


















UH-60 CAPABILITIES



	Woodward has capabilities of the HMU and is a manufacturer of control systems and control system components for aircraft engines, industrial engines and turbines, power generation and mobile industrial equipment.
	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.
	Robertson Fuel Systems 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.
	Triumph specializes in the design, development, certification, manufacture and repair of fuel pumps, fuel metering units, fuel controls, and electronic engine control systems.
	L3Harris specializes in a range of products including avionics systems, sensors, communication systems, and integrated mission systems to enhance situational awareness, communication, and mission capabilities.
	Aero Fluid Products offers a variety of valves including hydraulic, engine, pneumatic, bleed air, anti-ice, pressure regulating, and fuel along with cabin pressure controls and electromechanical and linear actuators.
	Adams Rite Aerospace has over 80 years experience offering door latching systems, flight controls, door handles, and oxygen tanks, masks, and regulators.
	BAE Systems is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.
	Korry has been a trusted name in human-machine interface (HMI) solutions providing state-of-the-art switches, cockpit controls, night-vision filters, and high-performance KDM displays.
	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.
	Timken engineered bearings include tapered, spherical, cylindrical, thrust, ball, plain, miniature, precision, and housed unit bearings that deliver strong performance, consistently and reliably.
	ColumbusJACK/Regent supplies high-quality hydraulic jacks and lifting systems ensuring safe and efficient lifting, positioning, and maintenance of heavy equipment and structures.
	EnerSys is a prominent enterprise engaged in the manufacturing and distribution of reserve power and motive power batteries, power equipment, and battery accessories.
	RBC Bearings offers a wide range of aerospace and defense products including precision bearings, seals, and components.
	Aces Systems is a compact instrument that combines all of the diverse technologies required for high-end engine vibration analysis, transient balance, fan trim balance, propeller balance and acoustic analysis into one tool.

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UH-60 CAPABILITIES



COLLECTIVE RVDT



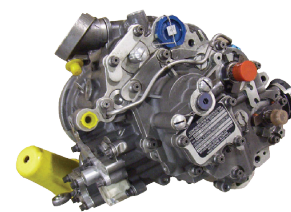
YAW PEDAL DRIVE



CYCLIC PITCH DRIVE



ROLL RVDT



T-700 HMU

CAGE CODE	OEM P/N	WOODWARD P/N	NOMENCLATURE	PRODUCT GROUP	NSN
T-700 ENGINE- BLACKHAWK					
66503	6068T97P03	8061-423	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-301-5661
66503	6068T97P06	8061-444	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-332-2469
66503	6058T65P17	8061-440	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-332-2838
66503	6068T97P12	8061-465	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-492-3907
66503	6058T65P24	8061-474	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-492-4556
66503	6068T97P17	8061-473	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-587-7242
66503	4045T30G07	537P410-01	FUEL INJECTOR	COMBUSTION	2915-01-304-4299
66503	4045T30G05	535P622-01	FUEL INJECTOR	COMBUSTION	2915-01-247-7136

SIKORSKY UH-60 BLACKHAWK HELICOPTER					
19710	AP00028671	343203A	ROLL RVDT	SENSORS	NONE
19710	AP00032770	343204A	COLLECTIVE RVDT	SENSORS	NONE
19710	AP00032766	343205A	PITCH RVDT	SENSORS	NONE
19710	70410-01820-102	3FP210E	YAW PEDAL DRIVE	COCKPIT	NONE
19710	AP00034702-01	CBF238A	CYCLIC PITCH DRIVE	COMPONENTS	NONE
19710	AP00034605	CBF239A	COLLECTIVE DRIVE	COMPONENTS	NONE
19710	22378	CBF240A	CYCLIC ROLL DRIVE	COMPONENTS	NONE

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T-700 MAIN FUEL CONTROL HMU OVERHAUL, EXCHANGE & FACTORY NEW PROGRAM

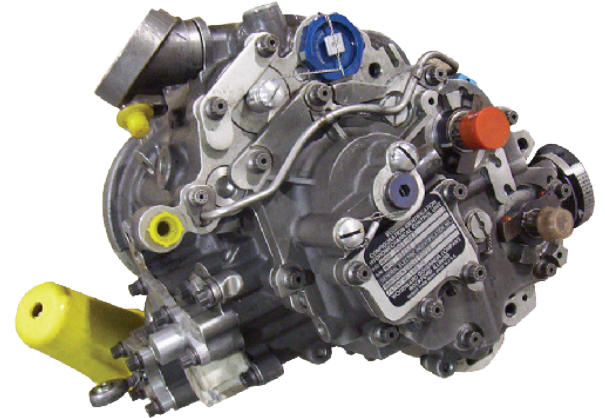
Woodward FST is the OEM for the T-700 Main Fuel Control and Fuel Nozzles.

OPTIONS

WORK SCOPE	DESCRIPTION
TT&E	UNIT IS INSPECTED, FINAL FFP REPAIR PRICE AND REPORT; RETURNED IF PASSES
BASIC OVERHAUL	OVERHAUL HMU PER WOODWARD'S CURRENT COMPONENT MAINTENANCE MANUAL
OVERHAUL/UPGRADE1	UPGRADE CONSISTS OF: <ul style="list-style-type: none"> •MACHINE HOUSING •NEW TORQUE MOTOR •NEW SPEED DEMAND LINKAGE •UPDATED SENSOR (RECOMMENDED)
OVERHAUL/UPGRADE2	IN ADDITION TO THE ABOVE UPGRADE, THE FOLLOWING WILL BE REPLACED: <ul style="list-style-type: none"> •MIN FLOW REGULATOR VALVE •MATCHED BYPASS VALVE •FUEL VALVE
NOT TO EXCEED PRICE	IF PRICE TO OVERHAUL OR UPDATE UNIT EXCEEDS 80% OF SPARE UNIT PRICE, UNIT WILL BE CONSIDERED BEYOND ECONOMICAL REPAIR (BER)

NOTE - TAT based on quantity received and level of work scope. Avg TAT 60 days ARO.

PART NUMBER	DESCRIPTION	NSN	CAGE
6068T97P06	MAIN FUEL CONTROL	2915-01-332-2469	66503
6058T65P17	MAIN FUEL CONTROL	2915-01-332-2838	66503
6068T97P13	MAIN FUEL CONTROL	2915-01-492-3908	66503
6068T97P12	MAIN FUEL CONTROL	2915-01-336-5168	66503
6068T97P09	MAIN FUEL CONTROL	2915-01-365-6768	66503
6058T65P24	MAIN FUEL CONTROL	2915-01-492-4556	66503
6068P97P17	MAIN FUEL CONTROL	2915-01-587-7242	66503
4045T30G07	FUEL NOZZLE	2915-01-304-4299	65065
4045T30G05	FUEL NOZZLE	2915-01-304-4299	65065



MAIN FUEL CONTROL HMU

OEM REPAIR BENEFITS

- Woodward is the OEM of units
- Upgrade available from older version to new version
- Improved TAT (Compared to FMS)
- Overhaul takes +/- 60-90 days on average
- Product/Engineering Support available that FMS can't offer
- Improved Quality/Reliability beyond other repair sources
- Improved MTBF
- Serial Number/Part Number tracking of all Woodward units
- Woodward performs overhaul to the same unit you send
- Twelve month warranty
- Three year warranty for Factory New (FN)

EXCHANGE/REPLACEMENT OF COMPETITOR'S HMU

- For the price of a basic overhaul, Woodward will replace any competitor's fuel controls with a factory new (FN) Woodward model
- You will receive a new, zero time unit with a 3 year warranty in exchange for used hardware
- Delivery lead time 60-90 days
- The unit is the same model currently fielded by the US Army
- Fully interchangeable with the competitor's model

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UH-60 CAPABILITIES



ICE DETECTORS, WINDSHIELD WIPER SYSTEMS

The goals of both IPT and UTC Aerospace Systems companies are to:

- ▶ Help international UH-60 operators prevent AOG situations while improving budget management.
- ▶ Deliver products on time and with optimum value.
- ▶ Provide a complete customer service package responding to spare requirements in an efficient and expedited manner.

NOMENCLATURE	P/N	CAGE	
ADAPTER, PRESSURE TE	884DB	59885	ROSEMOUNT AEROSPACE
BLADE, WINDSHIELD WIPER	2315M-27-2	59885	ROSEMOUNT AEROSPACE
BLADE, WINDSHIELD WIPER	02315-0027-0002	59885	ROSEMOUNT AEROSPACE
DETECTOR, ICE	871FF2	59885	ROSEMOUNT AEROSPACE
ICE RATE INDICATOR	512AE2	59885	ROSEMOUNT AEROSPACE
MOTOR, ALTERNATING CURRENT	XW21157-11	59885	ROSEMOUNT AEROSPACE
MOTOR, ALTERNATING CURRENT	XW21157-11	0JC13	ROSEMOUNT AEROSPACE
MOTOR, ALTERNATING CURRENT	2311M-93-1	59885	ROSEMOUNT AEROSPACE
MOTOR, ALTERNATING CURRENT	02311-0093-0001	59885	ROSEMOUNT AEROSPACE
ADAPTER, PRESSURE TE	884DB	04274	ROSEMOUNT INC
DETECTOR, ICE	871FF2	04274	ROSEMOUNT INC
ICE RATE INDICATOR	512AE2	04274	ROSEMOUNT INC

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UH-60 CAPABILITIES

ROBERTSON

FUEL SYSTEMS

A HEICO COMPANY

UTILITY MISSIONS CRASHWORTHY SURVIVABLE FUEL SYSTEMS

Robertson is proud to help safeguard UH-60 crews with battle-proven crashworthy fuel systems, each designed to the highest standards and built for self-sealing fuel containment, survivability and ease of installation.

CEFS

CRASHWORTHY EXTERNAL FUEL SYSTEM



Average usable fuel
195 gals



Dimensions
180 X 25 in.



Estimated weight with restraint
593 lbs.

- AIRCRAFTS: UH-60 A/L/M
- INSTALLATION OF UP TO 4 TANKS
- INSTALLATION AND REMOVAL IN APPROXIMATELY 15 MINS PER TANK USING CEFS LIFTER SYSTEM
- SINGLE-POINT PRESSURE REFUELABLE
- MINIMAL AIRCRAFT MODIFICATIONS TO AFMP, AIRFRAME AND ESSS
- CRASHWORTHY & SELF-SEALING IAW MIL-DTL-27422



SUPPORT EQUIPMENT

FARE KIT FORWARD AREA REFUELING KIT

- REFUELS OTHER AIRCRAFT OR GROUND VEHICLES WITH MULTIPLE FORWARD AREA REFUELING STATIONS FROM THE CARRYING AIRCRAFT
- SELF-PRIMING 120 GPM CENTRIFUGAL PUMP MODULE
- UTILIZES 115/200 VAC, 400 HZ, 3-PHASE AIRCRAFT AUXILIARY POWER
- 592 LBS

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CASF CONFORMAL AUXILIARY SYSTEM

 Average usable fuel 100 gals	 Dimensions 33.2 x 34.5 x 17.7 in.	 Estimated weight with restraint 260 lbs.
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FEATURES

- AIRCRAFT: HH-60G PAVE HAWK, MH-60S SEAHWAK, S-70A BLACKHAWK, S-70I BLACK HAWK, UH-60A/L/M BLACK HAWK
- INSTALLATION OF UP TO 2 TANKS
- INSTALLATION AND REMOVAL IN APPROXIMATELY 15 MINS PER TANK USING CAFS LITTER
- UTILIZES EXSISTING CRACHWORTHY EXTERNAL FUEL SYSTEM (CEFS) A-KIT
- OVER-WING (GRAVITY) REFUELABLE
- CRASHWORTHY & SELF-SEALING IAW MIL-DTL-27422
- IN DEVELOPMENT




SUPPORT EQUIPMENT

CAFS LITTER

- INTERGAL PART OF TANK STORAGE CRADLE SYSTEM
- PROTECTS TANK FROM DAMAGE DURING HANDLING AND TRANSPORT
- LIGHTWEIGHT THIN SHELL CONTOURED TO THE BOTTOM OF THE CAFS TANK
- THERMO FORMED PLASTIC CONTRUCTION
- USED TO LIFT CAFS TANK INTO POSITION ON AIRCRAFT
- PROVIDES MULTIPLE HANDLES TO SUPPPORT MULTI-PERSON LIFTING
- UTILIZES TWO STRAPS TO TRANSFER TANK STIFFNESS TO THE LITTER

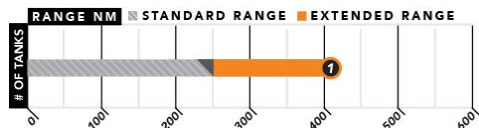


GUARDIAN SINGLE IFATS INTERNAL AUXILARY FUEL TANK SYSTEM

 Average usable fuel 193 gals	 Dimensions 74 x 19.5 x 42 in.	 Estimated weight with restraint 392 lbs.
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FEATURES

- AIRCRAFT: HH-60G PAVE HAWK, MH-60S SEAHWAK, S-70A BLACKHAWK, S-70I BLACK HAWK, UH-60A/L/M BLACK HAWK
- INSTALLATION OF UP TO 2 TANKS
- INSTALLATION AND REMOVAL IN APPROXIMATELY 10MINS
- OCCUPIES MINIMAL CARGO COMPARTMENT SPACE
- COCKPIT FUEL QUANTITY INDICATION SYSTEM
- FUEL TRANSFER BY SUCTION OR INTERNAL PUMP
- COCKPIT CONTROLLED FUEL TRANSFER
- CRASHWORTHY & SELF-SEALING IAW MIL-DTL-27422



SUPPORT EQUIPMENT

MICRO-FARE

MICRO FORWARD AREA REFUELING EQUIPMENT

FEATURES

- UP TO 2 FORWARD AREA REFUELING POINTS
- POWERFUL SELF-PRIMING 120 GPM PUMP
- UTILIZES 115/200 VAC, 400 HZ, 3-PHASE AIRCRAFT ELETRICAL POWER
- INTEGRATED CONTROL BOX
- TAILORABLE REFUELING EQUIPMENT OPTIONS
- 316 LBS.



RESCUE HOIST BRACKET

FEATURES

- PERMITS CONCURENT INSTALLATION AND OPERATION OF THE 193 GALLON INTERNAL AUXILARY FUEL TANK SYSTEMS (IAFTS) AND THE INTERNAL RESCUE HOIST
- EASILY INSTALLED WITHIN MINUTES USING TWO (2) FLOOR TIE-DOWN RINGS
- ADJUSTABLE LENGTHS TO FIT ALL H-60 AIRCRAFTS
- PROVIDES IDENTICAL LOCATION FOR RESCUE HOIST LOWER MOUNT STUD



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UH-60 CAPABILITIES



EMC-102 EDECU ENHANCED DIGITAL ELECTRONIC CONTROL UNIT

The EMC-102 EDECU is configured as a common supervisory engine control for both T700-GE-701C/D and T700-GE-401C applications. Slated for use by the Army on current fielded models of Black Hawk helicopters, the control is configured with modern electronics, allowing for a more reliable alternative to the present Black Hawk control. The control unit is also compatible with the AH-64 Apache. The control is qualified to the latest Army requirements for superior operability in adverse environments.

TYPICAL INPUTS / OUTPUTS PER CHANNEL

- 3 Frequency inputs
- 14 Discrete inputs
- 1 RS-232 data link
- 1 CAN data link
- 1 Solenoid driver
- 1 MIL-STD-1553 interface
- 1 Position input (LVDT)
- 1 Torque motor output
- 2 Analog outputs
- 1 Frequency output
- Thermocouple input
- Relay driver

ELECTRONIC CONTROL UNIT SPECIFICATIONS

CONSTRUCTION	ENVIRONMENTALLY SEALED PEEK HOUSING
AMBIENT TEMPERATURE RANGE	- 40°C TO +85°C
EMI / EMC PROTECTION	ADS-37-PRF, RTCA/DO-160, MIL-STD-461
SINGLE CHANNEL	FREESCALE POWERPC® PROCESSOR
DIGITAL DATA PORTS	CAN/RS-232 (MAINTENANCE DATA)
OVERSPEED PROTECTION	DUAL REDUNDANT (SOFTWARE/HARDWARE)
EXTERNAL CONNECTORS	MILITARY STYLE CIRCULAR CONNECTORS
WEIGHT	7.4 LBS.

ENGINE MANUFACTURER P/N	TRIUMPH P/N
4155T12P05	116007-05A2-08
4155T12P05	116007-05A3-08
4155T12P06	116007-05A3-12
4155T12P07	116007-05A4-14
4155T12P07	116007-05A5-14
4155T12P08	116007-05A5-17
4155T12P09	116007-05C5-17

REPLACES ALL OF THE FOLLOWING:

CURRENT NSN	P/N
2995-01-340-5503	5078T29G01
2995-01-367-7628	5078T29G02
2995-01-396-1357	5078T29G04
2995-01-482-9559	5078T29G05
2995-01-521-0520	5078T29G06
2995-01-530-2353	5078T29G10

**INCLUDING LATEST DECU P/Ns

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UH-60 CAPABILITIES



CIRCUIT CARD AND POWER SUPPLY REPAIR PROGRAM

NAME	P/N	CAGE	NSN
CIRCUIT CARD ASSEMBLY	3187820	60225	5998-00-205-1946
CIRCUIT CARD ASSEMBLY	3187855	60225	5998-00-215-0072
CIRCUIT CARD ASSEMBLY	3310500	60225	5998-00-402-7789
CIRCUIT CARD ASSEMBLY	3183565	60225	5998-00-402-7854
CIRCUIT CARD ASSEMBLY	53326495	60225	5998-01-114-6784
ELECTRONIC COMPONENTS ASSEMBLY	3183930	60225	5998-00-406-3324
MOTOR, HYDRAULIC	3157910	60225	1650-00-901-2578
POWER SUPPLY	3183292-11	60225	6130-00-444-7549
POWER SUPPLY	3326403-4	60225	6130-01-114-6826
POWER SUPPLY ASSEMBLY	3183400	60225	6130-00-485-7467
RING ASSEMBLY, ELECTRICAL CONTACT	3193110	60225	5977-01-101-4721



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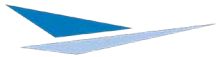
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UH-60 CAPABILITIES



AEROFLUIDPRODUCTS

P/N	DESCRIPTION	NSN
512900-3	VALVE, LINEAR, DIRECTIONAL CONTROL	4810-01-607-7882



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UH-60 CAPABILITIES



Adams Rite Aerospace

P/N	DESCRIPTION	NSN
69565	COVER	
69829	BLUE SWITCH	
31982-3	SWITCH ASSY, PUSH BUTTON	
32011-11	SWITCH, PUSH BUTTON	
53234-11	JOYSTICK, DATA ENTRY	
69566-3	TRIGGER GUARD MACHING	
4276-3	LATCH	
53234-5	HAND CONTROL UNIT	
4262	HANDLE ASSY	1680-01-102-6066
4187-3	HANDLE	
4201	HANDLE, LEVER	1680-01-102-6065
4195-1	HANDLE, DOOR	1680-01-105-1691
AR4920-3	HANDLE, DOOR SH60 SEAHAWK	1680-01-609-3531
2906	HANDLE, BOW	5340-01-166-4486
30568	RING RETAINING	5325-01-519-6508
64369	ACTUATOR ASSY	5340-01-519-8792

P/N	DESCRIPTION	NSN
64374	LINK, LOCK	5340-01-519-8367
64375	BEARING, LOCK	5340-01-519-8799
64379	BELL CRANK	3040-01-520-6757
64384	ROD, LOCK	5340-01-519-8793
64385	LEVER, MANUAL CONTROL	5340-01-519-7465
64386	LEVER, MANUAL CONTROL	5340-01-519-7463
64388	SPRING, HELICAL, COMPRESSION	5360-01-519-6494
64391	BRACKET	5340-01-519-7457
65597	ESCUTCHEON ASSEMBLY	5340-01-519-6415
67887	SPACER, SLEEVE	5365-01-519-8066
4195-7	LATCH ASSEMBLY,AIRCRAFT	1560-01-406-8974
517-900-013	DIAPHRAGM, GASKET	1660-00-385-2878
64368-3	PLATE, MOUNTING	5340-01-519-7462
64376-1	BRACKET, MULTIPLE ANGLE	5340-01-519-8082

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THE POWER OF PARTNERSHIP



UH-60

ALE-47 COUNTERMEASURES DISPENSER SYSTEM

BAE SYSTEMS

The ALE-47 Airborne Countermeasures Dispenser System identifies and defeats infrared and radio frequency missiles.

The ALE-47 system uses information from integrated electronic warfare sensors such as radar warning receivers and missile warning receivers to determine the correct response to defeat infrared and radio frequency guided missiles. The cockpit crew has complete control of their threat situation by choosing to operate in any of the four modes: automatic, semiautomatic, manual, and bypass.

BENEFITS

- Combat proven
- More than 3,000 systems installed
- Operating in 30 countries
- Integrates with EW sensors
- Interchangeable with obsolete ALE-40/ALE-39 and M-130 systems
- Uses U.S. and NATO standard and new RF and infrared decoys
- Glass cockpit compatible



COCKPIT DISPLAY UNIT



PROGRAMMER



DISPENSER ASSEMBLY



MAGAZINE ASSEMBLY

PART NUMBER	DESCRIPTION	NSN
179720-0001	SWITCH, SAFETY	5930-01-333-2196
179750-0001	DISPENSER	5865-01-334-8349
179740-0002	COCKPIT DISPLAY UNIT	5865-01-380-8046
179730-0005	PROGRAMMER	5865-01-437-3371
179730-0006	PROGRAMMER	5865-01-437-3373
179250-0003	SEQUENCER	5865-01-451-2868
179250-0012	SEQUENCER	5865-01-527-2187



SAFETY SWITCH

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ALE-47 SUPPORT EQUIPMENT

Countermeasures Dispensing Test Sets (CDTS)

- P/N 188100-7001
- Safety requirement for operational use
 - Stray Voltage Testing
- End-to-End System Testing
 - Suitable for Engineering Lab, System Integration Lab, System Troubleshooting, and Flight Line use



CDTS



MLV

Memory Load Verifier (MLV)

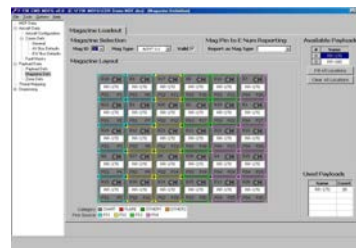
- Loads/Verifies ALE-47 Programmer Software
 - Mission Data File (MDF)
 - Operational Flight Program (OFP)
- MIL-STD-1553 Interface
- Hosted on a Ruggedized COTS computer
 - Suitable for Flightline Use
- Can be combined with TMG on single computer

Threat Matrix Generator (TMG)

- COTS computer configured with BAE Systems proprietary software
- Create and edit Mission Data Files (MDFs) for the ALE-47 Programmer
- Each TMG version supports MDF development for all aircraft with the same ALE-47 Operational Flight Program (OFP)
- Data screens are grouped in a logical manner, promotes ease of use
- Validates values entered are within acceptable ranges



Sample TMG Screens



SLTS

Intermediate-Level Tester

I-level tester is the Shop Level Test Set (SLTS)

- Acceptance Testing and Intermediate Level Testing of ALE-47 Electronic LRUs
 - Same Acceptance Test Procedure (ATP) performed at the OEM
- Identifies faults at the Circuit Card Assembly (CCA) level
- New technology refreshed in 2015
- Year over year contracts for international customers ensures upgrades and availability
- Single SLTS can test all ALE-47 LRUs across multiple platform types

Logistics Support

- Direct Commercial Sales (DCS) arrangement recommended
 - Foreign Military Sales (FMS) not required
- Spares can be positioned at end user facilities
- With SLTS, I-level repairs can be performed in-country
- Spares positioned at BAE Systems OEM factory
- Reduced lead time
- Depot repairs at BAE Systems OEM factory

AIRCRAFT ARMOR SYSTEMS

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

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 Armored Wing Panel



Monolithic Floor Armor Panel

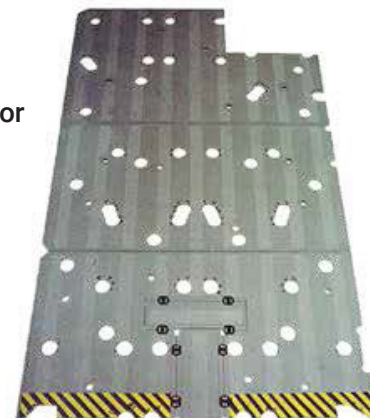


Monolithic Wall Armor Panel

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

Floor Armor



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7230 HOLLISTER AVENUE
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P. 805 682 0842 F. 805 682 9434

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 PACKAGES AND COATINGS
- CASTABLE TO COMPLEX SHAPES OR SHEET FORM

STANDARD ARMOR FEATURES

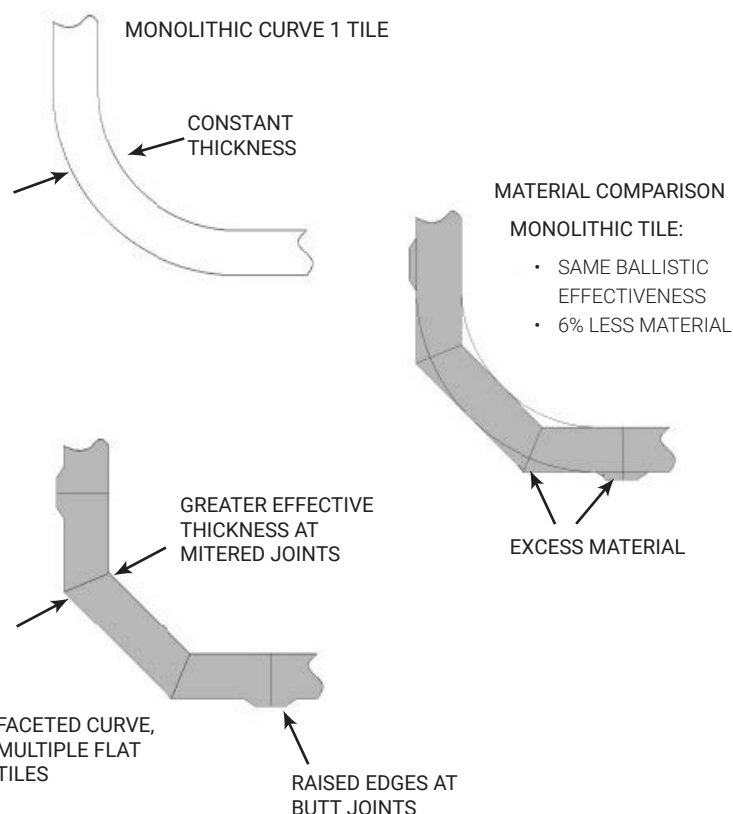
- LIGHTEST WEIGHT AND LOWEST AREAL DENSITY (WEIGHT PER UNIT AREA) IN THE INDUSTRY
- DEFEATS ARMOR PIERCING (AP) THREATS FOR 7.62 MM AND GREATER CALIBERS
- COMPLEX CURVATURES, UNUSUAL SHAPES AS WELL AS FLAT COMPONENTS
- FLEXIBILITY FOR HOLE SIZE AND LOCATION
- WIDE VARIETY OF QUALIFIED MOUNTING/ ATTACHMENT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



*Cleargard® is a registered trademark of BAE Systems

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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	<ul style="list-style-type: none"> - Armored - Floor mounted 	<ul style="list-style-type: none"> - Armored - Bulkhead mounted - Variable-load energy absorber available 	<ul style="list-style-type: none"> - Unarmored - Uparmor kit available - Floor mounted 	<ul style="list-style-type: none"> - Armored - Variable-load energy absorber - Bulkhead mounted - Adjustable armrest 	<ul style="list-style-type: none"> - Armored - Variable-load energy absorber - Bulkhead mounted 	<ul style="list-style-type: none"> - Unarmored - Variable-load energy absorber - Floor mounted - Restraint emergency release - Swivel base available 	<ul style="list-style-type: none"> - 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/tr
Parameter	Limits	Parameter	Limits	Parameter	Limits	
Min. V m/sec (ft/sec)	15.2 (50)	Min. V m/sec (ft/sec)	15.2 (50)	Min. V m/sec (ft/sec)	12.8 (42)	
Max. tr/sec	0.043	Max. tr/sec	0.066	Max. tr/sec	0.0366	
Min. G	46	Min. G	28	Min. G	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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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 CO₂ cylinders

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The AN/ARC-164 standard avionics radio provides the DoD and NATO standard anti-jam UHF voice communications in support of modern military operations.

- 10 watts AM; 25 KHz channel spacing
- Have Quick II ECCM
- Line-of-sight voice
- 2,000 hours demonstrated mean-time-between-failures (MTBF)
- COMSEC/secure speech compatible
- ANVIS Green A front panel lighting and electronic fill port
- Form, fit, function replacement for obsolete UHF radios
- Upgradeable in the field



CONFIGURATION	WIDTH (in)	HEIGHT (in)	DEPTH (in)	WEIGHT (lb)
RT-1504	4.98	4.730	8.32	8.84
RT-1505A	5.75	4.875	8.85	9.25
RT-1518C	5.75	4.875	8.85	9.25
RT-1614*	4.98	4.730	9.11	9.75
C-11718	5.75	4.875	5.44	4.32
MXF-243	5.74	2.980	5.45	3.00

MOUNTING CONFIGURATION	RT-1505A Panel	RT-1518C Panel	RT-1504 Remote	RT-1614 Remote
FREQUENCY RANGE	225.000 to 399.975 MHz			
NO. OF CHANNELS	UHF 7000 (including 20 preset and 1 Guard channel available from panel mount RT and the radio set control).			
MODULATION TYPE	AM			
PRIMARY POWER	R/T Receiver: 35 watts to 16 watts typical Transmitter: 110 watts to 85 watts typical at 24 to 33 Vdc			
CONTROL BOXES	20 watts at 24 to 33 Vdc			
CHANNEL TIME CHANGE	0.25 second maximum in normal mode			
AGC	+5, -4 dB from 4 μ V to 0.5V (all receivers) (1 mV ref)			
SQUELCH	ADJUSTMENT RANGE 0 to 4 μ V minimum			
	HYSTERESIS 2 to 8 dB			
	ATTACK TIME 50 milliseconds maximum			
SELECTIVITY	Narrowband	Wideband		
6 dB	\pm 12 kHz minimum	\pm 35 kHz minimum		
40 dB	\pm 25 kHz maximum			
60 dB		\pm 75 kHz		
AUDIO OUTPUT POWER LEVEL	Normal 200mW Min (Adj)	Wideband		
VOLTAGE LEVEL		2.0 Vrms min		
LOAD IMPEDANCE	150 ohms	500 ohms		
RESPONSE	+1, -3 dB (300 to 3500 Hz)	+3, -5 dB (70 to 25 kHz)		
DISTORTION AT 50% MOD	10% maximum			
VOLTAGE LEVEL	35 dB	No squelch		
VOLTAGE LEVEL	37 dB	Not controlled		

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UH-60 COCKPIT INTERFACE PRODUCTS

Korry

NSN	KORRY P/N	SIKORSKY P/N	DESCRIPTION
1680015735859	1120000-005	70450-01825-105	CONTROL SYS
5930015584789	28399-001	70550-01814-101	SWITCH
5930015584790	28399-002	70550-01814-102	SWITCH
5930015584791	28399-003	70550-01814-103	SWITCH
5930015584792	28399-004	70550-01814-104	SWITCH
5930015584793	28399-005	70550-01814-105	INDICATOR
5930015584795	28399-006	70550-01814-106	INDICATOR
5930015584796	28399-007	70550-01814-107	INDICATOR
5930015584797	28399-008	70550-01814-108	INDICATOR
5930015584807	28399-010	70550-01814-110	INDICATOR
5930015538749	28399-013	70550-01814-113	SWITCH
1680013917116	16658-001	70550-81808-101	CPA
1680015584787	29714-001	70600-01828-101	CPA
NONE	1123000-001	70450-01827-101	CONTROL SYS
NONE	37284-001	70550-01819-101	CPA
NONE	38440-001	70550-01850-101	CPA



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UH-60 CAPABILITIES



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.

Hartwell Corporation (83104) and Integrated Procurement Technologies have entered into an agreement to support military customer needs worldwide. This proactive partnership enables us to provide optimized solutions for high performance components to military operators around the world.

P/N	DESCRIPTION	NSN
H165-1-081-915	CATCH,FLUSH	5340-01-121-3041
H2639-1	CATCH,FRICTION	5340-01-006-1145
H2766-3	LATCH,MORTISE	5340-01-113-8181
H3230-1	LATCH SET,RIM	5340-01-321-7980
H3738-1		
H3738-2	LATCH SET,MORTISE	5340-01-563-6734
H5000-2-064-196	CATCH,FLUSH	5340-00-025-2193
H5000-2-091-250	LATCH	
H5010-040-081	CATCH,FLUSH	5340-01-339-3320
H5010-040-091	CATCH,FLUSH	5340-01-166-8110
H5010-064-179	CATCH,FLUSH	5340-01-121-3040
H5010-072-188		
H5010-072-196	CATCH,FLUSH	5340-01-166-8111
H5010-072-340	CATCH,FLUSH	
H5010-081-196	CATCH,FLUSH	5340-01-116-9592
H5010-081-218	LATCH ASSY	
H5010-081-250	CATCH,FLUSH	5340-01-596-7695

P/N	DESCRIPTION	NSN
H5010K1941	LATCH ASSEMBLY	1560-01-119-3375
H5100-2-072-196	CATCH,FLUSH	5340-01-007-0771
H5100K1499	CATCH,FLUSH	5340-01-097-4918
H521K2113	CATCH,CLAMPING	5340-01-154-8567
H620-3S100D	LATCH	
H80-1	HINGE	
H80K3896		
H9300-1	CATCH,FLUSH	5340-00-623-8151
H967-3	HINGE ASSEMBLY	5342-01-168-8931
H171-1-090-192		
H5010-072-188		
H5010-072-340		
H5010-081-218		
H5100K1499	CATCH,FLUSH	5340-01-097-4918
H521K2113	CATCH,CLAMPING	5340-01-154-8567
H619S250CK4155		
H620-3S100D	LATCH	

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UH-60 BEARINGS

TIMKEN

NOMENCLATURE	P/N	CAGE
BALL, ANNULAR BEARING, BALL, ANNULAR	M5206W1PPVM-101	21335
RING, BEARING, INNER	BJ87-3	21335
BEARING, BALL, DUPLEX	70951-08561-041	15152
CONE AND ROLLERS, TAPERED ROLLER BEARING	HM617048XX-2-397	60038
CONE AND ROLLERS, TAPERED ROLLER BEARING	29586XX-2-397	60038
CONE AND ROLLERS, TAPERED ROLLER BEARING	SB3266-102	60038
CONE, TAPERED ROLLER BEARING	L217849XX-2-397	60038
CONE, TAPERED ROLLER BEARING	A39809	60038
CONE, TAPERED ROLLER BEARING	LL639249XX-2-397	60038
CUP, TAPERED ROLLER BEARING	L610510XX-2-397	60038
CUP, TAPERED ROLLER BEARING	SB3265-201	60038
CUP, TAPERED ROLLER BEARING	HM617010XX-2-397	60038
CUP, TAPERED ROLLER BEARING	SB3313-201	60038
CUP, TAPERED ROLLER BEARING	SB3314-201	60038
CUP, TAPERED ROLLER BEARING	L116110XX-2-397	60038
CUP, TAPERED ROLLER BEARING	LL639210XX-2-397	60038
CUP, TAPERED ROLLER BEARING	42584XX-2-397	60038
CUP, TAPERED ROLLER BEARING	SB3353-201	60038
CUP, TAPERED ROLLER BEARING	29520XX-2-397	60038



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UH-60 CAPABILITIES



MAINTENANCE CRANES



MODEL 9319-010
1500 LB. PORTABLE FLOOR CRANE
NSN: 3950-01-371-9144

TRANSPORT TRAILER



MODEL 5380-010
8,000 LB. CAPACITY
Type 3000B
NSN: 1740-00-061-3039

AIRCRAFT JACKS



MODEL 810D110
25 TON TRIPOD JACK
NSN: 1730-01-182-0231

HAND CARRY AXLE JACK



MODEL 53D22020
5 TON CAPACITY
NSN: 1730-00-540-2343

AIRCRAFT AXLE JACK



MODEL 53D22004
10 TON AXLE JACK
NSN: 1730-00-203-4697

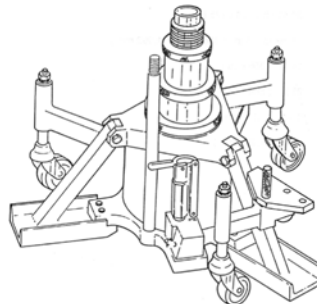
JACK TESTERS



MODEL 7054-020
PORTABLE JACK TESTER

MODEL 1013-8000
PORTABLE JACK TESTER

MULTI-STAGE TRIPOD JACK



MODEL CJ69J1270
12 TON CAPACITY
NSN: 1730-00-201-4849

BEAD BREAKERS



MODEL 715J1000EX
NSN: 4910-01-267-7191

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UH-60 MAIN BATTERY



P/N	NSN	WEIGHT	L X W X H (IN)	SPECIFICATION	CAPACITY
 F0769-6030	6140-01-286-6294	34.8 Lbs	7.8 x 8.4 x 7.8	MIL D8565/11-1	10 Ah at (C1)
 F0772-3005	6140-01-498-2223	14.6 Lbs	9.3 x 7.7 x 4.6	MIL D8565/16-1	5 Ah at (C1)

The Hawker Advantage:

- Dispatched from the manufacturer's factory fully charged.
- Inspection free storage life of 2 years when stored at or under 25°C (77°F).
- Completely sealed and virtually maintenance-free.
- Fully supports aerobatic operations.
- Long life, pure lead grids.
- Recovers from deep discharge.
- Vents and thermal sensors not required.
- Easy commissioning, normally consisting of only a voltage check.
- US D.O.T. Regulation 49 C.F.R. Section 173.159 para d.
- Classified as non-hazardous and unrestricted for transportation when correctly packed.

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THE POWER OF PARTNERSHIP



UH-60 CAPABILITIES



DESCRIPTION	P/N	CAGE CODE	NSN
BLOCK, CYLINDER, MUNITIONS EJECTOR	60H46522-301	81376	1095-00-450-8502
BEARING, PLAIN, SELF-ALIGNING	76986	9455	5935-00-222-9906
RING, BEARING, INNER	BJ87-3	3NPS1	3110-01-114-1001



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UH-60 CAPABILITIES



VIPER-2E 4-CHANNEL ANALYZER

The VIPER-2E is a versatile yet compact instrument that combines all of the diverse technologies required for high-end engine vibration analysis, transient balance, fan trim balance, propeller balance and acoustic analysis into one tool. All of these maintenance functions can be easily performed on virtually any airframe and/or engine type using the VIPER-2E.



FEATURES

- Transient Balance yields test cell quality balancing results
- Direct PDF report generation onto a USB flash drive
- .CSV export of raw data for further analysis
- SmartTach speed and phase processing allows direct measurement of the engine speed signal
- Four-channel simultaneous data acquisition for speed and accuracy
- Supports inputs for (4) Vibration Channels, (4) Mag P/U or Optical Tach Inputs, (1) TraX Optical Tracker, and (1) Strobe
- USB port for direct connection to peripherals
- Housed in ZERO case for maximum environmental protection
- 1-year warranty plan for defects of components and workmanship

1. TRANSIENT VIBRATION ANALYSIS

Accurate High-Speed Run-up and Coast-Down Transient Surveys

2. TRANSIENT BALANCE

Save Time and Money by Collecting Data in a Single Sweep

3. MIL-SPEC DESIGN

Ensure Reliability of Measurements in Harsh Environments

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