

AAR Mobility Systems manufactures a variety of shelters for military operations and humanitarian efforts. Our complete line of intermodal shelter systems is designed with maximum flexibility to comply with end-user requirements, provide ease of set-up, and meet long lifespan requirements with rugged construction.

Our shelter systems improve mobilization capabilities for operational units by providing:

- Patented integral loading base for rapid aircraft load and off load times
- Immediate operational workspace
- Reduced deployment footprint
- Secure equipment in transit

Numerous configurations are available to suit any mission, including tactical operations centers, briefing rooms, ablution units, laundry facilities, kitchens, supply and part storage, sleeping quarters, water treatment and storage, tire maintenance facilities, and more. We also offer a comprehensive selection of accessories to enhance shelter operations.

A full range of integrated services, spare parts, and field service support is available to sustain each of our shelters.

We continue to expand and improve our shelter product lines to meet the ever-changing deployment requirements of military, peacekeeping, and disaster relief forces worldwide.



**AAR Mobility Systems is a world leader in cargo pallet systems.**



# Air Mobile Shelters

AAR Mobility Systems designs, manufactures, integrates, and services our complete line of proprietary design Air Mobile Shelters (AMS). There are six variants of AMS and all are manufactured of lightweight aluminum, feature 463L locking detent rails, and are Air Transportable / Helicopter Slingable. When stowed, our Small AMS (SAMS) fit into a single pallet position on any aircraft with the 463L cargo system, while our Light AMS (LAMS) fit into two pallet positions.

Both the Small and Light product lines are offered in non-expandable, soft-sided expandable, and hard-sided expandable variants that triple the environmentally protected workspace. Dimensions below represent the approximate exterior deployed footprints.

Once you select the base model appropriate for your needs, we can configure and integrate it to meet your specific mission requirements. We are experts in "tactical packaging" of diverse hardware and software components into a system foot-print having the lightest weight and cube possible. Our integration includes advanced power and environmental conditioning modules as well as racks, communications panels, and more.

Our customer-focused approach allows us to manufacture and integrate each product on a made-to-order basis to offer you the latest shelter manufacturing and integration technology available.



## Small Air Mobile Shelter (SAMS)

1 Pallet Position - environmentally controlled shelter sized for transport on most cargo aircraft

P/N: 58100-XXX

88"W X 108"L X 91.38"H or 96.25"H



## Light Air Mobile Shelter (LAMS)

2 Pallet Positions - environmentally controlled shelter; can be transported on or off road via trailer or wheel set

P/N: 58201-XXX

96"W X 178"L X 91.38" or 96.25"H



## Expandable Small Air Mobile Shelter (ESAMS)

1 Pallet Position when stowed; 3 Pallet Positions when deployed; softside expandable walls; climate controlled workspace for variety of missions

P/N: 58203-XXX

88"W X 108"L X 96.25"H Stowed exterior  
260"W X 108"L X 96.25"H Deployed exterior



## Expandable Light Air Mobile Shelter (ELAMS)

2 Pallet Positions when stowed; 6 Pallet Positions when deployed; softside expandable walls; climate controlled workspace for variety of missions

P/N: 58200-XXX; ELAMS TOC 58202-XXX

96"W X 178"L X 91.38" or 96.25"H Stowed exterior  
266"W X 178"L X 91.38" or 96.25"H Deployed exterior



## Hardside Expandable Small Air Mobile Shelter (HESAMS)

1 Pallet Position when stowed; 3 Pallet Positions when deployed; hardside expandable walls; climate controlled workspace for variety of missions

P/N: 58205-003-XXX

88"W X 108"L X 96.25"H Stowed exterior  
245.38"W X 108"L X 96.25"H Deployed exterior



## Hardside Expandable Light Air Mobile Shelter (HELAMS)

2 Pallet Positions when stowed; 6 Pallet Positions when deployed; softside expandable walls; climate controlled workspace for variety of missions

P/N: 58204-XXX

96"W X 178"L X 96.25"H Stowed exterior  
258"W X 178"L X 96.25"H Deployed exterior

# 20-Foot ISO Shelters

AAR Mobility Systems' 20-Foot ISO Shelters (TFI) are unique in that they are lightweight, deploy quickly and intuitively, and are readily air-transportable in the C-130 with their moveable corner blocks, roller plates, and 463L-compatible detachable detent rails, which eliminate the need for pallets and chains at the airfield (U.S. Patent No. US 7,717,290 B2).

Constructed with an aluminum frame with foam and beam structural panels, our shelters are designed to meet all key performance specifications of ASTM E-1925, ASTM E-1976, ISO 1496-1 and -2, ISO 1161-1990, and ISO 668-1995.

Our integration capabilities include all forms of Command, Control, Computers, Communications, Intelligence, Surveillance, and Reconnaissance (C4ISR); as well as expeditionary systems such as showers, latrines, laundries, and power generation units. The overall objective of our system integration process is to provide a system that not only meets performance requirements, but also maximizes the use of standardized parts and uses common components and layouts that can be employed in multi-vehicle and multi-node C4I system programs.



### 20-ft Non-Expandable ISO Shelter

Highly configurable to meet customer requirements; deployable by two people in less than 30 minutes; CSC Certified 6-high stackable

P/N: 58301-XXX      P/N: 58302-XXX  
w/ Mechanical Room      Full Length

96"W X 238.4"L X 96"H Exterior

### 20-ft 2:1 Expandable ISO Shelter

Highly configurable to meet customer requirements; deployable by two people in less than 30 minutes; CSC Certified 6-high stackable

P/N: 58306-XXX      P/N: 58308-XXX  
w/ Mechanical Room      Full Length

96"W X 238.4"L X 96"H Stowed  
167"W X 238.4"L X 96"H Deployed

### 20-ft 2:1 Expandable ISO Shelter

Highly configurable to meet customer requirements; deployable by two people in less than 30 minutes; CSC Certified 6-high stackable

P/N: 58305-XXX      P/N: 58307-XXX  
w/ Mechanical Room      Full Length

96"W X 238.4"L X 96"H Stowed  
238.7"W X 238.4"L X 96"H Deployed

## TFI/MECC Applications

- Command Posts
- Sleeping Quarters
- Field Kitchens
- Medical Facilities
- Laundries
- Shower Complexes
- Latrines
- Various Workshops
- Sewage Treatment
- Water Storage Treatment



### Mobile Expandable Container Configuration (MECC)

Fully customizable, self-contained shelter with proven fabric structure technology expanding from Standard 20-Foot ISO Container

P/N: 50389-XXX

96"W X 240"L X 96"H Stowed  
264"W X 240"L X 96"H Deployed

### MECC Tire Maintenance Facility (TMF)

Self-contained, one-stop shop for all military tires, integrated with host of equipment including generator, ECU, and air compressor

P/N: 58390-043

96"W X 240"L X 96"H Stowed  
264"W X 240"L X 96"H Deployed

# Vehicle-Mounted Shelters

AAR manufactures versatile mobile shelters that are mountable directly to their carrier vehicles. These shelters provide highly transportable workspaces and storage for a variety of objectives, such as logistics support, maintenance, administration, command-and-control, and other mission-essential functions in the battlefield environment.

Whether permanently mounted to a vehicle, such as the Lightweight Multi-Purpose Shelter (LMS), or designed to be positioned on the ground so that transport vehicles can perform other functions, such as the Mobility Shop Container (MSC), Expandable Mobility Shop Container (EMSC), or Shop Van Shelter or Expandable Shop Van Shelter (EVAN), these rugged shelters are true workhorses intended to support and enhance military mobile functions.



## Lightweight Multi-Purpose Shelter (LMS)

Tested and proven modular solution for Command and Control applications; true 90-degree interior corners; made of corrosion-resistant aluminum; EMI-Shielded (Type I & III)

P/N: 58301-002-A01	Type I One Door
P/N: 58302-006-A01	Type III One Door, Tunnel
P/N: 58323-007	Type V Double Rear Doors
84"W X 102"L X 67"H Exterior	



## Mobility Shop Container (MSC)

Comes with ECU, dehumidifier, exhaust fan, power distribution unit, work bench, shelves, parts trays, closet, task lighting, power strips, slave cables, floor nets and more; can be positioned on ground; fits on standard 5-ton truck, FMTV, HEMTT, flatbeds, PLS flatracks and more

P/N: 50353-001	MSC
P/N: 50353-002	MSC Office
90"W X 185"L X 84"H Exterior	



## Mobility Shop Container (MSC) for LMTV

Comes with ECU, dehumidifier, exhaust fan, power distribution unit, work bench, shelves, parts trays, closet, task lighting, power strips, slave cables, floor nets and more; can be positioned on ground; fits on Standard LMTV; Peck & Hale tie-down kit for over the road and rail transport

P/N: 50353-050
90"W X 164"L X 84"H Exterior



## Expandable Mobility Shop Container (EMSC)

MSC has expandable softwalls that deploy in minutes; comes with ECU, power distribution unit, insulated floor, leveling jack kit, winch system, communication pass-through panel

P/N: 50386-XXX
87"W X 146"L X 84"H Stowed
234"W X 146"L X 84"H Deployed



## M105 Trailer Shop Container (TSC)

Designed to be fully functional on a trailer or positioned on ground; modular high-density storage system including 30 8"- deep storage trays; fluorescent lighting, 4-gang 120v electric outlet

P/N: 50353-XXX
73"W X 107"L X 84"H



## M1079 Shop Van Shelter (SVS)

Non-expandable shelter for LMTV 2.5-ton truck chassis, transportable stairs for easy entry and exit, fluorescent lights and 24VDC emergency and blackout light system, power distribution unit, double personnel door at rear

P/N: 50412-XXX
95"W X 187"L X 85"H



## M1087 Expandable Van Shelter (EVAN)

Expandable shelter for FMTV 5-ton truck chassis, fluorescent lights and 24VDC emergency and blackout light system, power distribution unit, double personnel door at rear

P/N: 50422-XXX
96"W X 278"L X 96"H Stowed
164"W X 278"L X 96"H Deployed



## 2-280 C/G Shelter

Highly mobile, fully insulated tactical shelter designed to function in extreme climates; easily modify using mounted racks and shelves, transport by 5-ton tactical trucks, M832 dolly set, HSMWS, Helo with 8,500 lb. hook capacity, rail, and ship

P/N: 50375-XXX
87"W X 147"L X 83.38"H



## Contingency Response Communications System (CRCS)

Total IP-Based C4 VI Solution providing common resolutions to voice, video, and data sharing for first responders; fits on back of 3/4-ton pick up or HMMWV and runs on regular power source or generator

P/N: 20-00468
79"W X 87"L X 70"H