

PNEUMATIC PARENT RACK: BRU-75/A AND BRU-76/A

In-service pneumatic single carriage release system for maritime patrol aircraft and other high-performance platforms

The L3Harris BRU-75 is a 14-inch pneumatic weapon release rack qualified for use on the P-8 Poseidon.

The L3Harris BRU-76 is a 14-/30-inch pneumatic weapon release rack qualified for use on the P-8 Poseidon.

The BRU-75/A and -76/A provides operators with ease of loading via independent, self-latching hooks and semi-automatic swaybraces. Pneumatic operation eliminates the need for pyrotechnic cartridges and the handling and maintenance actions associated with their use. Both products feature enhanced safety measures including a low pressure disable and an on/off switch.

SPECIFICATIONS	BRU-75/A	BRU-76/A
Weight	62 lbs	91 lbs
Dimensions	30 L x 7 H x 4 W in (at mounting)	33 L x 7 H x 4 W in (at mounting)
Ejection Method	Pneumatics – 5,000 psi	Pneumatics – 5,000 psi
Piston Stroke	6.6 in (departure-controlled)	8.8 in
Store Class (MIL-STD-8591)	500, 1,000 lbs	500, 1,000, 2,000 lbs
Store Diameter Range	8 to 20 in	8 to 32 in
End-of-Stroke Velocity for 500 lbs Store	>19 ft/sec	>21 ft/sec
End-of-Stroke Velocity for 1,000 lbs Store	>14 ft/sec	>16 ft/sec
End-of-Stroke Velocity for 2,000 lbs Store	N/A	>11 ft/sec
Pitch Control	Settable for each piston (five settings)	Settable for each piston (five settings)



BRU-75/A



BRU-76/A



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BENEFITS

- > Pneumatic operation eliminates pyrotechnic cartridge handling, reducing associated maintenance requirements
- > Semi-automatic swaybracing enables effortless operation and faster turnaround times
- > Featuring both mechanical and zero retention force electro-mechanical arming units allows for versatile munition compatibility
- > Equipped with reversible in-flight lock, enabling greater mission flexibility and in-flight control
- > Low-pressure disable prevents unsafe store separation, enhancing operational safety
- > Dual-stage telescoping piston design reduces installation height, improving platform integration flexibility
- > BRU-75 provides payload restraint throughout the ejection stroke, ensuring safe separation for internal bay applications

Pneumatic Release Units: BRU-75/A and BRU-76/A

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