



L3HARRIS®

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RELEASE SYSTEMS **PRODUCT CATALOG**



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



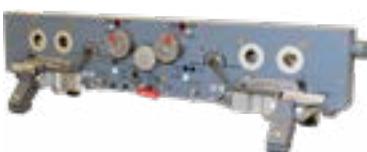
BRU-75 & BRU-76

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

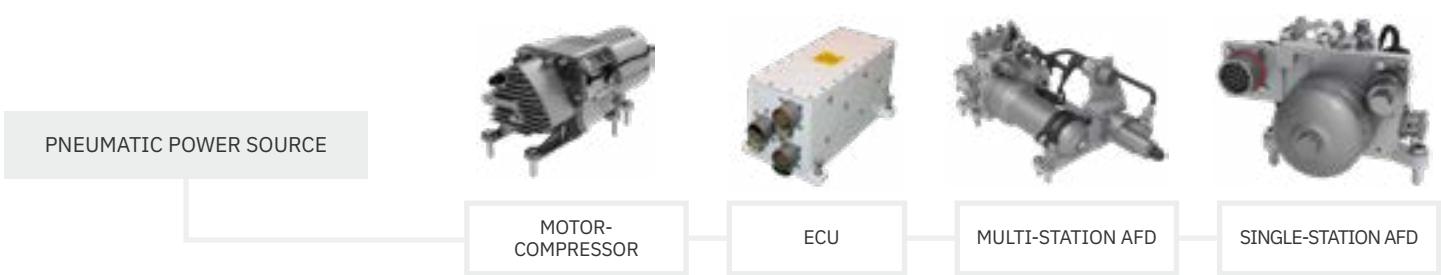


LINKAGE EJECTION LAUNCHER



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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