








# GSE CAPABILITIES

## THE POWER OF PARTNERSHIP

OEM	CAPABILITIES
 <p><b>Columbus Jack</b> A TRONAIR COMPANY</p>	VARIABLE HEIGHT TRIPOD JACK P/N 50J25178; HAND-CARRY AXLE JACK P/N CJ67D0250-1; PORTABLE FLOOR CRANE P/N 9319-010 AIRCRAFT JACKS P/N 8704-010, 972-018, 55A6309, 50J5178, 53J6268, 8654-010 JACK TESTERS P/N 7054-020, 7186-010; BEAD BREAKERS P/N 9323-020, 715J1000EX, WHEEL DOLLY P/N 9764-010; RECOVERY SYSTEM P/N 48C7171; FLOOR CRANE P/N 9319-010
 <p><b>G-FORCES</b> MANUFACTURING</p>	ANTI-G GARMENTS P/N MIL-A-83406
 <p><b>Chemring</b> Energetic Devices</p>	JOINT COMBINED AIRCREW SYSTEM TESTER (JCAST) P/N 6177100-20
 <p><b>BAE SYSTEMS</b></p>	COUNTERMEASURES DISPENSER SYSTEM; COUNTERMEASURES DISPENSING TEST SETS; MEMORY LOAD VERIFIER; THREAT MATRIX GENERATOR; INTERMEDIATE-LEVEL TESTER; SHOP LEVEL TEST SET
 <p><b>ITW</b> GSE</p>	JO3C-D4S JOINT OPERATIONS COMBINATION CART; 270VDC POWER SUPPLY; DUAL OUTPUT CONVERTER; 400HZ SOLID-STATE FREQUENCY CONVERTER

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# GSE CAPABILITIES



## AIRCRAFT JACKS

MODEL 8704-010  
35 TON AXLE JACK  
NSN 1730-01-013-4185

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

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

MODEL CJ67D0250-1  
15 TON CAPACITY  
NSN 1730-00-854-2237

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

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

## RECOVERY SYSTEMS

MODEL 48C7171  
11 TON PNEUMATIC LIFTING BAG  
NSN 1730-00-263-2962

## PORTABLE FLOOR CRANE

MODEL 9319-010  
1,500 LB CAPACITY  
NSN 3950-01-371-9144

## AIRCRAFT JACKS - NOSE

MODEL 55A6309  
MANIFOLD KIT  
NSN 1730-00-594-1730

MODEL 972-018  
12 TON TRIPOD JACK  
NSN 1730-01-384-1715

MODEL 50J25178  
10 TON TRIPOD JACK  
NSN 1730-00-516-2019

## BEAD BREAKERS

MODEL 9323-020  
30 TON CAPACITY  
NSN 4910-00-267-9126

MODEL 715J1000EX  
25,200 LBS CAPACITY  
NSN 4910-01-267-7191

MODEL 7094-010  
25,000 LB CAPACITY  
NSN 4910-01-305-7271

## JACK TESTERS

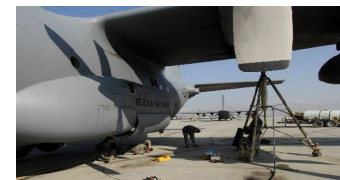
MODEL 7054-020  
PORTABLE JACK TESTER

MODEL 1013-8000  
PORTABLE JACK TESTER

## AIRCRAFT JACKS - WINGS

MODEL 53J6268  
30 TON TRIPOD JACK  
NSN 1730-00-516-2017

MODEL 8654-010  
30 TON TRIPOD JACK  
NSN 1730-01-068-1126



## WHEEL DOLLY

MODEL 9764-010  
800 LBS CAPACITY  
NSN 1730-00-529-8231



## ENGINE TRANSPORTATION

MODEL 5380-010  
8,000 LB CAPACITY  
NSN 1740-00-061-3039



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# ANTI-G GARMENT

## G-FORCES MANUFACTURING

G-Forces Manufacturing has produced over 90,000 Anti-G Garments for Air Force and Navy pilots with ZERO failures in field use. These suits are designed to the highest military specifications, conforming to USAF Standard CSU-13B/P and US Navy Standard CSU-15A/P.

The Anti-G Garments have been manufactured with proprietary RF welding systems and sewing techniques since 1992 to the most stringent standards of any sewn military-use product.

### US MIL SPEC #MIL-A-83406

#### NSN

#### SIZE

8475-00-545-8197	SMALL (REGULAR)
8475-00-545-8204	SMALL (LONG)
8475-00-545-8211	MEDIUM (REGULAR)
8475-00-550-7394	MEDIUM (LONG)
8475-00-545-8221	LARGE (REGULAR)
8475-00-545-8227	LARGE (LONG)
8475-00-545-8248	LARGE (X-LONG)



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# JCAST

# JOINT COMBINED AIRCREW SYSTEMS TESTER

**Chemring**  
Energetic Devices

The Joint Combined Aircrew Systems Tester (JCAST) integrates several required items of test equipment into a single, portable, rugged, self contained test unit. The JCAST Tester meets or exceeds the USAF testing requirements for today's helmets, masks, Anti-G Garments, associated oxygen connections, and communications systems. This test equipment eliminates the need for high pressure air/oxygen cylinders, hazardous materials, and it will significantly reduce supporting man-hours, deployment costs, and mobility footprint.

## FEATURES

- Eliminates the need for multiple test sets
- Easily Upgradeable and Expandable
- Supports Fighters, Fixed, and Rotary Wing ALSE, Pre-flight and Recurring Inspection/Maintenance Requirements
- COMBAT EDGE Equipment Fitting and Testing
- Replaces MQ-1, TTU-529/E, G-Suit Pumps/Devices, MH-2, DMH-1
- Designed for In-Shop, Field and Deployment
- Provides Proper Pressure and Flows to Enable Complete Functional Testing of ALSE
- Provides Power to Test Type EEU-2/P Flashblindness Goggles
- Helmet/Mask Inspection and Troubleshooting
- Mask Microphone, Helmet Earphones and Headset Testing
- Active Noise Reduction (ANR) Headsets
- MMR Flow and Relief Valve Testing
- Easily Aligned to Calibration Standards

## JCAST

P/N: 6177100-20

NSN: 4920-01-619-9654



## SPECIFICATIONS:

SIZE: 18.9 IN X 28.8 IN X 16 IN

WEIGHT: 125 LBS

POWER: 100-240 OV AC

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# 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



SAFETY SWITCH

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

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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



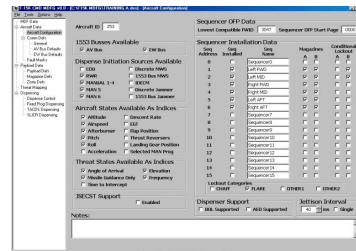
MLV

### Memory Load Verifier (MLV)

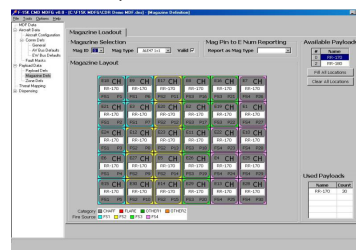
- Loads/Verifies ALE-47 Programmer Software
  - Mission Data File (MDF)
  - Operational Flight Program (OFP)
- MIL-STD-1553 Interface
- Hosted on a Ruggedized COTS computer
  - Suitable for Flightline Use
- Can be combined with TMG on single computer

### 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

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# J03C JOINT OPERATIONS CONFIGURABLE COMBINATION CART



**PART NUMBER: J03C-D4S**



**DIESEL DRIVEN**



**ELECTRIC DRIVEN**

**APPLICATION**

The J03C follows a modular design concept that allows the customer the greatest amount of flexibility to select the required cooling and power outputs. Power modules may be removed from the J03C and utilized as stand-alone units. In addition, modules may be swapped to reconfigure the cart for various aircraft platforms. As a result of this flexibility, the J03C eliminates the need for multiple ground support carts by replacing them with one cart that services all fighter applications. Future aircraft power and air conditioning requirements may be met with upgrading existing modules or simply replacing a module with a new one. This eliminates the need to acquire new carts for aircraft platform modifications and variances. The unit also features Data Logging, Fault Data Storage, BIT Testing, and a simple operator interface. Data may be downloaded via a USB memory interface.

**PERFORMANCE FEATURES**

- Available in Diesel-Driven, Electric-Driven, or Both for mobile and facility power applications
- Power Modules also stand-alone capable with dedicated control panel
- Easy access to all parts requiring periodic maintenance
- Smallest and lightest weight unit on the market
- EPA Certified Tier III diesel engine
- R134A refrigerant
- USB Communication Port
- Air transportable with C130 aircraft
- Ability to set, store, retrieve, and use customer setting for output air pressure, flow and temperature
- Power quality exceeds MIL-STD-704F and F-35 standards
- Simplified control panel and indications
- All information available via digital display

**MAINTENANCE**

The J03C simplifies maintenance of GSE equipment. If a module requires maintenance, only the module needs be removed from service while the rest of the cart remains fully functional. In addition, a module can simply be replaced, returning the cart to full service while the original module is being serviced.

**OPTIONS**

- Solid State 400Hz converter (90kVA)
- Solid State 270 VDC converter (72kW)
- Servo Air
- Diesel or Electric powered (or both)

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