



81 MM MORTAR WEAPON SYSTEM

#LandandWeaponSystems



INDIGENOUS RECOIL MECHANISM
INTEGRATION TO ALL KINDS OF TRACKED AND TACTICAL WHEELED VEHICLES
WORKING INTEGRATED WITH COMMAND AND CONTROL SYSTEM



aselsan

81 MM MORTAR WEAPON SYSTEM

ALKAR 100/81 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, Recoil Mechanism and Fire Control Systems.

General Specifications

- 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
- Usability 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 ballistical 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 and 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 : 81 mm Smoothbore*
- Range
 - Min : 100 m*
 - Max : 5800 m*
- Barrel Length : 1453 mm*
- Time to Shoot : < 1 minute
- Time to Scoot : < 10 second

Firing Sector

- Azimuth : ± 3200 miliem
- Elevation : 800 - 1500 miliem*

Dimensions

- Width : 972 mm
- Length : 1946 mm
- Height : 1182 mm

* Properties may vary according to the size of barrel.



Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.

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