



122 mm, SOKO

Truck-mounted howitzer



SOKO 122 mm (Self-Propelled Rapid Response) truck-mounted gun-howitzer is based on integration of 122 mm howitzer with 6x6 truck chassis .

The SOKO 122 mm truck-mounted howitzer family represents a modern artillery system, particularly intended for modern joint combat units and rapid deployment forces, highly integrated at brigade, regiment and battalion level, intended for rapid response to challenges of modern digital battlefield, characterized wide range of tactical scenarios low and high intensity conflicts, including large antiterrorist and antiguerrilla operations featuring:

- High firepower, due to long range, high rate of fire and advanced fire control system
- Short fire response capability
- High fire saturation capability and time critical target engagement capability due to integration of modern FCS and extremely high rate of fire
- High combat autonomy, due to large combat set
- High tactical, operation and strategic mobility due to compact and highly mobile cross-country truck chassis
- High combat survivability, due to short marching to fire position and vice-versa transition time and armored protection
- Possibility of highly accurate direct firing, particularly important in emergency tactical situations as well as fire support of antiterrorist operations
- Low crew fatigue, due to electro-hydraulic resting system and semi-automatic loading mechanism with pneumatic rammer operating with separate loaded

ammunition

- High combat versatility, due to possibility for direct and indirect firing, auxiliary MG, FCS armour protection against small arms fire and fragmentation, as well as using of all standard 122 mm ammunition intended for basic 122mm howitzer.
- High stability during firing all elevations, due to advanced resting system consisting of four foldable hydraulically - operated spades
- Possibility for integration with modern BMS , due to integration of advanced FCS
- Possibility of using of standard („Kitolov“) laser guided projectile systems, giving a mobile or pinpoint target engagement capability indirect fire

SOKO 122 mm self propelled gun-howitzer has been designed for engagement of following target types:

- Artillery systems, mortars and various types of combat and noncombat vehicles
- Sheltered and non-sheltered manpower
- Field fortifications, logistic and storage facilities
- C3 (Command, Control, Communication) infrastructure nodes
- Facilities of special military or industrial significance

Main armament characteristics:

- Main armament Howitzer 122 mm
- Auxiliary armament Machine gun 7.62 mm
- Additional equipment Smoke pot dischargers (for masking)
- Maximum firing range
 - HE projectile 15.3 km
 - HE/BB projectile 21 km
- Rate of fire 6 rounds/min
- Fire line height 2533 mm
- Firing sector Direction of vehicle travel
- Field of action in elevation -5° / +65°
- Field of action in traverse -35° / +35°
- Transition to combat/marching position 60s/30s
- Combat set of ammunition for main armament 46 rounds +5 HEAT rounds
for auxiliary armament 5 combat sets
- Ammunition separate loaded
- Function automation
 - semi-automatic ammunition loading system
 - electrically driven gun lying in traverse and elevation
 - Hydraulically lowering and lifting vehicle outriggers
 - Electronically aiming system
 - Fire control system with ballistic computer

MAIN VEHICLE CHARACTERISTICS:

- Designation SOKO 122 mm gun-howitzer family
- Structure "SOKO"- self propelled howitzer 122mm
- Chassis "FAP" 2228
- Vehicle type 6x6
- Engine Daimler Chrysler OM 906 LA, Euro 3; 6.37 lit.; 205 KW/279 HP
- Gear box Mechanical, 6-gears, synchronized, "ZF 9S 109"
- Power divider box Mechanical, three axels, two ratios
- Suspension leaf springs and shock absorbers,
- Steering Type hydraulic, ball with nut, joint
- Pneumatics 15.00-21 PR 12 (with CRPV)
- Installation for the central regulation of pressure in the tires Pressure regulation range 19.19-481.29 kPa. Command from the cabin
- Brake Pneumatic, double conductor, double circuit with ABS
- Self dragging device (Winch) Hydraulic winch 10t
- Electric installation Rated voltage 24 V/DC, 2 batteries 143 A
- Cab and turret Armored, level I protection according STANAG 4569
- Crew 4
- Combat weight 17 t
- Max.weight 22 t
- Max.speed 100 km/h
- Specific power 16.5 HP/t
- Vehicle autonomy 600 km
- Height (mm) 3176
- Length (mm) 8385
- Width (mm) 3090
- Clearance (mm) 450
- Wheel track (mm) 2030/2020
- Approach angle front/rear 33°/ 33°
- Obstacle negotiating max : gradient/slope 60°/ 30°
- Water draught max. 1.2 m
- Vertical obstacle 0.63 m
- Min turning circle diameter 2500 mm