

Main Battle Tank PT-91Ex

MBT PT-91Ex

PT-91Ex is a main battle tank of a combat weight 47,5 t. The MBT PT-91Ex crew consists of three persons. The vehicle has newer equipment in relation to used in Polish Army PT-91 Twardy, as a result of development activities and cooperation with foreign entities.



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Main Battle Tank PT-91Ex

PT-91 Ex is equipped with systems designed to increase usability on the modern battlefield, including:

- Engine integrated with Power-Pack;
- Air conditioning system;
- Additional power supply unit APU, independent the electronics from the main power supply system;
- Large external cargo basket for additional equipment of the crew.

Modern fire control systems used in the MBT PT-91Ex helps the gunner and commander to fire, decrease the time from order to the shoot, taking into account weather conditions affecting the accuracy, enhancing the effectiveness of fire in day and night conditions and at standing or during running as well.

Fire Control System enables:

- observation during day and night,
- thermal image for night vision,
- measurement of the distance to target during day and night,
- two-axis stabilised aiming at a target of gun and coupled with it machine-gun,
- the gun firing,
- the machine-gun firing,

Modern engine in the power-pack configuration allows to increase the traction and maintenance features of the tank, providing:

- possibility to realize the turn with B/2 radius,
- increased power in relation to vehicle weight,
- improve the process of maintenance and replacement of the engine.

General Technical Parameters	
Crew	commander, gunner, driver
Combat weight (t)	47,5
Maximal speed on high road (km/h)	65
Maximal reverse speed (km/h)	20
Main armament	125mm smooth-barrel gun, 2A46, Coaxial Machine-gun UKM-2000C 7,62 mm Heavy machine gun WKM-B 12.7 mm
Engine (kW / hp)	S-1000R 735 kW [1000 hp) or other with power 1000 - 1200 hp, integrated in Power-Pack
Auxiliary Power Unit	
engine power (kW)	16,1
electrical power (kW)	3,9
Air condition system	
cooling power (kW)	8,0
Additional equipment	Fire Control System, Battlefield management system (BMS), NBC (nuclear, biological, chemical) protection system, Laser warning system Smoke grenade launcher, Fire Suppression System, Navigation system (inertial and GPS),



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