

KRAKEN™ Robotic Arm

Compact, High Dexterity Robotic Arm for NanoSatellites



Transformative Technologies
for Space, Sea, Earth, & Air

The KRAKEN™ Robotic Arm is a compact, lightweight modular manipulator designed to enable very small spacecraft to perform challenging missions such as on-orbit assembly, satellite servicing and inspection, and debris capture.

Specifications

Compact: Two arms stow within 3U CubeSat volume (10 x 10 x 30cm)

Lightweight: 4.2kg for 7DOF arm

High-Dexterity: Configurations up to 11DOF

Precise: Repeatability of +/- 10mm

Powerful: Fully operable in 1G

Long: 2.0m diameter hemispherical reach per arm

Large Workspace: 1.5m diameter fully dexterous workspace per arm

Sensing: Each joint has input sensing of 512 or 1024 CPT, and output sensing of 4096 CPT

Modular: EtherCAT bus backbone enables easy reconfiguration

Configurable: Accommodates modular end-effectors



Contact Tethers Unlimited for additional information

