

POYRAZ

AMMUNITION TRANSFER SYSTEM





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To maintain the firepower of the self propelled howitzers (SpH) in the battle field, fast supply of ammunition is very crucial.

POYRAZ Ammunition Resupply Vehicle is capable of loading ammunition in supply area and transferring ammunition to the FIRTINA SpH within the required time and location in all kind of terrain and battlefield. POYRAZ Ammunition Resupply Vehicle has the necessary mobility and survivability capabilities for operation within the tactical operational environment of FIRTINA SpH. Therefore Ammunition Resupply Vehicles enhances the FIRTINA SpH's mobility and provides capability for rapid deployment without being exposed to enemy counter-firing thus enables higher firing rate and shoot and scoot tactical requirements.

Ammunition Transfer System which has been indigenously developed by ASELSAN performs loading and unloading of ammunition automatically by means of a four stage mechanism. Control of the mechanism is performed via servo control system.

Ammunition Transfer System Main Functions

Establishes the inventory registration of the different types of ammunition, sends the inventory to the uppermost command centers via VHF/FM Tactical Frequency Hoping Radio and as needed it can updated the inventory

POYRAZ Ammunition Resupply Vehicle can execute the voice or digital orders coming from uppermost command centers, through the Global Positioning System (GPS) on the vehicle, it can change its position and deploy rapidly

By means of command control and communication system, Ammunition Transfer System positions of the ammunition supply points, friendly and hostile units, known points, command center positions and battlefield information which can be viewed on the digital map.

Technical Specifications

- Automatic ammunition transfer
- Compatible with all kind of ammunition used for FIRTINA sPH
- 96 ea. projectile storage and transfer capacity
- 96 ea. modular and bag charge storage and transfer capacity
- Transfer time of 48 ea. projectiles and 48 ea. charges < 20 minutes
- Digital Map
- Automatic inventory management system
- Inventory information transfer with uppermost command centers
- Digital communication via VHF/FM Tactical Frequency Hoping Radio to uppermost command centers
- Navigation via GPS
- Adopted to MIL-STD-810G to operate at battlefield conditions
- Supports related military communication protocols

Outstanding Features

- In all kind of terrain rapid and safe ammunition transfer to FIRTINA sPH
- Sustained fire power for FIRTINA sPH via continuous ammunition loading
- Ammunition transfer on night conditions
- Ammunition transfer ability up to 10% slopes
- Decreased crew for ammunition transfer
- Vehicle driving data processing and digitizing
- Expandable system infrastructure for new types of ammunitions
- Integration to uppermost command control centers
- Compact Single conveyor design suitable for both projectile and charge transfer
- Manual projectile loading and unloading in case of emergency
- Servo-controlled automation for sixteen different axes
- Automatic control for simultaneous motion of four different mechanisms
- Subsystem control architecture for discrete motion of four different mechanism
- System level control architecture for synchronization of mechanisms
- Ammunition transfer systems and similar automation system design and development capability for different vehicles or platforms

Engine Control and Display Capabilities

- Driver Display Panel displays vehicle driving data and engine malfunction
- Engine Interface Unit displays engine operating data
- Integrated driver navigation system on Driver Display Panel