

# KALL MORRIS INC

KEEPING SPACE CLEAR FOR ALL

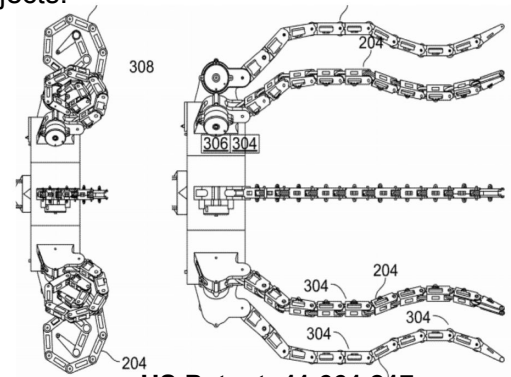


## REACCH: Target-Agnostic Attachment for Defense, ISAM, and SAML

REACCH is a multi-armed articulated soft robotics device that universally and reversibly docks, to enable in-space solutions to legacy, adversarial, or otherwise unprepared objects.

The REACCH technology uses a combination of segmented, rigid-linked tentacles, along with a novel combination of both electrostatic adhesion and mechanical gecko adhesion, for a controllable, directional, reversible grip that can adhere to unprepared materials without residue or damage. Following original DARPA-funded development by NASA JPL and USC, REACCH is exclusively licensed to KMI, with a demonstration on the ISS in 2024.

By enabling repeated target-agnostic attachment, relocation, and release of in-orbit objects, KMI empowers operators to engage in-space objects for maintenance, maneuver, mobility, and more.



US Patent: 11,661,217

## Differentiators

### Capabilities

- Attaches to unprepared surfaces of numerous materials and geometries
- Enables control of object's trajectory
- Controllably releases without damage or residue
- Capable of repetitive cycles of attachment/release on same or separate surfaces



*Pictured: REACCH deployed on Thor Agena D (31m long x 2.44m diameter)*

### Scalability

- Target size: ranges from ~250mm (size of a basketball) to > 6.5m (size of the JWST mirror)
- Repeatable captures tested over 1,000 times without degradation
- Arms are produced in-house with secured suppliers, with planned improvements in production quantity, time, & cost

## Contracted Development



**Current:** Component validation in relevant environment  
**Near term:** System prototype demo in space environment  
**Future:** Operational payload with completed missions.

2022-2024: SpaceWERX Orbital Prime Phase I & II STTR  
*Adhering Arms Architecture for Unprepared Surface Capture*

2024: CASIS ISS NLRA Astrobeer REACCH Demonstration

## Critical Partnerships



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