

SCORPION EJECTOR RELEASE UNIT

High-performance, pneumatic ejection
of light air-to-ground stores

Scorpion is a compact, pneumatic ejector release unit (ERU) designed to safely carry and reliably eject air-to-ground stores, particularly from within the confines of a weapons bay.

SAFE CARRIAGE AND RELIABLE EJECTION

Scorpion's novel piston design enables highly efficient use of stored air, so a smaller and lighter reservoir can be used to power the ERU. This keeps the overall size and weight of the unit to a minimum.

The ERU's patented two-stage pistons enable it to achieve a controlled high-velocity descent through a narrow release aperture, a necessity for use within the confines of modern fifth- and sixth-generation fighter weapons bays.

Scorpion also features a patented yoke alignment system, independently self-latching hooks and semi-automatic sway bracing to allow for rapid weapon loading with only two personnel.

Additionally, an in-flight operable lock (IFOL) provides flight and ground safety without the need for ground safety pins.

MULTI-STORE CARRIAGE

Scorpion has been incorporated into two-, three- and four-station carriers to allow multiple carriage of stores either under wing or in a weapons bay, depending on the store and configuration. These carriers all use the same Scorpion ERU and ancillary equipment (including gas generators for in-air charging) to simplify ground crew training and logistics.

Scorpion is also being developed to allow the carriage of 500-pound and 1,000-pound class stores via 14-inch hooks and 2,000-pound class stores via 30-inch hooks.

Scorpion is not subject to International Traffic in Arms Regulation (ITAR) export rules, making it an ITAR-free solution for the reliable ejection of air-to-ground stores.



BENEFITS

- Two-person, rapid missile loading reduces manpower needs
- Minimal maintenance requirements and no post-mission servicing requirements simplify operations
- Pneumatic technology eliminates the need for pyrotechnics or post-flight consumable replenishment
- Compact size and superior performance enable safe carriage and reliable ejection of air-to-ground stores, even from within the confines of a weapons bay
- IFOL ensures safe carriage



SPECIFICATIONS

Weight	10.1 kg (22.2 lbs)
Dimensions (L x H x W)	512 x 178 x 89 mm (20.1 x 7 x 3.5 in)
Maximum store weight	112 kg (250 lbs)
Piston stroke	190 mm (7.5 in)
End-of-stroke velocity	> 8 m/s with < 100 kg store
Maximum store diameter	305 mm (12 in)
Store interface	14-inch, 1,000-pound NATO bale lugs



Safely Eject Small and Miniature Munitions From Fast-Jet Weapons Bays, Multiple Store Carriers and Other High-Performance Air Platforms

Scorpion Ejector Release Unit (ERU)

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