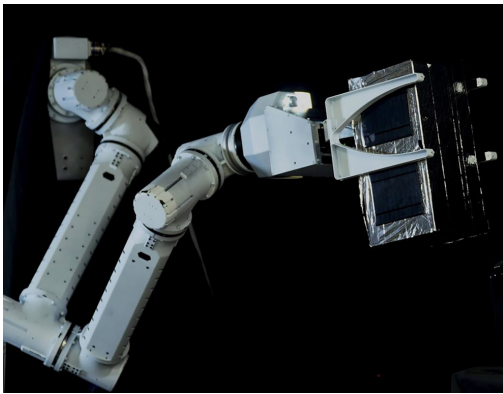


GITAI Inchworm Robot IN2

The GITAI Inchworm Robot is engineered for use in In-Space Servicing, Assembly, and Manufacturing. Packed with an array of features, this versatile robot serves as an indispensable tool for executing various tasks in microgravity environments.



[End effector example: Big claw for debris catching](#)



[Combine two arms to create an extended, single long arm](#)

	Spec	Unit
Degree of Freedom (End Effector)	7 (2)	
Dimensions	2	m
Weight	50	kg
Drive Power Supply	24-48	Vdc
Power Consumption	60 standby, 200 peak	W
Temperature	-20 to +60	°C
Rated Continuous Joint Torque @ Ta=25°C	368	Nm
Rated Maximum Angular Velocity	32.6 (@ 24V input) 64.9 (@ 48V input)	deg/s
Actuation	Brushless DC Motor, Harmonic Drive	
Accuracy	±1.0	mm
Sensors	19bit Absolute Encoder on input/output Motor Current Sensor Temperature sensor on boards/motors, etc	
Internal Communication Bus	EtherCAT	
Options	Redundant avionics, including OBC	