

FLIGHT-GRADE TRL 9
HOLD-DOWN
AND RELEASE
MECHANISMS
(HDRM)



Pyrotechnic-free, low-shock
Hold-Down and Release
Mechanisms
North America (Series 06) and
Europe (Series GSS)

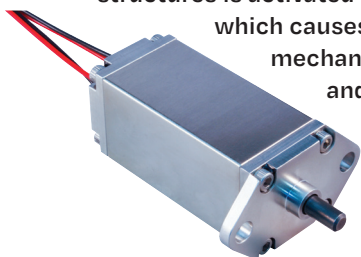


Our European-made HDRMs with clean-room assembled actuators are designed for drop-in use in ESA and commercial European standard space applications. Available Mechanical Release test units.



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

Glenair HDRMs are optimized for foolproof near-simultaneous release reliability with built-in electrical redundancy. The planned release of deployable satellites and structures is activated by a pre-determined 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 mechanisms includes both HDRM devices as well as a family of lightweight pin pullers. Customer-defined electrical initiation (with no amperage max limit), as well as custom housing, pin pusher designs, and mounting configurations are available. Consult factory for specific device TR level and qualification test reports.



- Single-event, pyrotechnic-free HDRMs for 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
- EU series IAW ECSS-E-ST-33-01C
- Not susceptible to transient and noise (EMI/EMP/ESD/RFI) inputs
- Extended temperature ranges: -150°C to +150°C