

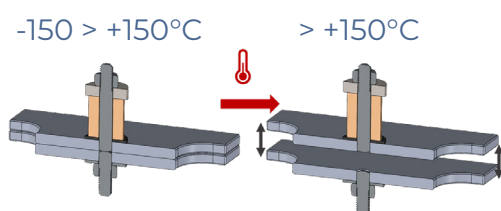
## SMART HRA FOR SEPARATING STRUCTURAL ELEMENTS DURING ATMOSPHERIC RE-ENTRY

HIGH-PERFORMANCE SMART ACTUATOR FOR SPACE APPLICATIONS

- ✔ Ultra High Temperature
- ✔ Miniaturization
- ✔ Lightweight
- ✔ Robust
- ✔ Compact
- ✔ Itar Free
- ✔ Reliable



Compatible with all kind of satellite,  
launcher and other space vehicle



## OVERVIEW

- Heater free - No energy consumption
- Activation during re-entry
- Passive actuator:
- Limiting in-orbit space junk
- Resettable w/o disassembly

## FEATURES

- For preload from 500 to 50 000N
- Adjustable triggering temperature up to 400°C
- High lifetime
- Temperature sensor in option

## APPLICATIONS

Debris mitigation  
Fuel tank passivation  
Thermal safet

## TECHNICAL DATA

		MUHT02	MUHT03	MUHT04	MUHT05	MUHT06	MUHT08	MUHT10	MUHT12
TRL level		TRL 7	TRL 7	TRL 7	TRL 7	TRL 7	TRL 7	TRL 7	TRL 7
Material		CN-400X	CN-400X	CN-400X	CN-400X	CN-400X	CN-400X	CN-400X	CN-400X
Screw size		M2	M3	M4	M5	M6	M8	M10	M12
Max. axial preload (N)*		1265	3165	5482	8973	12659	23237	37002	53954
Fracture load (N)		1800	4600	8100	13200	18700	34400	54800	79900
Outer diameter (mm)		16,4	19,2	21,8	24,7	28,3	33,9	39,6	45,5
Elongation (mm)		0,82	0,90	1,13	1,39	1,71	2,20	2,74	3,33
Armed length (mm)		9,22	10,10	12,67	15,51	19,14	24,65	30,66	37,27
Fired length		10,04	11,00	13,80	16,90	20,85	26,85	33,40	40,60
Weight (g)		4	8	14	22	37	80	164	271
Shock Response Spectrum (g)	100	0,21	0,70	94,81	207,93	47,25			
	1000	0,21	10,97	424,69	2178,49	993,39			
	10000	11,66	257,82	1589,12	16582	9543,34			

**MURPHY**



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