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RELEASE SYSTEMS **PRODUCT CATALOG**

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PNEUMATIC PARENT WEAPONS EJECTOR RACKS

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|---------------|-------------------|---|---|---------------------------------|----------|----------------------|--|
| BRU-67 | F-35 Lightning II | <ul style="list-style-type: none"> Semi-automatic swaybrace integral with eject piston providing store restraint Arming units Reversible in-flight lock One centralized pitch control in pneumatic power module (PPM) with five pitch control settings Status provided via controller area network (CAN) bus 20 FPS end of stroke velocity (500-pound store) Piston stroke: 6.9 inch | Pneumatically powered with 5,000-psi clean-air airborne compressor system | 34 x 13 x 4 in | 65 lbs | 500/1,000 lbs | Internal carriage on short takeoff and vertical landing aircraft (STOVL) with 14-inch suspension hooks |
| BRU-68 | F-35 Lightning II | <ul style="list-style-type: none"> Semi-automatic swaybrace integral with eject piston providing store restraint Arming units Reversible in-flight lock One centralized pitch control in PPM with five pitch control settings Status provided via CAN bus 20 FPS end-of-stroke velocity (500-pound store) Piston stroke: 6.9 inches | Pneumatically powered with 5,000-psi clean-air airborne compressor system | 37 x 13 x 4 in | 79 lbs | 500/1,000/2,000 lbs | Internal carriage and external pylons with 14- or 30-inch suspension hooks |
| BRU-71 | MQ-9 Reaper | <ul style="list-style-type: none"> Settable pitch control for each piston Seven feet-per-second (FPS) end-of-stroke velocity (500-pound store) Piston stroke: 3.7 inches Reversible in-flight lock Single-stage piston Arming units | Pneumatic pressure: 3,000 psi (typically ground charged) | 24 x 5 x 2 in | 19.6 lbs | Up to 1,000-lb class | Bolt-in pylon 14-inch spacing on hooks to weapons |
| BRU-75 | P-8A Poseidon | <ul style="list-style-type: none"> End-of-stroke velocity 19.8-7.1 FPS (500-lb store) depending on pitch setting Piston stroke: 6.6 inches Two-stage piston Settable pitch control for each piston Semi-automatic swaybrace integral with eject piston providing store restraint | Pneumatic pressure: 5,000 psi | 30 x 4 x 4 in | 62 lbs | 500/1,000 lbs | Bolt-in pylon 14-inch spacing on hooks to weapons |
| BRU-76 | P-8A Poseidon | <ul style="list-style-type: none"> End-of-stroke velocity 21.8-7.4 FPS (500-pound store) depending on pitch setting End-of-stroke velocity 16.9-7.1 FPS (1,000-pound store) depending on pitch setting Piston stroke: 8.805 inches Two-stage piston Settable pitch control for each piston | Pneumatic pressure: 5,000 psi | 33 x 8 x 4 in | 91 lbs | 500/1,000/2,000 lbs | Bolt-in pylon 14- or 30-inch spacing on hooks to weapons |



BRU-67 & BRU-68



BRU-71



BRU-75 & BRU-76

ELECTRIC CARRIAGE RELEASE SYSTEMS

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|---------------|--------------|---|-----------------------|---------------------------------|--------|---------------------|---|
| BRU-79 | Light Attack | <ul style="list-style-type: none"> Electric actuated weapons release rack that incorporates all current and approved safety features and user interface Semi-automatic swaybrace Reversible in-flight lock Weight optimized for SDB sized and smaller weapons | Gravity release | 18 x 5 x 2.5 in | 18 lbs | SDB Weapon Class | Bolt-in, 14-inch spacing on hooks to weapons |
| BRU-81 | Attack | <ul style="list-style-type: none"> Electric actuated weapons release rack that incorporates all current and approved safety features and user interface Semi-automatic swaybrace Arming units Reversible in-flight lock | Gravity release | 36 x 6.3 x 3 in | 68 lbs | 500/1,000/2,000 lbs | Bolt-in, 14- or 30-inch spacing on hooks to weapons |
| BRU-82 | Attack | <ul style="list-style-type: none"> Electric actuated weapons release rack that incorporates all current and approved safety features and user interface Semi-automatic swaybrace Arming units Reversible in-flight lock | Gravity release | 28 x 5 x 2 in | 28 lbs | 500/1,000 lbs | Bolt-in, 14-inch spacing on hooks to weapons |

PYROTECHNIC PARENT WEAPONS EJECTOR RACKS

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|---------------|--------------------------------------|---|--|---------------------------------|--------|--------------|---|
| BRU-46 | F-15E Strike Eagle F-22 Raptor | <ul style="list-style-type: none"> Semi-automatic sway bracing 20 FPS end-of-stroke velocity Arming units Pitch valves | Dual redundant pyrotechnic Hot gas filtration | 28 x 6 x 2 in | 40 lbs | 1,000 lbs | Bolt-in pylon 14-inch spacing on hooks to weapons |
| BRU-47 | F-15E Strike Eagle F-22 Raptor | <ul style="list-style-type: none"> Semi-automatic sway bracing 14.4 FPS end-of-stroke velocity Arming units Pitch valves Reversible in-flight lock | Dual redundant pyrotechnic Hot gas filtration | 36 x 7 x 3 in | 86 lbs | 2,000 lbs | Bolt-in pylon 14- or 30-inch spacing on hooks to weapons |



BRU-46



BRU-47



BRU-79



BRU-81



BRU-82

MISSILES LAUNCHERS

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|--|---|---|---|---------------------------------|---------|--|---|
| LAU-142 AMRAAM Vertical Eject Launcher (AVEL) | F-22 Raptor | <ul style="list-style-type: none"> 27 FPS end-of-stroke velocity Missile restraint throughout stroke Optimized weight-to-performance design minimizes deflection Hydraulic loading ground extend and retract time is three seconds Aircraft hydraulic power converted to pneumatic energy for ejection | Pneumatic using aircraft hydraulic power | 41 x 9 x 15 in | 115 lbs | AIM-120C Advanced Medium-Range Air-to-Air Missile (AMRAAM) | Internal carriage and ejection of AIM-120 AMRAAM |
| LAU-147 | F-35 Lightning II | <ul style="list-style-type: none"> Launcher hooks mate with forward and center hangers of missile Swaybraces integral with ejector piston providing store restraint and motion departure control Self-adjusting, self-centering and load-limiting swaybrace system Two stage ejectors with an 7.8-inch stroke Umbilical connector compatible with AIM-120C connector Reversible in-flight lock Status provided via CAN bus Nose down pitch rate not to exceed 1 radian per second at end of stroke 25 FPS end-of-stroke velocity 37 Gs max acceleration and 12,000-pound maximum ejection force | Pneumatic using 5,000-psi clean-air from airborne compressor system | 43 x 8.5 x 4 in | 63 lbs | AIM-120C AMRAAM | Internal carriage and ejection of AIM-120 AMRAAM |
| Linkage Ejection Launcher (LEL) | Heavy Attack Light Attack Fighter | <ul style="list-style-type: none"> 25 FPS end-of-stroke velocity Typically less than 20 Gs acceleration of AIM-120 Missile restraint through 9" of stroke Extend to load capability with and without aircraft power Pneumatic remote controls for safe ground operations Reversible in-flight lock Nose down pitch rate of .5 radian per second at end of stroke | Pneumatic using 5,000-psi clean-air from airborne compressor system | 57 x 10 x 10 in | 122 lbs | AIM-120C AMRAAM | Bolt-in for departure controlled ejection of AIM-120 AMRAAM |



LAU-142



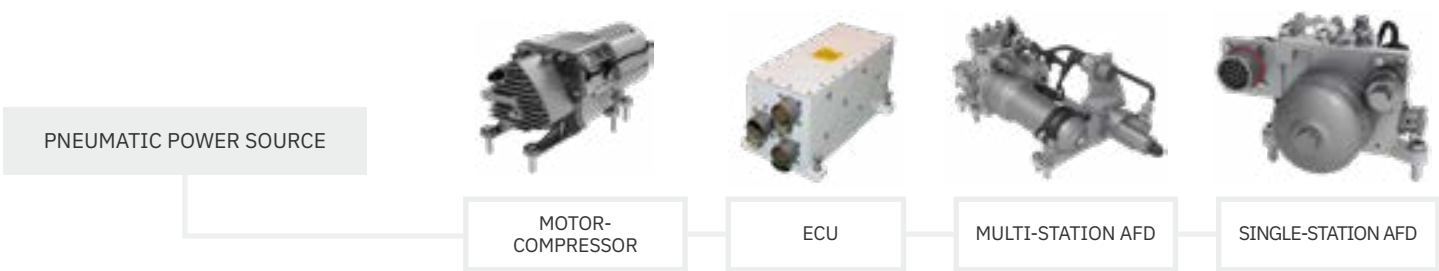
LAU-147



LINKAGE EJECTION LAUNCHER

PNEUMATIC POWER SOURCE SYSTEMS

| Product | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|------------------------------|---|--|---|--|---|--------------|--|
| Pneumatic Power Source (PPS) | Heavy Attack Light Attack Patrol Fighter | <ul style="list-style-type: none">• Compact, lightweight and durable design providing high performance, even at altitude• Advanced ECU varies speed of compressor to match the pressure demands of the mission• Predictive Health Management System for high operational availability• Single station and multi-station designs | Platform airborne compressor supplying 5,000-psi clean/dry air to S&RE. | Motor Compressor: 13 x 4.5 x 4.5 in ECU: 8 x 4 x 4.5 in Single Station Dryer: 6 x 5 x 3 in Multi Station Dryer: 13 x 6 x 4 in | Single Station: 17 lbs Multi Station: 22 lbs | N/A | Bolt-in |



SMART MULTIPLE CARRIAGE RACKS

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|---------------|----------------------|---|--|---------------------------------|---------|---------------|---|
| BRU-55 | F-18 Super Hornet | <ul style="list-style-type: none"> Communicates using UAI Type 2 and MIL-STD-1760– 115 VAC, 3-Phase <ul style="list-style-type: none"> – High bandwidth 1 and 3 – Low bandwidth – 28 VDC 1 (10 amps per store available) – 28 VDC 2 – Address lines – Release consent – Interlock DAC4010 ejection function <ul style="list-style-type: none"> – Cartridges – Store sensing – In-flight operable bomb release lock (IFOBRL) – Nose and tail arming | Two DAC4010 ejector units pyrotechnic Hot gas filtration | 70 x 8 x 29 in | 210 lbs | 500/1,000 lbs | Aircraft: 30 inches Weapon: 14 inches MIL-STD-1760 class II to aircraft and weapons |
| BRU-57 | F-16 Fighting Falcon | <ul style="list-style-type: none"> Communicates using UAI Type 1 and MIL-STD-1760 <ul style="list-style-type: none"> – Dual redundant MIL-STD-1553 communications – Audio – 115 VAC, 3-phase – High bandwidth 1 (GPS) and 3 – 28 VDC 1 (10 amps per store available) – 28 VDC 2 – Address lines – Connector-mated status – Structure ground – Release consent BRU-46 ejector signals implemented <ul style="list-style-type: none"> – Dual cartridges – Store sensing – Arming units 115 VAC to 28 VDC power converter provides clean 28 VDC power to carried weapons Transparent to weapons | Two BRU-46 ejector units Dual redundant pyrotechnic Hot gas filtration | 70 x 9 x 31 in | 264 lbs | 500/1,000 lbs | Aircraft: 30 inches Weapon: 14 inches MIL-STD-1760 class II to aircraft and weapons |



BRU-55



BRU-57

SMART MULTIPLE CARRIAGE RACKS

| | | | | | | | |
|------------------------------|---|---|---|---|--|---|--|
| BRU-78 | Unmanned Aerial Vehicle (UAV) Light attack | <ul style="list-style-type: none">• Universal Armament Interface (UAI) Type 1 and 2 carriage system• Can carry miniature munition store interface (MMSI) and MIL-STD-1760 stores• Incorporates two BRU-71 ejector units | Pneumatic pressure: 3,000 psi (typically ground charged) | 61 x 7 x 33 in | 94 lbs | 250-500 lbs | Aircraft: 14 inches Weapon: 14 inches |
| Pneumatic Multi Carriage BRU | Heavy Attack Fighter Ground Attack | <ul style="list-style-type: none">• Modular 2 or 3 station BRU• Capability to dual carry both 14- and 30-inch lug spaced weapons• Capability to triple carry SDB sized weapons• Self-contained airborne compressor system• Communicates using UAI Type 2 and MIL-STD-1760• Semi-automatic swaybrace• Arming units• Reversible in-flight lock• End-of-stroke velocity 21.8-7.4 FPS (500-pound store) depending on pitch setting• End-of-stroke velocity 16.9-7.1 FPS (1,000-pound store) depending on pitch setting | Pneumatic using 5,000-psi clean-air from airborne compressor system on unit | Triple carriage: 76 x 16 x 28 in Dual carriage: 76 x 8 x 28 in | Triple carriage: 270 lbs Dual carriage: 231 lbs | Triple carriage: SDB Weapon Class Dual carriage: 1,000 weapon class with both 14 and 30-inch spaced lugs | Aircraft: 30 inch Weapon: 14 and 30 inches MIL-STD-1760 class II to aircraft and weapons |



BRU-78



PNEUMATIC MULTI CARRIAGE

SONOBUOY LAUNCHERS

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|--|---------------|---|---|---------------------------------|---------|---|--|
| Sonobuoy Rotary Launch System (SRL) | P-8A Poseidon | <ul style="list-style-type: none"> Holds up to 10 sonobuoys Capable of launching a buoy every three seconds Reloadable in flight Can launch 40 buoys with a 5,000-psi charge Ejects A-size sonobuoys from LAU-126 container 32-46 FPS end-of-stroke velocity, depending on weight | Pneumatic using 2,000-5,000 psi clean-air from airborne compressor system | 33 x 60 x 33 in | 270 lbs | A-size sonobuoys Potential for other sizes | Base mounted to aircraft |
| Sonobuoy Single Launch System (SSL) | P-8A Poseidon | <ul style="list-style-type: none"> Holds and launches one sonobuoy Reloadable in flight Ejects A-size sonobuoys from LAU-126 container End-of-stroke velocity from 32-46 FPS velocity, depending on weight | Pneumatic using 2,000-5,000 psi clean-air from airborne compressor system | 28 x 29 x 12 in | 37 lbs | A-size sonobuoys Potential for other sizes | Base mounted to aircraft |

SONOBUOY LAUNCHERS (IN DEVELOPMENT)

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|--|--|--|--|---|---|---|---|
| Modular Launch Tube (MLT) | UAV Light Attack Rotary Wing | <ul style="list-style-type: none"> Externally ground-loaded individual launch station Holds and launches one sonobuoy Ejects A-size sonobuoys from LAU-126 container Functional as stand-alone launcher or configurable in multiples for integration into system-level solution Features buoy sensor to ensure positive carriage and launch | Pneumatically powered with 1,000-5,000 psi clean air | 45-inch length by six inch diameter | 10 lbs | A-size sonobuoys Potential for other sizes | Variable (external or internal mounting) |
| Sonobuoy Dispenser System (SDS) | UAV Light Attack Maritime Surveillance | <ul style="list-style-type: none"> Pylon-mounted, multi-station pneumatic sonobuoy launcher based around multiple MLTs arranged in an external pod Ejects A-size sonobuoys from LAU-126 containers Externally ground-loaded | Pneumatically powered with 1,000-5,000 psi clean air | Variable depending on configuration (e.g. number of MLT stations) | Variable depending on configuration (e.g. number of MLT stations) | A-size sonobuoys Potential for other sizes | Mates to standard BRU with 14/30-inch hooks |



SONOBUOY ROTARY LAUNCHER



SONOBUOY SINGLE LAUNCHER



MODULAR LAUNCH TUBE



SONOBUOY DISPENSER SYSTEM

CARRIAGE RELEASE SYSTEMS – UK

| Nomenclature | Platform(s) | Features | Ejection force source | Physical dimensions (L x H x W) | Weight | Weapon class | Aircraft mounting hook spacing to weapon |
|--|---------------------------------------|---|-------------------------------------|--|--------------------------------------|--------------------------------|--|
| Wasp/Hornet | Special Purpose Aircraft (SPA) UAV | <ul style="list-style-type: none"> Hook-closed sensor In-flight lock Store diameters 3-12 inches Self-latching hook Spring-loaded sway bracing provides positive separation Hornet has internal electrical umbilical for weapon comms Mating weapon mini hardback with lug and mission store interface (MSI) | Electro-mechanical gravity release | Wasp 6 x 4.5 x 1.5 in Hornet 8.5 x 4.5 x 1.5 in | Wasp 1.7 lbs Hornet 2.1 lbs | 50 lbs maximum | Single hook (100 lbs lug) |
| Gnat HD | SPA UAV | <ul style="list-style-type: none"> Self-latching hooks Stored energy actuator In-flight lock | Electro-mechanical gravity release | 15 x 6 x 5 in | Heavy duty (HD) 11.1 lbs | HD 415 lbs maximum +/- 2G roll | 14-inch centers |
| Scorpion | Multiple Store Carriers SPA UAV | <ul style="list-style-type: none"> Twin-stage telescopic pistons Semi-automatic crutching Settable pitch control for each piston In-flight lock High end of stroke velocity | External-pneumatic (cold gas) eject | 20 x 7 x 3.5 in | 24 lbs | 670 lbs maximum | 14-inch centers |
| Pneumatic Eject Launcher (PEL) | Fast Jet | <ul style="list-style-type: none"> Non-pyrotechnic missile eject launcher Carries and releases Meteor MRAAM Twin-stage telescopic pistons Automatic snubbing In-flight lock External Carriage (ePEL) and Internal Carriage (iPEL) versions use common gas system and missile interfaces | External-pneumatic (cold gas) eject | 105 x 8 x 5 in | 95 lbs | 420 lbs | STANAG 3842 |
| Modular Advanced Lightweight System (MALTS)-2 | SPA Fast Jet | <ul style="list-style-type: none"> Non-pyrotechnic practice bomb carrier Carries two practice bombs Accepts all NATO practice stores Self-latching hook No first-line servicing | Electro-mechanical soft eject | 55 x 6.5 x 10 in | 39 lbs | 25 lbs | 14-inch centers |
| Scorpion Common Weapon Carrier (CWC) | Fast Jet | <ul style="list-style-type: none"> Common weapon launcher Uses two-three Scorpion ERUs 2 x 500 lb class stores 3 x 250 lb stores Onboard gas generator option Provision for MIL-STD-1760, JMMI and customer custom electronics and stores interface | Internal-pneumatic (cold gas) eject | 79 x 16 x 26 in | 270 lbs | 250-500 lbs | 14-inch and 30-inch hook centers |



WASP/HORNET



GNAT HD



SCORPION



PEL



MALTS-2



SCORPION CWC

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Release Systems Product Catalog

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