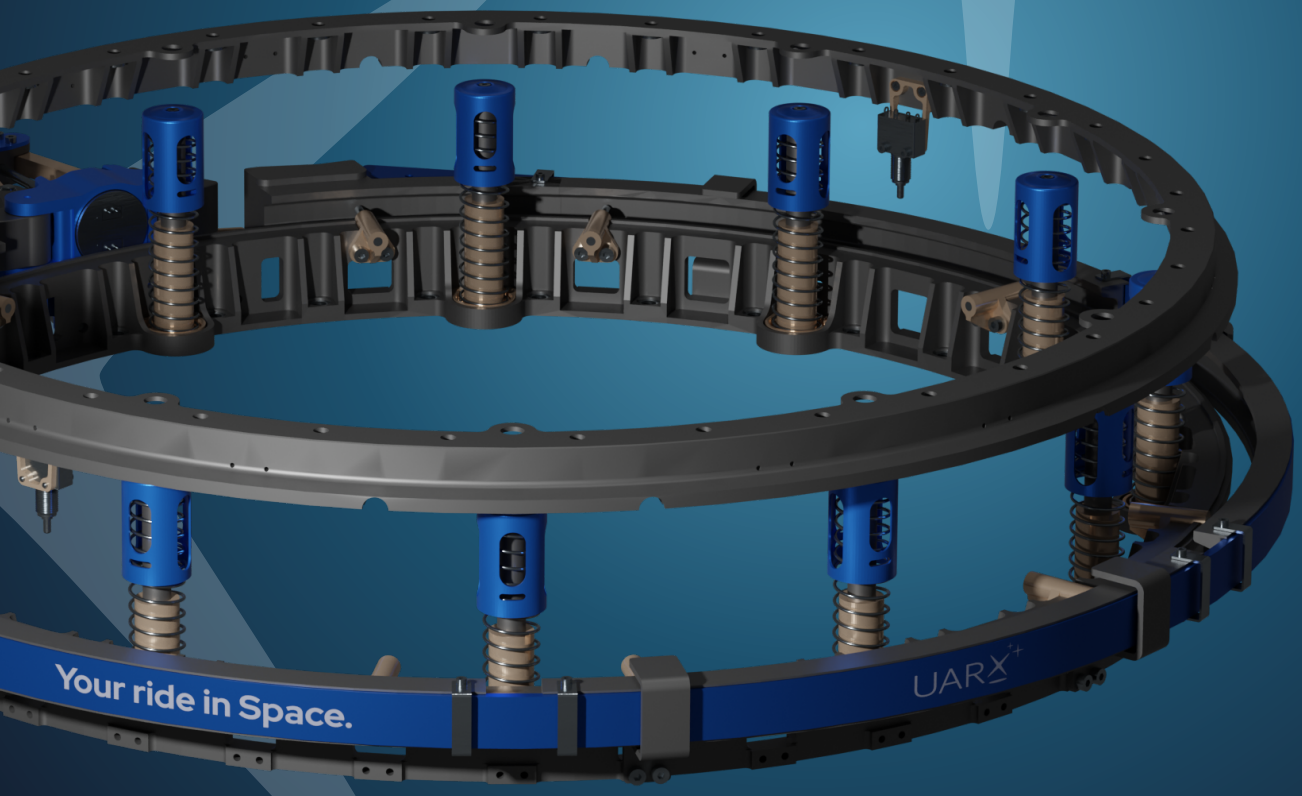
# SAU&RON 24

## Separation Adapter Unit & Ride On




# Product Quick Specs

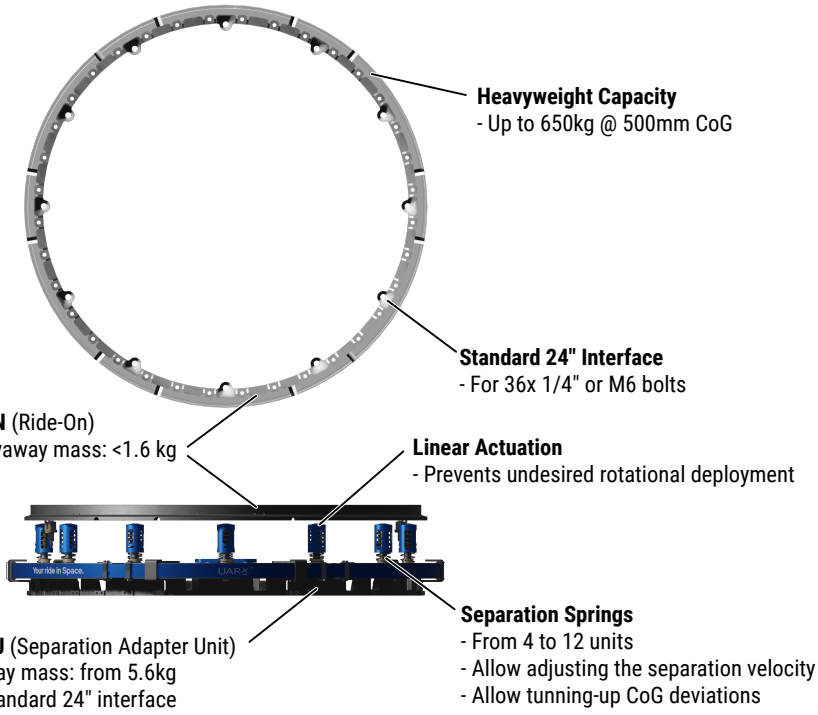
Version A

February 3, 2025

Your ride in Space.

# SAU&RON 24
## Separation Adapter Unit & Ride On

Your ride in Space.




- **Exceptional Stiffness:** Our clamp-band design offers superior stiffness compared to competitors, ensuring robust and reliable satellite support.
- **High Capacity:** Designed to support satellites weighing up to 650kg with a center of gravity located at 500mm, providing versatility for various mission requirements.
- **Configurable Separation Units:** Customize the number of separation units to achieve the desired deployment velocity, adapting to specific mission needs.
- **Extensive Umbilical Connectors:** Accommodates up to 4 umbilical connectors, each with 15 pins, offering an unmatched number of connection points for data and power.
- **Versatile Deployment Initiator:** Comes equipped with our proprietary deployment initiator by default but can also be integrated with Glenair's initiators, providing flexibility in your deployment strategy.

## The Ultimate Solution for Heavy Satellite Launches and Deployment

Combining unparalleled stiffness, high capacity, and extensive customization options for mission success.

### TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Product name | SAU&RON 24" - Separation Adapter Unit & Ride-On 24-in |

#### Mechanical interface

| | |
|---|---|
| Total mass (without i/f screws and harness) | Starting from < 7.2kg and up to 8.5 kg |
| Ride-On mass (flyaway) | < 1.6 kg |
| Rocket and spacecraft side ring interfaces | Ø 24" interface for 36x 1/4" bolts (or 36x M6) |
| Actuation response time | < 100 ms |
| Stack height | 65 mm |
| Payload capacity | Up to 650kg with a CoG located at 500mm |
| Stiffness (axial, flexural) | 960.0e6 N/m, 95.0e6 Nm/rad |
| Stiffness (lateral, torsional) | 526.5e6 N/m, 49.0e6 Nm/rad |
| Unitary spring energy | 0.025 to 3.7 J (customizable to user needs) |
| Separation velocity | Customizable from 0.1 m/s to 0.8 m/s (mass dependant) |

#### Electrical interface

| | |
|---|---|
| Actuator type and voltage | Proprietary or 3rd-party (Glenair), 28V ± 4V @ 3A (typical) |
| Release signal | ~ 1,000 ms |
| Data / Power / Grounding interface | Up to 4 connectors (15-pin, negative insertion foce) |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