









THE POWER OF PARTNERSHIP



# AH-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>PacSci EMC</b> 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><b>BAE Systems</b> is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.</p>   |
|  | <p><b>Thomas Instruments</b> 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.</p> |
|  | <p><b>ITT Aerospace Controls</b> manufactures linear and rotary actuators, fuel, hydraulic, pneumatic, motor and solenoid operated valves, pumps, and electro-mechanical switches.</p>   |
|  | <p><b>Avionic Instruments</b> produces advanced power conversion, control equipment, and electrical distribution components and systems including static inverters, frequency converters and RTR/TRUs.</p>   |

**RICARDO FLORES**  
 BUSINESS DEVELOPMENT DIRECTOR  
 AMERICAS & SOUTH ASIA  
[ricardo@iptsb.com](mailto:ricardo@iptsb.com)

**TAY KAY LAI**  
 BUSINESS DEVELOPMENT DIRECTOR  
 ASIA/PAC  
[tay@iptsb.com](mailto:tay@iptsb.com)

**MONICA SEMPERLOTTI**  
 BUSINESS DEVELOPMENT DIRECTOR  
 EMEA  
[monica@iptsb.com](mailto:monica@iptsb.com)

**INTEGRATED PROCUREMENT TECHNOLOGIES**  
 7230 HOLLISTER AVENUE  
 GOLETA, CA 93117 USA  
 P. 805 682 0842 F. 805 682 9434

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# AH-1 CAPABILITIES



| 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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# AH-1 CAPABILITIES



| 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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# AH-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

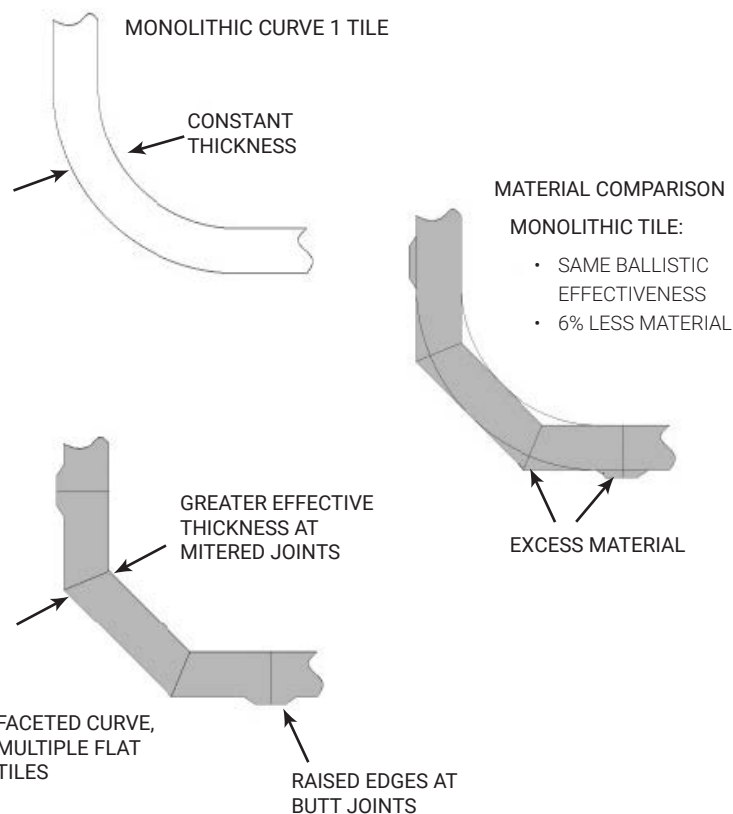
- LIGHTEST WEIGHT AND LOWEST AREAL DENSITY (WEIGHT PER UNIT AREA) IN THE INDUSTRY
- DEFEATS ARMOR PIERCING (AP) THREATS FOR 7.62 MM AND GREATER CALIBERS
- COMPLEX CURVATURES, UNUSUAL SHAPES AS WELL AS FLAT COMPONENTS
- FLEXIBILITY FOR HOLE SIZE AND LOCATION
- WIDE VARIETY OF QUALIFIED MOUNTING/ ATTACHMENT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



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

**RICARDO FLORES**  
BUSINESS DEVELOPMENT DIRECTOR  
AMERICAS & SOUTH ASIA  
[ricardo@iptsb.com](mailto:ricardo@iptsb.com)

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ASIA/PAC  
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EMEA  
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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"> <li>- Armored</li> <li>- Floor mounted</li> </ul> | <ul style="list-style-type: none"> <li>- Armored</li> <li>- Bulkhead mounted</li> <li>- Variable-load energy absorber available</li> </ul> | <ul style="list-style-type: none"> <li>- Unarmored</li> <li>- Uparmor kit available</li> <li>- Floor mounted</li> </ul> | <ul style="list-style-type: none"> <li>- Armored</li> <li>- Variable-load energy absorber</li> <li>- Bulkhead mounted</li> <li>- Adjustable armrest</li> </ul> | <ul style="list-style-type: none"> <li>- Armored</li> <li>- Variable-load energy absorber</li> <li>- Bulkhead mounted</li> </ul> | <ul style="list-style-type: none"> <li>- Unarmored</li> <li>- Variable-load energy absorber</li> <li>- Floor mounted</li> <li>- Restraint emergency release</li> <li>- Swivel base available</li> </ul> | <ul style="list-style-type: none"> <li>- Armored</li> <li>- Variable-load energy absorber</li> <li>- Floor mounted</li> <li>- Restraint emergency release</li> <li>- Armored wing panel available</li> </ul> |

### 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 <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)<br>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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| 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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[tay@iptsb.com](mailto:tay@iptsb.com)

**MONICA SEMPERLOTTI**  
BUSINESS DEVELOPMENT DIRECTOR  
EMEA  
[monica@iptsb.com](mailto:monica@iptsb.com)

**INTEGRATED PROCUREMENT TECHNOLOGIES**  
7230 HOLLISTER AVENUE  
GOLETA, CA 93117 USA  
P. 805 682 0842 F. 805 682 9434

# AH-1 CAPABILITIES



Avionic Instruments  
*Aerospace for Industry™*



| PART NUMBER     | MODEL NUMBER    | DESCRIPTION     | NSN              |
|-----------------|-----------------|-----------------|------------------|
| 1-002-0102-2107 | XLDV38-5B-2107  | LIGHT DIMMER    | 1680-01-562-2683 |
| 1-002-0102-1931 | XLDP70-28B-1931 | LIGHT DIMMER    | 1680-01-524-1079 |
| 1-002-0102-2308 | 1E1500-1A-2308  | STATIC INVERTER | 1680-01-584-2944 |



**RICARDO FLORES**  
BUSINESS DEVELOPMENT DIRECTOR  
AMERICAS & SOUTH ASIA  
[ricardo@iptsb.com](mailto:ricardo@iptsb.com)

**TAY KAY LAI**  
BUSINESS DEVELOPMENT DIRECTOR  
ASIA/PAC  
[tay@iptsb.com](mailto:tay@iptsb.com)

**MONICA SEMPERLOTTI**  
BUSINESS DEVELOPMENT DIRECTOR  
EMEA  
[monica@iptsb.com](mailto:monica@iptsb.com)

**INTEGRATED PROCUREMENT TECHNOLOGIES**  
7230 HOLLISTER AVENUE  
GOLETA, CA 93117 USA  
P. 805 682 0842 F. 805 682 9434