

# Commanders' Smart Book



## Equipment Catalog



# Commanders' Smart Book Equipment Catalog

The Commanders' Smart Book is a compilation of new MIL SPEC Combat Service Support equipment and systems that can be used during deployments to austere environments.

The primary focus is on items developed by the Natick Soldier Center (NSC).

At the NSC, "We Do Something for the Warfighter Every Day." In keeping with this motto, we are deeply committed to making our soldiers, and other members of the American Armed Forces, the best equipped, best clothed, best fed, and best protected in the world. We are extremely proud that our diligent research and development efforts culminate in combat items that save lives, protect soldiers against battlefield threats and environmental hazards, and steadily elevate their quality of life to higher and higher levels.

For additional information or to request copies please contact:

## **Smart Book Team POC's**

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[http://www.natick.army.mil/pubs/SmartBook\\_Web.pdf](http://www.natick.army.mil/pubs/SmartBook_Web.pdf)

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# Points of Contact

## Field Services

DSN: 256-5543, (508) 233-5543

DSN: 256-5257, (508) 233-5257

## Shelters

DSN: 256-4067, (508) 233-4067

DSN: 256-5257, (508) 233-5257

DSN: 872-4686 X-331, (850) 882-4686 X-331

Defense Support Center Philadelphia – Base Camp

<http://ct.dscp.dla.mil/ctinfo/basecamp/>

## Non-powered Heaters and Powered

DSN: 256-5637, (508) 233-5637

## Generators & Power Distribution Systems

DSN 654-3168, (703) 704-3168

## ACTD & Urban Technology

DSN: 256-4663, (508) 233-4663

DSN: 880-2408, (973) 724-2408

DSN: 654-2757, (703) 704-2757

DSN: 992-3573, (732) 427-3573

DSN: 970-8558, (407) 384-8558

# Point of Contact

(continued)

## **Natick Soldier Center Website**

[www.natick.army.mil](http://www.natick.army.mil)

## **Hot Line/Quick Reaction Coordinator**

DSN 256-5413, (508) 233-5413

NOTE: Please contact the Hot Line or one of the listed Points of Contact if you identify or utilize a commercial item that augments your requirements but is not met by a Standard Issued Item in the areas highlighted within this Equipment Catalog.



# Field Services

# Mobile Kitchen Trailer-Improvement



**Capabilities:** Kit improves the performance and effectiveness of the MKT

**Description:** Kit includes new fabric, cold weather skirt, lights, ventilation, griddle, floor mats, ice chest, and insulated food containers

**Power requirements:** 120V AC, ~300kW

**Size:** N/A

**Weight:** N/A

**Contractor:** Penn Metals, PA

**Cost:** \$10,000

**Availability:** Individual components available for acquisition.

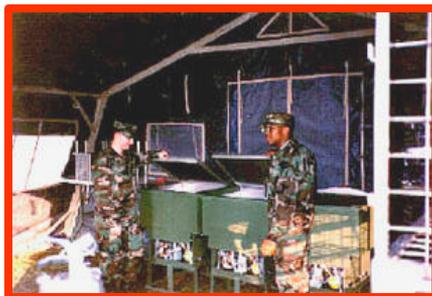
**Transportability:** Tow w/ 2½T cargo truck, fits on C-130

**Supportability:** TM 10-7360-206-13, Oct 2000

**NSN:** 7360-01-469-5482

**POC:** DSN 256-5543, (508) 233-5543

# Food Sanitation Center



**Capabilities:** Provides required sanitation to support field kitchen operations. Replaces immersion heaters and steel trash cans currently used to heat water.

**Description:** Consists of three sinks, stands and covers, burners, drain tables, work table, storage and drying racks and ancillary equipment. Uses sanitation method with three sinks of water maintained at different temperatures for successive cleaning, rinsing, and sanitizing pots, pans, and cooking utensils. System housed in 16' x 20' TEMPER tent. One FSC supports two MKTs or one CK.

**Power requirements:** 120VAC when outfitted with MBU

**Weight:** 1,600 lbs

**Cost:** \$18,000

**Status/availability:** Available standard supply system.

**Transportability:** 2-1/2 or 5 ton truck

**Supportability:** TM 10-7360-211-13&P

**NSN:** 7360-01-277-2558

**POC:** DSN 256-5540, (508)233-5540

# Containerized Shower



**Capabilities:** Provides a clean environment for soldiers to shower with privacy. Each shower stall has individual controls for adjusting water pressure and temperature. Allows 72 soldiers to shower per hour (10 minute shower). System capable of collecting waste water and can pump it up to 500' for disposal/storage.

**Description:** 12 commercial, fiberglass shower stalls, onboard ejector pump, and M80 water heater.

**Power requirements:** 10kW, 120 volt, single phase

**Size (LxWxH):** 20'x8'x8' ISO Container

**Weight:** 8,500 lbs

**Cost:** \$75,000

**Availability:** 180 day lead-time.

**Transportability:** Land, air or sea

**NSN:** 4540-01-470-1398

**POC:** DSN 256-5540, (508) 233-5540

# Small Unit Shower



**Capabilities:** Lightweight, portable shower system provides shower support for small units in forward areas. Provides up to 24 showers per hour.

**Description:** Compact heating unit burns diesel or JP-8 fuels. Provides temperature controlled water at 95°-105° F. Air beam supported tent with four individual shower stalls provides privacy and controlled water drainage. Set up/tear down by two soldiers in 15 minutes.

**Power requirements:** 28VDC via NATO slave cable connection to vehicle.

**Size (LxWxH):** Heater: 20"x13"x21"; Shelter: 8' x12'x7' (setup), two bags (packed) 35"x29"x17" each.

**Weight:** 225 lbs

**Cost:** \$14,700

**Status/availability:** CTA item (CTA 50-909), available through supply system.

**NSN:** 4510-01-409-0139

**POC:** DSN 256-5543, (508) 233-5543

# The Battlefield 12-Head Shower



**Capabilities:** Provides the capability for hot showers in the field at a rate of 72 showers (10 minute each) per hour.

**Description:** The 12-Head Shower consists of six 2-man shower stalls made of fiberglass bases with fabric secured over a framework of aluminum tubing. A combination of hose connections and a pump assembly water supply provides drainage for the shower facility. Hot water is provided by the diesel/JP8 fired M-80 water heater. Two 3-sink shave stands are also included. System packaged in 2 TRICON containers.

**Power requirements:** 5kW, 208 volts, 3 phase

**Size (LxWxH):** 20'x8'x7'

**Weight:** 2,000 lbs

**Cost:** \$31,775 (includes shower, generator, M80 water heater)

**Status/availability:** Available through supply system.

**NSN:** 4510-01-163-6775

**POC:** DSN 256-5540, (508) 233-5540

# Containerized Self-Serve Laundry



**Capabilities:** Provides facility for soldiers to wash and dry personal laundry. Can service 120 soldiers per day.

**Description:** 6 stackable commercial washer/ dryer units mounted in a 20'x8'x8' ISO container. A tent is provided as folding and sorting area.

**Power requirements:** 30kW (two 100 amp connectors)

**Size (LxWxH):** 20'x8'x8' ISO container w/ 8' TEMPER tent and connecting bootwall.

**Weight:** <10,000lbs

**Cost:** \$75,000

**Status/availability:** 150 day lead-time; War Reserve Operational Project stock.

**NSN:** 3510-01-474-9035

**POC:** DSN 256-5540, (508) 233-5540

# Containerized Chapel



**Capabilities:** Fully functional chapel providing religious needs to basecamps of up to 550 soldiers.

**Description:** The CC is contained in one 20'x8'x8' ISO container which includes 64' of tentage, 2-ECU's, power generation/distribution, seating for 100, and religious supplies. Cold Weather Kit includes an Army Space Heater and a 5kW Generator.

**Power requirements:** 120/208 VAC 30 kW

**Size(LxWxH):** 20'x8'x8' ISO + 64' TEMPER Tent

**Weight:** 15,000 lbs (approx.)

**Cost:** \$125,000 (approx.)

**Status/availability:** 1 year lead-time; War Reserve Operational Project stock.

**NSN:** 9925-01-481-5136

**POC:** DSN 256-5540, (508)233-5540

# Chaplaincy Logistical Support Package



**Capabilities:** Provides the capability for Unit Missionary Teams (UMT) to carry ecclesiastical supplies, administrative supplies, and computer hardware (not included) in a consolidated package anywhere they travel on the battlefield.

**Description:** Lightweight container which functions as a portable altar, work station, and storage for religious supplies.

**Power requirements:** None

**Size (LxWxH):** 30"x28" x20.5"

**Weight:** 80 lbs

**Cost:** \$600 (approx.) (not including linens)

**Status/availability:** CTA item; 60 day lead-time.

**NSN:** 9925-01-479-5319

**POC:** DSN 256-5540, (508)233-5540

# Containerized Latrine



**Capabilities:** Provides latrine service for 150 soldiers with individual privacy and increased sanitation.

**Description:** Privacy stalls with 6-low water flush toilets, a trough urinal, two waste collection tanks, two sinks w/running hot/cold water, one 6-gallon water heater, mirrors, and dispensers for toilet paper, paper towels and soap. Each stall has hooks and shelves. Heater/AC unit installed in the rear wall to regulate internal temperature and a fan is mounted on front wall to provide ventilation.

**Power requirements:** 10kW, 120/208 V, 50/60 Hz, 3 phase

**Size(LxWxH):** 20'x8'x8' ISO Container

**Weight:** <10,000 lbs

**Cost:** \$55,000

**Status/availability:** 30 day lead-time; War Reserve Operational Project stock.

**Transportability:** Land, air or sea

**NSN:** 4540-01-477-7764

**POC:** DSN 256-5540, (508) 233-5540

# Parachute Prototype Shop

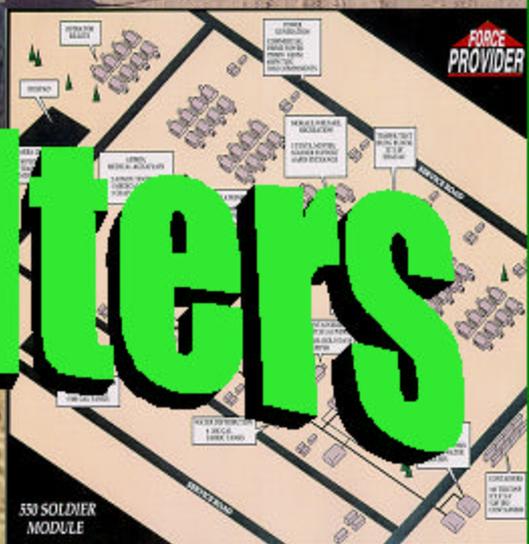
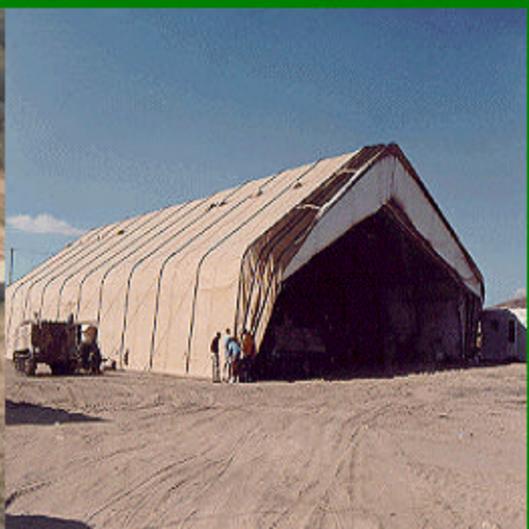
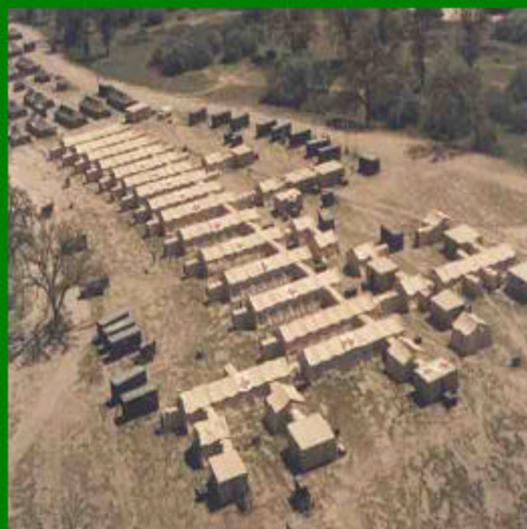


The **Parachute Prototype Shop** has the capability to fabricate prototype parachutes, harnesses, and accessories, make modifications such as upgrading or fixing existing fielded equipment, as well as provide quick response production capabilities. The team provides technical support as required for airdrop items, Their work is not limited to only airdrop; however, it is their main focus.

Services include:

- Fabricate experimental, prototype, and limited engineering test quantities of airdrop textile end items.
- Develop fabrication process for developmental airdrop textile items for utilization of special textile materials for airdrop items.
- Test and evaluate textile fabrication machines and techniques for possible application by Department of the Army (DA).
- Fabricate and maintain parachutes and related airdrop items in support of flight and static test activities.
- Design in-house developed textile items.
- Develop packing and rigging procedures for developmental parachutes and related items.
- Participate in Government inspections of industry-produced items.
- Staffed by 4 Equipment Specialists and 2 Fabric Workers
- Over 100 years of combined experience in Military Airdrop/Aerial Delivery
- Small production facility meets the individual customer requirements with minimal paperwork.
- Customers include: All military services as well as state and local special operation groups.

**POC:** DSN 256-4495, (508) 233-4495



# BASE CAMP

## The Tentage Super Store



An online TM for tents that utilizes the Defense Support Center Philadelphia's (DSCP) Clothing and Textiles "Warfighter" catalog ordering system.

With links to a comparison table of military standard shelters, new Army shelters, Army heaters and field service equipment.

Additional links are provided to Resource Handbooks for shelters, accessories, support parts, shelter links, U.S. DOD Defense Links and Industrial Base Links.

Base Camp can be found at the following Web Site:

**Email:** <http://ct.dscp.dla.mil/ctinfo/basecamp/>

# 21<sup>st</sup> Century Fabric Structures Group Prototyping Capabilities



**Solar Shade**



**Chem/Bio Liners and Airlocks**



**Stealth Shelters**



**Shelter Bootwalls**

The 21<sup>st</sup> Century Fabric Structures Prototype Shop is a fully staffed design and fabrication unit located at the U.S. Army Natick Soldier Center. It can produce prototypes and undertake small production runs of shelters and shelter components.

- Industry standard sewing capabilities
- Heat sealing and tape sealing utilizing hot air & hot wedge
- RF sealing
- Full prototyping capabilities from design through finished drawings
- Augmented by metal prototyping shop, rain room, environmental chambers, camouflage detection room and fabric testing facilities
- Staffed by 4 senior equipment specialist and 3 equipment specialist
- Over 75 years of combined experience in military shelters
- Small production facility meets the individual customers requirements with minimal paperwork but time sensitive
- Customers include: USMC, USAF, Force Provider, 1<sup>st</sup> SFG, 201<sup>st</sup> MI Project Manager Soldier Support, Defense Support Center Philadelphia

**POC:** DSN: 256-5024, (508) 233-5024

# Modular General Purpose Tent System



**Capabilities:** Provides a multipurpose, modular, weatherproof shelter that improves upon the General Purpose (GP) Small, Medium and Large tents in the areas of habitability, weight, erect/strike time, supportability, durability, mobility, and versatility.

**Description:** MGPTS is a larger, modular, pole supported tent with vinyl-coated polyester fabric that is a more versatile and habitable replacement of the old GP Small, Medium, & Large tents.

**Power requirements:** None; electrical feed-throughs are provided to accept external power sources.

**Size (LxWxH):** Small 18' x 18' x 11.5' (7' H sidewall)  
Medium 36' x 18' x 11.5' (7' H sidewall)  
Large 54' x 18' x 11.5' (7' H sidewall)

**Weight:** Small 470 lbs  
Med 795 lbs  
Large 1107 lbs

**Cost:** Small \$6,250; Med \$8,800; Large \$13,800

**Status/availability:** CTA 50-909 item, available now thru DLA.

**Transportability:** Air, land and sea

**Supportability:** TM 10-8340-240-12&P

**NSN:** Small 8340-01-456-3633 (green)/8340-01-491-1507 (tan)  
Medium 8340-01-456-3628 (green)/8340-01-491-1515 (tan)  
Large 8340-01-456-3674 (green)/8340-01-491-1479 (tan)

**POC:** DSN: 256-5637, (508) 233-5637

# Forward Operation Base System-Bare Base Command and Control Module



**Capabilities:** This is a 3600 square foot complex designed to provide work and living space for 30 soldiers. It is a complete system and includes shelters, floors, liners, vestibules, tables, mapboards, chairs, lighting, DISE box, power panels, an electrical distribution system and cots. An Early Entry 10 soldier Jump TOC may be segmented from the system to support advanced parties.

**Description:** The main building blocks are the Modular General Purpose Tent System (MGPTS), command post components from the Modular Command Post System (MCPS), TEMPER tent vestibules and commercial components from the construction industry. About 90% of the C2-MOD components are type classified and all are fully supportable. It can be configured in multiple ways and includes a "Commanders Play Book". The Play Book allows the brigade command staff to lay out the system on a felt diagram using velcro replicas of the basic shelter components. We are also working on bootwalls to interconnect shelters to vehicles.

# Forward Operation Base System-Bare Base Command and Control Module



**Power requirements:** Supplied with a 100A DISE Box which feeds five 50A 1ph Power Distribution Panels (PDP). Each PDP provides six 20A GFI protected circuits. A secondary power distribution system provides a 20A triplex outlet at 9' O.C.

**Size:** 3600 sq feet

**Weight:** Approx. 8500 lbs

**Cost:** \$125k

**Availability:** 60 days from receipt of MIRP

**Transportability:** May be transported in one 20' MILVAN or three ISU-90 Containers. In this configuration it takes 3 C-130 pallet spaces. May also be packed on three Cargo HMMWVs and two M101 Trailers. Equals one C-141 load with vehicles.

**NSN:** Various NSNs

**POC:** DSN 256-5257, (508) 233-5257

# Early Entry LSE System (EELS) Command Post



**Capabilities:** This is a 1032 square foot command post complex designed to provide workspace for 20 soldiers (MGPTS Medium) plus a conference area or Commander's Office (MGPTS Small). It is a complete system and includes shelters, floors, vestibules, tables, mapboards, chairs, lighting, DISE box, power panels, an electrical distribution system and deployment bags. It is supplied with an 648 square feet. MGPTS based billeting wing, electrical, lighting and standard cots. Each wing sleeps 14 - 16 soldiers.

**Description:** The Bare Base EELS is a subset of the C2 Module (C2-MOD). The main building blocks for the EELS are the Modular General Purpose Tent System (MGPTS), command post components from the Standard Integrated Command Post System (SICPS), TEMPER tent vestibules and commercial components from the construction industry. About 90% of the EELS components are type classified and all are fully supportable. The EELS has add on environmental kits that include an air distribution system, the Field Deployable Environmental Control Unit, (FDECU) and solar covers for passive cooling. EELS may also be ordered with additional billeting wings.

## EELS - Continued



**Power requirements:** Supplied with a 200A DISE Box which feeds three, 50A 3 ph Power Distribution Panels (PDP). Each PDP provides six 20A (4 GFI protected) circuits. A secondary power distribution system provides a 15A triplex outlet at 9' O.C.

**Size:** 1,680 sq ft

**Weight:** 11,140 lbs (approx.)

**Cost:** \$128,000 with 3 FDECU's and 1 Billeting Wing

**Available :** 60 days from receipt of MIPR

**Transportability:** Is packaged in 2 ISU 90 Containers.

**NSN:** various - see separate sheet

**POC:** DSN 256-5024, (508) 233-5024



EELS Desert Style  
with Solar Covers.  
Solar Covers will  
Provide Passive  
Cooling

# Soldier Crew Tent



**Capabilities:** The SCT was originally developed to provide environmental protection for billeting of combat vehicle crews. The SCT's popularity is promoting a change in the authorization of units in need of billeting for small unit elements.

**Description:** The SCT is a lightweight, durable, single frame, single hub tent. The tent body is suspended from the frame in a canopy style. An over-cover lies on top of the frame to provide an air gap for added insulation. Two reversible over-covers are available in green/tan or green/white configurations. A cold weather cotton liner is also provided. Houses up to 5 soldiers comfortably with 120 square feet floor space. Erect/strike is accomplished in less than 5 minutes. A storage/transport cover is included as well as a field repair kit. A 4" stovepipe opening is included for use with standard military heaters.

**Size (LxWxH):** 11' x 11' x 53"

**Weight:** 75 lbs

**Cost:** \$1150

**Status/availability:** CTA 50-909 item, available now thru DLA.

**Transportability:** All traditional modes

**Supportability:** TM 10-8340-227-13 & P

**NSN:** Type I (green/tan) 8340-01-359-0084 /  
Type II (green/white) 8340-01-359-1481

**POC:** DSN: 256-5637, (508)233-5637

# Modular Command Post System



**Capabilities:** Provides a highly mobile, modular tent system that complexes into many configurations for a variety of missions including Command Posts, Tactical Operation Centers (TOCs), administration, billeting, supply, medical and maintenance facilities.

**Description:** The MCPS is lightweight aluminum frame supported tent with coated polyester blackout fabric. Each MCPS includes a flame resistant lightweight internal liner, two 40-watt fluorescent light fixtures, two field tables, four plywood mapboard panels, and 121 square feet of uninterrupted floor space. Erect/strike is accomplished by two soldiers in 20 minutes. An optional fabric bootwall kit is available allowing the MCPS to connect directly to tracked and wheeled vehicles.

**Power requirements:** None; electrical feed throughs are provided to accept external power sources.

**Size (LxWxH):** 11' x 11' x 7'-9' (eave to peak)

**Weight:** 595 lbs

**Cost:** \$4,800

**Status/availability:** CTA 50-909 item, available now thru DLA.

**Transportability:** Air, land and sea

**Supportability:** TM 10-8340-222-10

**NSN:** Green - 8340-01-323-2454  
Tan - 8340-01-334-7529

**POC:** DSN: 444-2451 / (215) 737-2451

<http://ct.dscp.dla.mil/ctinfo/basecamp/mcps/mcps.htm>

# Force Provider

Force Provider is the Army's Premier Base Camp. The Force Provider concept was born in 1991 as a result of inadequate living conditions for our soldiers during Desert Shield/Storm. General Sullivan, CSA, directed the development of a containerized, highly deployable "city".

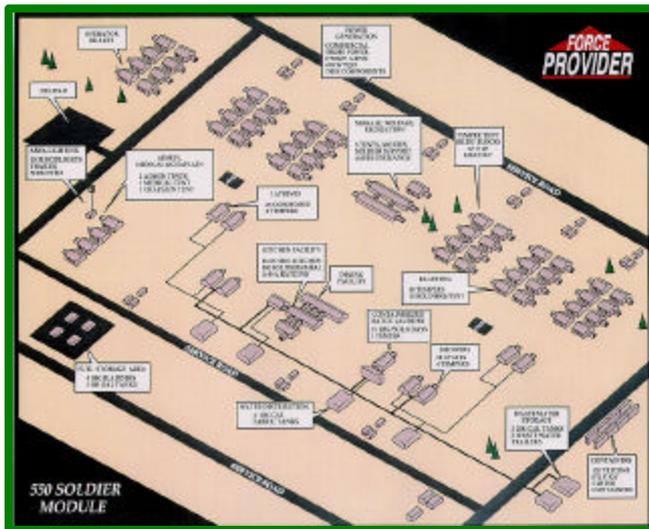
Force Provider is a compilation of existing military and commercial products: containing all the equipment necessary to provide climate-controlled billeting, quality food and dining facilities, hygiene services and MWR facilities to support 550 personnel and 50 operators. The basic building block is the Tent Extendable Modular Personnel (TEMPER) Tent, each equipped with a heating and air conditioning unit. Force Provider comes complete with water and fuel storage, power generation and distribution systems, and waste water collection.

The system is containerized and preconfigured, facilitating movement by any combination of land, air and sea. Missions for Force Provider include rest and refit, theater reception, intermediate staging base, re-deployment and base camps for other military operations such as peacekeeping missions. A typical camp requires approximately 10 acres of land. The site preparation takes approximately 3 to 4 days with the entire camp fully operational in 14 days or less. Force Provider has provided high quality living conditions in Guatemala, Honduras, Haiti, Guantanamo Bay and Bosnia. The APM Force Provider Office is currently working on modernization plans, to increase the efficiency of the base camp while decreasing operation and maintenance costs.

The logo for Force Provider features the word "FORCE" in a bold, black, sans-serif font, positioned above the word "PROVIDER" in a larger, bold, black, sans-serif font. The text is set against a red, upward-pointing triangle that serves as a background for the word "FORCE". A horizontal red line is positioned below the word "PROVIDER".

**FORCE**  
**PROVIDER**

# Force Provider



Each Module Supports 550 personnel (+50 operators) with:

- Climate Controlled Billeting--TEMPER (15 soldiers per tent)
- Quality Food Service (1800 meals/day "A" rations)
- Laundry Service (200 lbs hour)
- Showers & Latrines (one 10 minute shower/day)
- Morale, Welfare and Recreation Facilities and Equipment
- Power, 60 kW TQGs (1.1 MW Continuous) or Prime Power Support
- Water Storage & Distribution (80K gals/3 days)
- Fuel Storage & Distribution (20K gals/3 days)
- Waste Water Collection (30K gals/day)
- System Support Packages-- 30 days spare & repair parts
- Transportable--air, rail, land, sea (containerized) 103 TRICONS, 3 ISOs and rolling stock

**POC:** DSN 256-4136, (508)233-4136

# Lightweight Maintenance Enclosure



**Capabilities:** Provides the capability to have a light-weight, mobile repair shelter for tracked and wheeled vehicles across the battlefield under all climatic conditions.

**Description:** Vinyl-coated polyester fabric panels and aluminum components and assemblies.

**Power requirements:** Power distribution box provided, 70 Amp/120VAC

**Size(LxWxH):** 32' x 24' x 13.5'

**Weight:** 1,400 lbs

**Cost:** \$10,500

**Availability:** Fielded as MTOE item using HQDA-provided DAMPL.

**Transportability:** Traditional air, land and sea methods.

**Supportability:** Standard Army Retail Supply System and Standard Army Maintenance System, TM 10-5410-284-13&P

**NSN:** 5410-01-456-3637

**POC:** DSN 256-5637, (508) 233-5637

# Family of Cargo Bed Covers



**Capabilities:** The Family of Cargo Bed Covers (CBC) replaces existing "Built-Up" structures in the field with a standard item. The CBC protects, stores and secures equipment, tools and pilferable items/supplies while being transported on tactical wheeled vehicles. The CBC does not diminish mobility requirements of its carrier.

**Description:** Each CBC is a lightweight rigid enclosure that is easily mountable to its designed carrier. There are four CBC types: Type I (HMMWV); Type II (1-1/2T Trailer); Type III (2-1/2T Truck/LMTV); Type IV (5T Truck/MTV). Type III/IV CBCs are height reducible for internal aircraft (C-130,C-141) transport.

**Power requirements:** None, electrical cable port provided to accept external power sources.

**Size:** Sized to fit on carrier bed.

**Weight:** Ranges 425 lbs to 760 lbs depending on type

**Cost:** Types I & II - \$7,925; Types III & IV - \$22,500

**Status/availability:** CTA items. All types available now thru SBCCOM/IMMC.

**Transportability:** Sea, land and external/internal air

**Supportability:** Standard Army Systems

**NSN:** Type I-(camo)5411-01-467-3243/ (sand) 5411-01-479-1928  
Type II-(camo)5411-01-467-3185/ (sand)5411-01-479-1925  
Type III-(camo)5411-01-472-7852/ (sand)5411-01-479-1932  
Type IV-(camo)5411-01-472-7857/ (sand)5411-01-479-1933

**POC:** DSN: 256-5637, (508)233-5637

# Solar Shades

## Modular Ammunition Solar Shade



**Capabilities:** The lightweight covers reduce the effect of solar loading protecting munitions and maintenance areas from the harsh desert sun and improves the reliability of munitions and maintenance areas.

**Description:** Constructed of an open mesh fabric and designed to be used similar to camouflage. The MASS is supported by standard camouflage poles, 2 sets required.

**Requirement / Concept of Use:** Provide a solar barrier to reduce the effects of solar radiation by 50 – 60%. Primarily developed for use with stored ammunition along with potential applications for supplies, troops, vehicles, etc.

**Size:** 50 ft x 50 ft. **Weight:** 220 – 260 lbs **Setup:** Two Soldiers in 45 minutes

**Support System:** Supplied with 3/16” rope and rebar stakes. An estimated 5,200 MASS are in Depot Stock. Standard camouflage pole supports are not included with the cover.

**DA approval required.**

**POC:** DSN 793-3993, (309) 782-3993

# Solar Shades – Solar Hex



**Description:** Constructed of an open mesh fabric and designed to be used similar to camouflage.

**Requirement/Concept of Use:** Provide a solar barrier to reduce the effects of solar radiation by 50 – 60%. Primarily developed for use with stored ammunition along with potential applications for supplies, troops, vehicles, etc

**Size:** 28 ft. x 32 ft.

**Weight:** 40 lbs

**Set Up:** 2 Soldiers – 30 minutes

**Support System:** Supplied with cable ties only. An estimated 2,400 are in Depot Stock. One Camouflage Support Kit required.

**DA approval required.**

**POC:** DSN 793-3993, (309) 782-3993

# Ammo Solar Cover Family



Type I is 35' x 35'



2 Type II Ammo Solar Covers  
Complexed Over EELS at MC02



Type II at Bright Star



Type III CENTCOM Deployable HQ  
40' x 50'

- Solar Covers Provide a 60% Solar Block
- Reduce Surface Temperatures to Ambient
- Protects Munitions, Equipment and Soldiers

•**Cost:**

	Size	Order 5 or Less	Order more Than 5
Type I	35'x35'	\$3,356.00	\$3,111.00
Type II	50'x50'	\$6,000.00	\$5,500.00
Type III	40'x50'	\$4,720.00	\$4,320.00

•**POC:** DSN 256-5024, COM (508) 233-5024

# Large Area Maintenance Shelters



**Type VM (Vehicle)**



**Type AM (Aviation)**

**Capabilities:** Large area maintenance & repair shelter for helicopters tanks, wheeled vehicles.

**Description:** Both versions are constructed of vinyl coated polyester fabric panels that lock into aluminum beams.

**Power Requirements:** Both come with lights, power distribution boxes and exhaust fans. Require 120/208 Volt, three phase 60Hz.

**Size:** Type AM – 75 ft wide x 190 ft long x 30 ft high  
Type VM – 65 ft wide x 120 ft long x 30 ft high

**Manufacturer:** VM - Canvas Specialties  
AM – Clamshell

**Availability:** War Reserve Stock – DA Approval Required with setup and striking charges applicable.

**Transportability:** Both transportable in two ISO Containers.

**Supportability:** Contractor Support

NSN: VM 5410-01-333-9299

AM – 5410-01-334-31

**POC:** DSN 256-6090, (508) 233-6090  
DSN 256-5257, (508) 233-5257

# Low Profile/Reduced Signature Surveillance Shelter



The Low Profile/Reduced Signature Surveillance Shelter (LP/RSSS) family includes one-, two- and three-soldier solar shelters that protect Special Reconnaissance teams, Laser Targeting teams, and Sniper positions from environmental and detection threats. Using a composite of different fibers, the LP/RSSS reduces both near-infrared and thermal signature while providing protection from temperature extremes that occur during day and night operations. Currently, teams have difficulty operating and avoiding detection from NIR and thermal signatures during daylight hours other than at dawn and dusk. This breakthrough in concealment technology will enable teams to operate around the clock providing a significant increase in protection and concealment for reconnaissance missions. Additionally, due to reduced heat stress, it is envisioned that the team's performance will be enhanced and water use cut. The LP/RSSS concept was developed and assessed as part of the Partnering with a Field Unit initiative and small quantities are being fielded including in Operation Enduring Freedom. Based on the success of early evaluations a formal program plan is under development.

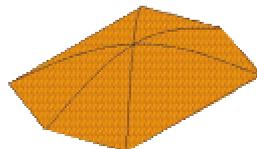
# Low Profile/Reduced Signature Surveillance Shelter (continued)



Overhead View



Front View



Frontal/side view



Types of Shelters	Medium (2-man)	Large (3-man)	Colt (4-man)
Width:	7 ft.	8 ft. 4 in	10 ft.
Length:	8 ft.	9 ft. 4 in.	12 ft.
Adjustable height:	6 in. to 48 in.	6 in. to 48 in.	Front poles 36 in. high, rear poles 32 in.
Clear floor area:	68 sq. ft.	91 sq. ft.	100 sq. ft.
Weight:	10 lbs	15 lbs.	20 lbs.
Cost:	\$1,500	\$1,800	\$2,100
Fabric:	<ul style="list-style-type: none"> <li>• ULCANS camouflage w/ liner (desert &amp; forest) position or over ground</li> <li>• Flame resistant</li> <li>• IR and Thermal protection</li> <li>• Environmental protection</li> </ul>	<ul style="list-style-type: none"> <li>• Designed to be over foxhole/dugout</li> <li>• No poles or ropes</li> <li>• Provides windows / closeable slots for surveillance equipment or weapon.</li> </ul>	<ul style="list-style-type: none"> <li>• Component Bags:</li> <li>• 2 Fly Bags</li> <li>• 1 Pole Bag with Stakes</li> </ul>

**POC:** DSN 256-5339, (508) 233-5339

# US Air Force Small Shelter System



- Modified Commercial
- 650 Sq ft Billeting (20 x 32 ft)
- 30% System Airlift Reduction
- Erects in less than 30 minutes with 4 people
- 100 mph wind/15 psf snow load (65/10)
- HVAC – 3.5 ton ATS
- Twenty-year storage life
- Highly ruggedized
- Cost: \$14k - \$25k (w/HAC)

Contract awarded to Alaska Industrial Resources, Inc. Now on GSA Schedule

**POC:** (850) 882-4686 x331

# US Air Force Medium Shelter System



- Modified Commercial 1500 Sq ft backshops, storage, maintenance (30 x 50 x 15ft)
- 66% Airlift Reduction over AF GP shelter
- Erects in approx 4 hours (75% reduction)
- 30% parts interchangeable with SSS
- Cost: \$45k
- 100 mph wind/15 psf snow load (65/10)
- Twenty year storage life
- Highly ruggedized
- FDECU

Contract awarded to California Industrial Facilities Resources, Inc

**POC:** (850) 882-4686 x331

# US Air Force Expeditionary Medical Support



- Reconfigured Small Shelter System
- 1100 lbs
- Erects in less than 30 minutes
- 100 mph wind/15 psf snow load (65/10)
- Compatible with existing shelters
- Twenty year storage life
- Connectability offers unlimited layout
- Vestibules and extensions
- Bright, spacious, interior
- Surgery suite
- Positive pressure keeps contaminants out of OR
- Highly ruggedized

“Urgent and Compelling” Contract Modification to SSS Contract for 102 shelters (\$2.4M) in FY 00. Now on GSA Schedule.

**POC:** (850) 882-4686 x331



# Non-Powered Heaters



# Space Heater Arctic



**Capabilities:** Provides heated air (radiant and natural convective) to safely and efficiently warm soldiers operating in basic cold, and extreme cold environments. Replaces antiquated, gasoline burning M-50 Yukon Heater.

**Description:** SHA is a lightweight, portable, multi-fueled, non-powered heater intended to heat five and ten man arctic tents. Provides a maximum heat output of 28K BTU with a high/low adjustment capability. Burns liquid and solid fuels.

**Power requirements:** None.

**Size (LxWxH):** 17" x 9" x 17"

**Weight:** 41 lbs

**Cost:** \$783

**Status/availability:** CTA 50-909 item, available now thru DLA.

**NSN:** 4520-01-444-2375

**POC:** DSN: 256-5637, (508)233-5637

# Space Heater - Small



**Capabilities:** Provides heated air to safely and efficiently warm soldiers operating in basic cold, and extreme cold environments. Provides new capability for heating smaller tents (4 man or smaller).

**Description:** SHS is a lightweight, portable, multi-fueled, non-powered heater intended to heat the 4-man Soldier Crew Tent. Provides a maximum heat output of 12K BTU with a high/low adjustment capability. Burns liquid fuels. Integral fuel tank eliminates need for fuel can, fuel can stand, gravity feed adapter, hoses and fittings.

**Power requirements:** None.

**Size (LxWxH):** 16" x 9" x 14"

**Weight:** 32 lbs

**Cost:** \$600

**Status/availability:** CTA 50-909 item, available now thru DLA.

**NSN:** 4520-01-478-9207

**POC:** DSN: 256-5637, (508)233-5637

# Space Heater - Medium



**Capabilities:** Provides heated air to safely and efficiently warm soldiers operating in basic cold, and extreme cold environments. Replaces antiquated M-41 heater that had severe operational and safety deficiencies.

**Description:** H-45 space heater is a 45k BTU heater intended to heat the General Purpose and TEMPER tents. Operates without use of electrical power; burns liquid and solid fuels.

**Power requirements:** None.

**Size (LxWxH):** 18"D x 24"H

**Weight:** 65 lbs.

**Cost:** \$495

**Status/availability:** CTA 50-909 item, available now thru DLA.

**NSN:** 4520-01-329-3451

**POC:** DSN: 256-5637, (508)233-5637

# Space Heater Convective



**Capabilities:** 28-35k BTU thermoelectric heater provides forced hot air circulation for shelters without a generator. This heater generates its own power and recharges its battery. Automatic start and temperature controls.

**Description:** Delivers clean, breathable heat to Modular Command Post System, tents and TOCs. Converts waste heat into electrical energy, which is used to power the blowers, pumps, ignition system, safety system, and control devices, and recharges its own starting battery.

**Power requirements:** None.

**Size (LxWxH):** 40"x14"x18"

**Weight:** 74 lbs

**Cost:** \$7,310

**Status/availability:** CTA 50-909 item, available now thru DLA.

**NSN:** 4520-01-431-8927

**POC:** DSN: 256-5637, (508)233-5637

# Thermoelectric Fan



**Capabilities:** Circulates heated air inside all military tents to improve habitability conditions and significantly reduce fuel usage by generating its own electrical power.

**Description:** TEF is a silent, compact, rugged fan unit placed on top of any military tent heater. A built-in thermoelectric module converts heat from the top surface of the heater into electricity to power the TEF. The TEF distributes heated air throughout the entire shelter.

**Power requirements:** None.

**Size (LxWxH):** 14"D x 10"H

**Weight:** 12 lbs

**Cost:** \$520

**Status/availability:** CTA 50-909 item, available now thru DLA.

**NSN:** 4520-01-457-2790

**POC:** DSN: 256-5637, (508)233-5637

# Modern Burner Unit



**Capabilities:** Provides food service personnel the ability to safely and efficiently operate the field kitchens on battlefield fuels (JP-8).

**Description:** Direct replacement for the M2 Burner, push button operation, lights in place with electronic ignition, fuels in place, operational in environments from  $-25^{\circ}\text{F}$  to  $125^{\circ}\text{F}$ .

**Power requirements:** 24V DC, 2kW generator set for MKT

**Size (LxWxH):** 23" x 19" x 9.75" (same as M2 burner)

**Weight:** 39 lbs empty, 54 lbs fully fueled

**Cost:** \$1,400 (burner), cost of 6 MBUs with installation kit to outfit a Mobile Kitchen Trailer ~\$15k .

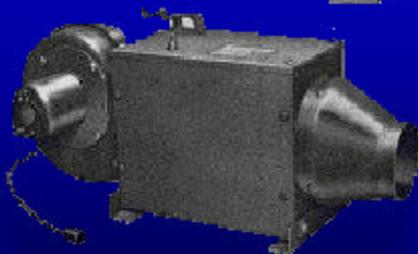
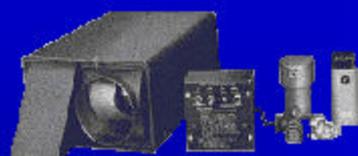
**Status/availability:** Currently being produced and fielded through FY07, IAW DAMPL.

**Transportability:** Transported inside kitchen.

**Supportability:** TM 9-6115-673-13&P

**NSN:** 7310-01-452-8137

**POC:** DSN: 256-5543, (508)233-5543



# Powered Heaters



# Army Space Heater



**Capability:** 140K BTU/hr, 1000cfm air flow. Automatic remote or manually controlled heat for shelters, vans, and other enclosed areas. Connects with flexible ducts.

**Description:** Pressurized enclosure can be hardened against NBC environments. 4-person carry. Retractable wheels, skids for use on snow. Power consumption (115V, 50-60 Hz, 1-phase, 10 Amp) less than 1200 watts. Damper adjustable for fresh air input. Remote fuel tank hose provided; will operate up to 10 ft. above fuel supply. Can be stacked in pairs for storage/transport. Noise: 60dbA@ 1 meter. Operates as recirculating heater or ventilator.

**Manufacturer:** Engineered Air Systems, 314-993-5880

**Fuel:** JP8 and all diesel. Operates unattended 14 hr on 15-gal. tank

**Size:** 32"x40"x50" (37.9 ft<sup>3</sup>)

**Cost:** \$7733 ea.

**Weight (lb):** 355

**Availability:** All assets are reserved for Force Package I units. Urgent requirement must go through SI as an OUT-OF-DAMPL

**NSN:** 4520-01-439-1682

**Supportability:** Class VII item.

**POC:** 732-532-6053

# Multifuel Space Heater, 15,000 BTU



**Capability:** 15 K BTU heater, 115 cfm air flow, for small/mobile shelters. Allows for use of fan without heat.

**Description:** Heats or ventilates truck-mounted shelters, cargo bodies, mobile tool sheds. Weatherproof; can be mounted outside. Includes control panel, thermostat, fuel pump & filter, wiring harness. Requires 10 Amp@28VDC (from vehicle). Designed for Canadian DND.

**Manufacturer:** Hunter Manufacturing Co., Solon OH, 440-248-6111; [sales@hunterheater.com](mailto:sales@hunterheater.com)

**Fuel:** Diesel 1, 2, A; JP-8

**Size:** 7"x11"x15"; 0.7 ft<sup>3</sup>

**Weight (lb):** 26

**Cost:** \$2,500 (small quantity price)

**Availability:** 210 days; not available from stock. IMPACT card item.

**Supportability:** Manufacturer.

**NSN:** 4520-21-871-7999

**POC:** Not managed by any DoD entity. Part of Reverse Osmosis Water Purification Unit (mfg. By Keco)

# Multifuel Space Heater, 30,000 BTU



**Capability:** 30 KBTU heater, 300 cfm air flow, for small/mobile shelters, truck bodies. Allows for use of fan without heat.

Description: Heats or ventilates truck-mounted shelters, cargo carriers, troop transports. Weatherproof; can be mounted outside. Includes control panel, thermostat, fuel pump & filter, wiring harness. Requires 12 Amp@28VDC (from vehicle). Designed for Canadian DND.

**Manufacturer:** Hunter Manufacturing Co., Solon OH, 440-248-6111; [sales@hunterheater.com](mailto:sales@hunterheater.com)

**Fuel:** Diesel 1, 2, A; JP-8

**Size:** 12"x14"x19" (w/ intake hood); 1.8 ft<sup>3</sup>

Weight (lb): 47

**Cost:** \$3,000 (small quantity price)

**Availability:** 210 day lead time; not currently in production. IMPACT card item.

**Supportability:** Manufacturer.

**NSN:** 4520-21-885-3958

**POC:** Manufacturer. Not currently part of US DoD inventory.

# Multifuel Space Heater, 60,000 BTU



**Capability:** 60 KBTU heater, 725 cfm air flow, for vehicle bodies, mobile shelters. Allows for use of fan without heat.

**Description:** Heats or ventilates mobile shelters, van bodies and expandable vans, system support vehicles mobile shelters. Controls may be mounted remotely or on unit. Can be ordered with air discharge direction up, down, or sideways. Uses fresh or recirculated air. Includes control panel, thermostat, electrical connectors for main power, fuel pump, thermostat. Requires 4.2 Amp@120VAC.

**Manufacturer:** Hunter Manufacturing Co., Solon OH, 440-248-6111; [sales@hunterheater.com](mailto:sales@hunterheater.com)

**Fuel:** Diesel 1, 2, A; JP-8

**Size:** 22"x10"x26"; 3.3 ft<sup>3</sup>

**Weight (lb):** 110

**Cost:** \$3,000 (small quantity price)

**Availability:** 210-day lead time, not in current production. IMPACT card item.

**Supportability:** Spare parts managed out of Defense Supply Columbus

**NSN:** 4520-01-203-4410

**POC:** 732-532-6052

# New Generation Heater – NGH400



**Capability:** Completely portable; 400,000 BTU, 1500 CFM air flow at 180°-280° F, at ambient temperatures down to -65° F. Includes trailer; engine powers fans, fuel pump.

**Description:** Air-cooled diesel self-powered heater for soft- and hard-wall shelters, work sites, aircraft pre-heating. 12-inch apertures. Clean air flow, may be ducted. 12-hr fuel tank, control system with automatic built-in testing to optimize operation and simplify troubleshooting.

**Manufacturer:** Hunter Manufacturing Co., Solon OH, 440-248-6111; [sales@hunterheater.com](mailto:sales@hunterheater.com)

**Fuel:** Diesel

**Size:** 50"x31"x53" (47.3 cu.ft.)

**Weight (lb):** 800

**Cost:** \$13,819

**Availability:** 90 days lead in small quantities.

**Supportability:** Class VII; parts in current production.

**NSN:** 4520-01-471-6541

**POC:** 215-737-8465

# Military Hot Water Heater – HW30



**Capability:** 30 KBTU, 175-300 cfm air flow. Blower and outlet may be configured in several variations to fit many applications. Versions of this heater are standard on 2-1/2 ton and 5 ton trucks.

**Description:** Uses hot water from vehicle engine to heat vehicle cabs, small bodies, and the HMMWV. Requires 28VDC power. Mounting brackets, duct adapters, core tubes configured to suit customer needs.

**Manufacturer:** Hunter Manufacturing Co., Solon OH, 440-248-6111; [sales@hunterheater.com](mailto:sales@hunterheater.com)

**Fuel:** No fuel needed. Uses electrical power and hot water from vehicle.

**Size:** 10"x10"x20"; 1.2 ft<sup>3</sup>

**Weight (lb):** 20

**Cost:** \$250 (small quantity price). IMPACT item.

**Availability:** In stock.

**Supportability:** Parts available, DSC or manufacturer.

**NSN:** 2540-00-020-8591

**POC:** Defense Supply Columbus

# Forced Hot Air Heater - MV125CG



**Capability:** Forced hot air heater. 110,000 BTU, 850 CFM air flow.

**Description:** Can be operated inside shelter with vent stack, or outside with ducting. Ventilating or recirculating. Requires 120VAC (line or generator), 400W; 220V 50 Hz version available (EV-series). Safety shutoffs for flame-out and overheating. Roll cage, weather hood. Wheels optional. Developmental MEV series will allow operators to use a 240 VAC 50 Hz, 110 VAC 50 Hz, or 110 VAC 60 Hz power supply without the need to modify the heater.

**Manufacturer:** Camfire, Ogdenburg NY, 877-226-3473.  
D.Wright [dwright@camfire.com](mailto:dwright@camfire.com)

**Fuel:** Kerosene, diesel, JP-4/8, heating oil, jet A/B. 13.5 gal tank (.65 gph consumption)

**Size:** 16.5" x 51" x 25" (12.2 ft<sup>3</sup>)

**Weight (lb):** 115

**Cost:** \$5300. Flexible duct 12" x 15': \$256 ea. Power cable \$170. Adapters available for multiple ducts.

**Availability:** In stock.

**Supportability:** Manufacturer

**NSN:** 4520-01-464-9312

**POC:** Manufacturer. (Currently undergoing testing at Ft. Drum.)



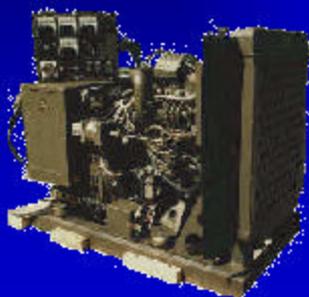
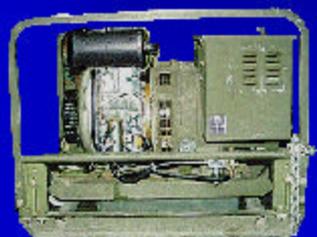
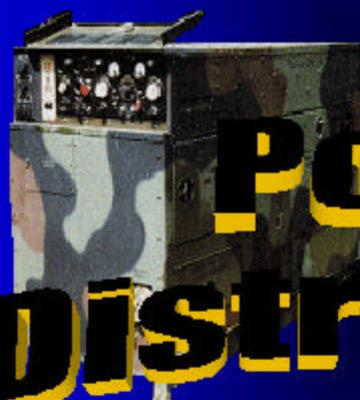
# Generators

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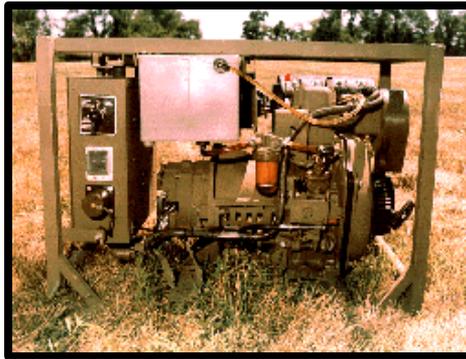
# Power

# Distribution

# Systems



# 2kW Military Tactical Generator



**Capability:** Choice of DC or AC power for Missile Air Defense systems, mobile kitchens, combat support and communications systems. 4-soldier portable, operable in chemical/arctic clothing.

**Description:** 2kW output: 28 VDC, 2 wire OR 120VAC, 60Hz, 1 phase, 2 wire. Skid mounted. Noise: 79 dBA @ 7 meters.

**Manufacturer:** Dewey Electronics Corporation (201) 337-4700; [dewey@deweyelectronics.com](mailto:dewey@deweyelectronics.com). Alt. Source: Mechron Energy Systems (Ontario), (613) 733-3855; [mktg@mechcron.com](mailto:mktg@mechcron.com)

**Fuel:** Diesel 1&2, JP-8, Jet A-1. Fuel capacity 1.6 gal.

**Size:** 30"x16"x22"; 6 ft<sup>3</sup>

**Weight (lb):** DC: 138 (wet), 124 (dry). AC: 158 (wet), 140 (dry)

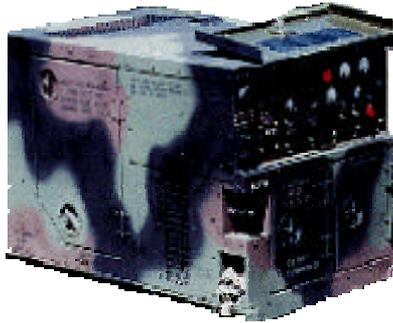
**Cost:** \$4,572 (DC), \$5,262 (AC)

**Supportability:** Class VII item.

**NSN:** 6115-01-435-1567 (DC); 6115-01-435-1565 (AC)

**POC:** DSN 654-3168, (703) 704-3168

# 5kW Tactical Quiet Generator



**Capability:** AC power for weapons and missile systems, causeway systems, C4I systems; choice of 60Hz or 400Hz.

**Description:** 5kW output: 60 Hz or 400 Hz -120VAC, 1 phase, 2 wire; 120/240VAC, 1 phase, 3 wire; 120/208VAC 3 phase, 4 wire. Noise: 70 dBA @7 meters. 60-Hz model available skid-mounted (single) or as power unit, power plant on 3/4 –T trailer, or power plant on 1.5-T trailer. Power unit and plants come with accessory box, switch box, and fire extinguisher.

**Manufacturer:** Fermont, 203-366-5211,  
[fermont@engineeredsupport.com](mailto:fermont@engineeredsupport.com)

**Size:** Skid-mounted single unit: 50"x32"x36".

**Fuel:** Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 5 gal.

**Cost:** Skid-mounted: \$10,994 (60Hz); \$13,526 (400Hz); power unit \$17,000, power plant \$34,000

**Availability:** In production; 12-mo lead time.

**Supportability:** Class VII item. TM 9-6115-641-10.

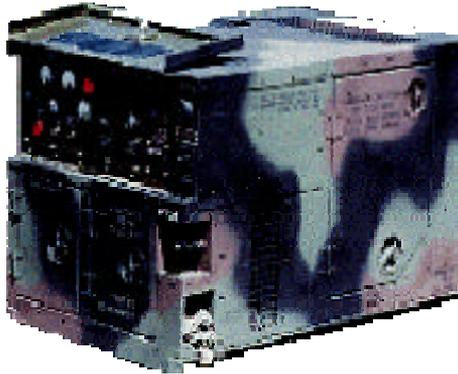
**POC:** DSN 654-3168, (703) 704-3168

# 5kW Tactical Quiet Generator, cont.

Item	Size (ft <sup>3</sup> )	Weight (lb)*	NSN
60 Hz, skid-mounted	34	888	6115-01-274-7387
400 Hz, skid-mounted	34	911	6115-01-274-7391
60 Hz power unit	410	2360 (S) 2320 (O)	6115-01-332-0741
60 Hz power plant, ¾-T. trailer	420	3285(S) 3087 (O)	6115-01-313-4216
60 Hz power plant, 1.5- T. trailer	600	3985 (S) 3785 (O)	6115-01-313-4215

**\*S: Shipping weight. O: Operating weight.**

# 10kW Tactical Quiet Generator



**Capability:** AC power for weapons and missile systems, laundry and refrigeration systems, C4I systems; choice of 60Hz or 400Hz.

**Description:** 10kW output: 60 Hz or 400 Hz -120VAC, 1 phase, 2 wire; 120/240VAC, 1 phase, 3 wire; 120/208VAC 3 phase, 4 wire. Available skid-mounted (shown), as power unit on 3/4 –T trailer, or as power plant on 1.5-T trailer. Power units and plants come with accessory box, switch box, and fire extinguisher. Noise: 70 dBA @ 7 meters.

**Manufacturer:** Fermont, 203-366-5211;  
[fermont@engineeredsupport.com](mailto:fermont@engineeredsupport.com)

**Fuel:** Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 9 gal.

**Cost:** Skid-mounted: \$12,516 (60Hz), \$15,304 (400Hz)

**Availability:** In production; 12-mo lead time.

**Supportability:** Class VII item. TM 9-6115-642-10.

**POC:** DSN 654-3168, (703) 704-3168

# 10kW Tactical Quiet Generator, cont.

Item	Size (ft <sup>3</sup> )	Weight (lb)*	NSN
60 Hz, skid-mounted	41	1182	6115-01-275-5061
400 Hz, skid-mounted	41	1220	6115-01-274-7392
60 Hz power unit	410	2660 (S) 2457 (O)	6115-01-319-9032
400Hz power unit	410	2670(S) 2469 (O)	6115-01-313-4238
60 Hz power plant	600	4540 (S) 4334 (O)	6115-01-299-6035
400 Hz power plant	600	4550 (S) 4350 (O)	6115-01-313-4214

**\*S: Shipping weight. O: Operating weight.**

# 15kW Tactical Quiet Generator



**Capability:** AC power for weapons and missile systems, well kit, printing plant, C4I systems, hospital maintenance; choice of 60Hz or 400Hz.

**Description:** 15kW output: 60 Hz or 400 Hz; 120/208VAC, 3 phase, 4 wire; 240/416VAC, 3 phase, 4 wire. Available skid-mounted (shown), as power unit on .75-T. or 2.5-T. trailer, or as power plant on 1 or 2, 2.5-T trailers. Power units and plants come with accessory box, switch box, and fire extinguisher. Noise: 70 dBA @ 7 meters.

**Manufacturer:** Fermont, 203-366-5211;  
[fermont@engineeredsupport.com](mailto:fermont@engineeredsupport.com)

**Fuel:** Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 14 gal.

**Cost:** Skid-mounted: \$12,926 (60Hz); \$14,941 (400Hz)

**Availability:** In production; 12-mo lead time.

**Supportability:** Class VII item. TM 9-6115-643-10

**POC:** DSN 654-3168, (703) 704-3168

# 15kW Tactical Quiet Generator, cont.

Item	Size (ft <sup>3</sup> )	Weight (lb)*	NSN
60 Hz, skid-mounted	77	2124	6115-01-274-7388
400 Hz, skid-mounted	77	2238	6115-01-274-7393
60 Hz power unit	520	3380 (S) 3180 (O)	6115-01-319-9033
400Hz power unit	770	5055 (S) 4855 (O)	6115-01-317-2137
60 Hz power plant	520	5120 (S) 4920 (O)	6115-01-317-2138
400 Hz power plant	770 x 2	11,760(S) 9756 (O)	6115-01-299-6034

**\*S: Shipping weight. O: Operating weight.**

# 30kW Tactical Quiet Generator



**Capability:** AC power for weapons and missile systems, bakery plant, ADP support systems, water purification, C4I systems, aviation shop; choice of 60Hz or 400Hz.

**Description:** 30kW output: 60 Hz or 400 Hz: 120/208VAC, 3 phase, 4 wire; 240/416VAC, 3 phase, 4 wire. Available skid-mounted (shown), as power *unit* on 2.5-T. trailer, or as power *plant* on 2, 2.5-T trailers (60 Hz only). Power units and plant come with accessory box, switch box, and fire extinguisher. Noise: 70 dBA @ 7 meters.

Manufacturer: MC II Electric, Tulsa OK (918) 250-4413.  
[info@mciigenerators.com](mailto:info@mciigenerators.com)

**Fuel:** Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 23 gal.

**Cost:** Skid-mounted: \$22,012 (60Kw), \$24,348 (600Hz)

**Availability:** 12/93 and cont; new line 3Q01

**Supportability:** Class VII item. TM 9-6115-644-10.

**POC:** DSN 654-3168, (703) 704-3168

## 30kW Tactical Quiet Generator, cont.

Item	Size (ft <sup>3</sup> )	Weight (lb)*	NSN
60 Hz, skid - mounted	88	3006	6115-01-274-7389
400 Hz, skid - mounted	88	3015	6115-01-274-7394
60 Hz power unit	770	5900 (S) 5700 (O)	6115-01-317-2136
400Hz power unit	770	5930 (S) 5730 (O)	6115-01-317-2135
60 Hz power plant	770 x 2	13,440(S) 11,440 (O)	6115-01-299-6033

**\*S: Shipping weight. O: Operating weight.**

# 60kW Tactical Quiet Generator



**Capability:** AC power for weapons and missile systems, Earth satellite terminals, field hospitals/schools, aviation ground support; choice of 60Hz or 400Hz.

**Description:** 60kW output: 60 Hz or 400 Hz: 120/208VAC, 3 phase, 4 wire; 240/416VAC, 3 phase, 4 wire. Available skid-mounted (shown), as power unit on 2.5-T trailer, or as power plant on 2, 2.5-T trailers or 1, 5-T trailer (Air Force version). Power units and plant come with accessory box, switch box, and fire extinguisher. Noise: 70 dBA @ 7 meters.

**Manufacturer:** MC II Electric, Tulsa OK (918) 250-4413.  
[info@mciigenerators.com](mailto:info@mciigenerators.com)

**Fuel:** Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 23 gal.

**Cost:** \$25,063 (60Hz); \$28,415 (400Hz)

**Availability:** 'A' model is discontinued; 'B' model 3Q01, Europe (new version, will have new NSN)

**Supportability:** Class VII, TM 6115-645-10 (Air Force TO-35C2-3-444-11)

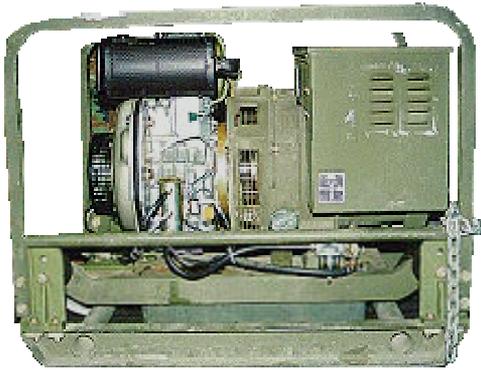
**POC:** DSN 654-3168, (703) 704-3168

# 60kW Tactical Quiet Generator, cont

Item	Size (ft <sup>3</sup> )	Weight (lb)*	NSN
60 Hz, skid-mounted	103	4063	6115-01-274-7390
400 Hz, skid-mounted	103	4153	6115-01-274-7395
60 Hz power unit	770	6920 (S) 6720 (O)	6115-01-317-2134
400Hz power unit	770	7015 (S) 6815 (O)	6115-01-317-2133
60 Hz power plant	770 x 2	15,440(S) 13,440(O)	6115-01-303-7896
400 Hz power plant	1172	15,800(S) 14,700(O)	Air Force PP-AN/MJQ-1610
60 Hz power plant	1172	15,800(S) 14,700(O)	Air Force PP-AN/MJQ-1612

**\*S: Shipping weight. O: Operating weight.**

## 3kW Re-Engine Kit



**Capability:** Simple replacement of gasoline engine in old 3kW generators.

**Description:** 6 HP air-cooled diesel engine, 1 cylinder, 4 cycle, direct injection, recoil starter, electric fuel and 24VDC magneto. Includes digital control panel. To date used only by reserve units.

**Manufacturer:** VSE Corporation, (703) 960-4600;  
[info@vsecorp.com](mailto:info@vsecorp.com)

**Fuel:** Diesel 1,2; diesel A; JP8

**Size:** 35"x24"x25" (12.2ft<sup>3</sup>)

**Weight (lb):** 60Hz: 277 (wet); 400Hz: 341 (wet)

**Cost:** \$2,400

**Availability:** Immediate (OMA funds)

**Supportability:** Class IX

**NSN:** 2815-01-440-4426

**POC:** DSN 654-3168, (703) 704-3168

# 5kW 28 VDC Auxiliary Power Unit



Compact Faryman 43F Diesel Engine



**Capability:** 5kW DC generator; replacement for old 4.2kW gasoline models on APCs; used on M1068 tracked APC; for C4I systems.

**Description:** 28VDC, standard NATO slave receptacle for electric start but also has hand crank; electric or manual start; cannot operate separated from vehicle, can be loaded on aircraft w/o removal from APC. Very low profile promotes driver visibility. Air cooled.

**Manufacturer:** Goodman Ball Ind., (650) 363-0113,  
[gbi@ixnetcom.com](mailto:gbi@ixnetcom.com)

**Fuel:** Diesel

**Size:** 34"x3031"x17" (11.4 ft<sup>3</sup>)

**Weight (lb):** 550, including housing.

**Cost:** \$18,221

**Availability:** 6 mo lead time from manufacturer.

**Supportability:** Class IX item; available as part of 1068 only

**NSN:** 6115-01-452-6513 (Production model)

**POC:** DSN 654-3168, (703) 704-3168

# 10kW SICP 120/240VAC Auxiliary Power Unit



**Capability:** 10kW 60Hz, 120/240 VAC generator for power supply to shelters.

**Description:** Supplied on rail for insertion into shelter tunnel; 28 VDC start (from vehicle); 20 A battery charger. Slightly different configuration in Air Defense version. Remote control panel (in shelter). C model is most recent. Starting and fuel depend on HMMWV. Noise: 70 dBA @ 7 meters.

**Manufacturer:** KECO Industries; Versailles, KY. 1-800-395-6932

**Fuel:** Diesel 1&2; JP-8, Jet A-1. Uses vehicle fuel via quick-disconnect

**Size:** 36"x26"x28" (15.3 ft<sup>3</sup>)

**Weight (lb):** 460 on rail

**Cost:** \$14,684

**Availability:** 12 mo lead time from manufacturer.

**Supportability:** Class VII item. TM 9-6115-670-14&P

**NSN:** 6115-01-431-3062

**POC:** DSN 654-3168, (703) 704-3168

# Power Distribution Systems: PDISE Boxes



**Capability:** 4 sizes of generator-power-distribution boxes (40, 60, 100, and 200A), connecting cables, and assemblage of utility extension cords, branch circuits and lighting equipment (see table).

**Description:** Man-portable electrical distribution systems for safe, all-weather electrical power distribution from generator sets to multiple users (such as vehicles, shelters, field unit complexes, tents, etc.). Enables quick assembly/disassembly. Various sizes allow selection to match generators from 5kW to 100kW (see table). For specifics of supporting cable systems for your application, contact project engineer. DISE systems have been replaced by PDISE systems, which have a circuit breaker that is not affected by high ambient temperatures.

**Manufacturer:** UNICOR (Federal Prison Industries).

**Liaison:** 732-532-2758

**Availability:** Minimum manufacture order 5 ea; 7-mo lead time

**Supportability:** Class VII item.

**POC:** DSN 654-3168, (703) 704-3168

## POWER DISTRIBUTION SYSTEMS FOR USE WITH GENSETS (P-DISE BOXES)

MODEL	ITEM	NSN	DESCRIPTION	COST *
M40 A/P	Electrical distribution system	6150-01-307-9446	3 phase, 40A, 120/208V. Used w/ 10-200kW gen.sets. 24.25"L, 21.74 "W, 16.12"H, 4.91 cu ft, 55 lb	\$6,826
M60A/P	Electrical distribution system	6150-01-307-9445	Single phase. 60A, 120V. Used with 5,10,15 kW gen.sets. 24.25"L, 21.74 "W, 15.5"H, 4.73 cu ft, 45 lb	\$5,163
M100 A/P	Feeder system, electrical	6150-01-308-5671	3 phase, 100A/phase. Used w/ 30,60,100,200 kW gen.sets. 24.25"L, 22.35"W, 29.37"H, 6.39 cu ft., 77 lb.	\$6,440
M200 A/P	Feeder system, electrical	6150-01-308-5672	3 phase, 200A/phase. Used w/ 60,100,200kW gen. sets. 33.5"L, 22.97"W, 20.37"H, 9.07 cu ft, 140 lb.	\$11,933
M46	Electrical utility assembly	6150-01-208-9751	Used w/ 5kW to 200kW gen. sets. Distributes electrical power with lighting and electrical receptacles.	\$2,470

•\*Cost each; minimum order 5



**ACTD**

**&**



**Urban**

**Technology**



# Knee Pads and Elbow Pads



**Requirement(s) Application:** R12 – Joint Protection

**Description:** The Bijan knee and elbow pads are similar in appearance to commercially available, recreational in-line skating protective gear. Foam padding is encased in 1000 denier nylon cloth printed in woodland camouflage pattern. The side worn toward the body is lined with a moisture wicking fabric for comfort. The joint is further protected by high density polyethylene shells attached to the outer surface. The pads are secured to the user by elastic/hook and pile straps, weigh 24 ounces, and are approximately 720 cubic inches in volume.

**Tactical Utility and Basis of Issue (BOI):** Provides adequate protection for both the knee and elbow against rubble, glass and other urban type debris.

**Depot:** DLA S9T

**Model Number:**

NSN:8415-01-458-8699 (M)

NSN: 8415-01-458-8761 (M)

**Unit Cost:**

Knee Pads \$19.70

Elbow Pads \$11.50

**POC: Government** - (215) 737-2445

**Technical** - DSN: 256-4663, (508) 233-4663

# M45 Mask



**Requirement(s) Application:** R13 – Lightweight Mask

**Description:** The M-45 will replace the Army's M40 Mask System. The mask provides the required CB protection without the aid of forced ventilation air. A microphone pass through is incorporated for communications, as well as a drink tube pass through for liquid nutrients. The eye lenses are close-fitting for compatibility with night vision devices, and front and side voice-mitters are used for face-to-face and phone communications. The mask weighs 1 pound, with the mask, canister, and carrier weighing in at 4.5 pounds. The mask, canister, and carrier have the following dimensions: 9 inches by 11 inches by 4.5 inches.

**Tactical Utility and Basis of Issue (BOI):** Provides the capability to utilize your night vision devices without removing your mask.

**Depot:** DLA A12

**Model Number:**

XS - NSN: 4240-01-447-6898

S - NSN: 4240-01-447-6987

M - NSN: 4240-01-447-8967

L - NSN: 4240-01-447-6988

**Unit Cost:** XS - L \$408.00

**POC:** Government - (309) 782-4285

Technical - DSN: 256-4663, (508) 233-4663

# Hatch Resistor Glove



**Requirement(s) Application:** R14 – Personal Protection Kit

**Description:** The Hatch Resistor Glove has a black leather shell with a 100% Kevlar full inner lining. It is available in sizes ranging from XSM to XXLG. Each glove weighs approximately 3 to 4 ounces.

**Tactical Utility and Basis of Issue (BOI):** Provides hand protection from sharp objects while maintaining full dexterity.

**Vendor:**

Law Enforcement Supply, Inc.  
1130 Easton Rd.  
Roslyn, PA 19001

**Vendor POC:** (800) 255-5374

**Unit Cost:** \$20.25/Pair

**POC:** DSN: 256-4663, (508) 233-4663

# Sun, Wind, and Dust Goggles



**Requirement(s) Application:** R14 – Personal Protection Kit

**Description:** The SWDG is the standard military goggle, consisting of an injection molded rubber frame with a polyurethane foam backing with a skin that contacts the face. The rubber frame holds the lens while the foam provides a seal between the face and goggle frame. The goggle is compatible with standard military prescription eyewear. Flannel covered vent holes allow some ventilation while keeping dust out. Two snap fasteners provide additional lens retention in the frame. Class 3 (clear) and Class 4 (sunglasses) lenses are a single piece, simple curve, injection molded polycarbonate design with an abrasion resistant coating. Class 5 and Class 6 lenses offer laser protection. The lens (classes 3 through 6), with a nominal thickness of 2 mm, provides ballistic protection.

**Tactical Utility and Basis of Issue (BOI):** Provides the Soldier/Marine adequate eye protection from the elements.

**Depot:** DLA S9T

**Model Number:**

NSN: 8465-01-328-8268  
 NSN: 8465-01-109-3997  
 NSN: 8465-01-109-3996  
 NSN: 8465-01-439-3506  
 NSN: 8456-01-439-3511

**Unit Cost:**

Frame: \$13.35,  
 Class 3 Lens: \$2.90,  
 Class 4 Lens: \$3.00,  
 Class 5 Lens: \$16.55  
 Class 6 Lens: \$39.45

**POC:** Government - (215) 737-2445  
 Technical - DSN: 256-4663, (508) 233-4663

# Foam Ear Plugs



**Requirement(s) Application:** R15 – Hearing Protection

**Description:** These moisture resistant plugs are designed to provide general hearing protection. They are made of non-toxic, dermatologically safe, expandable foam that conforms to any ear size. Their shape equalizes the pressure throughout the ear canal as it expands, prevents shifting, and keeps the effectiveness of the noise seal constant. They are NVLAP laboratory tested NRR 29 dB Class AL. They are also available in corded pairs.

**Vendor:**

Aearo Company  
5457W 79th St.  
Indianapolis, IN 46268

**Model Number:** NSN: 6515-00-137-6345

**Unit Cost:** \$21.09 per box of 400

**POC:** Government - (317) 692-6666

Technical - DSN: 256-4663, (508) 233-4663

# M-4/M-16 Combat Sling



**Requirement(s) Application:** R21 – Hands-Free Sling

**Description:** The Tactical Tailor M-4 Combat Sling is a 3-point sling constructed from 1.5 inch nylon webbing. The sling weighs six ounces and is designed to keep the weapon at the ready, while giving the wearer hands-free mobility. The buckles are constructed of high impact nylon, giving the sling improved corrosion resistance. The sling mounts to the M4/M16A1/2 without the use of tools or special parts.

**Tactical Utility and Basis of Issue (BOI):** Provides the ability to carry weapon at the ready while maintaining full use of both hands.

**Vendor:**

The Tactical Tailor  
10529 Suite E  
Lakeview Ave, SW  
Lakewood, WA 98499

**Vendor POC:** (253) 984-7854

**Unit Cost:**

M-4 \$20.00  
M-16 \$25.00

**POC:** (973) 724-7097

# Smoke Hand Grenade M83



**Requirement(s) Application:** R26 – Improved Obscurant

**Description:** The Terephthalic Acid (TA) Practice Smoke Hand Grenade, M83, is a burning type grenade used to generate white smoke for screening activities of small units. It is also used for ground-to-air signaling. The M83 shares the mechanical components of the standard family of smoke grenades. It is filled with TA-based pyrotechnic smoke composition, and provides a white smoke visually analogous to the standard AN-M8 grenade but with less toxicity for training. The duration of smoke screen is 25 to 70 seconds, average burn time. Each grenade is 5.7 inches long, has a 2.5 inch diameter, and weighs 16 ounces (11 ounces is the TA filler).

**Tactical Utility and Basis of Issue (BOI):** Provides non-toxic visual obscurant.

**Depot:** DLA B14

**Model Number:**

NSN 1330-01-380-0287

DODAC-1330-G982

**Unit Cost:** \$25.15 per Unit

**POC:** Government - (309) 783-6505

Technical - DSN: 256-4663, (508) 233-4663

# Explosive Cutting Tape



**Requirement(s) Application:** R27 – Blow Man-Sized Hole in Concrete

**Description:** The Explosive Cutting Tape (ECT) is a linear charge explosive with a PBX base and a powder copper/polymeric liner. The explosive chevron is packaged in 20 foot rolls. The explosive is surrounded by a foam which is hemispherical on the top side, the side away from the target, but flat on the bottom, where there is a double-sided sticky tape to affix the entire mass to the target. The tape can be used as a cutting charge for hard targets such as wood, masonry, steel, and other metals. The material weighs approximately 0.77 pounds per foot for the 5400 grain tape. The cutting tape can be purchased in a variety of other explosive weights. To initiate, the detonator is inserted into a booster mass, which is placed against the explosive mass through a slit in the foam at the end of the tape. Required components are the ECT, detonator, booster, and standard electrical initiation device.

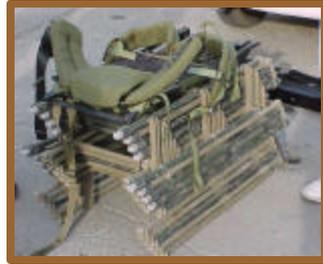
**Tactical Utility and Basis of Issue (BOI):** Provides a system to rapidly breach obstacles in kit format. That has intuitive application.

**Vendor:** The Ensign Bickford Company  
660 Hop Meadow St.  
Simsbury, CT 06070  
860-843-2225

**Unit Cost:** 5400 Gr: \$1449.98 per 20 ft. length

**Technical POC:** (973) 724-7097

# Light Modular Ladder



**Requirement(s) Application:** R28 - Get on Top of Building

**Description:** Rafael's LIMOR is a modular device that can be assembled up to a total length of 9 meters, by connecting 10 segments in line. All of the segments are identical, except for the last ones at the ends of the ladder. The net weight of the ladder is 20 kg, and can be carried by a single person using a custom made backpack, which weighs 3.8 kg. The ladder is designed to carry three persons climbing on it simultaneously, when it is leaning against a wall and is inclined at an angle of up to 30 degrees from the vertical position. The ladder has a "C" shaped cross-section. The open end of the "C" must be facing the wall, on which the ladder is leaning.

**Tactical Utility and Basis of Issue (BOI):** Provides a capability to access up to 3 story buildings quickly and may also be utilized for cross canyon mobility.

**Vendor:**

Rafael Armament Authority  
4455 Connecticut Ave. NW  
Suite B-400  
Washington, DC 20008

**Vendor POC:** (202) 895-5293

**Unit Cost:** \$9,249.00

**Technical POC:** DSN: 256-4663, (508) 233-4663

# Quikstep Ladder



**Requirement(s) Application:** R28 - Get on Top of Building

**Description:** The Quikstep ladder combines easy storage, ease of transport, flexibility, strength, and convenience. It comes in extended lengths of 6, 8, 10, 12, and 14 feet. It can be purchased in silver or black. The Quikstep patented design is composed of diecast airplane aluminum and has been tested to withstand a 600 pound load, when in a horizontal position, although it is not designed to be used as a bridge. The ladder weighs 38.5 pounds. Its folded dimensions are: 26.5 inches by 11.25 inches by 4.5 inches. Its open dimensions are: 16.5 inches by 3.25 inches by 168 inches.

**Tactical Utility and Basis of Issue (BOI):** Provides a capability to access up to 2 story buildings quickly.

**Vendor:**

National Security Associates  
291 Plantation Centre  
Suite 1701  
Warner Robbins, GA 31095

**Vendor POC:** (912) 476-9990

**Unit Cost:** \$628.00

**Technical POC:** DSN: 256-4663, (508) 233-4663

# Advanced Combat Optical Gunsight



**Requirement(s) Application:** R2 – Powered Optics

**Description:** The ACOG is a family of telescopic day sights with tritium illuminated reticle patterns for use at lower light levels, thus, increasing hit probabilities and lowering engagement times. The magnification will be 3.5x or 4x. The length ranges from 6 to 8 inches and the weight from 10 to 14 ounces, depending on the model. No batteries are required due to the tritium material.

**Tactical Utility and Basis of Issue (BOI):** Utilized by the Squad designated marksman. No battery.

**Vendor:**

Trijicon  
56 Baldwin Dr.  
Fredericksburg, VA 22406

**Vendor POC:** (504) 286-1827

**Model Number:** TA31, TA11D, TA01C

<b>Unit Cost:</b> TA31	\$776.75
TA11D	\$841.75
TA01C	\$601.25

**Technical POC:** (703) 704-2757

# Aquila 4X Gunsight



**Requirement(s) Application:** R2 – Powered Optics

**Description:** This ruggedized image intensified (generation II+ and III) device is designed for sniper applications and adaptable to several weapon types and provides 4X magnification. Expected range for a human target is approximately 400 m (starlight) and 200 m (cloud cover). The unit is 100 cubic inches, weighs 50 ounces, and requires two AA batteries (providing minimum 24 hours continuous use).

**Tactical Utility and Basis of Issue (BOI):** AN/PVS-4 replacement (Night/Vision Scope). 1 per Fire team (designated marksman). Utilized to engage targets during limited visibility.

**Vendor:**

Night Vision Equipment Company, Inc.  
542 Kemmerer Ln  
Allentown, PA 18104

**Vendor POC:** (800) 797-2849

**Unit Cost:** \$5,400.00

**Technical POC:** (703) 704-2757

# Close Combat Optics



**Requirement(s) Application:** R2 – Powered Optics

**Description:** The Close Combat Optics utilizes a red dot type sighting for M16A2 and M4 Carbine. It also provides increased hit probability and faster engagement times by enhancing sighting capabilities. The optic is approximately 5.5 inches long, with a weight of about 10 ounces (additional 4.5 ounce adapter required for the M16). Using a commercially available Lithium battery, the unit provides 3.5 days operation with 100% duty cycle.

**Tactical Utility and Basis of Issue (BOI):** Optical Gun Sight for M4. Allows greater situational awareness and faster target acquisition and engagement.

**Depot:** DLA B14

**Model Number:** NSN: 1240-01-411-1265

**Unit Cost:** M68 \$243.00

**POC:** Government - (309) 782-0045  
Technical - (703) 704-2757

# Machine Gun Optics



**Requirement(s) Application:** R2 – Powered Optics

**Description:** This magnified optical sighting system provides better target identification and recognition. It also reduces the risk of fratricide and will fit on a M240B, M249, and M60. The unit is 8 inches long, weighs 1.5 pounds, and uses a commercial battery, lasting 5 days for 100% duty cycle.

**Tactical Utility and Basis of Issue (BOI):** Optical Gun Sight for machine gun. Allows rapid target acquisition and engagement.

**Depot:** DLA B14

**Model Number:** NSN: 1240-01-411-6350

**Unit Cost:** MGO \$600.00

**POC:** Government - (309) 782-0045  
Technical - (703) 704-2757

# Advanced Combat Optical Gunsight- Reflex



**Requirement(s) Application:** R2 – Powered Optics

**Description:** The ACOG Reflex provides increased hit probability by using an illuminating aiming dot during periods of low light. The illumination comes from both target area lighting and a tritium lamp. The length and weight are 4.25 inches and 4.3 ounces, respectively. No batteries are required due to the tritium.

**Tactical Utility and Basis of Issue (BOI):** Individual optic. NVG compatible. Close Quarter Combat use out to approx. 250m. No battery.

**Vendor:**

Trijicon  
56 Baldwin Dr.  
Fredericksburg, VA 22406

**Vendor POC:** (540) 286-1827

**Model Number:** RX01-10

**Unit Cost:** RX01-10 \$31070

**Technical POC:** (703) 704-2757

# Optical Day Sight



**Requirement(s) Application:** R2 – Powered Optics

**Description:** This optical day sight utilizes a tritium lit reticle, negating the need for batteries, and is available with a 1x, 2x, 3x, or 4x fixed magnification. The unit measures 7.4 inches long and weighs approximately 1.5 pounds (4x version). The system also includes a limited lifetime warranty.

**Tactical Utility and Basis of Issue (BOI):** Machine Gun Optic (Day only). Enables the gunner to acquire and engage targets faster and more accurately.

**Vendor:**

United States Optics Technologies, Inc.  
5900 Dale St.  
Buena Park, CA 90621

**Vendor POC:** (714) 994-4901

**Model Number:**

SN-5 (SOCOM-USMC)

**Unit Cost:**

\$920.00

\$75.00 Filter

\$169.00 Bracket

**Technical POC:** (703) 704-2757

# Thermal Weapon Sight



**Requirement(s) Application:** R2 – Powered Optics

**Description:** The TWS is a thermal imaging system for individual/crew served weapons with a field of view from 30 to 3 degrees depending on objective lens. The Mercury Cadmium Telluride focal plane array operates in the 3-5 um spectrum. The size of the basic system is approximately 300 cubic inches with a weight of five pounds, including the housing, lens, and battery. The system utilizes a standard military battery (BA/5847).

**Tactical Utility and Basis of Issue (BOI):** 1 per Fire team. Used mainly for observation in a defensive mode. Very difficult to move and shoot with this technology.

**Vendor:**

Raytheon (Current limited production contract)

**Model Number:** AN/PAS-13 (limited production system)

**Unit Cost:** \$18,000.00

**POC:** Government - (703) 704-1255  
Technical - (703) 704-2757

# Dynamic Entry Breaching Tool Kit



**Requirement(s) Application:** R30 - Non-Explosive Door and Window Breach

**Description:** The Demtek Kit consists of 3 tools neatly packaged in a back pack. The individual components are as follows:

## **Manual Entry Tool Back Pack (NSMETP)**

Dimensions: 24'X21" Weight: 2 lbs.

The NSMETP is a new and uniquely designed frameless pack. It has a padded back and contoured shoulder straps with a torso lumbar control waist belt. Stress seams edge bound and double stitched with MIL-T-5038 Type 3, all webbing is heavy duty MIL-W-17337 Type 4, D-rings for equipment attachment on shoulder straps made of Nythaneon with closed cell foam, fully adjustable chest and waist straps.

## **Mini ThunderSledge (NSMTS)**

Length 21 1/2", weight 7 lbs. Solid Fiberglass core w/outer polymer jacket, electrically nonconductive to 100,000 volts AC, injected molded jacket resists cuts and overblows, ergonomically designed hand grips, working end is non-sparking.

# Dynamic Entry Breaching Tool Kit, Cont.



## **Boltmaster (NSBM)**

Length 24", weight 5.25 lbs. Jaw opening 3/8", advanced polymer handle construction, electrically nonconductive to 100,000 volts AC, safety-guard hand grips, eliminated impact stress, replaceable cutting teeth, advanced camming action.

## **Spec. OP. Hallagan Tool (NSSOHT)**

Length 24", fork 2 3/4" x 5", spike tapered 2 1/4", weight 7.0 lbs., wedge 1 3/4" x 4 1/2", shaft 1 1/8", working ends are non-sparking, non-skid friction ridges on face of wedge, solid fiberglass core with outer polymer jacket electrically to 100,000 volts AC.

**Tactical Utility and Basis of Issue (BOI):** Provides kit for interior breaching of doors, fences, wire, padlocks, etc.

**Vendor:** National Security Associates  
291 Plantation Centre, Suite 1701  
Warner Robbins, GA 31095

**Vendor POC:** (912) 476-9990

**Unit Cost:** \$469.00

**Technical POC:** (973) 724-7097

# Rifle Launched Entry Munition



**Requirement(s) Application:** R30 - Door and Window Breach

**Description:** This breaching system for windows, doors, and walls employs a shape charge which detonates on impact, creating an overpressure to defeat the target. The round is remotely (muzzle) launched from a variety of rifles (including the M16) using blank rounds - not standard US issue. The round has an overall length of 357mm and maximum diameter of 100mm. An ongoing army program to type classify is in progress at Picatinny Arsenal.

**Tactical Utility and Basis of Issue (BOI):** Provides the user with a stand-off capability to enter both doors and windows; avoids spending breaching time in the kill zone.

**Vendor:**

Rafael Armament Authority  
4455 Connecticut Ave. NW  
Suite B-400  
Washington, DC 20008

**Vendor POC:** (202) 895-5293

**Unit Cost:** \$800.00 - \$1,600.00 (Per round depending on quantity)

**Technical POC:** (973) 724-7097

# Simunitions Blunt Training Munition



**Requirement(s) Application:** Non-Lethal blunt trauma training round

**Description:** This product is a 9mm blunt trauma training munition similar in concept to Paintball. The training round consists of a detergent-based dye round which is fired from a 9 mm plastic/brass cartridge, and requires installation of a conversion kit for use with 5.56 caliber weapons. It is used to add significant realism to the force-on-force training environment, enhancing the training experience by providing soldiers with a live fire training opportunity during force-on-force training. Blunt trauma training increases training realism and positively impact soldier learning during close combat training. Use of this item requires face/head protection to avoid injury, as the rounds can cause injury to eyes, ears, or otherwise exposed skin. Red and Blue colors are available to determine EXFOR/OPF/OPFOR fratricide and casualty effects.

**Tactical Utility and Basis of Issue (BOI):** Provides the user with capability to train force on force and gain accurate data on casualties.

**Vendor:**

Simunitions, LTD  
Box 576  
65 Sandscreen Rd.  
Avon, CT 06001  
(860) 404-0162

**Model Number:**

Red Cartridges - NSN: 1305-01-439-9717  
Blue Cartridges - NSN: 1305-01-449-3208  
M4A1 Conversion Kit - NSN: 1005-01-454-9283  
M16A2 Conversion Kit - NSN: 1005-01-457-4015

**Unit Cost:** \$360.00/1000 rounds.

Conversion Kits: \$575.00/weapon

**Technical POC:** (973) 724-7097

# Tuff Cuffs



**Requirement(s) Application:** R35 - Flexible Cuffs

**Description:** The Tuff Cuff is a disposable restraint, which can withstand 600 pounds tensile force. The 13.5 inch long straps are looped through holes in the center clip, giving the cuffs a minimized size of approximately 6.5 inches long and 3.25 inches wide. Additionally, there are ID tabs on the cuffs, where pertinent information can be written. The locking size is adjustable, allowing the Tuff Cuff to be used as handcuffs or as hobbles. Each cuff weighs approximately 1.3 ounces.

**Tactical Utility and Basis of Issue (BOI):** Lightweight/Ease of use restraints.

## Vendor

Bingold's Wrist-Straint Inc.  
P. O. Box 888  
Rouses Point, NY 12979

**Vendor POC:** (800) 788-4076

**Unit Cost:** \$0.99

**Technical POC:** DSN: 256-4663, (508) 233-4663

# SHARK Headset



**Requirement(s) Application:** R3 – Hands-Free Non-Line-of-Sight Communication

**Description:** The SHARK Combat Headset is a small, lightweight unit developed to provide waterproof operation in urban environments. The headset is immune to dust, rain, immersion and sand. The headset is contained in a MIL -I- 23053/5 class 1 wrapping, able to resist temperatures from -55 degrees C to 135 degrees C. The SHARK headset weighs less than 60 grains, including wires, and is resistant to harsh handling and environments due to its robust sealing. All audio impairments typically arising from such a sealed design are electronically, chemically, and mechanically compensated. The SHARK can be freely washed in running water, can be stored for weeks in water, and can stand a pressure of more than twenty meters depth.

**Vendor:**

Maayanei Hatslil Ltd.  
Source of Sound  
Netanya, Israel  
(972-9) 833 6541

**Unit Cost:** WPH11 \$350.00

**Technical POC:** (732) 427-3573

# Sextant/Virtual Warfighting Tool



**3D View**



**2D Plan View**

**Requirement(s) Application:** R40 – Mission Planning/Virtual Rehearsal Tools

**Description:** The Sextant/Virtual Planning Tool is a mission planning and rehearsal tool that allows users to plan a mission in both 2D and 3D perspectives on a laptop computer. With the 3D walk-through, the planner can check sight-lines out of windows and open doors. The user can create order of battles and geo-referenced vector overlays using standard military symbology. With the exception of the 3D functionality, Sextant has undergone 5 years of iterative testing and field use in the Canadian Armed forces. Users include troop and platoon level forces.

**Tactical Utility and Basis of Issue (BOI):** Provides commanders and staff a tool to assist with mission planning and 3D Battlespace visualization.

**Vendor:**

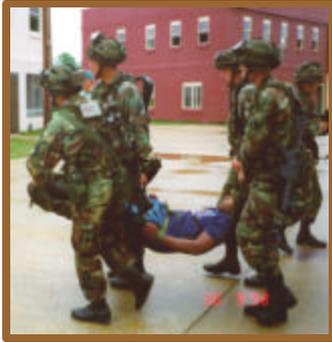
Object Raku Technology  
5720 Sherwood Blvd.  
Delta, British Columbia  
V4L2C6

**Vendor POC:** (604) 728-7258

**Unit Cost:** \$50,000.00

**Technical POC:** (407) 384-8558

# Poleless Litter



**Requirement(s) Application:** R42 – Telemedicine/Casualty Evacuation

**Description:** The poleless litter is fielded equipment constructed of nylon. Its volume is 0.163 cubic feet, with a length of 78 inches, and a width of 26 inches. The litter weighs 3.5 pounds, and is OD green. It is designed to accommodate litter poles for added rigidity, but is not needed for use (as seen in the photos). It has slings for hoisting, carrying, and lowering, and three retaining straps with buckles for securing cargo. Accessory retaining straps (6) and carrying loops (6) can be used.

**Depot:** DLA S9M

**Model Number:** NSN: 6530-00-783-7510

**Unit Cost:** \$48.20

**POC:** Government - (215) 737-7897  
Technical - DSN: 256-4663, (508) 233-4663



# Enhanced Pointer UAV



**Requirement(s) Application:** R5 – Intelligence Collection/Dissemination

**Description:** The Pointer is a production-ready electric UAV designed for remote monitoring and surveillance. The 10-pound aircraft transmits real time video to the pilot and observer on the ground, using a black and white, color, or night vision camera. A variety of alternative payloads, such as air pollution sensing, chemical weapons detection, and unexploded land mine detection, are currently being developed. It can carry a 2.6 pound payload, and can operate for 140 minutes on a non-rechargeable battery, or for 20 minutes with a rechargeable battery. The Pointer has an operational range of 8 km.

**Tactical Utility and Basis of Issue (BOI):** Provides visual intelligence gathering capability at lower command level.

**Vendor:**

AeroVironment, Inc.  
4685-3H Industrial St.  
Simi Valley, CA 93063  
(805) 581-2187

**Unit Cost:** FQM-151 \$125,000.00

3 aircraft  
2 remote viewers  
1 ground station

**Technical POC:** (732) 427-3573

# Night Vision Goggle - AN/PVS-14D



**Requirement(s) Application:** R6 – “See all”

**Description:** This hand held image intensified device incorporates a 3rd generation tube, IR illuminator, and optional 3x magnifier. The system also incorporates a manually-adjustable variable gain control, which allows the user to enhance operation within varying light levels. The 25 cubic inch AN/PVS-14 weighs 1 pound (with standard 1x lens) and uses two AA batteries, yielding at least 24 hours continuous use.

**Tactical Utility and Basis of Issue (BOI):** Allows for greater limited visibility operations and engagements.

**Vendor:**

ITT Industry Night Vision  
7635 Plantation Rd.  
Roanoke, VA 24019

**Model Number:** NSN: 5855-01-432-0524

**Unit Cost:** \$4,000.00

**POC:** Government - (703) 704-2622  
Technical - (703) 704-2757

# Night Vision Goggle - AN/PVS-7D



**Requirement(s) Application:** R6 – “See all”

**Description:** This ruggedized image intensified (generation III) device is an enhancement to the current DOD standard NVG (7B) and includes several components (headmount assembly, case, manual, etc.) as part of the kit. The third generation tube improves resolution for extended range detection of human targets. The 7D has the same volume and weight of the 7B (90 cubic inches and 1.5 pounds). Two AA batteries, or one military BA/5567 Lithium battery, is required for operation.

**Tactical Utility and Basis of Issue (BOI):** Enhances ability to operate and fight in low visibility conditions.

**Depot:** DLA B16 NVL CECOM

**Model Number:** NSN: 5855-01-422-5413

**Unit Cost:** \$2,748.00

**POC:** Government - (703) 704-1610  
Technical - (703) 704-2757

# SPEAR Body Armor/Ranger Variant



**Requirement (s) Application:** R9-Level IV Body Armor-  
SPEAR/Ranger Variant Body Armor System

**Description:** The MOUT Body Armor (BA) System provides protection against fragmentation, handgun, and rifle threats. The system contains a soft armor vest, front and back interchangeable ballistic upgrade plates, and modular neck and groin protection. The neutrally buoyant soft vest is available in four sizes (S-XL); plates are sized with the vest. The vest has an emergency plate jettison capability, can be fitted with the ELCS/MOLLE ALICE modular pockets on integral webbing, and is capable of emergency doffing from a prone, face down, wounded operator. Approximate weight of a medium vest is 6.5 pounds. The medium plates are approximately 12.6 pounds (2 plates). Total weight of the system is 19.1 pounds.

**Tactical Utility and Basis of Issue (BOI):** Increased mobility to fight in 360 degree battlespace, increased protection over current systems.

## Vendor:

Vest w/Ballistic Plates:  
Ceradyne, Inc.  
3169 Redhill Ave.  
Costa Mesa, CA 92826  
(714) 549-0421

Training Plates:  
Armor Works, Inc.  
2495 S Industrial Park Ave.  
Tempe, AZ 85282  
(480) 517-1150

## Unit Cost:

Ceradyne, Inc. - \$1795.94 - \$1852.33/System  
Armor Works, Inc. - \$178.60/set

**Technical POC:** DSN: 256-4663, (508) 233-4663

# Commanders' Smart Book Equipment Catalog

For additional information or to request copies please  
contact:

## Smart Book Team POC's

DSN: 256-5192

Comm: (508) 233-5192

DSN: 256-4347

Comm: (508) 233-4347

Email:

[AMSSB-RSC-B@natick.army.mil](mailto:AMSSB-RSC-B@natick.army.mil)

Website:

[http://www.natick.army.mil/pubs/SmartBook\\_Web.pdf](http://www.natick.army.mil/pubs/SmartBook_Web.pdf)

**Natick Soldier Center Website**

[www.natick.army.mil](http://www.natick.army.mil)

**Hot Line/Quick Reaction Coordinator**

DSN 256-5413, (508) 233-5413

