

“Sabrah” Light Tank

“Sabrah” tracked or wheeled light tank series equipped with common 105 turret



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Elbit Systems’ “Sabrah” configurable light tank solution adds highly effective firepower to Armored Fighting Vehicles (AFV’s). Based on the success of our fully combat-proven armored vehicles and turrets in use by numerous armed forces around the world, the “Sabrah” series of solutions is the latest generation AFV system developed by Elbit Systems. The modular design enables using the same 105mm turret for tracked or 8X8 wheeled platforms to deliver reliable, high-performance firepower to the battlefield.

As the OEM of the light tank solution including the turret and other subsystems, Elbit Systems incorporates various advanced technologies that deliver high performance and an effective solution. A worldwide leader in the area of land platforms, Elbit Systems’ solutions and systems are in use by the Israeli Army as well as numerous other armies (US, NATO and others) with thousands of systems deployed and successfully operated.

The “Sabrah” light tank series is based on a tracked or wheeled platform, as part of Elbit Systems’ global cooperation with tier-one military platform manufacturers. It includes the following advanced technology subsystems:

- 105mm manned turret
- Fire Control System
- Electric gun/turret drive and stabilization systems
- Battle Management System and navigation system
- Radio/communication systems
- Gunner and commander sights
- Laser Range Finder
- Power units and life support systems
- Secondary armament - 7.62mm
- Ammunition

Advantages and benefits of the “Sabrah” light tank series:

- Comprehensive solution under a single OEM
- Battle proven systems
- All systems (platforms, turret, etc.) are supplied and successfully deployed in many countries around the world
- The subsystems and technologies were fully tested and proven by various armies

- Complies with all current and future operational needs of armored forces
- Reliable and cost-effective solution
- Full ILS - documentation, training, test equipment, spare parts for production, maintenance and after-sales support

Pandur II

The Pandur offers a unique solution of wheel suspensions characterized by robust chassis components, optimum riding comfort and minimum maintenance effort. Wheel contact with the terrain is comparable to caterpillar movement.

Drivetrain fully protected - All drivetrain parts are fully covered and protected by hull armor. This unique solution provides better protection and bigger ground clearance.

Pandur ADM (Automatic Drivetrain Management) - The vehicle is fitted with an Automatic Drivetrain Management (ADM) system. With sensors that check the drivetrain automatically, the unit adjusts power for each axle and wheel according to road/terrain conditions, so the driver can fully concentrate on the tactical mission. This solution enables minimal requirements for driver training.

The “Sabrah” offers superior riding performance, with maximum traction and reduced drivetrain stress/wear, fuel consumption and lifecycle cost.

Pandur power pack - The design of the power pack allows a rapid exchange (within 60 min.) to provide very high vehicle availability compared to competitive products.

The power pack can also be started next to the vehicle for certain test run technical checks.

The power pack includes:

- Engine
- Automatic transmission
- Cooling system
- Air intake system
- Exhaust system



Commander Panoramic Sight



Common Crew Terminals



Fire Control System



Driver Enhanced Thermal Viewer



Battle Management System



Appended Crew Trainer



Electric Gun & Turret Drive & Stabilization



Radio System



Digital Vehicular Intercom

Optional:

- Iron Vision
- Iron Fist – Hard Protection System
- Reconnaissance Mast
- Laser Warning System
- Overhead Remote Controlled Weapon Station
- Auxiliary Power Unit
- Life Support System NBC & AC



Add on Armor



Ammunition



Turret Auto Loader



105mm Gun



- Electric generator
- Air-condition compressor
- Hydraulic pump
- Drive shaft

ASCOD

The base platform is a continuous evolution of the well-known and successful ASCOD concept, featuring sophisticated tracked systems and protection technology. Due to ongoing development and technology insertion, the ASCOD offers advanced protection and mobility, large internal volume at very compact dimensions, and a large payload at low GVW.

The ASCOD is a seven wheel station chassis that incorporates the primary common subsystems of power pack, running gear and fuel, within a monocoque welded steel hull construction. The chassis provides the ASCOD with its mobility/mine protection characteristics and acts as the interface for all other primary subsystems.

The power pack is located in the front, on the right hand side, in a chamber sealed off from the crew compartment.

The main characteristics of the power pack:

- Diesel engine with 8-V cylinders, 4-stroke direct injection, turbocharger and air cooler, compatible with NATO fuels
- Hydro-mechanical transmission equipped with reversing – steering gear and integrated brake system with retarder and discs
- Final drives

- Double pinned steel tracks with rubber pads (rubber band track as an option)
- The ASCOD offers a highly sophisticated modular armor protection concept with an armored steel hull
- Ballistic protection is obtained through the add-on
- ASCOD's driver is protected from the danger of fluids from the fuel and hydraulic pipes, as well as from the batteries
- ASCOD running gear is GDELS core competence with advanced suspension and power to track effectiveness. Can be equipped with steel tracks for heavy-duty missions or rubber bands for superior crew comfort

ASCOD integrated survival capability

Basic vehicle

- Light armored steel structure
- Integrated system solution
- All major systems under armor (not only crew compartment)
- Modularity enables different configurations for operations and future upgrades

Spall liners

- Minimizes the negative effects after armor penetration
- Bolt-in system compatible with C-railing
- Maximum coverage for crew and PAX



**Armor-protected
for crew safety**



**High
performance
firepower**



Combat-proven



**Configurable
for maximum
lethality**



**Tracked and
Wheeled
configurations**



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The Sabrah turret design benefits from the reference of Elbit Systems and the IDF "Merkava" Directorate "MANTAK" combat-proven Armored Vehicles. The turrets, Fire Control Systems (FCS), electro-optics and 105mm tank guns are in use by the IDF as well as numerous other armed forces around the world.

The Crew

- Two men turret combine Automatic Loader operated by the Commander and Gunner

Armaments

- Elbit Systems Land 105mm gun
- 7.62mm coaxial machine gun
- 76mm smoke grenade launchers - 8 launchers
- Optional Anti-Tank Guided Missiles (ATGM) - 2 units

Firepower Enhancement Systems

- Sophisticated Fire Control System
- Panoramic sight with advanced Electro-Optic sensors (Day, Night-Vision, and LRF) for effective day, night and all-weather fighting conditions
- The 360° Panoramic Sight is used for observation and target aiming
- Dual Axis Line Of Sight Stabilization, enabling fire on the move on stationary and moving targets
- The turret drive is fully electric with elevation and traverse stabilization
- The Day Chanel is a high definition color camera with Zoom
 - Detection of a NATO target is 12,000m
 - Recognition of a NATO target is 8,000m
 - Identification of a NATO target is 4,000m
- The Night Vision Chanel is a Cooled Thermal sight with 3-6 μ detector
 - Detection of a NATO target is - 12,000m
 - Recognition of a NATO target is - 8,000m
 - Identification of a NATO target is - 4,000m
- Laser Range Finder is eye safe, that measures range from 80m to 7,000m
- The day and night channels incorporate an Auto-tracker, for better performance of fire on the move hit probability



- Metrological sensor (Wind, Temperature, Pressure) for improving ballistics calculations (Option)

Armor protection and crew safety:

- Level 4 ballistic protection per STANAG 4569

High performance turret:

- Dual-axis high performance stabilized turret
- Designed to enable firing on the move, on both stationary and moving targets
- Hunter-killer capability
- Battle Management System (BMS) and navigation system
- Radio VHF/UHF and an inter-communication systems
- Optional Laser Warning System (LWS)

The GUN

- 105mm 52 calibers, coiled barrel, low recoil
- Thermal shroud for better hit probability
- Integrated muzzle brake system
- Combat effectiveness 3,600m
- Rate of fire: 6 rounds per minute

Gun Ammunition

- Standard NATO – HEP-T, HESH, APFSDS
- Advanced Ammunition – HE-MP-T M110
- Ammunition Feeding: Autoloader with manual backup loading
- Ready ammunition: 12 in autoloader drum and additional 24 in hull

Machine Gun Ammunition

- 7.62mm ready rounds: 500
- Hull stowed ammunition: 1,500



Elbit Systems Land

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