



# Millennium Systems

## International

### **MARS**

### **MODULAR AIRCRAFT REFUELING SYSTEMS**

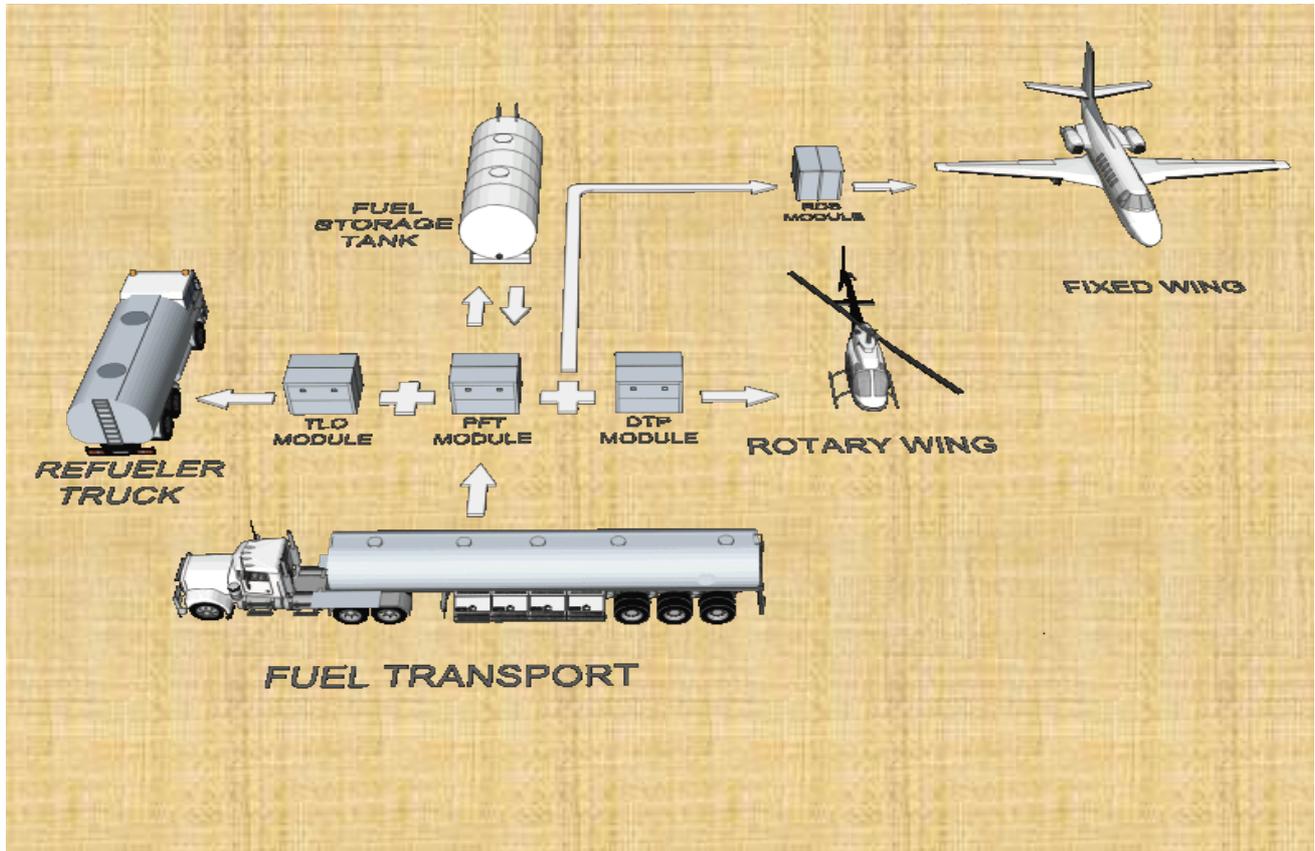
### **The New Standard in Aviation Fuel Farm Design**



Millennium Systems International, LLC specializes in the design, fabrication and integration of precision-engineered, modular fueling systems for military and commercial customers worldwide. Our MARS (Modular Aircraft Refueling Systems) is the new standard in Aviation Fuel Farm Design with interoperable modules that allow for unmatched flexibility and scalability.

## The MARS Modular Concept

The MARS Modular concept is simple, flexible and scalable.



MSI's family of standardized MARS Module configuration simplify specification, procurement, maintenance and spare parts support. Each MARS Module is precision engineered with rugged, field-proven components to provide years of trouble-free service. Flexible, modular design allows for system expansion as needs change by simply adding modules providing a truly "scalable" aviation fueling system solution.

A wide range of options are available including Underwing Refueling, Self-Serve Fueling (with Card Reader) and aluminum or stainless steel cabinet enclosures. All MARS Modules are built in accordance with NFPA 30 & 407, ATA 103 and API 1529, 1581 and 1583.

# The MARS Family



## **PFT (Pump & Filter) Module:**

- Offloads transports into storage via filter at 200 USGPM
- Recirculates stored fuel thru filter at 200 USGPM
- Transfers filtered fuel to other MARS Modules (DTP, RDS & TLO)
- 3" Blackmer GX3 Pump Set w/relief valve, gear reducer & 10 h.p. XP, 3 phase motor (15 and 20 hp motors available)
- Facet API 1581 5th Edition Filter/Separator w/accessories, rated at 243 USGPM
- Crown Electronic Water Defense System
- Aluminum Cabinet Enclosure w/seal-welded steel containment pan



## **DTP (Direct-to-Plane) Module:**

- Dispenses Aviation Fuel at 25-50 USGPM
- 1 1/2" L.C. Meter w/Large Numeral Counter & Optional Air Eliminator/Strainer
- 1 1/2" Hannay Electric Rewind Hose Reel w/XP motor & aluminum internals & 4-way hose roller assembly w/ball stop
- 1 1/2" Emco Wheaton G180 Overwing Nozzle w/swivel & 100 mesh strainer



## **RDS (Remote Dispenser) Module:**

- Dispenses Aviation Fuel at 25-50 USGPM
- 1 1/2" L.C. Meter w/Large Numeral Counter & Optional Air Eliminator/Strainer
- Facet Coalescer/Separator w/color-coded D.P. gauge, vent, drain & dual SS sample ports & Crown Electronic Water Defense System (Jet A only); Filter/Monitor for Avgas
- 1 1/2" Hannay Electric Rewind Hose Reel w/XP motor & aluminum internals & 4-way hose roller assembly w/ball stop.
- 1 1/2" Emco Wheaton G180 Overwing Nozzle w/swivel & 100 mesh strainer
- Aluminum Cabinet Enclosure w/seal-welded steel containment pan



## **TLO (Truck Load) Module:**

- Bottom Load Refueler Trucks w/single point nozzle
- 100 USG Relaxation Tank w/accesories per NFPA 407
- 3" L.C. Meter w/Large Numeral Counter & Optional Air Eliminator/Strainer
- 2" x 12' Loading Hose w/Swivel Joint
- Electronic Deadman Control w/30 ft. cord & Gammon Mini-Deadman Handle
- Aluminum Cabinet Enclosure w/seal-welded steel containment pan

# Millennium Systems International

## The Leader in Modular Aviation Fueling Systems



### **Markets Served:**

- Fixed Base Operators (FBOs)
- Airborne Law Enforcement
- Emergency Medical Services
- U.S. & Foreign Military
- Government Agencies
- Corporate Aviation
- General Aviation
- Offshore Oil Exploration
- Electric Utilities

### **Key Customers:**

- Boeing
- Gulfstream
- Bombardier
- Spirit Aero Systems
- CNOOC
- Saudi Aramco
- U.S Army/Navy/Air Force
- U.S. Marine Corps
- U.S. Coast Guard
- United Nations

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