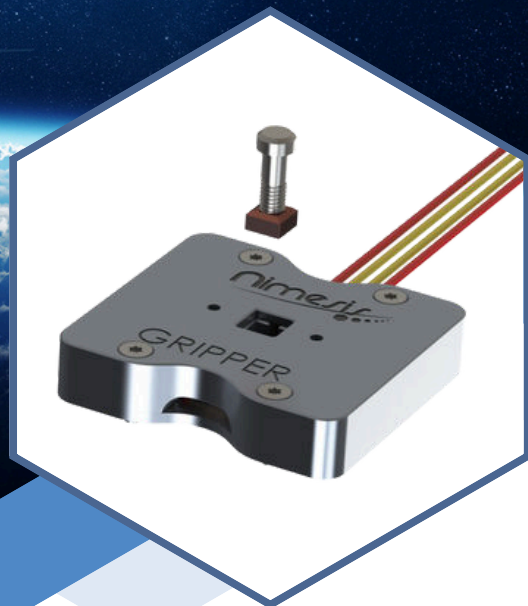




SHOCKLESS HOLD DOWN RELEASE ACTUATOR

HIGH-PERFORMANCE SMART ACTUATOR
FOR SPACE APPLICATIONS

TRL 9

✓ Auto-resettable

✓ Shockless

✓ Non explosive

✓ Lightweight

✓ Flat

✓ Reliable

✓ Compact



info@nimesis.com

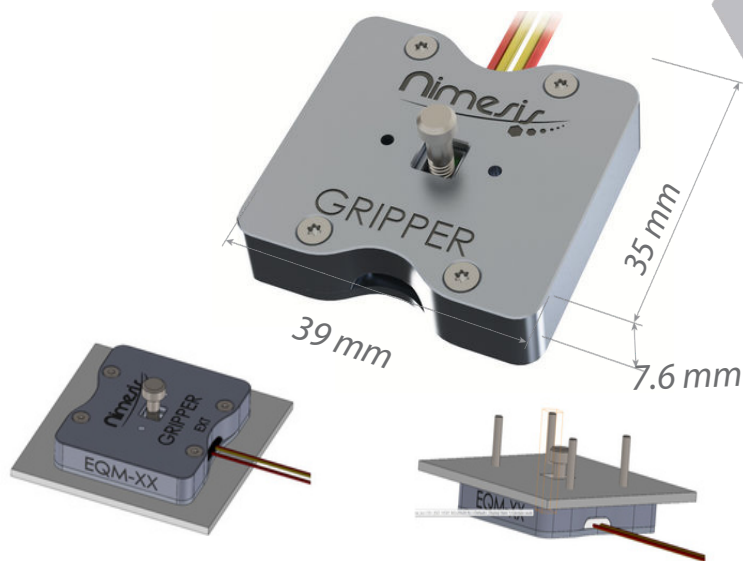


Nimesis-Technology



www.nimesis.com

GRIPPER shockless smart actuator provides an efficient solution for the locking/unlocking and release of space mechanisms.



OVERVIEW

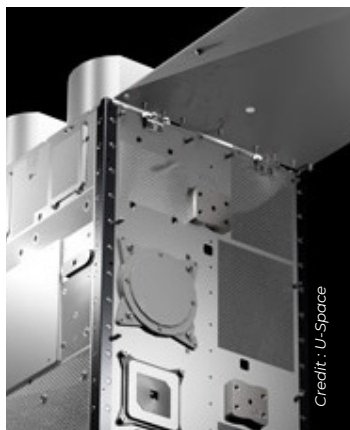
- Compatible with a wide range of satellites and space systems
- Shockless actuation
- No variation of size between armed and actuated position
- Qualification temperature range : from -120°C to +120°C
- Auto-resettable w/o MGSE

FEATURES

- SMA component (ShapeMemoryAlloy: CuAlNi)
- Nut M3 compatible with ISOM3 x 0.5 - 6g fastener
- Max length of fastener: 100mm
- Customizable tie rod

TECHNICAL DATA

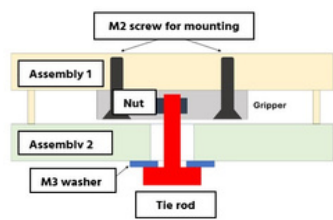
GRIPPER can be mounted on the outside of the satellite (perfectly suited for cubesats)



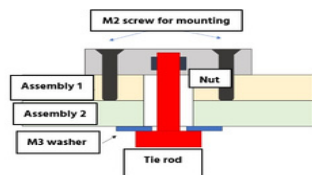
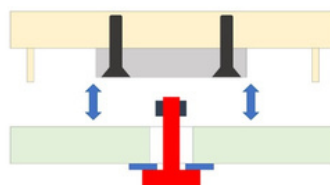
Credit : U-Space

Customization on demand

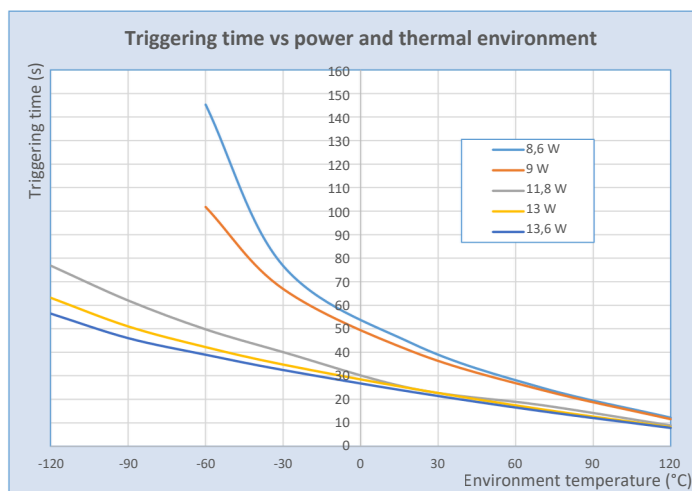
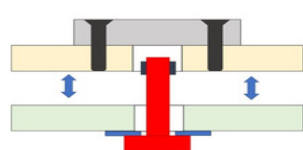
	GRHT03-0008		GRHT03-0012
Maximal axial preload (N)	1200 (1500 in qualification)		1200 (1500 in qualification)
Mass (g)	< 40		< 40
Resettable In Situ	Up to 10 cycles		Up to 10 cycles
Operational T° range	[-120°C ; +120°C]		[-120°C ; +120°C]
Actuation time	From 10s to 300s		From 10s to 300s
Voltage range (V)	7 to 8.4V	14 to 16.8V	12V
	Non Regulated Bus		Regulated Bus
Current (A)	1 to 2A	0.5 to 1A	0.5 to 1A
Power (W)	min 7.4W	max 16.5W	max 16.5W



External mounting



Internal mounting



Test report on demand

GRIPPER

developed in collaboration with

