

81 mm Mortar M81MA

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NSN: 1015-50-000-7414

The 81 mm Mortar **M81MA** is used to support its own military units using indirect fire. The curved trajectory allows the rounds to rain down from above, directly on troops, vehicles, buildings, battlements etc. that are in defilade or out of line of sight for firing. Average kill radius of the 81 mm mortar round is 35 meters and the concussion from the impact alone is enough to destroy multiple targets. Using multiple **M81MA** units at once and firing different types of rounds can be extremely devastating to the enemy. At night they can also provide illumination to help with target identification. Intended for battalion level use in fortified positions to provide support from up to 6200 meters (3.85 miles) away.

Main features:

- Perfect weapon for different combat operations;
- indirect fire support for infantry, paratroops and armored personnel carriers;
- High firing capacity and accuracy;
- Easy operation and maintenance.

SPTA set:

- Spare parts - firing pin, 2-pieces leather rings for the shock absorbers
- Tools - lever; carrier for cleaning rag; bent wrench for hexagon socket head screws SW 8mm;

Accessories:

- 2 pcs. three-part aiming posts;
- bag for aiming posts;
- bag for lamps;
- 2pcs. gloves;
- tritium aiming post lamps (green and orange);
- bag for spare parts;
- bag for ammunition;
- lubricating can;

Bag for tools and accessories:

- 3 pcs. carrying frame with straps;
- three-part wiper arm;
- cleaning brush for the barrel, bronze;
- cleaning brush for the barrel, nylon;
- muzzle cover.

Extras (paid separately):

- Control quadrant for Mortar KM-1



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SPECIFICATION	
Calibre, mm	81
Barrel with breech block length, mm/in	1480 mm / 58.2 in
Base plate diameter, mm/in	596 mm / 23.4 in
Weight:	
- total, kg/lbs.	53.7 kg (with Mortar Sight) / 118.3 lbs. (with Mortar Sight)
- barrel with breech block, kg/lbs.	16.5 kg / 36.3 lbs.
- base plate assembly., kg/lbs.	24 kg / 52.9 lbs.
- bipod, kg	12.2 kg / 26.8 lbs.
- mortar sight, kg/lbs.	1 kg / 2.2 lbs.
Elevation range, mils	700-1500
Traverse range, mils	300
Rate of fire, rounds/min	not less than 15
Max range of fire, m / miles	6200 m / 3.85 miles
Ammunition	81 mm HE81LDMA, TB81, PRACT 81LDMA, ILL81, ILL81LD, SMK 81RP,
Max. operating gas pressure, bar	950

SHOOTING RANGE AND PRECISION			
81 mm HE81LDMA, PRACT 81LDMA RANGE TABLE			
Charge No	Muzzle velocity, m/s	Range, m	Max. pressure, bar (piezo)
0	81	220-635	100
1	143	625-1820	160
2	185	970-2820	250
3	222	1300-3790	350
4	254	1600-4650	450
5	285	1900-5490	650
6	312	2145-6200	800
7	337	2315-6670	900

PACKING	
1 pcs. in a wooden case	
Net weight, kg/lbs.	70 kg / 123.4 lbs.
Gross weight, kg/lbs.	133 kg / 240.3 lbs.
Case dimension, mm/in	1735 x 830 x 445 mm / 68.3 x 32.6 x 17.5 in
Case capacity, m ³	0.64 m