

PYROTECHNIC PARENT RACKS: BRU-46/A AND BRU-47/A

Combat-proven single carriage pyrotechnic release systems for high-performance platforms

The L3Harris BRU-46/A is a 14-inch twin cartridge pyrotechnic weapon release rack qualified for use on the F-15 Strike Eagle and F-22 Raptor.

The L3Harris BRU-47/A is a 14-/30-inch twin cartridge pyrotechnic weapon release rack qualified for use on the F-15 Strike Eagle, F-22 Raptor and KF-21.

The BRU-46/A and -47/A are robust and proven carriage and release systems in service worldwide. Independent, self-latching hooks and semi-automatic swaybraces enable a hassle-free loading experience.

SPECIFICATIONS	BRU-46/A	BRU-47/A
Weight	40 lbs	86 lbs
Dimensions	28 L x 6 H x 2 W in (at mounting)	36 L x 7 H x 3 W in (at mounting)
Ejection Method	Pyrotechnic	Pyrotechnic
Piston Stroke	4 in	4 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 32.6 in
End-of-Stroke Velocity for 500 lbs Store	14.5-16.2 ft/sec	>20 ft/sec
End-of-Stroke Velocity for 1000 lbs Store	10.2-12.2 ft/sec	>14.8 ft/sec
End-of-Stroke Velocity for 2000 lbs Store	N/A	>11 ft/sec
Pitch Control	Settable for each piston (three settings)	Settable for each piston (three settings)



BRU-46/A



BRU-47/A



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BENEFITS

- > Filtered pyrotechnic ejection reduces contamination, extending maintenance intervals and minimizing downtime
- > Semi-automatic swaybracing ensures secure store retention, supporting efficient operation and turnaround time
- > Featuring both mechanical and zero retention force electro-mechanical arming units allows for versatile munition compatibility
- > Clear visual indication of cartridge installation and hook status enables safer loading and reduces operator error
- > No lock-wire required on the breech, simplifying loading and reducing installation time
- > Designed to meet high release reliability requirements, supporting consistent store separation
- > Rugged store presence indicator provides reliable status feedback in harsh environments
- > Equipped with a reversible in-flight lock (BRU-47 only), ensuring secure retention and operational flexibility

Pyrotechnic Parent Racks: BRU-46/A and BRU-47/A

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