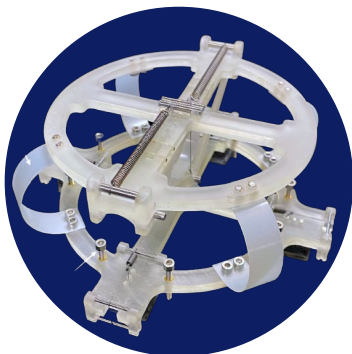




Asteria

KALL MORRIS INC

Payload Attachment for Defense, ISAM, and SAML

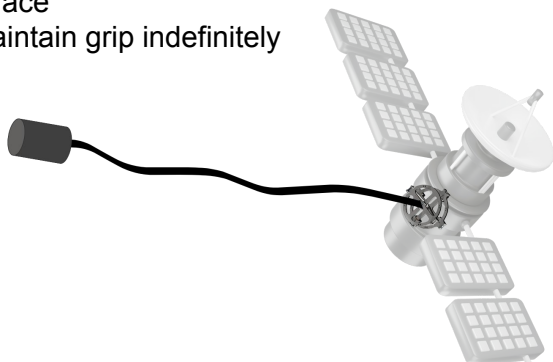
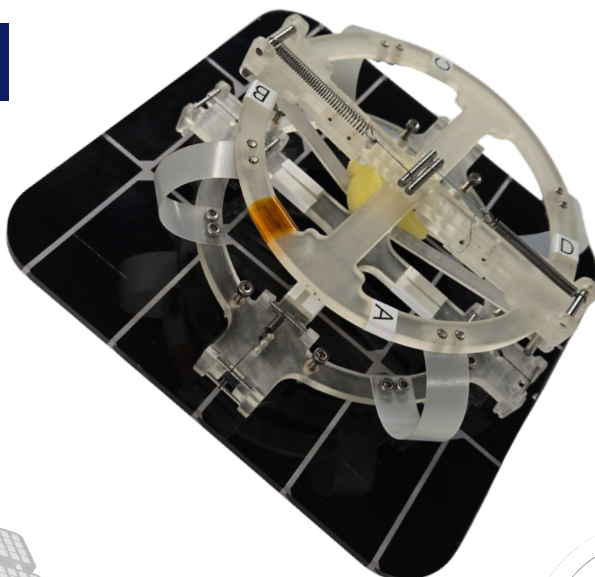


Asteria is a supplemental payload attachment technology that provides a versatile, non-destructive, and controlled-release adhesive system for cooperative, uncooperative, or uncontrolled Resident Space Objects (RSO) without specific or preinstalled infrastructure.

This technology improves upon current orbital operations by enabling enhanced object tracking, asset protection, data collection, disruption and disarming of adversarial threats, satellite life extension, and facilitating asset deorbiting.

Unlock Expanded Capabilities

- Mechanically attached without need for continuous power input or external support
- Enables post-launch upgrades or augmentations to existing assets
- Mission-dependent footprint from ~4" to ~12" diameter
- Optimized for installation to smooth rigid surfaces
- Resists forces up to 20N normal to the surface
- Can maintain grip indefinitely



Evolve Satellites in Real Time

- Post-launch upgrade of satellites
 - Modular propulsion
 - Docking infrastructure
 - Defense systems
- Platform to deploy small remotely operated payloads on orbit:
 - Tracker attached to uncooperative or defunct satellite/object
 - Life Extension
 - Passive Deorbit



Development Timeline

2022

2023

2024

2025

2026

2027+

TRL 1 - 3

TRL 3 - 5

TRL 7

Ph I: Primary
Attachment Study



Ph II: Prototype
Development



In-Orbit Demo
Development



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