

AH-1 CAPABILITIES

WOODWARD	**Woodward** is a manufacturer of control systems and control system components for aircraft engines, industrial engines and turbines, power generation and mobile industrial equipment.
PACSCI EMC	**PacSci EMC** products ensure the proper initiation, sequencing, and function of aircraft safety systems including emergency escape, canopy fracturing, fire extinguishing, load release, and countermeasures.
BAE SYSTEMS	**BAE Systems** is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.
THOMAS	**Thomas Instruments** specializes in providing precision measurement and control instruments, including pressure gauges, temperature sensors, flow meters, and level indicators, offering reliable and accurate monitoring solutions for industrial applications.
ITT ENGINEERED FOR LIFE	**ITT Aerospace Controls** manufactures linear and rotary actuators, fuel, hydraulic, pneumatic, motor and solenoid operated valves, pumps, and electro-mechanical switches.

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WOODWARD

PART NUMBER	DESCRIPTION	NSN	CAGE
30055100	SERVOCYLINDER		81873
T30055100-102	INSTALLING TOOL,PIS		81873
T104108	INSTALLING TOOL,FIL		81873
88700-1	MODULAR UNIT,HYDRAU		81873
T30055100-106	INSTALLING TOOL,SEA		81873
T555-11	INSTALLING TOOL,SEA		81873
41000257	LEVER,MANUAL CONTROL		81873
41000434	HOUSING ASSY,SERVO		81873
41000434-001	HOUSING ASSY,SERVO		81873
30000754	TUBE,BENT,METALLIC		81873
30000719	SEAT,POPPET		81873
30055112	TRANSDUCER,MOTIONAL PICKUP		81873
30055112-001	TRANSDUCER,MOTIONAL PICKUP		81873
41103740	SERVOCYLINDER		81873
100314	HOUSING ASSY,SERVO		81873
100314-3	HOUSING ASSY,SERVO		81873
105832	LEVER,MANUAL CONTROL		81873
100322	PLUG,PROTECTIVE,DUST AND MOISTURE SEAL		81873
22253640	SERVOVALVE,HYDRAULIC		81873
41001155	PLATE,IDENTIFICATION		81873
10556350	SERVOVALVE	1650-01-572-6484	81873
22252042-101	SERVOVALVE		81873
41006800-103	VIBRATION SUPPRESSION		81873
22281600	SERVOVALVE		81873

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THE POWER OF PARTNERSHIP

AH-1 CAPABILITIES

PACSCI EMC

P/N	DESCRIPTION	NSN
813475-45	SMDC LINE	1377-00-328-8027
813475-49	SMDC LINE	1377-00-328-8047
813475-51	SMDC LINE	1377-00-328-8064
813475-53	SMDC LINE	1377-00-328-8067
813475-55	SMDC LINE	1377-00-328-8073
813475-57	SMDC LINE	1377-00-328-8074
813475-81	SMDC LINE	1377-01-125-6523
813475-91	SMDC LINE	
813475-93	SMDC LINE	
813475-95	SMDC LINE	
814899-1	CONNECTOR	1377-00-328-8046
817237-1	AH-1S KIT PART NUMBER	
813475-105	SMDC LINE	1377-01-035-4124
813475-107	SMDC LINE	1377-01-037-9237
813475-109	SMDC LINE	1377-01-037-4090
813475-111	SMDC LINE	1377-01-037-4096
813475-113	SMDC LINE	1377-01-037-4095
813475-115	SMDC LINE	1377-01-037-4094
813475-117	SMDC LINE	1377-01-037-4093
813475-119	SMDC LINE	1377-01-032-3286
813475-121	SMDC LINE	1377-01-032-3280
813475-125	SMDC LINE	1377-01-032-3283
813475-127	SMDC LINE	1377-01-100-1718
813745-123	SMDC LINE	
814033-101	ARM FIRE INIT.	1377-01-234-0667
816984-107	PIN PULLER	1377-01-037-4091
816986-1	MDC CHARGE ASSEMBLY	1377-01-032-1047
816986-3	MDC CHARGE ASSEMBLY	1377-01-032-1048
816987-103	MDC WINDOW CUTTING ASSY	1377-01-032-1049
816987-105	MDC WINDOW CUTTING ASSY	1377-01-032-0150
817295-101	MDC WINDOW CUTTING ASSY	1377-01-037-4092
819397-103	CONNECTOR	1377-01-062-4195
820810-1	CONNECTOR	1377-01-062-4196
813475-149	THRUSTER	
813475-133	SMDC LINE	1377-01-267-2177
813475-135	SMDC LINE	1377-01-267-2178
813475-153	SMDC LINE	1377-01-441-2310
813475-27	SMDC LINE	1377-00-410-1098
813475-83	SMDC LINE	1377-01-127-4090

P/N	DESCRIPTION	NSN
813475-89	SMDC LINE	
813487-1	CONNECTOR	4730-00-328-8077
813475-45	CONNECTOR	1377-00-328-8027
813475-49	CONNECTOR	1377-00-328-8047
813475-51	FCDC	1377-00-328-8064
813592-8	FCDC	1377-01-441-1676
814033-1	ARM FIRE INIT.	1377-00-328-8080
814280-19	MDC WINDOW CUTTING ASSY	1377-00-409-1095
814280-21	MDC WINDOW CUTTING ASSY	1377-01-267-2179
816002-1	ARM FIRE INIT.	1377-01-124-9239
2-102710-1	CARTRIDGE, AIRCRAFT FIRE EX	1377-01-489-5511
825947-1	CONNECTOR, UNION (INERT)	4730-01-429-5887
857AS606	MDC WINDOW CUTTING ASSY	1377-01-267-2173
857AS607	SMDC LINE SET	1377-01-267-2174
2-102710-1	FIRE EX	1377-01-489-5511
813475-12	SMDC LINE	1377-01-267-2175
813475-131	SMDC LINE	1377-01-267-2176
813475-139	SMDC LINE	1377-01-487-2444
813475-141	SMDC LINE	1377-01-441-2278
813475-147	SMDC LINE	1377-01-441-2386
813475-155	SMDC LINE	1377-01-441-0090
813475-19	SMDC LINE	1377-00-410-8297
813475-79	SMDC LINE	1377-01-125-6522
813592-10	FCDC	1377-01-487-2513
813592-5	FCDC	1377-00-409-1099
813592-7	FCDC	1377-01-441-1650
813592-9	FCDC	1377-01-487-2501
814280-23	MDC WINDOW CUTTING ASSY	1377-00-409-1097
814280-25	MDC WINDOW CUTTING ASSY	1377-00-409-1096
814280-27	MDC WINDOW CUTTING ASSY	1377-01-448-7159
814280-29	MDC WINDOW CUTTING ASSY	1377-01-448-7169
2-103020-1	FIRE EX	1377-01-502-2107
2-103020-2	FIRE EX	1377-01-502-2119
2-103020-3	FIRE EX	1377-01-502-2129
813475-143	SMDC LINE	1377-01-487-2483
813475-151	SMDC LINE	1377-01-529-0812
813475-157	SMDC LINE	1377-01-529-0820
813475-159	SMDC LINE	1377-01-529-0829

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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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BAE SYSTEMS

COMPREHENSIVE DEVELOPMENT CAPABILITIES AND HIGH VOLUME MANUFACTURING

- ARMOR AND COMPOSITE PRODUCTION AREAS ENCOMPASS MORE THAT 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®*, 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 VARITETY OF DYE PACKAGEST AND COATINGS
- CASTABLE TO COMPLEX SHAPES OR SHEET FORM

STANDARD ARMOR FEATURES

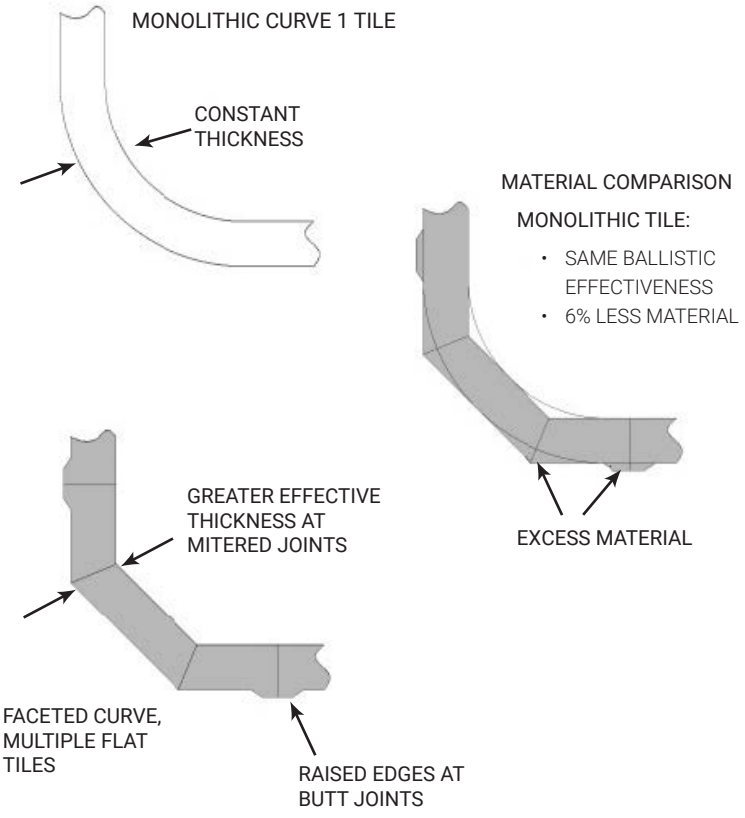
- LIGHTEST WEIGHT AND LOWEST AREAL DENSITY (WEIGHT PER UNIT AREA) IN THE INDUSTRY
- DEFEATS ARMOR PIERCING (AP) THREATS FOR 7.62 MM AND GREATER CALIBERS
- COMPLEX CURVATURES, UNUSUAL SHAPES AS WELL AS FLAT COMPONENTS
- FLEXIBILITY FOR HOLE SIZE AND LOCATION
- WIDE VARIETY OF QUALIFIED MOUNTING/ ATTACHMENT 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 REDUCRED WEIGHT
- ELIMINATION OF RAISED EDGES AND JOINTS
- MINIMIZED PARTS COUNTS AND COSTS
- RETAINED MULTI-HIT PERFORMANCE



THE MONOLITHIC ADVANTAGE IS CLEAR:



*Cleargard® is a registered trademark of BAE Systems

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BAE SYSTEMS

LEGACY SEATING

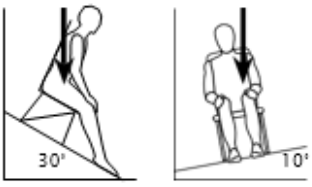
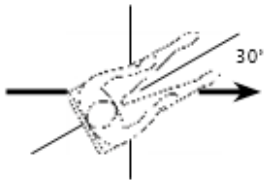
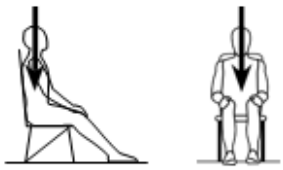
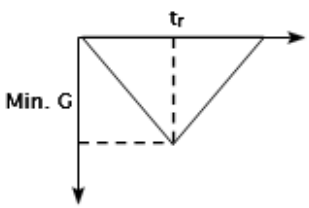
PROVEN COMBAT PERFORMER FOR MILITARY AVIATORS OF THE WORLD

Since the introduction of the first successful military crashworthy crew seat in the UH-60 Black Hawk in 1977, BAE has earned the reputation as a pioneer in aerospace crash safety and combat survivability. Building upon their legacy brand, Simula, the BAE Systems team is dedicated to providing innovative, life-saving products to the rotocraft market. From military folding troop seats to FAA-certified lightweight crew and passenger seats to Presidential VIP seating BAE Systems is the provider of choice for the world's helicopter operators. The legacy seats are crashworthy and include armored options for military crew seating applications.

SEAT MATRIX

							
Part Number	100900	100800	102330	101600	109800	104230	108300
Application	UH-60A/L Black Hawk	AH-64 Apache	SH-60/MH-60R Seahawk	V-22 Osprey	AH-1Z Cobra	AW101 Merlin	AW101 Merlin
Weight	116 lb (52.6 kg)	141 lb (64 kg)	47 lb (21 kg)	90 lb (41 kg)	101 lb (46 kg)	54 - 59 lb (24.9 - 26.8 kg)	117 lb (53 kg)
Qualification	MIL-Std-58095	MIL-Std-58095	MIL-Std-81771	MIL-Std-58095A	MIL-Std-81771	DEF-STAN-970	DEF-STAN-970
Features	– Armored – Floor mounted	– Armored – Bulkhead mounted – Variable-load energy absorber available	– Unarmored – Uparmor kit available – Floor mounted	– Armored – Variable-load energy absorber – Bulkhead mounted – Adjustable armrest	– Armored – Variable-load energy absorber – Bulkhead mounted	– Unarmored – Variable-load energy absorber – Floor mounted – Restraint emergency release – Swivel base available	– Armored – Variable-load energy absorber – Floor mounted – Restraint emergency release – Armored wing panel available

TYPICAL DYNAMIC TEST CONDITIONS

TEST 1		TEST 2		TEST 3		Min G/t_r
						
Parameter	Limits	Parameter	Limits	Parameter	Limits	
Min. V m/sec (ft/sec) Max. tr/sec Min. G	15.2 (50) 0.043 46	Min. V m/sec (ft/sec) Max. tr/sec Min. G	15.2 (50) 0.066 28	Min. V m/sec (ft/sec) Max. tr/sec Min. G	12.8 (42) 0.0366 46	

STANDARD FEATURES: Crashworthy • Armored bucket provides 30-cal AP ballistic protection • 5-point restraint MA-16 inertia reel • Vertical adjustment Horizontal adjustment • Headrest

OPTIONAL FEATURES: Variable load energy-absorber • Ballistic protection up to 50-cal AP • Lightweight, unarmored bucket • Armored wing panels Adjustable armrest • Swivel

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BAE SYSTEMS

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[1]	0103200-3	0110200-1	0111200-3	0115200-1[2]	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_2 cylinders

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AH-1 CAPABILITIES

THOMAS®

PART NUMBER	DESCRIPTION	NSN
41000277	HEAD ASSY, SERVOVALVE	1650-01-163-7597
41001182	PISTON ASSY	1650-01-015-7750



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AH-1 CAPABILITIES

ITT

ENGINEERED FOR LIFE

PART NUMBER	DESCRIPTION	NSN
59216F	BALL,VALVE	2915-00-078-3508
AV23B1106B	VALVE	1560-00-898-9413



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