

# Hybrid Workshop Facility



G3systems

- Hybrid (Softwalled/Containerised) workshop facilities providing maximum workspace in the field for best value for money
- System capable of repair, maintenance and manufacture of a wide range of systems and equipment in the field from bridging to air conditioning and special vehicles
- Flexibility of deployment with configurable single, double and multiple work areas
- Large work area (hanger) Armadillo system provided by Aply Shelters enabling vehicle access and large work piece access
- Common core container design using proven in service equipment
- Machine tools and equipment provided for a wide range of trade capabilities, typically including:
  - Planning and draughtsman
  - Carpenter joiner
  - Fabricator and blacksmith
  - Equipment fitter and welder
  - Utility and petroleum fitter
  - Building and structural finisher
  - Air conditioning and refrigeration engineer
  - Heating and ventilation engineer
- Fully deployable without the use of MHE
- Work flows designed to meet H&SE Guidelines
- Capable of operation worldwide in a wide range of climatic conditions
- Powered using FEPDS electrical distribution system with failsafe earthing system
- Inherently safe system and working environment



# Specification



## SYSTEM OVERVIEW

The system was designed to provide military with a range of tools and equipment housed in a deployable workspace providing the capability to allow manufacture, modification and repair of engineer resources and specialist equipments. This was achieved within a Hybrid System design through the configuration of the following core system components:

- Common DROPS Container Modules - tailored to meet individual trade requirements
- Soft Walled Work Areas - providing the required covered work spaces

The core building block and method of transportation of the system uses multiple DROPS integrated CSC approved 20ft ISO containers. All DROPS containers include FEPDS compatible electrical interface panels. The container systems are integrated with a range of machine tools and equipment to enable various trades to operate effectively in the field. The system incorporates 12 containers with the trades either allocated as single use or shared.

- ME Fabricator and Blacksmith - two containers
- ME Carpenter and Joiner - two containers
- ME Fitter Equipment and Welder - one shared container
- ME Fitter U&P and ME Fitter ACR - one shared container
- ME Electrician and ME Fitter H&P - one shared container
- Planning Staff & Draughtsman - one shared container
- ME Building and Structural Finisher & Storeman - one shared container
- Main Work Area Storage Container - doubles as a G1098 Stores Container when deployed
- Forward Deployment and Utility Container (FDUC) - provides a forward deployable capability independent of the main Hybrid
- System and acts as a general Utility Container when not on deployment
- RACU Container - housing the environmental conditioning equipment for the Main Work Area shelter

## Soft Walled Work Areas

Two complementary soft walled work spaces (provided by Ably Shelters) provide environmentally conditioned and spacious working areas integrated with the containers housing the machinery and tooling for each trade.

## Main Work Area (MWA)

The self-build MWA (provided by Ably Shelters) provides a large work area (242m<sup>2</sup> approx. W 11.5m x L 21m) allowing full vehicular access and handling of large work pieces. The shelter provides an effective 11.6m x 3.5m entry way, with 5m x 5m at the centre to ensure a variety of possible work pieces, machinery and vehicles can not only gain entry from either end of the structure, but that unnecessary movement of other maintenance tasks to allow entry/egress is eliminated. The system can be integrated with up to four 20ft containers (2 on each side) using breezeway attachments which provide weatherproof connections between the trade containers.

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