



Eagles International for Defense Systems
شركة إيجلز إنترناشيونال للأنظمة الدفاعية

MIFV MULTIPURPOSE INFANTRY FIGHTING VEHICLE



Headquarter: Ain Sokhna New Road, Behind Wataneya Gas Station, Katameya 371 Symbolism No 16 B2.

Tell: (+20)1229981115 - (+20)1272002294 - (+20)1285586145) - (+20)1285605370 - Fax: (+20)1251140008.

Maintenance Center: Ain Sokhna New Road, Behind Wataneya Gas Station, Industrial Katameya Area, Cairo, Egypt.

Manufactory: Suez Sea Port - Al Adabiya Free Zone, Sector 6 Block B Suez, Egypt



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INTRODUCTION

Founded in 2006, EIFDS was established as a military engineering company serving OEMs and Armies with support, upgrading and development of wheeled and tracked combat vehicles.

Design, Fabrication and Upgrading of Heavy Military Vehicles remains EIFDS Core Business.

EIFDS serves the Land/Defence, Aeronautics, Aerospace, Rail Industry, Renewable Energy, Commercial and Industrial Sectors with the specialist designs plus offering fabrication of heavy metal assemblies, complex steel and Aluminium machining and specialized electronic and electro-optics products.

EIFDS KEY ASSETS

- Flexible and reactive design team
- Engineering capabilities covering all areas of modern tracked and wheeled vehicle design, validation, industrialisation and production
- Experienced field and test engineers and technicians
- Specialist experience in military tank and tactical wheeled platforms, including their weapon systems
- Detailed experience in the design of extreme heat conditions for powertrain, cooling packs and drivetrains
- In-house mechanical, electrical and electronics design capabilities
- Extensive experience in Technology Transfers and Setting-up of Indigenous Production Lines
- Full Understanding of Design Rules with state-of-the-art techniques, complying with international military standards
- Considerable experience in ILS definition and implementation
- Strategic Geographic Location at the Heart of Europe

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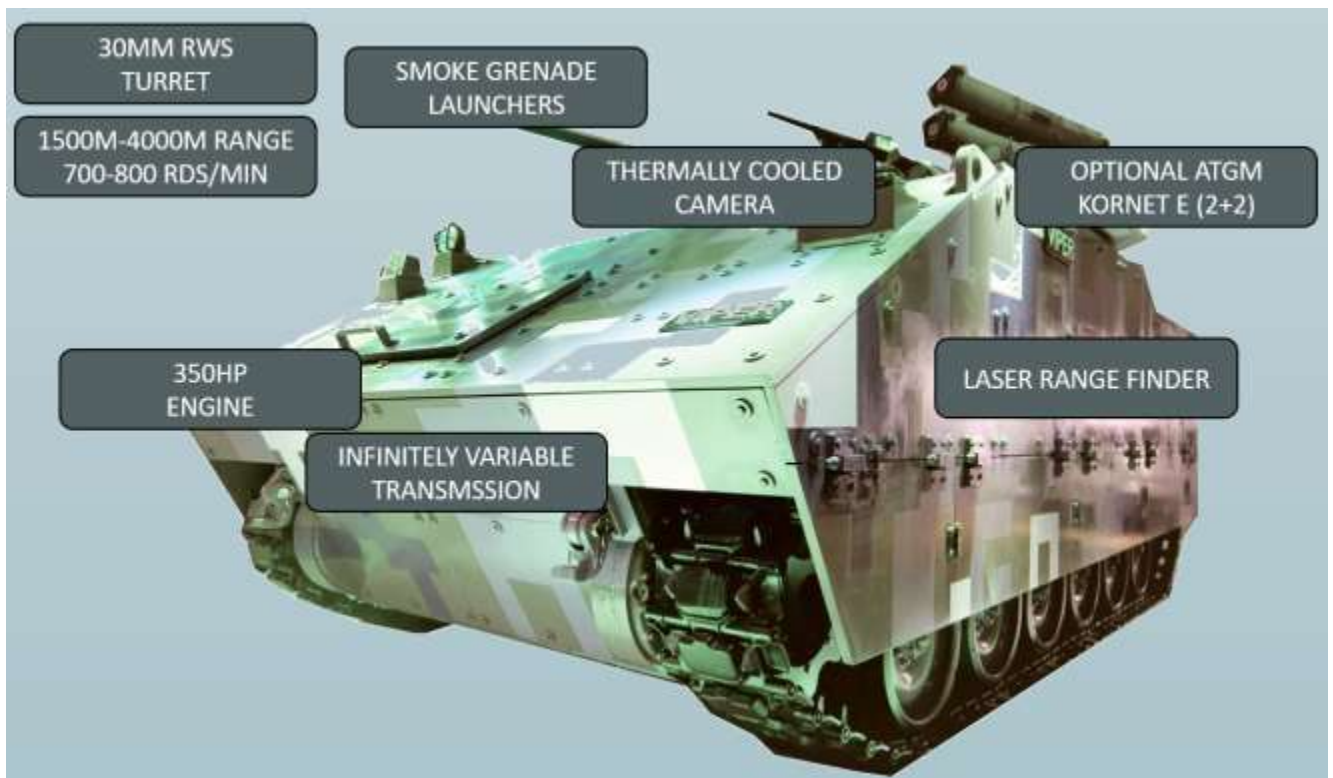
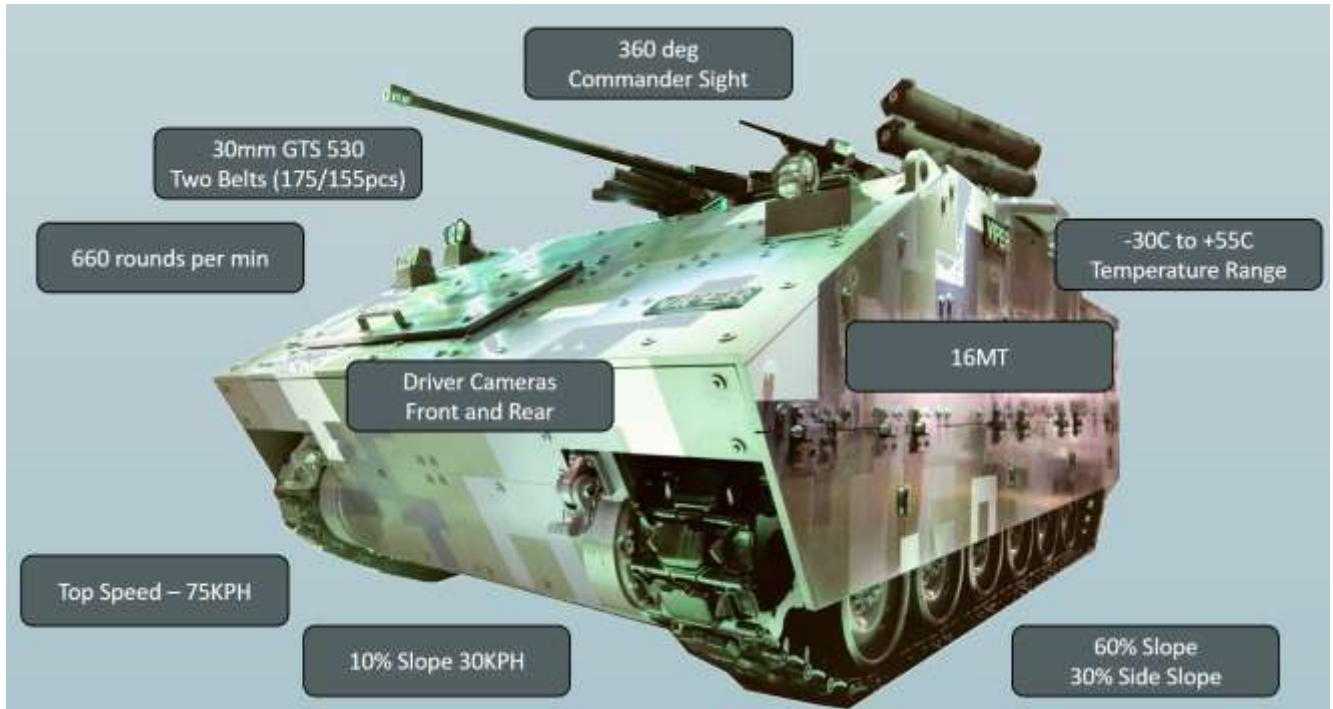
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1. MIFV - MULTI PURPOSE FIGHTING VEHICLE CONCEPT



Multi-Purpose Platform

Hunter-Killer Role

Lightweight and Modern

Low Silhouette

Digitized Architecture

Adaptable to Localisation

High Mobility

High Protection and Survivability

Full Squad Transport Capability

High Firepower

Affordable

Low Cost of Operation and Maintenance

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2. MIFV - MULTI PURPOSE FIGHTING VEHICLE

The MIFV is a new generation Infantry Fighting Vehicle designed to:

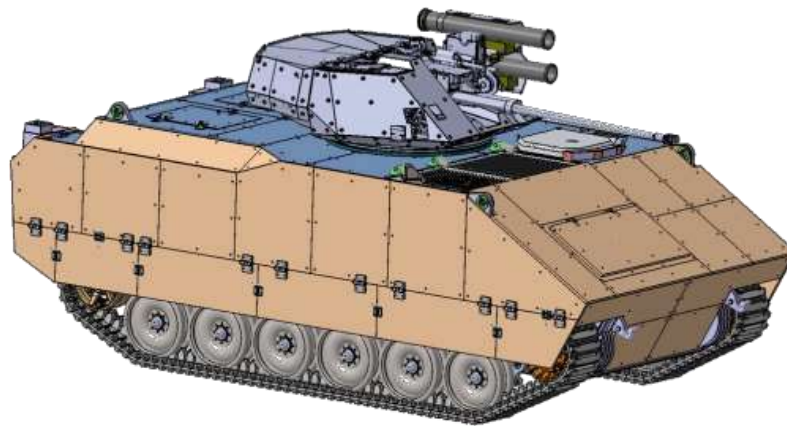
- Act as a versatile weapon system against ground and airborne threats
- Carry a combat squad to the battlefield, rapidly
- Provide full network-centric warfare capability

2 basic variants:

- Rapid fire Autocannon + anti-tank guided missiles (ATGM)
- Rapid fire Autocannon + air defence missiles (SAM)

Mission:

- Provide suppressive covering fire to the infantry
- Engage light and medium armoured vehicles (*more effectively than tanks*)
- Provide air defence to ground forces against rotary and fixed wing air threats



The EIFDS Multi-Purpose Fighting Vehicle (MIFV) is designed to meet the existing and future requirements of modern Armies and Security Forces worldwide. The vehicle is based on extensive experiences gained in working in and on other designs, manufacturing and support of highly mobile tracked fighting vehicles.

The MIFV is a new design developed exclusively by EIFDS with an aim for it to be assembled, in Semi Knocked Down (SKD) Kit form, in the end-user country. Working through a manufacturing license agreement (MLA) EIFDS will partner with key industrial associates in the execution of a localization plan to bring the product and knowledge into operation.

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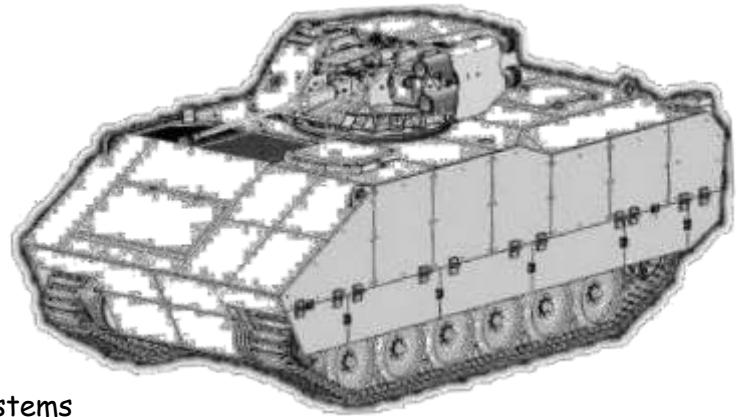
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The design of the MIFV incorporates all the expertise of EIFDS in all aspects of the product:

- Operational and User Profile
- Climatologic Requirements
- Upgradability - Future Provisions
- General Quality Specifications
- Normalization and Interoperability
- Transport Capacity
- Ergonomics and Comfort
- EMC Requirements
- Transportability
- Safety
- Equipment Integration and Weapon Systems



Design Background

- Design based on existing and successful designs of in-service Armoured Tracked Vehicles, worldwide (M113, Bradley)
- Incorporating new approaches pioneered on current MIFV heavily protected vehicle configurations
- Modular design to cover all potential variants
- Power pack based on latest generation Infinitely Variable Technology
- Blast hull for improved survivability
- Modular Armor Protection Kits. Protection against - .50 AP (STANAG Level III+) as standard
- Remotely Operable option (Drive, Steer and Brake by Wire)
- Digitalized architecture
- European design, ready for long term sustainability and maintainability
- Designed for easy technology transfer and local assembly/co-fabrication

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MIFV Design Background:

K21



PUMA



CV90



BRADLEY



Logistic specifications have been used to ease the manufacturing, assembly, support, training and maintainability of the MIFV base vehicle:

- Logistic support policy (COTS/MOTS, export control, local/national added-value)
- Maintenance and reliability requirements
- Procurement channels and supplier qualification processes
- Technical data package - codification
- Evaluation, adoption and inspections modalities
- Production, acquisition and life-cycle costs definition
- Logistic (supply-chain) set-up
- Product and maintenance documentation
- Maintenance equipment and infrastructures
- Operation and Maintenance Training

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3. MIFV DESIGN OVERVIEW

The MIFV capabilities and features are:

- It travels easily over rough terrain.
- It fords water up to 40 inches deep.
- It can move at high speeds on improved roads and highways.
- It is protected against heavy machine gun armour piercing bullets at 360° and automatic cannon on its frontal arc
- It is air transportable and can be dropped by parachute to troops in the fields.
- It is propelled and steered on land by its tracks.
- It has optical periscopes around the driver's and commander's hatches and digital day/night cameras
- It is equipped with a 250A electric alternator
- It is equipped with smoke grenade launchers.
- It is equipped with a 9kW air conditioning system and NBC filtering system
- It is equipped with a semi-automatic engine fire suppression system
- It is equipped with a remotely operated turret of following specifications:
 - Stabilized director-type fire control system
 - Hunter-killer capability (stabilized panoramic sight)
 - 30mm automatic cannon
 - 7.62mm coaxial machine gun
 - ATGMs (optional)

Operational environments, using MIFV vehicles, are expected to be extreme terrains with low cold / high heat and humid weather conditions, whilst facing conventional and non-conventional threats.

Special Consideration has been made to the following areas:

- High Mobility in Difficult Terrains and Extreme Climatic Conditions
- Capability of Carrying Up To 10 Soldiers
- High Survivability from Direct Firing, Explosions of Landmines and Improvised Explosive Devices (IED)
- Modularity and Easy Integration of Equipment and Weapon Systems
- Low Cost of Production, Operation and Maintenance
- High Reliability and Ease of Repair
- Long Term Sustainability
- Easy Access to Spare Parts by Use of COTS
- Local Assembly through Manufacturing License Agreements

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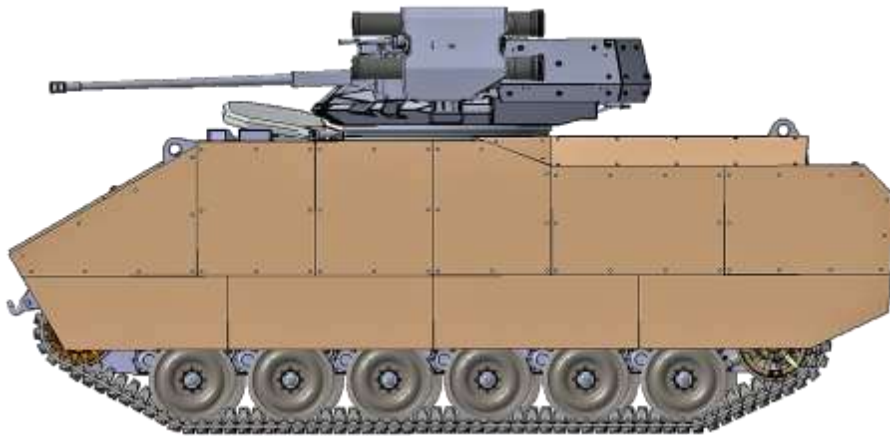
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4. MIFV CAPABILITIES AND FEATURES

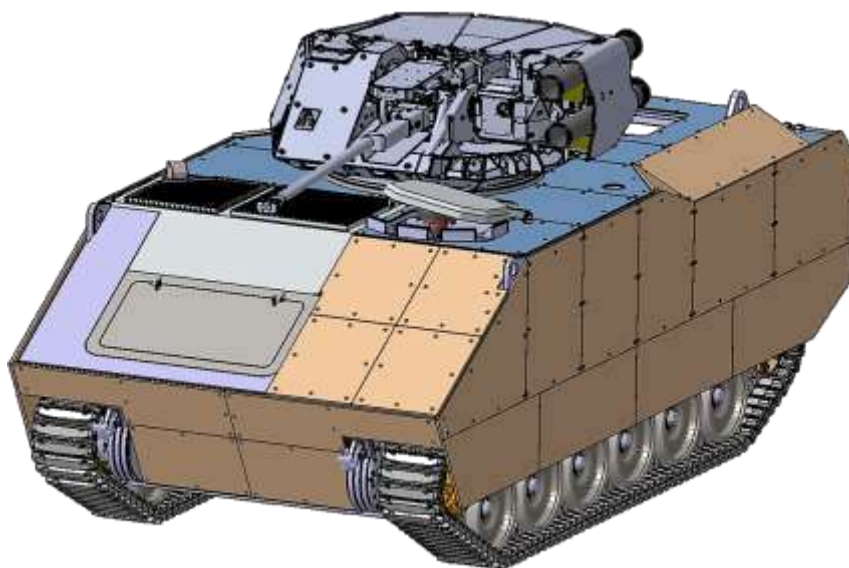
The MIFV is designed to carry up to 13 troops including driver and gunner.

It is designed for fire support role, reconnaissance work and carrying troops to the front line.

It can be equipped with a remotely operated turret with a powerful 30mm automatic cannon, machinegun and optionally, anti-tank guided missiles.



MIFV with a 30mm turret and ATGM



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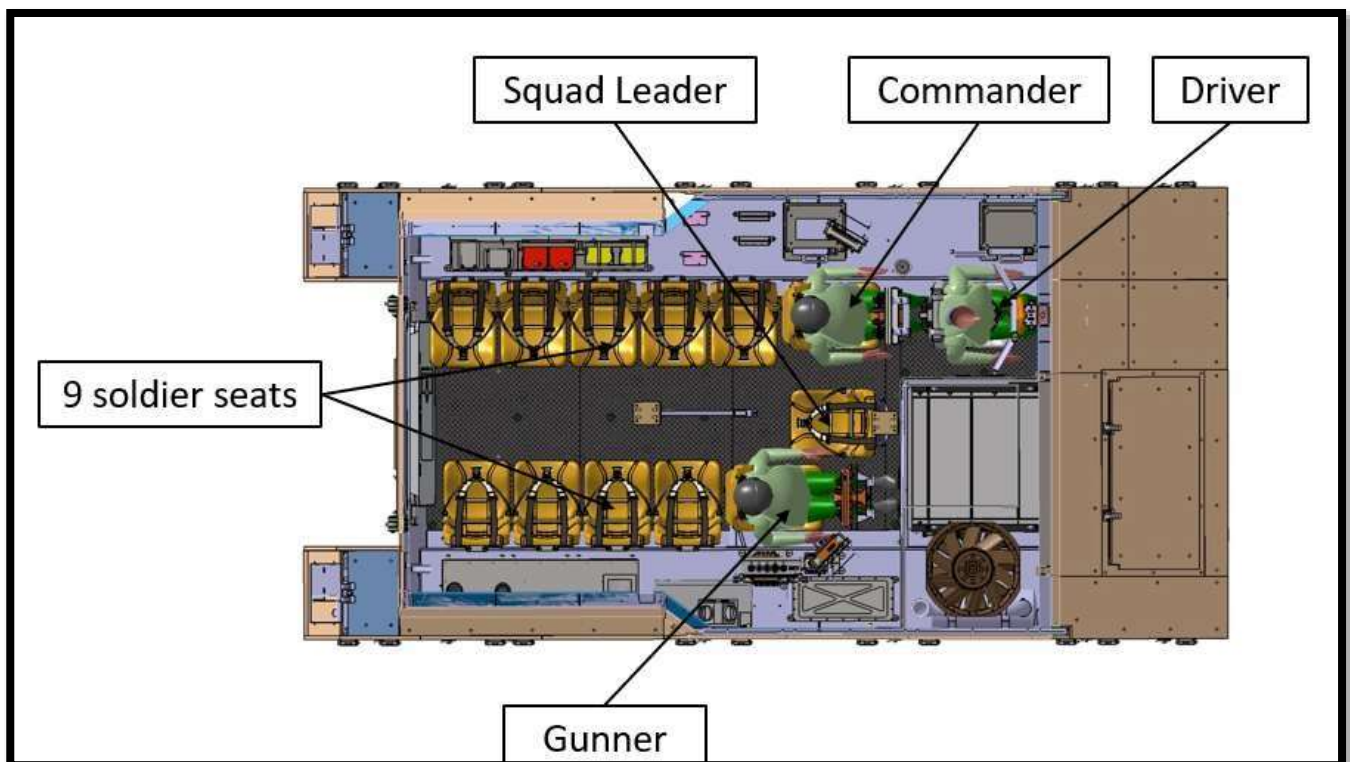
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The MIFV benefits are:

- operated by a crew of 3 (driver, commander and gunner)
- can carry up to 10 dismounted soldiers (in addition to the crew)
- protected against heavy machine gun armour piercing bullets
- simple driver operation
- pivot turn
- equipped with: -
 - o a day camera and optional thermal imager for driver all weather, day and night vision
 - o optional commander sight
 - o gunner sight
 - o rubber tracks



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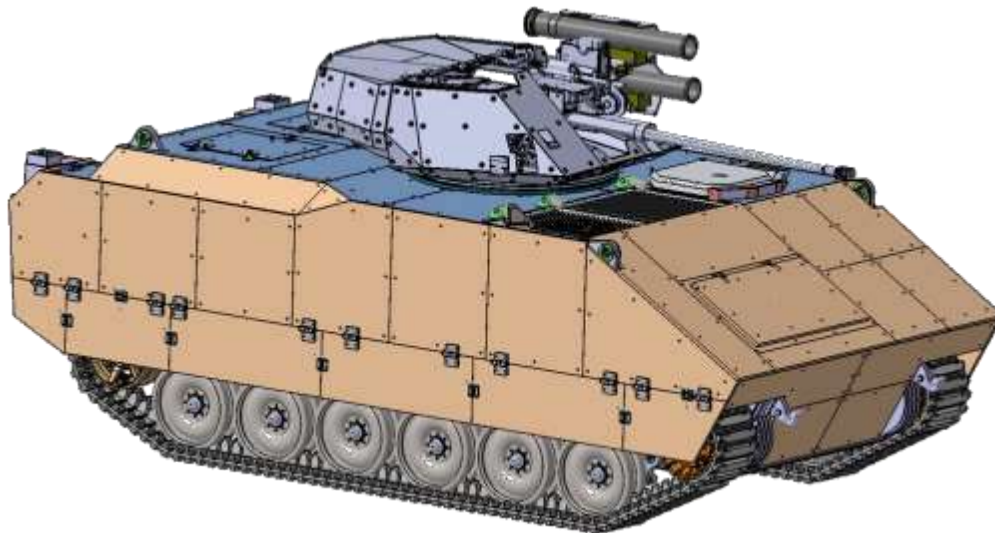


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5. CHARACTERISTICS

All Terrain Infantry Support Vehicle:

Environmental Conditions:	(STANAG 2895): A1 (extreme hot, dry), B1 (wet & warm), C1 (intermediate cold)
Operating Temperatures:	-30° ~ > 55°C ambient
Curb weight:	14.5 MT (with turret and APK)
Combat mass:	16 MT
Crew capacity:	13 including driver (individual crew seats)
Chassis:	Welded Hull, 5083 Aluminium MIL-A-46027
Top speed:	75 kph
Speed @ 10% slope:	30 kph
Obstacle crossing:	60% slope, 30% gradient
Range @ 45kph:	>500 km
Ballistic Protection:	all-round STANAG level 4 Frontal arc STANAG level 5
ACU:	9kW



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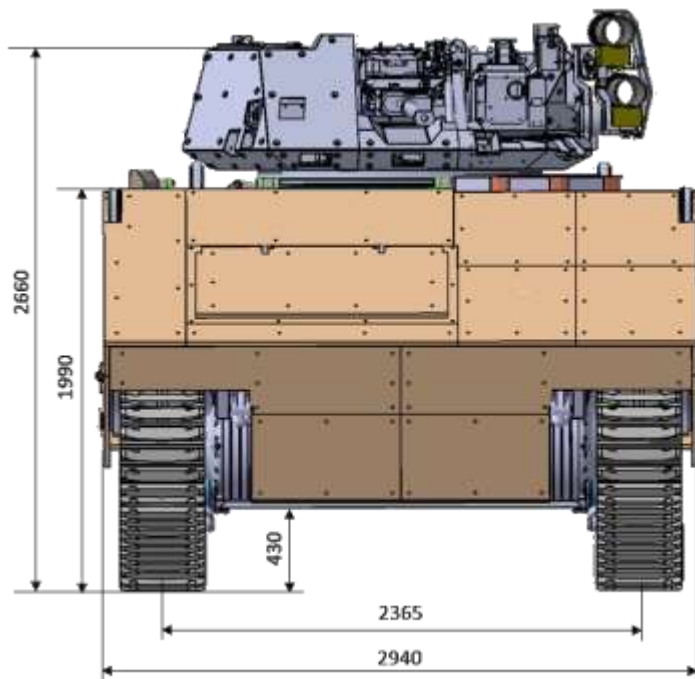
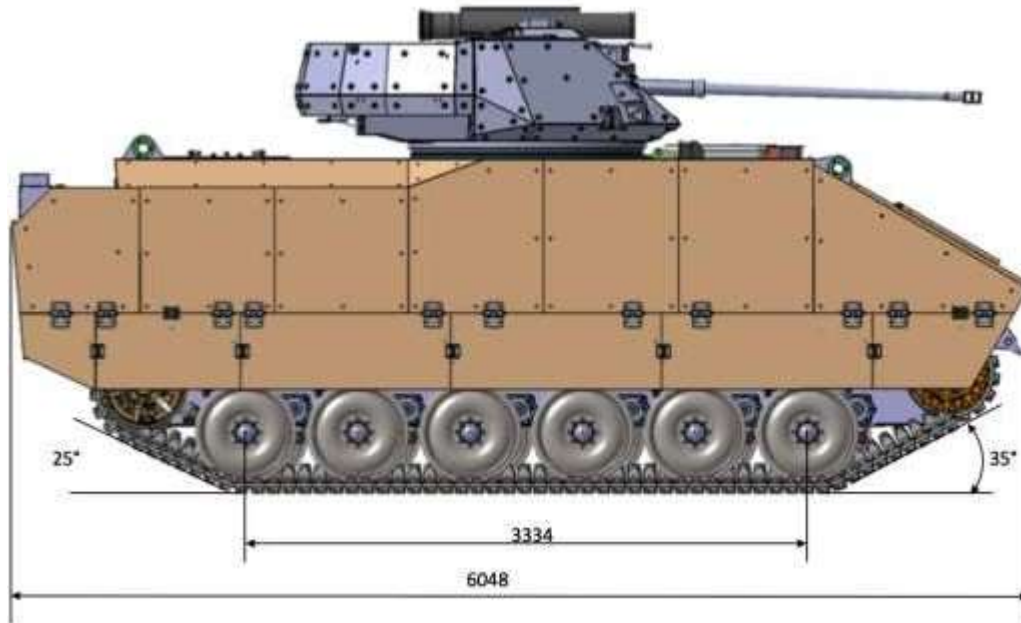
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6. DIMENSIONS:

Empty Weight:	14.600 kg
Basic Combat Mass:	16.150 kg
Full Combat Mass:	16.750 kg



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7. PERFORMANCES

Over the past decade the ever-increasing size of the IFV has meant performance, weight and price have been severely compromised.

EIFDS believes in light and agile tracked vehicle platforms, equipped with the latest in communications, survivability and firepower solutions.

Over the past years, EIFDS has worked with potential customers (users) on what an ideal IFV solution would need to have.

EIFDS's new generation **Multi-Purpose Infantry Fighting Vehicle** is designed to operate in extreme conditions and designed for those who demand the very best.



Fastest forward speed:	75 kph
Minimum speed:	< 5 kph
Cross country speed:	50 kph
Cruising range at 45 kph average:	>500 km
Fuel capacity:	380 L
Steepest grade:	60 percent
Steepest side slope:	30 percent
Highest wall climb:	.8 m
Widest trench:	2 m
NGP:	max 70 kN/m ²
Maximum towed load:	14,600 lb (6583 kg)

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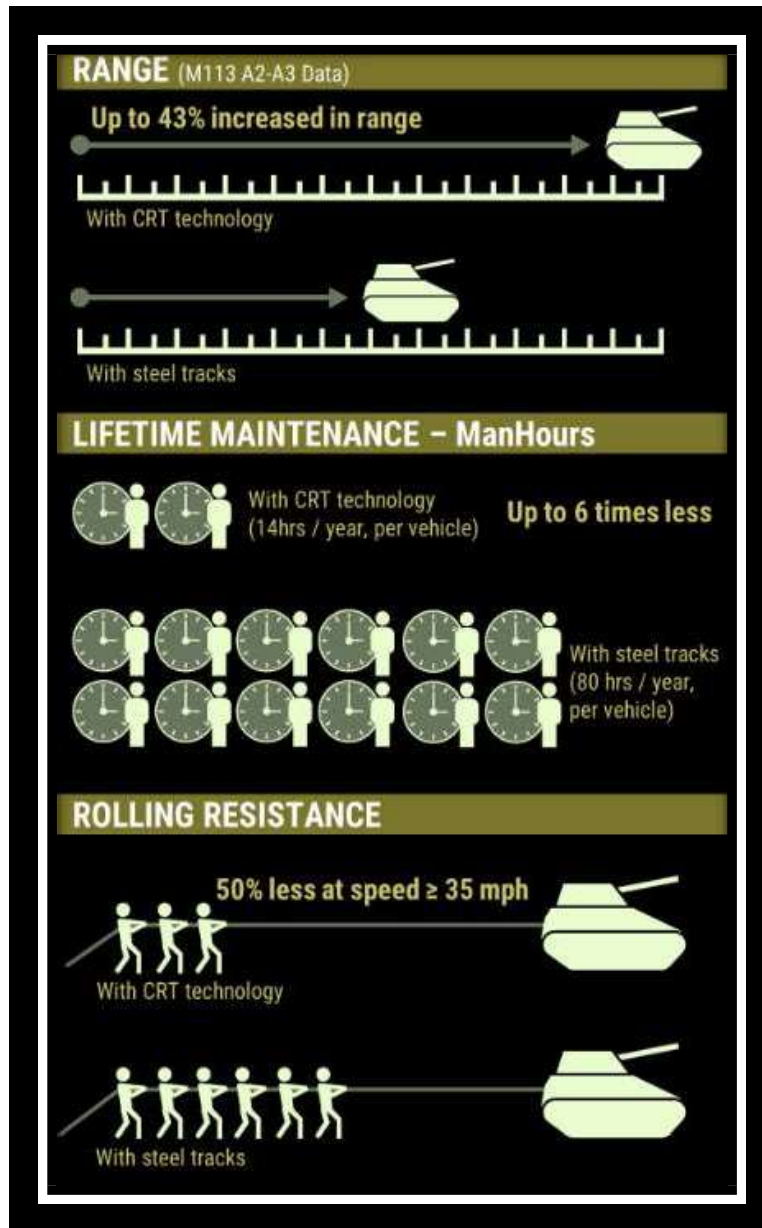
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RUBBER BAND TRACK



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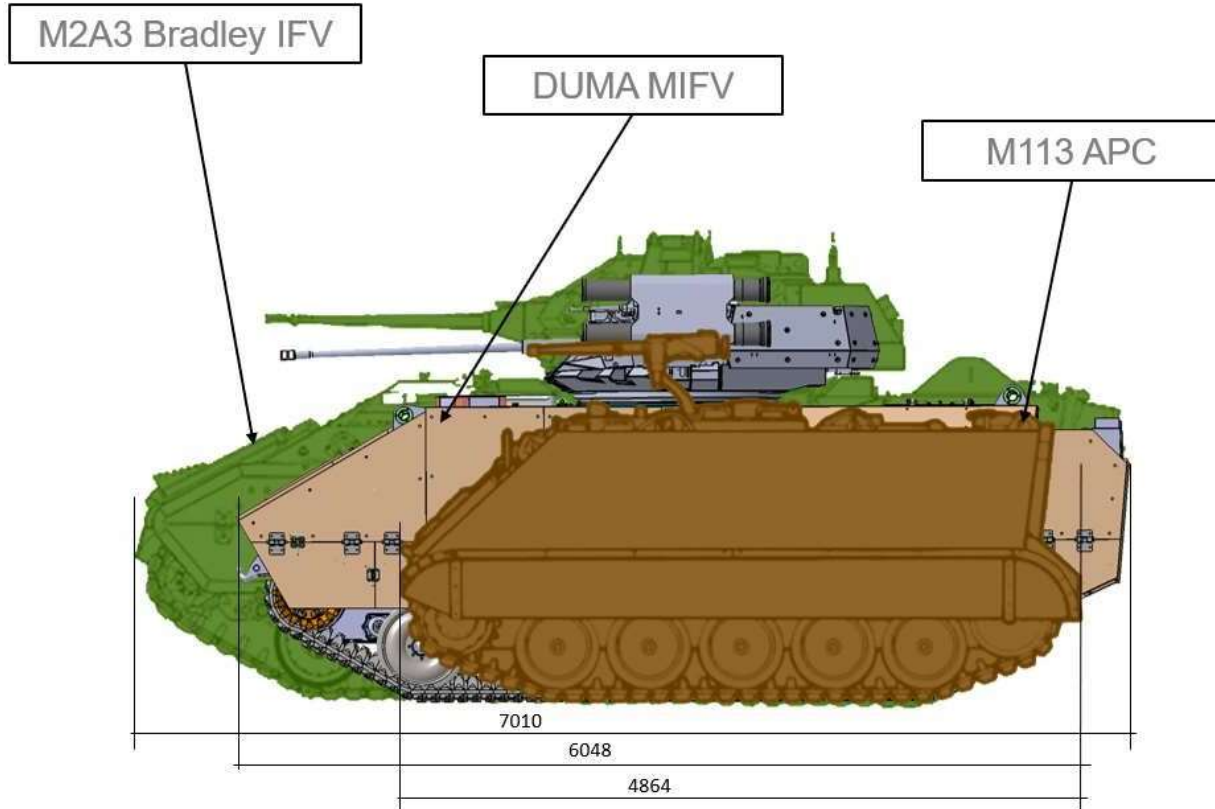
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8. COMPARATIVE VEHICLE SIZES



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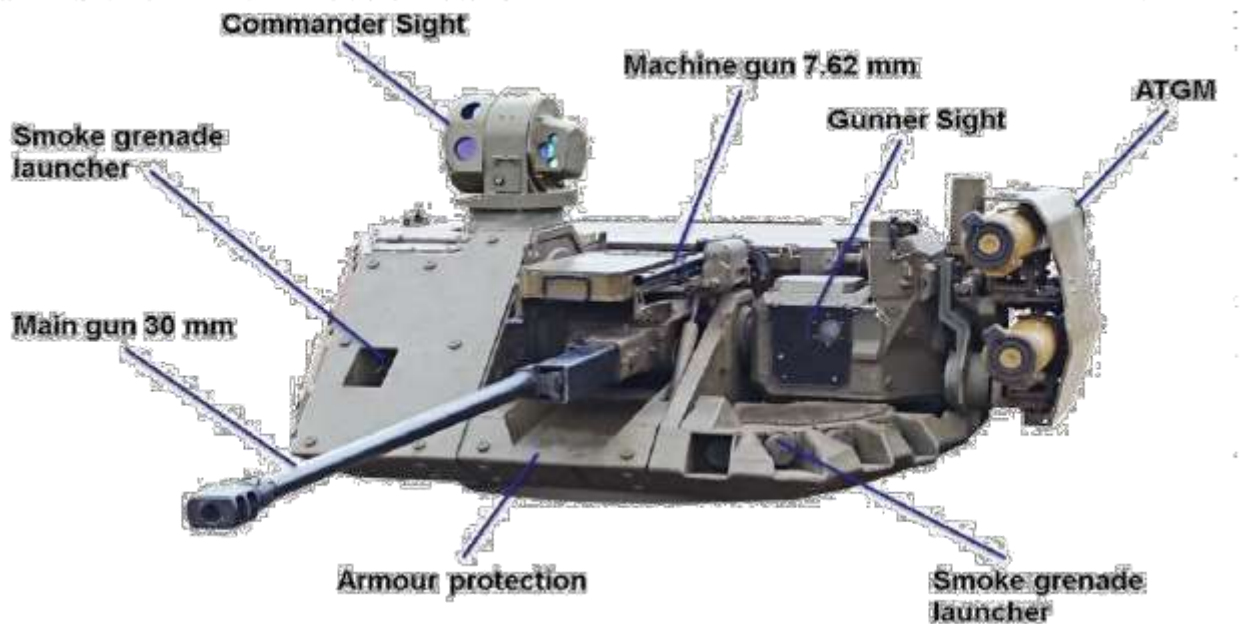
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9. FIREPOWER

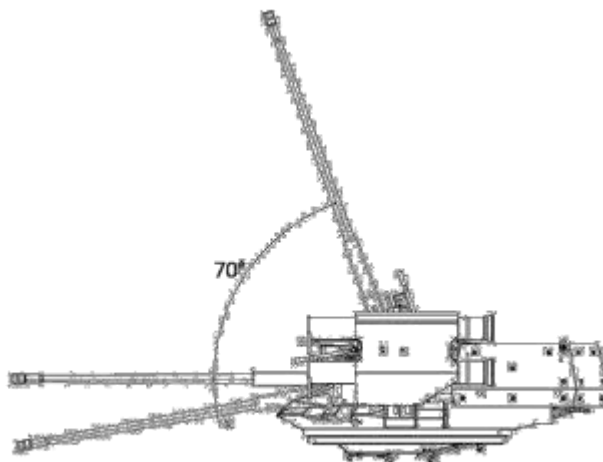
1. Main Gun: 30mm 2A42 or Bushmaster
2. Coaxial: 7.62mm GPMG
3. ATGM: Dual Launcher for Spike LR, Konkurs or Kornet-E *



Digital Fire Control System (with auto-tracking of ground and air targets) Gunner Main Sight plus Panoramic Commander Sight (stabilized)

*other ATGM or Air Defence Missile can be integrated

AIR DEFENCE CAPABILITY



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10. PROTECTION

- Automatic Fire Extinguishing System
- Ceramic-Polymer Technology
- Integrated Smoke Grenade Systems
- Blast Protected Hull against Landmines
- All-Round Ballistic Protection Level 4 (STANAG 4569)
- Frontal Arc Projection Level 5 (STANAG 4569)
- Multiple Hit Capability
- CBRN Defence System

Ceramic-Polymer Technology

i. All Round Protection

The protection level is of level 4 as defined by STANAG 4569. It offers 0-360° protection to the vehicle against the follow kinetic threats:

level	KE threat			
	Ammunition	V (m/s)	Az.	Elev.
4	14,5mm x 114 API/B32	911	0-360°	0°
3	7,62 mm x 51 AP (WC core)	930	0-360°	0-30°
3	7,62 mm x 54R B32 API	854	0-360°	0-30°
2	7,62 mm x 39 API BZ	695	0-360°	0-30°
1	7,62 mm x 51 NATO Ball	833	0-360°	0-30°
1	5,56 mm x 45 NATO SS109	900	0-360°	0-30°
1	5,56 mm x 45 M193	937	0-360°	0-30°

ii. Frontal Arc Protection

The protection level is of level 5 as defined by STANAG 4569. It offers 0-30° protection to the vehicle as measured from the turret center, against the following additional threat:

- a) Automatic cannon armour piercing rounds
- b) Type: 25mm x 137 APDS-T (PMB 073)
- c) Range: at 500 meters

The armour panels are designed specifically to the vehicle and moulded individually into shapes that match the vehicle contour and surfaces. The add-on armour system is designed to cover as much of the exterior of the vehicle as possible to reduce and eliminate gaps in the protection while at the same time allowing for convenient vehicle maintenance access.

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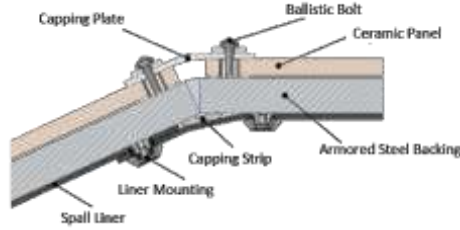
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Added Protection is a lightweight advanced composite armor solution specifically for mobile applications, which is a customizable composite system of high-tech materials.

11. OPTIONAL ITEMS

1. DRIVER THERMAL IMAGER CAMERA
2. COMMANDER CONTROL STATION
3. COMMANDER DUAL AXIS STABILIZED PANORAMIC SIGHT

Swift Code: ABRKEGCAMRG
Bank Name: AL Barka Bank
Address: 76 EL MERGHANY
STREET, HELIPOLIS-CAIRO-EGYPT .
Account No USD.:
093399(002)

سويفت كود: ABRKEGCAMRG
اسم البنك: بنك البركة
العنوان: 76 شارع الميرغني - مصر
الجديدة - القاهرة
رقم الحساب الدولار أمريكي:
093399(002)

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System .

الإسم: شركة إيجلز إنترناشيونال
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CEO. Wael Mamdouh Moubarak

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