

# PNEUMATIC DUAL-CARRIAGE: BRU-78

## Dual-carriage release system for UAVs and light attack/armed reconnaissance platforms

The L3Harris BRU-78 is a ground-charged pneumatically actuated system, qualified for flight on the MQ-9 Reaper. The BRU-78 is compatible with stores 500 lbs and smaller, including a wide array of precision-guided munitions: GBU-12/49/59 laser-guided bombs, GBU-38/52/54 Joint Direct Attack Munitions (JDAMs) and GBU-39/53 Small Diameter Bombs (SDB). This dual carriage system offers the ability to carry multiple store types, increasing aircraft stores capacity and reducing the number of missions required.

The BRU-78 incorporates two BRU-71 pneumatic bomb release units (BRU). The BRU-71 offers a RIFL, and independent and automatic latching hooks for safe and rapid loading and unloading of the store.

The BRU-78 interfaces with the aircraft via a MIL-STD-1760 Class II interface and Universal Armament Interface Type II protocol. Once initialized, the BRU-78 will automatically adapt the store interface to either MIL-STD-1760 or MMSI based on the store loadout. The BRU-78 is set up as a MIL-STD-1553 remote terminal to the aircraft, and a MIL-STD-1553 bus controller for 1760 stores or an EBR-1553 bus controller for MMSI stores.

The BRU-78 is qualified to MIL-STD-7743, MIL-STD-810 and MIL-STD-461.

### SPECIFICATIONS

|                                          |                          |
|------------------------------------------|--------------------------|
| Weight                                   | 92 lbs                   |
| Dimensions                               | 61 L x 7 H x 23 W in     |
| Ejection Method                          | Pneumatic                |
| Piston Stroke                            | 4 in                     |
| Store Class (MIL-STD-8591)               | 250, 500 lbs             |
| End-of-Stroke Velocity for 500 lbs Store | 7 ft/sec                 |
| Pitch Control                            | Settable for each piston |



BRU-78



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### BENEFITS

- > Carries multiple store types providing greater mission flexibility
- > Pneumatic operation removes pyrotechnic cartridge maintenance
- > Compatible with MIL-STD-1760 and MMSI stores
- > Safety Interlock: Reversible in-flight lock (RIFL)
- > Safe and rapid store loading using independent and automatic latching hooks
- > Ground charge to 3,000 psi — no aircraft compressor required

### FEATURES

- > MIL-STD-1760 Class II interface to aircraft and MIL-STD-1760 stores
- > Bus controller to MIL-STD-1760 stores using MIL-STD-1553
- > SAE AS5725B Class II interface to MMSI stores
- > Bus controller to MMSI stores using Extended Bit Rate (EBR) 1553
- > Two mounting lugs with 14-inch spacing
- > Adjustable pitch valves and positive-arming attachments

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