



Laelaps

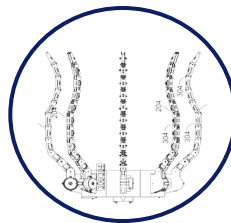
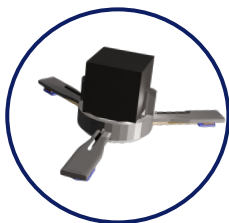
KALL MORRIS INC

RaaS Spacecraft: Rideshare Deployment for Servicing Solutions

Laelaps is KMI's spacecraft optimized for Relocation as a Service (RaaS) and On-Orbit Servicing (OOS). From a space-heritage platform, Laelaps utilizes ubiquitous capture via REACCH, a deployable tagging device via Asteria, and an RPO system for target object characterization. Starting in 2027, KMI will provide maneuvering capabilities through reconnaissance, rendezvous, retrieval, relocation, release, and more, regardless of varying surfaces, sizes, and target control.

Laelaps & Integrated Payloads

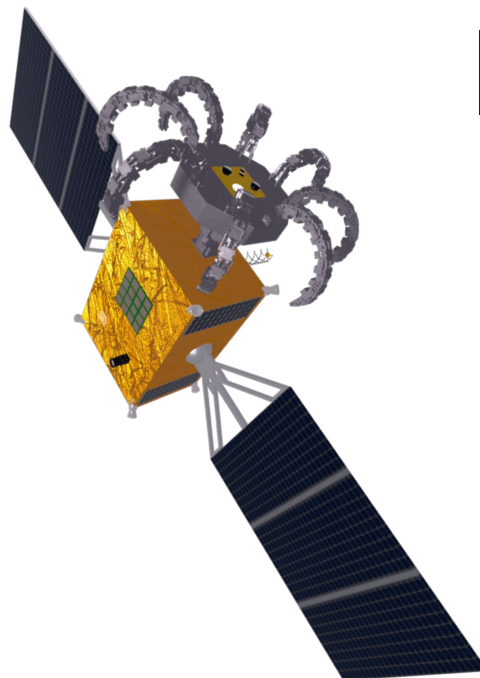
Asteria: Secondary payload attachment technology to secure additional payloads onto unprepared surfaces.



REACCH: Multi-armed articulated robotics device to capture and secure client objects.

Capabilities

- **Legacy-compatible**, capable for unprepared and uncontrolled objects
- **Repeatable** for multiple capture and release cycles with each spacecraft
- **Flexible** mission planning and target acquisition
- **Responsive** launch with ESPA rideshare
- **Non-Destructive** methodology allows for the client to continue functioning after relocation



Technical Specs

- **Size/Class:** Smallsat, 180kg, 15" ESPA mounted
- **Propulsion Type:** Electric
- **Unladen delta-v (ΔV):** >4500 m/s
- **Client object absolute tumble rate:** ≤ 5 deg/s along the cumulative axis
- **RPOD Kit:** Computer vision camera system

Development Timeline

2022	2023	2024	2025	2026	2027+
TRL 1 - 3		TRL 3 - 5		TRL 6 - 9	
 Internal R&D		 DAF D2P2		 First Demo	

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