

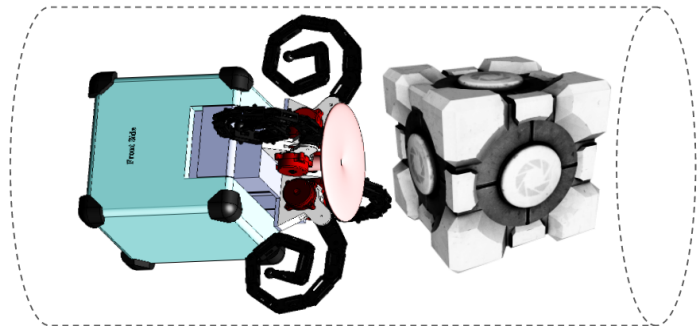
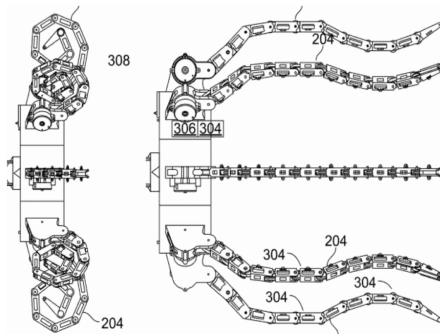


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Kall Morris Inc Receives Award to Demonstrate Tech Aboard International Space Station

KMI received a contract from the Center for the Advancement of Science in Space to conduct in-space demonstration of the proprietary REACCH technology aboard the ISS

Marquette, MI - Kall Morris Inc (KMI), the orbital debris research and solution development company, is excited to announce the award of a contract from the Center for the Advancement of Science in Space (CASIS) to conduct an in-space demonstration of KMI's patented and exclusive REACCH technology in the International Space Station (ISS). Hardware partner Nanoracks will act as the implementation partner for this project, which will leverage the ISS National Laboratory (managed by CASIS). The results of this demonstration will further enable REACCH for its critical mission of orbital debris collection. The threat of orbital debris is growing exponentially, threatening the critical in-space infrastructure the world depends on. Debris collisions are occurring more often, with any one piece of debris capable of destroying an important satellite or striking a defunct rocket body. Any collision could set off a cascade of lethal shards of debris that unstopped could block humanity's access to space.



REACCH patent and digital mockup of Astrobee with REACCH during ISS experiment

REACCH is a mechanically articulated end effector with a novel combination of previously-validated technologies in electrostatic and gecko adhesion to enable soft and secure capture of objects in space. The gecko adhesion capabilities are made possible by geCKo Materials, a supporting contractor in this effort. With these technologies, REACCH is capable of non-destructively securing and selectively releasing objects of nearly any shape, size, or surface condition, making it extremely ubiquitous in capturing a wide variety of orbital debris objects. REACCH is a patented technology that was originated in 2018 by the University of Southern California in partnership with the NASA Jet Propulsion Laboratory and DARPA. In 2021, an exclusive commercial licensing agreement was executed between the University of Southern California and KMI to enable KMI to further the development of the REACCH technology and bring it to commercial viability.



Co-Founder & Director of Operations Troy M. Morris explained, “Demonstrating our unique capabilities for ubiquitous docking is paramount to answering the primary customer concerns related to ADR: capability and cost. While KMI continues to work with suppliers and partners for the most cost-efficient version of the technology, it is the public-private partnerships of the ISS National Lab, Nanoracks, geCKo Materials, and KMI that will prove the critical capability of REACCH in orbit. Our team, customers, and supporters look forward to the microgravity validation next year, and the full spacecraft thereafter.”

Project lead and fellow co-founder Austin Morris adds that, “This project is very exciting because the ISS provides a unique testing and operating environment unavailable elsewhere. By combining perpetual microgravity with readily-available on-site crew, we can conduct iterative testing and demonstration with REACCH that would be extremely difficult to replicate otherwise. The free-floating captures to come with this experiment will showcase REACCH’s capabilities and performance and bring us another large step closer to full technology readiness and an in-space debris capture mission.”

“We are honored to be a part of this mission, leveraging our expertise in mission operations, safety, and integration. Nanoracks’ comprehensive mission support capabilities demonstrate our commitment to enabling groundbreaking technologies like REACCH to reach their full potential,” said Tim Kopra, CEO, Nanoracks. “By utilizing the unparalleled environment of the International Space Station, we play a crucial role in validating and advancing REACCH for effective orbital debris collection, addressing the urgent need for sustainable space infrastructure.”

“geCKo Materials is ecstatic and honored to be a technology partner on KMI’s REACCH project; bringing truly innovative sustainable infrastructure solutions to space,” said Capella Kerst, Founder/CEO, geCKo Materials. “Our geCKo Materials are NASA-certified and deployed on the ISS helping our astronauts safely and efficiently maneuver within the space station, so KMI’s REACCH project is a natural evolution in the sustainable space frontier. It is wonderful to see KMI practicing what they preach in sustainability.”

More specifics about the timeframe of the demonstration and selected launch will be made available at a future time. More information is available through the company website, by following KMI on social media @kallmorris, and joining the conversation in #KeepingSpaceClearForAll.

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About Kall Morris Incorporated

Kall Morris Inc (KMI) is a space solutions company that removes and repurposes unprepared objects in orbit to protect critical space assets and continue building the future. The co-founders combine civilian space agency AI/ML, defense aerospace rapid prototyping, and commercial business development for a target-agnostic solution to an exponential problem. The KMI orbital debris research and solution development is focused on Active Debris Removal of legacy assets: significant debris objects that are unprepared for docking, often uncontrolled, and potentially unrecognizable. Headquartered in Marquette, Michigan, on the Upper Peninsula shores of Lake Superior, KMI is leveraging in-house proprietary software, exclusive hardware,



and essential partnerships around the world, all aligned toward keeping space clear for all.
Learn more at www.kallmorris.com.

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