









CH-53 CAPABILITIES



	<p>Collins Aerospace excels in avionics, lighting systems, power transmission systems, wheels and brakes, and landing gear systems, which include the main, nose and wing landing gear assemblies.</p>
	<p>Extant Aerospace offers advanced avionics upgrades and solutions to enhance the performance, reliability, and capabilities of aircraft systems.</p>
	<p>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.</p>
	<p>Whippany Actuation Systems serves the aerospace and defense industries by designing, manufacturing, and servicing custom electromechanical actuation solutions for commercial and military applications.</p>
	<p>BAE Systems is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.</p>
	<p>Hartwell 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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Collins Aerospace

PART NUMBER	DESCRIPTION	CAGE CODE
2-1451	BRAKE	97153
2-9861	BRAKE	97153
3-1179-1	MAIN WHEL ASSY	97153
419-483	BREAK HEAD ASSY	97153
133-609	DISK	97153



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ELECTROMECHANICAL INDICATORS

Extant Aerospace has a large variety of electromechanical indicators which provide attitude indication across a broad spectrum of applications:

- The Horizontal Situation Indicator (HSI) provides pilot with heading, course, single or dual pointers, remote or manual heading and course pointers, DME readouts, and glideslope.
- The Bearing Distance Heading Indicator (BDHI) displays distances up to 1999 nautical miles (NM) with a bearing pointer which provides information to select station.
- The Attitude Director Indicator (ADI) 2 or 3 axis display of pitch, roll or pitch, roll, and azimuth. Additional features such as rate of turn, glideslope and localizer can also be added.



Production & Repair Support

Part Number	Production	Repair
10673	Yes	On Request
10481	Yes	On Request
10578-002	Yes	On Request
136493	Yes	On Request
114098	Yes	On Request
113540	Yes	On Request
100524	On Request	Yes
102550	On Request	Yes
111302-5	On Request	Yes
111303-4	On Request	Yes
112750	On Request	Yes
125200	On Request	Yes
126460	On Request	Yes
128710	On Request	Yes
129060-21	On Request	Yes
132130	On Request	Yes
132750-5	On Request	Yes
135070-5	On Request	Yes
136670-3	On Request	Yes
137980-1	On Request	Yes
147140-9	On Request	Yes
165840-9	On Request	Yes

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CH-53 CAD/PAD CAPABILITY



PART NUMBER	DESCRIPTION	NSN
2-103480-1	CART, FIRE EXT	N/A



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THE POWER OF PARTNERSHIP



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Whippany Actuation Systems

PART NUMBER	DESCRIPTION	NSN
R5311-2	LINEAR ACTUATOR	
R5311-3	LINEAR ACTUATOR	
R5311-4	LINEAR ACTUATOR	
R5311-5	LINEAR ACTUATOR	1680-01-129-8402



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CH-53 CAPABILITIES

BAE SYSTEMS

AIRCRAFT ARMOR SYSTEMS

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

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 Armored Wing Panel



Monolithic Floor 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.



Monolithic Wall Armor Panel



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^{®*}, 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 PACKAGEST AND COATINGS
- CASTABLE TO COMPLEX SHAPES OR SHEET FORM

STANDARD ARMOR FEATURES

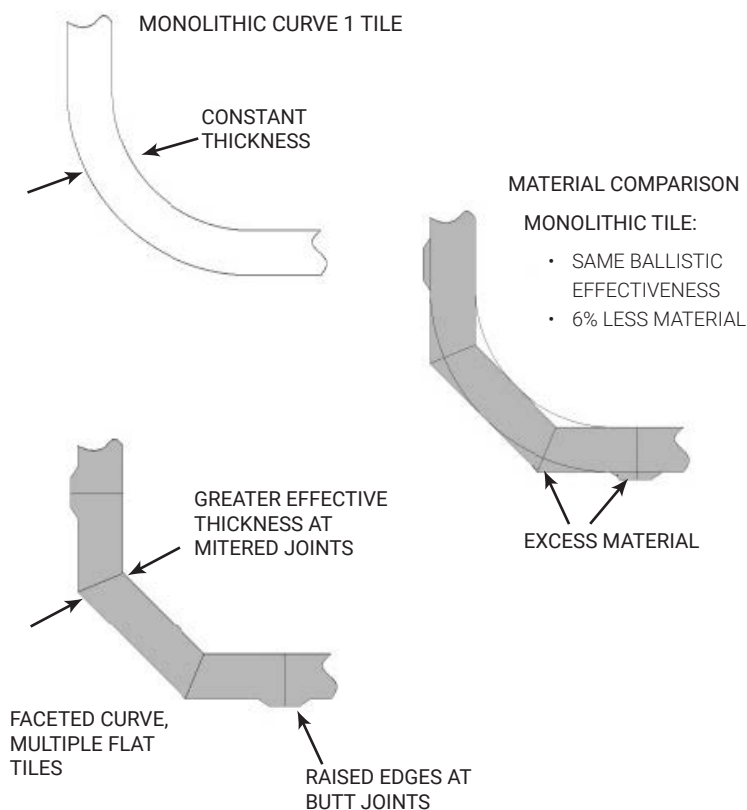
- LIGHTEST WEIGHT AND LOWEST AREAL DENSITY (WEIGHT PER UNIT AREA) IN THE INDUSTRY
- DEFEATS ARMOR PIERCING (AP) THREATS FOR 7.62 MM AND GREATER CALIBERS
- COMPLEX CURVATURES, UNUSUAL SHAPES AS WELL AS FLAT COMPONENTS
- FLEXIBILITY FOR HOLE SIZE AND LOCATION
- WIDE VARIETY OF QUALIFIED MOUNTING/ ATTACHMENT 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 REDUCED 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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LOW PROFILE FLOTATION COLLAR (LPFC)

(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 HARNESSSES
- 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 CO₂ cylinders

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THE POWER OF PARTNERSHIP



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P/N	DESCRIPTION	NSN
H3088-9	NR,LATCH ASSY A561	1650-01-663-3591
H3479-5	LATCH ASSY	1560-01-600-8125
H3479-5K4187	NR,LATCH ASSY A562	1650-01-663-3592
H3708C170D180D		
H3708C180D170D		
H3708K4231		
H499-1	CATCH,FLUSH	5340-00-943-5301
H499-3	LATCH	5342-01-203-0638
H5010-064-179	CATCH,FLUSH	5340-01-121-3040
H5100-2-072-196	CATCH, FLUSH	5340-01-007-0771
H9176S	CATCH,FLUSH	5340-00-576-2482
H9190-5	LATCH SET,RIM	5340-01-008-8987
HA1266-1	LATCH PIN ASSY	
HA1761-1	CLEVIS	
HA764-1		

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