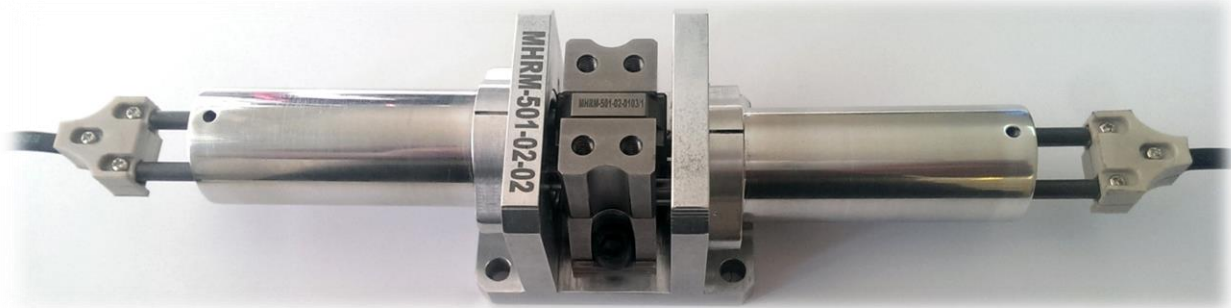


۱- CAPABILITY TITLE: Design, Manufacture and Test of Thermal Knife Hold-down Release Mechanism

۲- TYPE OF CAPABILITY

PRODUCT     TECHNOLOGY     LAB. SERVICE     EXPERT ADVICE     OTHERS

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۳- CAPABILITY INTRODUCTION & DESCRIPTION:

Thermal knife is responsible for releasing solar panels, antennas and other deployable mechanisms. This mechanism performs releasing by thermal degradation/cutting of the hold-down cable.

Thermal knife can be used successfully as a release system as demonstrated in various missions. Thermal Knife emits a very low release shocks and as actuator, can be used a number of times. As the Thermal Knife system is insensitive to electro-magnetic disturbances, the possibility of a spontaneous release is eliminated.