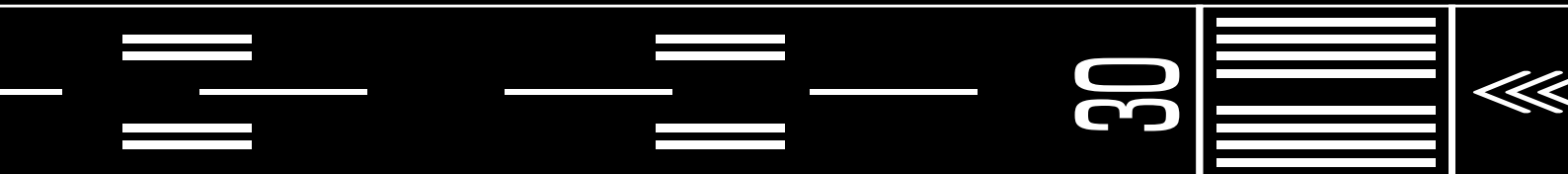




**AMMA**  
SPA

SUPPLIER OF GLOBAL SOLUTIONS  
FOR AVIATION FUEL HANDLING



**AMA's "CRS" and "CST" Systems** are containerized units designed and manufactured to handle aviation fuels for the General Aviation market and/or to suit special operation projects.

The systems are based on a "ready-to-use" concept, with all subassemblies fitted into certified 20' and/or 40' ISO container, capable of storing and dispense JET A-1 and/or AVGAS in a safe and controlled manner in accordance with the latest aviation standards and guidelines. The containerized systems offer the advantage of being handled and transported as conventional box containers, which reduces freight costs. Moreover, once at final destination, they can be installed and put in service with a minimum ground preparation and a very limited start up time.

The CRS and CST are designed to allow total closure of each door/porthole, to protect them from water, dust and environmental contamination. The units can also be secured to prevent unauthorized access.



## CST

The **CST** consists of a double wall storage tank, inlet/outlet piping and manifold and is suitable to store aviation fuels in a safe and uncontaminated way. It is available in the 20' or 40' versions depending on the CSC container size, with a storage capacity of 17'000 and 36'000 l respectively. The CST can be interconnected in parallel with other units in order to increase the total depot storage volume.



## 20' CRS

The **20' CRS** module is a containerized system consisting of a tank, pump, filtering, metering, sampling and refuelling unit, suitable to deliver clean and dry aviation fuel. The typical configuration is based on a 15'000 litres storage tank combined with a 200÷400 l/min overwing refuelling pump set fitted with filter monitor. A filter water separator unit can be integrated on the receiving line as an alternative to the 200 mesh strainer usually fitted.



## 40' CRS

The **40' CRS** variant offers the same characteristic as the 20' CRS with the advantage of a larger storage capacity (up to 30'000, depending on the configuration). The pump set flow rate ranges from 400 to 1'200 l/min, offering overwing and/or underwing refuelling capabilities. The refuelling line can be fitted with single or multi wrap hose reel with a hose length of up to 50m. A generating set can be integrated in a separate compartment to guarantee autonomous functioning.



## CRS and CST

The **CRS** and **CST** can be interconnected by means of a manifold system which allows to enlarge the fuel depot in a modular and progressive way, based on the fuel volume requirement. In this way the fuel farm can reach a total storage capacity up to 500'000 l.

AMA's AFT, FTP and PRP Mobile Systems, trailer or cart mounted, are designed and manufactured to facilitate fuel handling operations at locations where conventional systems are not available, for rapid deployment and/or temporary projects. They are conceived to provide user-friendly, simple to operate, cost effective machineries, always ensuring highest standards of safety and reliability.



## AFT "R"

The **Aviation Fuel Trailer "R" model** is a mobile system mounted on a two axis chassis with fifth wheel trailer and is specifically designed for handling aviation turbine fuel in the field. It has a compact and sturdy structure, which can be easily maneuvered in most areas, and is fitted with reliable components. It can be combined with collapsible fabric tanks to deliver clean and dry fuel to aircrafts in remote locations worldwide.

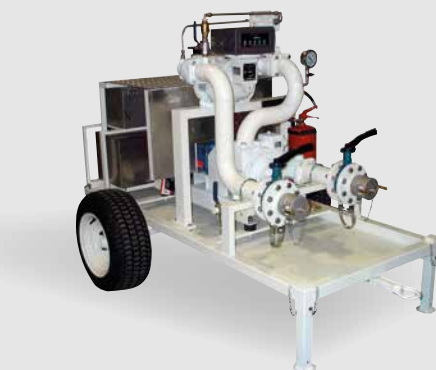
The AFT can be designed to meet the required performances in terms of flow rate, suction-delivery distances and filtration systems (filter water separator, monitor filter).



## AFT "T"

The **Aviation Fuel Trailer "T" model** is a trailer mounted system suitable to unload - transfer - load aviation fuel into/from holding tanks, road tankers and/or refuelers. Thanks to its light two-axle trailer, the module can be easily towed at the refuelling site.

The self priming PD pump is operated by a twin cylinder diesel engine capable to run on jet fuel as well. Generally, the flow rate can vary from 600 to 1200 l/min. The unit is complete with filter water separator, fiscal flow meter, deadman control valve and hose reel. It can be fitted with various accessories to suit the client's specific requirements.



## FTP

AMA's **Fuel Transfer Pump (FTP)** is a compact and sturdy diesel engine or electric driven pump, fixed on a two wheel trailer. It is designed for bulk fuel transfer operations from the main fuel source to the end usage point. The FTP is available in various capacities (200 to 1,200 l/min), offering high suction performances. The transferred fuel volume is monitored via a fiscal flow meter.

The system functionality and reliability have been tested in extreme conditions worldwide with excellent results.



## PRP

AMA's **Portable Refuelling Pump "PRP"** is a fuel dispensing system suitable for refuelling operations in the field. The unit can be fitted with a diesel engine driven self-priming pump or 230 Vac (24 Vdc) electric motor capable of delivering fuel up to 200 l/min (depending on the installation conditions). The system is mounted on a two wheel compact sturdy structure, which ensures easy-handling at site.



# AVIATION FUEL EQUIPMENT FOR “SMALLER AIRPORTS”



AMA designs and manufactures a wide range of Depot Facilities and Fuelling Equipment in accordance to JIG 4 Standard and EI recommended practices. AMA's facilities are integrated with first quality COTS products meeting specific international standards.



Storage tanks are available in various capacities up to 100'000 l. Depending on the required fuel depot capacity, storage tanks can be configured for 'in parallel', 'stand alone' and/or 'skid mounted' configuration. The installation can be completed with pump set and piping to meet the customer's requirements.



AMA's tanks are available with single or double shell, entirely in stainless steel or coated carbon steel. The refuelling cabinet is integrated for the smaller capacities. Tank fittings include floating suction arm, overfill prevention valve, leak detection system, low point sump, automatic tank gauging system and other devices upon request.

AMA Transportable Tanks (TT) are IMDG and ADR certified tanks in various capacities from 280 up to 3,000 litres, which can be transported fully loaded by road, sea or railway. They are equipped with manual or electrical pump, flow meter, filter monitor, refueling hose and nozzle, all mounted in a lockable metal cabinet. Hose reels and bonding reels are available in various lengths.





The LUS general design includes separate lines for fuel unloading and loading, each fitted with self priming pump, filter water separator and ancillaries. It can be configured for aircraft refueling as well. The Eexd control system can include hardwired relay logic in order to guarantee the correct valve opening sequence for each operation.



AMA's Loading - Unloading System "LUS" is a consolidated unit complete with all elements required to transfer fuel into holding tanks – transport tanks. The unit can be fitted with ancillary components to suit the customers' specific requirements such as refueler bonding verification unit, relaxation chamber, test rig circuit, in line closed sampling circuit.



AMA fuelling systems are mounted on a skid structure with totally welded base floor to collect maintenance and/or accidental spills and can be enclosed in a easily accessible cabinet equipped with front doors and/or aluminium roller shutter for protection against weather conditions and tampering.



AMA Aircraft refuelling cabinets are specifically designed in accordance with the customer requirements to dispense safely dry & clean aviation fuel into an aircraft. The system flow rate can vary from 120 to 800 l/min. It can be configured for fix installation, mounted on 'scissor' elevator or for offshore application.







Empty Quarter – Saudi Arabia



Barcelona – Spain



Wau – Sudan



São Paulo – Brazil



Ihambane – Mozambique

