



NAUDI

National Association of
Ukrainian Defense Industries

**UKRAINIAN
ARMOR**

Design and
Manufacturing
Company



LONG BOW

MOBILE MORTAR COMPLEX

FEATURES

Armored cabin (compartment) is designed for 5 people, with the necessary elements of anti-bullet and mine protection, providing protection in accordance with the requirements of the 2nd level of protection according to STANAG-4569.

MMC is equipped with automated guidance and fire control system which is designed to provide automated execution of shooting preparation and fire control tasks, providing MMC guidance in automatic and manual modes, restoring its guidance after a shot (sight correction) using a mortar monitor (or optical sight), support continuous interaction in combat, exchange of voice information and text information messages. The reaction time of the MMC (the time from the moment of

receiving data about the target to the moment of readiness for the shot) on the planned target does not exceed 5 sec., on the unplanned target, in the prepared firing position - does not exceed 15 sec. on an unplanned target from the march, in the unprepared firing position - does not exceed 30 sec.

MMC is equipped with the system of orientation, navigation and topography, integrated inertial-satellite (GPS, GLONASS, GALLILEO, SBAS) designed for automated continuous determination of the current rectangular coordinates, height and directional angle of the longitudinal axis of the MMC while driving and in the parking lot, as well as the exact time (according to the signals of the satellite navigation system).

Name	Technical Specification	
Caliber, mm	82	120
Shooting range, m: maximum with long-range charge minimal	not less than 3900 85	not less than 7100 480
Maximum rate of fire, shot / min. with aim relay without aim relay		8 15
Type of loading	muzzle loaded	
The average error of complete preparation Ex(Ez), % depending on shooting range	not worse than 0,5	
Technical scattering, m on range (Dr) on 100% Dmax, m on the lateral deviat on (Dl) by 100% Dmax, m	not worse than 1/125 not more than 15	not worse than 1/250 not more than 12,8
Limit modes of fire, shots during 3 min. during 5 min. during 10 min.		not less than 22 not less than 30 not less than 40
The largest angle of elevation, deg.	85	
The smallest angle of elevation, deg.	45	
Horizontal aiming angle, deg.	not worse than ±35	
Guidance speed, deg./sec. vertically and horizontally	15	
Angular transfer speed, deg / sec.	not less than 35	
Carried ammunition, pcs. mortar shots cartridges for the machine gun		not less than 50 not less than 500
BASIC MOBILITY INDICATORS OF BASIC WHEELED CHASSIS		
Maximum speed on the highway on rough terrain		not less than 90 km / h not less than 30 km / h
Minimum turning radius on the track of the front outer wheel	not more than 13 m	
Cruise range on the highway off-road		not less than 690 km not less than 500 km
OBSTACLE OVERCOMING		
Maximum gradient, deg.	not less than 30	
Maximum side slope, deg.	not less than 25	
Spanning ability, m	not less than 0,5	
Obstacle clearance, m	not less than 0,4	
Ammunition stowage area must ensure the placement of at least 50 mortar shots of a certain range.		



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