



UPGUNNING OF 130 mm M46 GUN TO 155 mm/45 CALIBRE GUN



The Serbian M46/130 converted gun cal. 155 mm/45 is based on the famous Soviet 130 mm M-46 gun, where the barrel has been replaced with new 155 mm with 45 caliber length. It is representing a modern, highly versatile and cost-effective solution of powerful fire support weapon, boasting features like:

- combat weight 7800 kg,
- field of action 50° in traverse and - 2° to 45° in elevation,
- Capable of firing all standard 155 mm NATO ammunition including modern long range artillery projectile HE ERFB (range of 30 km) and HE ERFB-BB M03 (max. range of 39 km) with appropriate combustible cartridge cases.

Crew training, operation and maintenance, as well as weapon basic operation performances (in-action / out of action time, elevation and traverse aiming speed, rate of fire etc.) are similar to the existing 130 mm M-46 gun.

Type of ammunition that can be fired:

SHELL

HE M1 07
Illumination M1 18
Smoke WP M110
HE ERFB M03
HE ERFB-BB M03

FUZE

PD 557
MTSQ M501
UTIU M02
UTIU M02
UTIU M02
Electronic time fuze M-09
Proximity fuze M-10

Scope of upgrade

The following gun sub-systems have been replaced or redesigned within the scope of the upgrade, such as:

- 130 mm barrel has been replaced with new 155 mm/45 cal. barrel with new breach block assembly and new muzzle brake (twin-chamber, casted)
- Sealing system in the counter-recoil subsystem (including recoil brake and recuperator) has been redesigned
- New breach block design includes integration of self-sealing system operating with combustible powder charges
- New sighting system including the optical sight reticle and changing of sighting system to NATO mils (1/6000 or 1/6400),
- New pneumatic rammer for projectile and propellant charges (optionally)
- Integration of new FCS into converted gun battery/battalion structure, including weapon-integrated gun display (optionally)

Compared to the standard M-46, the up-gunned 155 mm/45 has the following advantages:

- 34% increase in range

- 260% increase in terminal effectiveness.
- 330% increase in lethal area.
- Compatibility with all standard 155mm NATO ammunition
- No crew training required.
- Small increase in total weight.
- The basic output performances are the same as with most current 155mm systems.
- Three to five times, less expensive than new similar systems.

Weapon dimensions in traveling position:

- Length: 11170 mm
- Height: 2650 mm
- Width: 2400 mm
- Clearance: 400 mm
- Height of the Line of Fire: 1380 mm

Weight of the weapon:

- Combat position: 7800 kg
- Traveling position: 8428 kg
- Recoil parts: 2930 kg
- Elevation parts: 3860 kg

Field of action:

- In elevation: -2 ° to + 45 °
- In traverse: 25° left and right
- **Number of crew:** 8+1
- **Max rate of fire:** 3 rounds per minute
* 3-4 with pneumatic rammer (optionally)
- **Normal rate of fire:** 1-2 rounds per minute
- **Sustained rate of fire:** 60 rounds in the first hour of fire
- **Maximum range:**
 - up to 39,000 m using HE ERFB-BB M03 projectile.
 - up to 30,300 m using HE ERFB projectile.

