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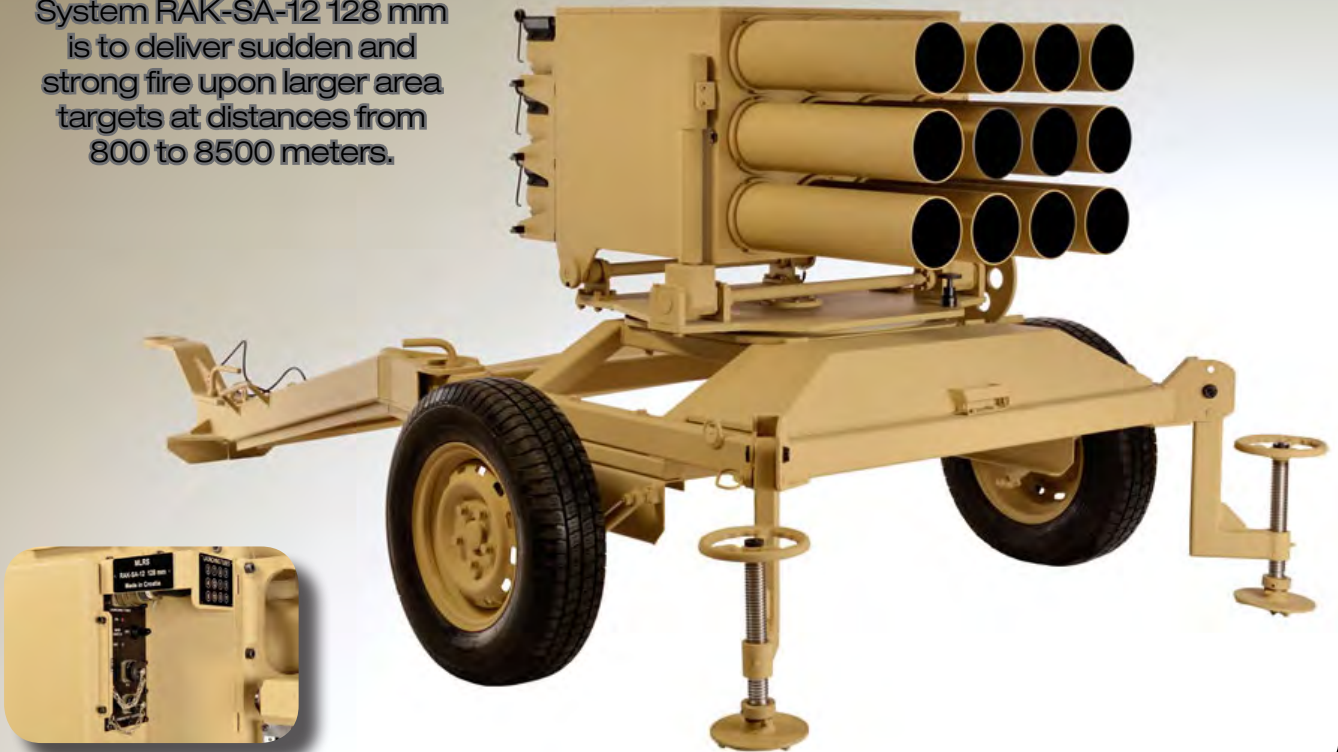
Multiple Launch Rocket System  
**RAK-SA-12**  
128 mm



Zagreb, Croatia  
[www.geofoto-group.hr](http://www.geofoto-group.hr)  
tel.: +385 91 9594 015  
email: [marketing@geofoto-group.hr](mailto:marketing@geofoto-group.hr)



The purpose of the Multiple Launch Rocket System RAK-SA-12 128 mm is to deliver sudden and strong fire upon larger area targets at distances from 800 to 8500 meters.



It is used for destruction of enemy personnel and material on open areas or in shelters, including: infantry, artillery in firing position or on the move; command posts, communications centers and observation posts; paratroopers or marines landing areas; roads, railways and other transportation lines; harbors and air bases.

Due to its low weight, relatively long range and rocket destruction power, RAK-SA-12 is suitable for operations on different terrain types and in all meteorological conditions. Launcher can use the following types of 128 mm caliber rockets: M91, M91A1 and M91A2, equipped with fuses RUK M92 and RUTI M94. Rocket can be used in temperature range between -30 °C to +50 °C.

Launcher crew consists of five soldiers, commanded by group commander. Time required to convert launcher from transport to firing configuration is 1 min 30 sec, and back from firing to transport configuration is 1 minute.

Main transportation method is towing by truck, and can be transported by truck, railway, ship or aircraft. Empty launcher can be towed at speeds up to 80 km/h on asphalt roads, up to 50 km/h on macadam and up to 25 km/h on terrain. Loaded launcher can be towed at speeds up to 60 km/h on asphalt roads, up to 40 km/h on macadam and up to 15 km/h on terrain.





# RAK-SA-12



## Product Specifications:

Caliber: 128 mm

Maximum range with rocket 128 mm M91A1, A2: 8540 m

Number of tubes: 12

Tube length: 1200 mm

Horizontal field of action:  $\pm 15^\circ$

Vertical field of action:  $-1^\circ$  to  $46^\circ$

Fire modes - burst fire: 12 rockets in 9.6s

Fire modes - single rocket fire: 1 rocket in 1s

Remote controller cable length: 25 m

Battery: 12V/7Ah

Battery charging voltage - DC external source: 12 – 24V

Battery charging voltage - AC external source – public electric grid: 110-220V

Charging current: up to 1A

Impulse current: up to 2,1A

Impulse length: 55 ms

Launcher weight in transport: 720 kg

Launcher weight in firing position - unloaded weapon: 695 kg

Launcher weight in firing position - loaded weapon: 975 kg

Spare parts and accessories box weight: 25 kg

Towing eye force: 450 N

Launcher length in transport configuration (trails closed): 3740 mm

Launcher length in firing configuration (trails extended): 3785 mm

Clearance, in transport configuration: 270 mm

Track width: 1550 mm

Launcher width in transport configuration: 1710 mm

Width in combat configuration (trails extended): 2890 mm

Height of empty launcher: 1300 mm

Height in combat configuration ( $46^\circ$  elevation): 1885 mm

Wheels dimensions: 165R13

Time to load the launcher (rockets prepared in advance, equipped with fuses and armed): 1 min 20 sec

Time to convert launcher from transport configuration to the firing configuration (including launcher loading): up to 3 min 30 sec

Time to convert launcher from transport configuration to the firing configuration (rockets already loaded): up to 1 min 30 sec

Time to convert launcher from firing configuration to the transport configuration (launcher loaded): up to 1 min

Angular division: 64-00

Traversing and elevation mechanism: mechanical

Firing control unit electricity usage - fire control unit switched on: up to 80mA

Firing control unit electricity usage - button ARM pressed: up to 190mA

Firing control unit electricity usage - impulse usage with ARMED pressed: up to 2,4mA

Operating temperature range:  $-30^\circ$  to  $50^\circ\text{C}$



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