M-84 AB1

Main battle tank

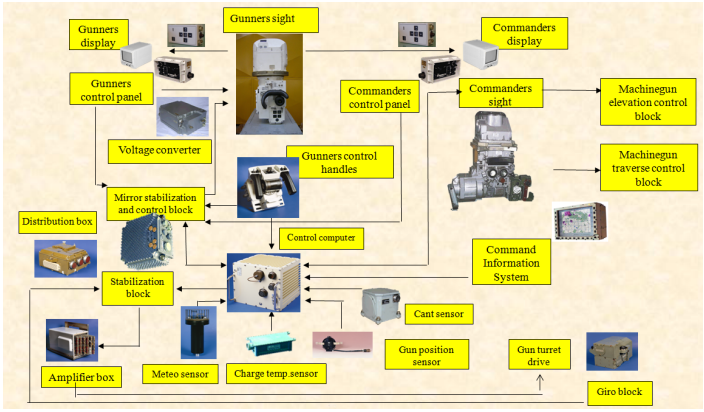
M-84 AB1 tank is an upgrade version of M84A tank, integrated with the following systems and devices:

- Universal dynamic protection (II generation) providing for a significantly higher level of protection against shaped charge and subcaliber projectiles,
- Electro-optic station for neutralization of II generation anti-tank missiles, with a smoke-screen system,
- Electromagnetic mine protection system,
- New 2A 46M high precision gun with a barrel replaceable in field conditions in 4 hours. Capable of delivering and guiding missiles
- New FCS with a four-channel day and night (cooled thermal imager) sight capable of guiding missiles up to 5 km,
- New stabilizer with an electrically driven turret and an improved hydraulic elevation drive,
- 12.7 mm machinegun remote control weapon station,
- New gun auto-loader,
- New tank & crew fire & explosion protection system,
- New 18 KW starter generator,
- New NBC protection system,
- Engine improper start protection system
- New forged two-axes track, new torsion shafts, new shock-absorbers and stronger road wheels,
- Command and information system KIS M-84
- Radar detection

Fire Control System

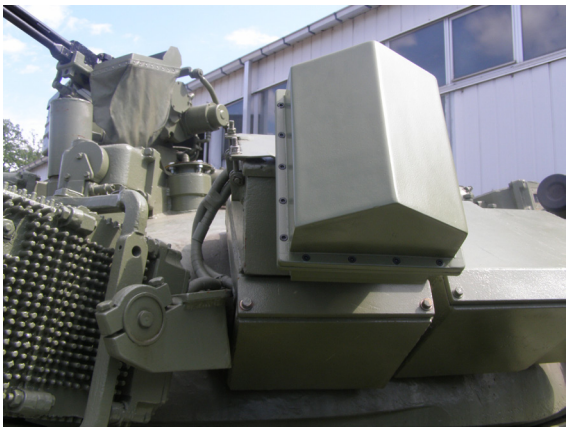
New fire control system enables rapid preparation for fire engagement, high accuracy in range measurement and high first round kill probability either in motion or standstill, both day and night.

The new FCS solution enables the commander to take the gunner's role in case of emergency and to fire at selected targets.



Passive intelligence radar system

- Modern digital passive intelligence radar system which automatically detects, identifies and warns a crew of air or ground threats.
- Detects the azimuth and the operating modes of the radar radiation source, providing a warning about a surveillance radar, tracking radar, radar in a missile guidance system or similar.
- detects and identifies all types of scanning and non-scanning pulse radars (P), continuous-wave radars (CW), quasi-continuous-wave radars (ICW) and pulse Doppler radars (PD) at great distances and in complex radio frequency conditions.



Panoramic surveillance and observation station

Used for surveillance, reconnaissance and day and night sighting as well as in low-visibility conditions

Main elements:

- Laser rangefinder
- WFoV CCd TV camera
- Narrow angle black-and-white TV camera
- Thermal imager

Basic characteristics:

- TOMS measures the spheric coordinates of targets at the distances of up to 10 km moving at the angular speeds of up to 10°/s in respect to the TOMS current position,
- Measuring accuracy, target distance: ± 5 m
- Measuring accuracy, angles: 1 mrad - 1.5 mrad
- Field of action in horizontal plane: n x 360°
- Field of action in elevation: -10 to +70°
- Wide field of view, TV camera: 20°
- Narrow field of view, TV camera: 3°
- Wavelength, laser rangefinder: 1.064 microns

Remotely controlled weapon station

- Accurate fire on the move and from stand still on ground targets and low flying helicopters from within the turret in stabilized automatic mode from commanders main sight
- Fully electrical machine gun drive

M84AB1 - Active protection system

- Jamming of antiarmor missile systems with SACLOS (Semi Automatic Command Line Of Sight) guidance
- Autonomous detection and direction finding of laser radiation sources and automatic launching of smoke grenades, providing jamming of laser-guided antitank missiles.

Battle management system

- hardware and software system designed to significantly enhance situational awareness and provide commander support in mission planning and preparation, decision making, organization, report issuing, target acquisition and similar activities related to combat operations.

Basic elements:

- Tank display on situation map
- Mission planning support
- Tank positioning
- Tank navigation
- Communication on tank company level
- Information exchange
- Fire control on tank company level

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Should you have any further enquires, please do not hesitate to contact us at **fdsp@eunet.rs**