ALKAR 100/120

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120 MM MORTAR WEAPON SYSTEM

#LandandWeaponSystems

INDIGENOUS RECOIL MECHANISM
INTEGRATION TO ALL KINDS OF TRACKED AND TACTICAL WHEELED VEHICLES
INDIGENOUS AUTOMATIC AMMUNITION LOADING SYSTEM
INTEGRATION OF ANY KIND OF RIFLED AND SMOOTHBORE MORTAR BARREL
WORKING INTEGRATED WITH COMMAND AND CONTROL SYSTEM

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ALKAR 100/120

120 MM MORTAR WEAPON SYSTEM

ALKAR 100/120 mm Mortar Weapon System, originally designed entirely by ASELSAN including sub-systems, is a modern weapon system integrated on a turret equipped with Automatic Barrel Laying System, Automatic Ammunition Loading System, Recoil Mechanism and Fire Control Systems.

General Specifications

- Integration of any kind of domestic / foreign rifled or smoothbore mortar barrel
- Modular system architecture enabling integration to tracked vehicles, tactical wheeled vehicles and stationary platforms
- Recoil Mechanism reducing the force transferred to the platform during shooting that increases the variety and number of platforms that system can be integrated
- Automatic Ammunition Loading system allowing precise, fast and safe loading of ammunitions
- Usibility with all kind of mortar ammunition
- Automatic and precise laying in accordance with the calculated fire command
- Precise position and barrel laying detection with Inertial Navigation System
- Generating position, direction, altitude data for navigation and displaying the route on the map
- Mission-oriented, colored, graphical user interface
- Fast and accurate balistical calculation by using 'NATO Armaments Ballistic Kernel (NABK)'
- Muzzle velocity measurement
- Receiving meteorological data via digital communication
- Accurate ballistic calculation with the use of muzzle velocity and meteorological data
- Performing all mortar fire missions
- Demonstration of the Battlefield elements/information on a digital map
- Usability within any tactical and operational structuring
- Ability to work integrated with Command Control Systems
- Integration with AFSAS (ASELSAN Fire Support Automation System)
- Integration with Forward Observer Systems, Target Detection Radars and Meteorological Systems
- Manual and automatic modes of firing
- Emergency stop

Technical Specifications

- Barrel : 120 mm Rifled*
- Range
  - Min : 1500 m*
  - Max : 8180 m*
- Barrel Length : 1900 mm*
- Time to Shoot : < 1 minute
- Time to Scoot : < 10 second

Firing Sector

- Azimuth : ± 3200 miliem
- Elevation : 800 - 1200 miliem*

Dimensions

- Width : 1220 mm
- Length : 2491 mm
- Height : 1113 mm

* Properties may vary according to the type of smooth/rifled barrel.

Specifications are subject to change without any notice. | All tolerances are within ±10%.

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