

SERIES 06

Pyrotechnic-Free Hold-Down and Release Mechanisms

High-reliability, non-explosive (split-spool) separation nuts and electromechanical release mechanisms for dependable preload stowage and release of deployable space systems

Glenair HDRMs are optimized for foolproof near-simultaneous release reliability with built-in mechanical and electrical redundancy. The planned release of deployable satellites and structures is activated by a pre-determined value of electrical current to a fuse-wire system which causes the wire to

break under tension and allows a pre-loaded mechanical bolt to actuate. Glenair's line of low-shock, redundant and non-redundant space mechanims includes both HDRM devices as well as a family of pin pushers and pin pullers. Customer-defined electrical initiation (with no amperage max limit), as well as housing and mounting configurations are available. Consult

factory for specific device TR level and qualification test reports.

Glenair pyrotechnic-free release mechanisms offer near-simultaneous release time, low shock, with relatively low power input requirements.

The Glenair family of HDRMs includes separation nuts, HDRMs, pin pushers, and pin pullers which deliver a higher preload carrying capacity in comparison to similar devices.

- Pyrotechnic-free alternative for singleevent release of deployable space systems
- Configurable electrical initiation with no (amperage) upper limit
- Near-simultaneous release dependent on temperature and power
- User-serviceable and refurbishable units
- Standard catalog as well as custom designs
- Not susceptible to transient and noise (EMI/ EMP/ESD/RFI) inputs
- Extended temperature ranges: -150°C to +150°C