










# UH-1 CAPABILITIES



	<p><b>Woodward</b> is a manufacturer of control systems and control system components for aircraft engines, industrial engines and turbines, power generation and mobile industrial equipment.</p>
	<p><b>Robertson Fuel Systems</b> develops crashworthy fuel systems, using research to develop systems that extend range with self-sealing capability, preventing post-crash fires and ballistic threats to save lives on the battlefield.</p>
	<p><b>Adams Rite Aerospace</b> has over 80 years experience offering door latching systems, flight controls, door handles, and oxygen tanks, masks, and regulators.</p>
	<p><b>Safran</b> offers systems and equipment aircraft engines. These products include mechanical power transmission systems, engine control units, lubrication, cooling and filtration equipment.</p>
	<p><b>BAE Systems</b> is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.</p>
	<p><b>Timken</b> engineered bearings include tapered, spherical, cylindrical, thrust, ball, plain, miniature, precision, and housed unit bearings that deliver strong performance, consistently and reliably.</p>
	<p><b>Hartwell</b> is a leader for latches and latching systems including engine cowlings, nacelles, and thrust reversers, as well as interior and exterior access panels, cargo doors, and interior stowage bins.</p>

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# UH-1 CAPABILITIES



P/N	DESCRIPTION	NSN
100575	SERVOACTUATOR ASSY	
100585-1	SERVOACTUATOR ASSY	
100585-7	SERVOACTUATOR ASSY	
100600-4	SERVOACTUATOR ASSY	
105300	SERVOACTUATOR ASSY	
105875	SERVOACTUATOR ASSY	1650-00-853-8396
21056760	SERVOVALVE ASSY	
58030	SOLENOID VALVE	1650-01-216-6000
42550-3	VALVE, IRREVERSIBLE	4810-01-022-3699
42550-4	VALVE, IRREVERSIBLE	
42550-6	VALVE, IRREVERSIBLE	4810-01-127-0179
105900-3	SERVOACTUATOR ASSY	
44000020	VALVE, PRESS. CONTROL	
44000043	VALVE, PRESS. CONTROL	
44000044	ACCUMULATOR	1650-00-877-7186
41000870	ACTUATOR ASSY	1650-00-133-6942

P/N	DESCRIPTION	NSN
42650-3	VALVE, IRREVERSIBLE	
42660-3	VALVE, IRREVERSIBLE	
41000470-003	ACTUATOR ASSY	
251610-1	SERVOVALVE ASSY	
41000570	SERVOACTUATOR ASSY	1650-00-404-1975
41000570-1	SERVOACTUATOR ASSY	1650-00-232-1436
41000570-005	SERVOACTUATOR ASSY	
41000670-003	SERVOACTUATOR ASSY	
41000670-005	SERVOACTUATOR ASSY	1650-01-023-6348
41000720	VALVE, CHECK	4820-01-252-3813
41000870	SERVOACTUATOR ASSY	1650-00-133-6942
44000240	SERVOACTUATOR ASSY	NA
48088820	FILTER MODULE	NA
48088820-005	FILTER MODULE	NA
41000040	ACTUATOR ASSY	1650-01-030-2818
22253980	SERVOVALVE ASSY	1650-01-324-6862



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# UH-1 CAPABILITIES



## AUXILIARY FUEL SYSTEM (IAFS)



Average usable fuel  
74 gals



Dimensions  
31 x 26 x 28.3 in.



Estimated weight with restraint  
121 lbs.

### FEATURES

- AIRCRAFTS: UH-1, UH-1N, HUEY II INTERNAL
- INSTALLATION OF UP TO 2 TANKS
- COCKPIT CONTROLLED FUEL TRANSFER SYSTEM
- CRASHWORTHY IAW MIL-DTL-27422
- SELF-SEALING CONSISTENT WITH MIL-DTL-27422 STANDARDS
- FUEL TRANSFER PUMP CONTROLLED FROM COCKPIT
- OVER-THE-WING GRAVITY REFUEL



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# UH-1 CAPABILITIES



P/N	DESCRIPTION	NSN
AR83	HANDLE ASSY	
AR133	HANDLE	
4298	CYLINDER, LOCK, VEHICULAR	2540-01-253-9764
2353	HANDLE, DOOR	1680-00-871-5181
AR34-T1	HANDLE, DOOR	1680-00-585-8798
AR34-T1D28	HANDLE, DOOR	5340-01-395-5096



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# UH-1 CAPABILITIES



P/N	DESCRIPTION	NSN
23064-001	STARTER-GENERATOR 300 AMP	2925-00-063-0788
30010-000	GENERATOR 300 AMP	6115-00-725-1790
20069-010	STARTER	2925-00-871-9240
23046-019	STARTER-GENERATOR 200 AMP	2925-00-450-7783
23046-516	QAD KIT	2925-00-465-6342



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# UH-1 CAPABILITIES



## BAE SYSTEMS

### AIRCRAFT ARMOR SYSTEMS

Unique and lightweight ceramic, transparent and soft aircraft armor solutions for fixed-wing and rotary-wing aircraft



Monolithic Armored Wing Panel



Monolithic Floor Armor Panel

#### KEY FEATURES

- MONOLITHIC ARMOR TECHNOLOGY ACCOMMODATES CURVATURES AND SAVES WEIGHT
- VARIETY OF ARMOR SYSTEMS AVAILABLE TO MEET SPECIFIC REQUIREMENTS
- INDUSTRY LEADER IN INTEGRATION AND QUALIFICATION OF COMPLEX ARMOR SYSTEMS MEETING STRINGENT CRASH, ENVIRONMENTAL AND IMPACT REQUIREMENTS
- LIGHTEST WEIGHT CERAMIC ARMOR TECHNOLOGY AVAILABLE
- UNMATCHED TRANSPARENT ARMOR TECHNOLOGY



Monolithic Wall Armor Panel

BAE Systems prides itself on over 30 years of experience in developing and manufacturing lightweight composite armor protection systems for military aircraft. Utilizing our expertise in ceramic composite armor, BAE Systems introduced the first successful military armored crashworthy crew seat for the UH-60 Black Hawk aircraft in 1977.



Floor Armor

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## COMPREHENSIVE DEVELOPMENT CAPABILITIES AND HIGH VOLUME MANUFACTURING

- ARMOR AND COMPOSITE PRODUCTION AREAS ENCOMPASS MORE THAN 100,000 SQ. FT.
- WORK IS COMPLETED BY A TEAM OF SKILLED TECHNICIANS TRAINED IN COMPOSITE FABRICATION TECHNIQUES AND SPECIFIC PRODUCT REQUIREMENTS
- ARMOR PRE-FIT AND BONDING OPERATIONS
- IN-HOUSE BALLISTIC TEST LABORATORY
- IN-DEPTH UNDERSTANDING OF AIRCRAFT INTEGRATION AND QUALIFICATION REQUIREMENTS

## TRANSPARENT ARMOR

BAE SYSTEMS HAS DEVELOPED AND PATENTED, AND IS PRODUCING A NEW LIQUID-CASTABLE TRANSPARENT POLYURETHANE, CLEARGARD<sup>®</sup>\*, WHICH PROVIDES SUPERIOR BALLISTIC PERFORMANCE WITH OPTIMAL CLARITY.

CLEARGARD'S ADVANTAGES ARE CHARACTERIZED BY:

- UNMATCHED MONOLITHIC PERFORMANCE
- LOWER DENSITY THAN ACRYLIC OR POLYCARBONATE
- HIGH-IMPACT RESISTANCE
- EXCELLENT OPTICAL CLARITY
- HIGH DUCTILITY
- HIGH THERMAL AND CHEMICAL RESISTANCE
- COMPATIBLE WITH A VARIETY OF DYE PACKAGES AND COATINGS
- CASTABLE TO COMPLEX SHAPES OR SHEET FORM

## STANDARD ARMOR FEATURES

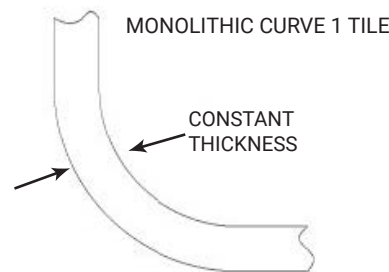
- LIGHTEST WEIGHT AND LOWEST AREAL DENSITY (WEIGHT PER UNIT AREA) IN THE INDUSTRY
- DEFEATS ARMOR PIERCING (AP) THREATS FOR 7.62 MM AND GREATER CALIBERS
- COMPLEX CURVATURES, UNUSUAL SHAPES AS WELL AS FLAT COMPONENTS
- FLEXIBILITY FOR HOLE SIZE AND LOCATION
- WIDE VARIETY OF QUALIFIED MOUNTING/ ATTACHMENT METHODS
- ENVIRONMENTALLY TESTED TO MIL-STD-810
- MEETS FAR 25 FLAMMABILITY REQUIREMENTS
- SECURED FOR CRASH AND IMPACT LOADS

## MONOLITHIC ARMOR

- OUR MONOLITHIC CERAMIC TECHNOLOGY ALLOWS FOR:
- MINIMUM AMOUNTS FOR MATERIAL FOR REDUCED WEIGHT
- ELIMINATION OF RAISED EDGES AND JOINTS
- MINIMIZED PARTS COUNTS AND COSTS
- RETAINED MULTI-HIT PERFORMANCE

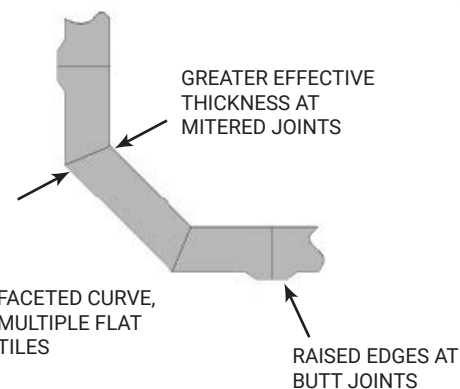


## THE MONOLITHIC ADVANTAGE IS CLEAR:



### MATERIAL COMPARISON MONOLITHIC TILE:

- SAME BALLISTIC EFFECTIVENESS
- 6% LESS MATERIAL



EXCESS MATERIAL

\*Cleargard<sup>®</sup> is a registered trademark of BAE Systems

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## LOW PROFILE FLOTATION COLLAR (LPFC)

BAE Systems' Life Preserver Unit (LPU) series of collars are the most advanced flotation collars manufactured today. Engineered for dependability and reliability, the LPUs have a proven performance history.

### FEATURES

- LOWER PROFILE AND SUPERIOR COMFORT OVER COMPARABLE SYSTEMS
- INCREASED NECK SIZE FOR GREATER MOBILITY
- CONSTRUCTION EXTENDS REPACK AND LOWERS INSPECTION CYCLE
- REDUNDANT FLOTATION CELLS ORIENT WEARER FACE-UP IN WATER (AUTO-ROTATION)
- BUOYANCY CELL DESIGN SUPPORTS 67 LB (30 KG) OF STEEL
- MODULAR COMPONENTS, REDUCE SPARES COSTS
- ADAPTS TO EXISTING VESTS AND RECOVERY PARACHUTE HARNESSES
- USES IN-SERVICE, WATER-SENSING AUTO-INFLATORS\*
- MANUAL INFLATOR ENABLES USER EGRESS BEFORE DEPLOYMENT



	LPU 33/P	LPU 34/P	LPU 36A/P	LPU 37A/P	LPU 38/P	LPFT3H
P/N- Packed	-	0103100-3	-	0111100-3	-	0101100-1
P/N- Kit	0102200-1 <sup>1</sup>	0103200-3	0110200-1	0111200-3	0115200-1 <sup>2</sup>	0101200-1
NSN- Kit	-	4220-01-483-4390	4220-01-483-9381	4220-01-520-8058	4220-01-510-8555	-
Inflator	Automatic	Manual	Automatic	Manual	Automatic	Manual
Color Options	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan
Qualification	U.S. Navy	U.S. Navy	U.S. Navy	U.S. Navy	U.S. Air Force	U.S. Army
Notes	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3) Trainer system also available.	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Integrates with PCU-15/16 flight harness	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)

1. LPU 33/P and LPU 36A/P kits do not include FLU-8B/P automatic inflation device

2. LPU 38/P kit does not include FLU-9B/P automatic inflation device or CO<sub>2</sub> cylinders

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# TIMKEN

BEARING, BALL, ANNULAR

**P/N:** 3HKTZZ 107-PTB205

**NSN:** 3110-01-652-2519



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Hartwell is the industry's first choice in the design and manufacture of quick access latching systems for aircraft and the first company that aircraft engineers call on for design assistance on all new latching applications.

P/N	DESCRIPTION	NSN
104209-1	CONNECTING LINK,RIGID	3040-00-791-9390
104218-1	PIN,STRAIGHT,HEADED	5315-00-764-6339
H2177-1	HANDLE ASSY,DOOR	1680-00-426-2485
H2177-3	CATCH,CLAMPING	5340-00-433-3995
H2645-1	LEVER,LOCK-RELEASE	5340-01-257-0329
H2871K2079	CATCH,FLUSH	5340-01-097-8562
H287-3	LATCH ASSY	1660-15-180-1009
H38K613	CATCH,FLUSH	5340-00-072-8315
H481-1	LATCH ASSEMBLY,DOOR	1560-00-795-0896
H481K4106-1	LATCH ASSEMBLY,AIRCRAFT	1560-01-584-3821
H481K4106-2	LATCH ASSEMBLY,AIRCRAFT	1560-01-583-6150
H498-1-130-194	LATCH ANNODIZED CHANNEL	
H498-1-188-376	LATCH CHANNEL	
H5000-3-040-091	CATCH,FLUSH	5340-01-491-8861
H605S063A123	CATCH,FLUSH	5340-00-872-7937
104207-2	HANDLE,DOOR	1680-00-758-3661
H2177-1	HANDLE,DOOR	1680-00-460-0482
H2305-1	HANDLE,DOOR	5340-00-138-0436
H2340-1	HINGE,TEE	5340-01-155-4547
H2675-1	HINGE	
H2710K2286	LATCH,SPECIAL	5342-01-256-2174
H2777-3	HINGE,AIRCRAFT	1560-01-586-4076

P/N	DESCRIPTION	NSN
H2871K2081	CATCH,FLUSH	5340-01-265-6440
H287-3	LATCH ASSY	1660-15-180-1009
H299K2436	CATCH,CLAMPING	5340-01-285-5416
H299K2437	CATCH,CLAMPING	5340-01-285-5415
H3156-3	LATCH GUIDE,SNAPSLIDE FASTENER	5325-01-257-0798
H38K613	CATCH,FLUSH	5340-00-072-8315
H481-4	LATCH ASSY	5340-01-251-3829
H481-5		
H481K4106-1	LATCH ASSEMBLY,AIRCRAFT	1560-01-584-3821
H5000-2-032-064	CATCH,FLUSH	5340-00-598-2806
H5000-3-032-064	CATCH,FLUSH	5340-01-243-9060
H5000-3-032-125	LATCH	
H5000-3-032-235	LATCH	
H5000-3-064-091	LATCH	
H605P050D140	CATCH,FLUSH	5340-01-048-6935
H605P063A213	CATCH,FLUSH,AIRCRAF	1680-01-524-0879
H605S050A150	CATCH,FLUSH	5340-00-852-6791
H605SK1439	CATCH,FLUSH	5340-00-529-1533
H795K2287	HINGE GOOSENECK ASSY	
H795K4306		
H9300K4043	LATCH ASSEMBLY,AIRCRAFT	1560-01-586-4070
HA1289-1	LATCH ASSEMBLY,AIRCRAFT	1560-01-584-3819

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