



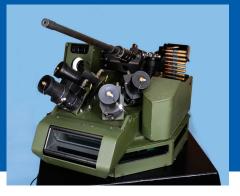
DENEL MECHATRONICS

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DENEL VEHICLE SYSTEMS



The Overhead Manned Turret (OMT) is an enclosed turret for Light Armoured Vehicles (LAV) or Mine Protected Vehicles (MPV), operated by one crew member. It provides self protection, ground fire support and attack capabilities to the vehicle system with an optimal balance between situational awareness and crew protection capabilities.

The OMT accommodates one of the following weapons:

- 7.62mm General Purpose Machine Gun
- 12.7 mm Heavy Machine Gun
- 40mm Automatic Grenade Launcher

The system is equipped with manual turret drives with an optional electrical assist in traverse. All round vision of the battle field and a video sighting system allows for fast reaction time and accurate aiming of the weapon during day and night conditions. Effective situational awareness ensures application ranging from close to the vehicle up to the effective range of the respective weapon.

The system is equipped with safety interlocks and mechanisms for effective and safe use of the weapon from under cover. The turret provides protection to the crew and equipment against enemy fire such as shell fragments and small ammunition.

The turret is fitted with 4 smoke grenade launchers and provision is made to fit additional support equipment such as;

- Spotlights,
- An IR pointing device,
- Internal lighting and
- Communication equipment



System Components

The OMT has been modular designed to support different user requirements. Parameters such as protection level, weapon interface, sighting system and position control mechanism can be configured to suit specific applications.

System Application

Depending on the selected weapon configuration, the OMT can be effectively utilised against enemy targets up to 2200m (area coverage for the 40mm grenade).

Sight and Aiming System

The turret is fitted with a direct view optical (DVO) sight consisting of a laser dot aiming device.

A complete day/night video sight is optional available for enhanced performance and consists of:

- Day Camera
- Uncooled Thermal Camera
- Laser Range Finder

A full colour display unit with built-in ballistic calculations is located inside the turret providing the operator with target identification and accurate aiming capabilities.



System Characteristics

| Height | Total height above the vehicle roof is less than 610 mm |
|--------------------|--|
| Transport heig | ht 530 mm |
| Weight (excl Am | Between 500 and 560 kg munition) depending on variant |
| Operational E | nvelope |
| Traverse | 3 x 360° |
| Elevation | -10° to 45° |

Weapon Safety and Operation

All weapons are remotely operated from undercover including cocking, firing and safety

| Protection | |
|------------|---|
| Ballistic | Operator is protected similar to level 2 STANAG 4569 |
| Blast | Protection against blasts due to hand grenades (2xDM51) |
| Fire | Protection of crew compartment against external fires and liquids |

Disclaimer

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