



**MILKOR**  
AIR | LAND | SEA | CYBER

**MILKOR** CATALOGUE 2023

# MILKOR



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**SINCE**  
1981

With a global footprint and multiple offices, Milkor is continuously investing in the development of cutting-edge technologies, with support from skilled teams and feedback from end-users. This approach enables Milkor to provide turnkey defence solutions for air, land, and sea.

# AIR

**MILKOR**

**AEROSPACE**



## MILKOR 380

### UNMANNED AERIAL VEHICLE

The Milkor 380 is a multi-functional airborne platform that can be used for Intelligence, Surveillance, Reconnaissance (ISR) and strike missions. With a wide variety of payload options, the Milkor 380 acts as a guardian in the sky and can conduct extended-range and long-endurance missions. World-leading optical equipment integration onto the Milkor 380 platform provides real-time high-definition, infrared, and multispectral video, and data acquisition that is transmitted over remote receivers. Synthetic Aperture Radar (SAR) and Inverse Synthetic Aperture Radar (ISAR) for maritime monitoring are both technologies that can be included in the Milkor 380 platform.

The Milkor 380 is designed for operational versatility whilst autonomous flight, take-off and landing is achieved through its onboard flight control system. A control system featuring pathway placement and loiter pattern ensures the simplification and success of complex missions. Five hardpoints included in the Milkor 380 design allows interchangeability for podded electronic warfare solutions, weapon systems and external containers. The Milkor 380 allows for adaptability according to customer requirements with a specially engineered airframe that provides long endurance at medium altitudes, allowing increased performance on all fronts and in all weather conditions.

A modular design approach was applied to the Ground Control Station (GCS), allowing for customisation to client requirements. Two versions of the GCS are available, the Strategic GCS (SGCS) and the tactical GCS (TGCS). The SGCS is installed in a fixed office and can be configured to fit into the intelligence structure of any force. The TGCS is containerised for rapid deployment to operational areas and can also be mounted to a vehicle for better mobility.

## SYSTEM FEATURES

- ITAR (International Traffic in Arms Regulations) free
- 250km radius Line of Sight (LOS) Communications
- Satellite communications (Satcom) capable
- Dual redundant communication systems
- EO/IR Gimbal (Diameter up to 500mm)
- Electronic Countermeasures (ECM)
- Precision Guided Munitions (PGMs)
- Synthetic Aperture Radar (SAR)
- Integration of custom payloads
- Fully autonomous flight
- Ground support suite
- Fully containerised
- Modular design





380



## TECHNICAL SPECIFICATIONS

<b>Maximum Range</b>	2 000+ km
<b>Maximum Endurance</b>	35 h
<b>Service Ceiling</b>	30 000 ft
<b>Max Operational Altitude</b>	23 000 ft
<b>Length</b>	9 m
<b>Wingspan</b>	18.6 m
<b>MTOW (Max Take-off weight)</b>	1 300 kg
<b>Max Payload</b>	210 kg (515 kg including fuel)
<b>Fuel Capacity</b>	305 kg
<b>Maximum Speed</b>	250 km/h
<b>Cruise Speed</b>	110 – 150 km/h
<b>Fuel Type</b>	110 LL Avgas/93 UL Mogas

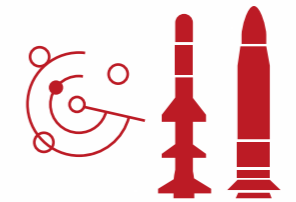
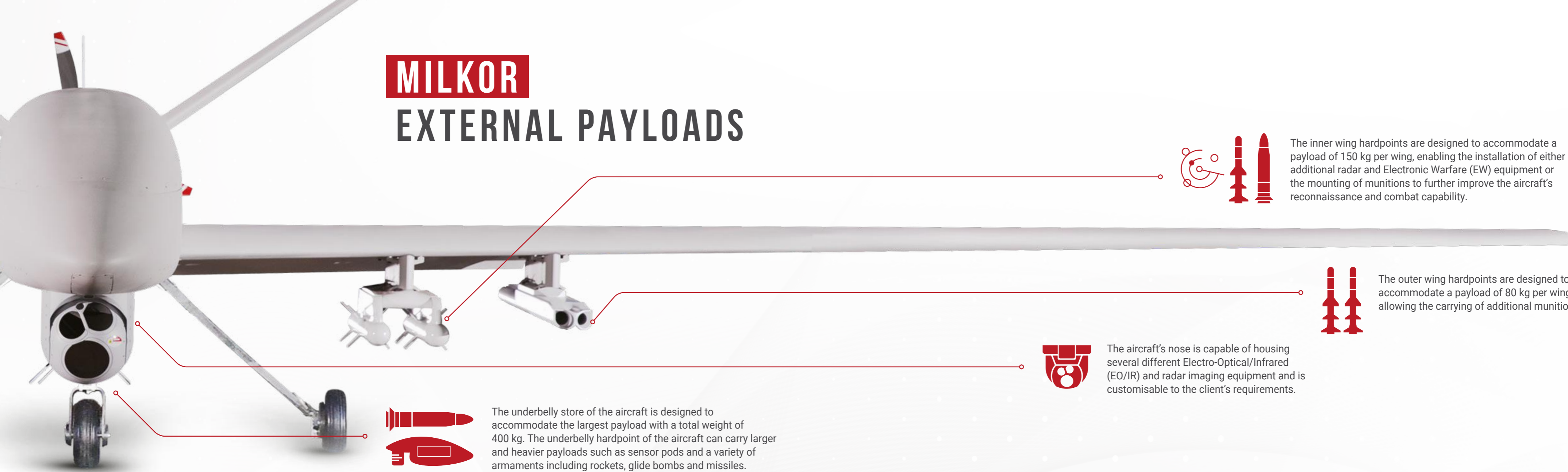


## COMMUNICATIONS

The Milkor 380 is equipped with dual redundant Line of Sight (LOS) communications systems that can maintain contact with its control unit for up to 200 km. With seamless transition between Line of Sight and Beyond Line of Sight (BLOS) communications.

# MILKOR

## EXTERNAL PAYLOADS



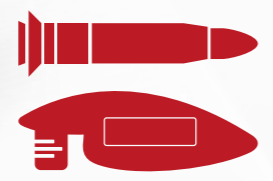
The inner wing hardpoints are designed to accommodate a payload of 150 kg per wing, enabling the installation of either additional radar and Electronic Warfare (EW) equipment or the mounting of munitions to further improve the aircraft's reconnaissance and combat capability.



The outer wing hardpoints are designed to accommodate a payload of 80 kg per wing, allowing the carrying of additional munitions.



The aircraft's nose is capable of housing several different Electro-Optical/Infrared (EO/IR) and radar imaging equipment and is customisable to the client's requirements.



The underbelly store of the aircraft is designed to accommodate the largest payload with a total weight of 400 kg. The underbelly hardpoint of the aircraft can carry larger and heavier payloads such as sensor pods and a variety of armaments including rockets, glide bombs and missiles.



## MULTIPLE PLATFORM COMMUNICATION

Milkor is able to integrate with existing C2 & C4ISR systems that allow communication with multiple platforms through a built-in relay link on the Milkor UAV. The Milkor 380 allows for dual redundant data links with up to 3 different platforms simultaneously, enabling communications between respective forces including Land, Sea, Infantry and other Air platforms.



## COMPLETE INTEGRATION SOLUTION FOR COMMUNICATION WITH MULTIPLE PLATFORMS WHICH CAN INCLUDE:

- Real-time video streaming
- Audio communication
- Radio communication
- Geolocation
- High speed data transfer
- Network centric communication

**MILKOR**

**LAND SYSTEMS**

LAND





## MILKOR 4X4

### MINE RESISTANT AMBUSH PROTECTED ARMoured VEHICLE

The Milkor 4x4 is an all-terrain Mine Resistant Ambush Protected (MRAP) vehicle, designed to provide optimal protection and excellent off-road capability in a versatile platform. Configurable as an APC, command vehicle, battle ambulance, reconnaissance platform or internal security vehicle, the Milkor 4x4 delivers superior performance no matter the configuration.

The Milkor 4x4 features a monocoque hull for superior protection, integrated with a commercial powertrain for ease of maintenance. This allows for STANAG 3a and 3b blast protection, B7 ballistic protection and a 280HP engine, all in a highly versatile and maintainable package.

Designed with user experience in mind, the Milkor 4x4 features numerous features to improve the soldier's experience. These include a wider cabin for a comfortable working environment, ergonomically designed blast seats, large windows for situational awareness, and a sloped bonnet for better driver field of view and easier navigation of difficult terrain. With excellent protection, performance, maintainability, ergonomics and user experience, the Milkor 4x4 is an ideal choice for militaries and police forces around the world.



#### ENGINE

208 kW Power  
800 Nm Torque



#### ARMOUR

Blast: Stanag 3a and 3b  
Ballistic: B7/Stanag 2



#### RANGE

1 000 km  
Range



#### APPLICATIONS

- Armoured Personnel Carrier
- Ambulance
- Patrol vehicle
- Riot Control Vehicle
- Mobile Command Unit



### TECHNICAL SPECIFICATIONS

<b>Tare Mass</b>	10 000 kg
<b>GVM</b>	12 000 kg
<b>Power</b>	208 kW
<b>Power/Weight Ratio</b>	20 kW/t
<b>Seating Capacity</b>	8+2
<b>Protection Level</b>	Blast: Stanag 3a and 3b Ballistic: B7/Stanag 2
<b>Armament</b>	Manned Turret or unmanned weapon station, smoke grenades



### PERFORMANCE SPECIFICATIONS

<b>Max Speed</b>	110 km/h
<b>Range</b>	1 000 km
<b>Fording depth</b>	700 mm
<b>Ground Clearance</b>	500 mm
<b>Side Slope</b>	30%
<b>Gradient</b>	70%
<b>Approach Angle</b>	48°

# SEEA

**MILKOR**

**NAVAL SYSTEMS**



## MILKOR IPC INSHORE PATROL CRAFT

Speed, stealth, safety and comfort are the key design features of the Milkor IPC to ensure mission success. These design principles make the Milkor IPC a formidable marine vessel suited for navy, coast guard or police operations.

The hydrofoil-assisted catamaran hull ensures increased speed, fuel efficiency and stability during deployment. The Milkor IPC is specifically designed for long endurance inshore patrol missions and features a full galley, shower head and crew cabin to ensure comfortability for extended mission operations.

Available space in the Milkor IPC has been optimally used to ensure crew comfort and ease of operation on long missions. Full climate control throughout the entire vessel allows for continuous operation during harsh weather conditions. Guide rails ensure the safe external movement of crew during operation.

Four crew stations are provided in the cabin, fully equipped pilot and navigation stations and two customisable stations for control of weapon and surveillance payloads. The unique wheelhouse design ensures enhanced field of view from all stations giving optimal situational awareness during day and night operations.

Precision engineering and certified craftsmanship combined with the use of advanced GRP materials and marine certified components, guarantees quality of each Milkor IPC.



### WEAPONS

- 40 mm Automatic grenade launcher
- 12.7 mm Remotely operated stabilised weapons



### ENDURANCE

Up to 5 days



### CREW

- 1 x Captain/Helmsman Station
- 1 x Communications/Navigation Station
- 2 x Standby/Weapons Control Station



### NAUTICAL EQUIPMENT

- Chirp Radar
- Automatic Identification System (AIS)
- Global Positioning System (GPS)
- Depth Sonar



## TECHNICAL SPECIFICATIONS

	<i>Catamaran</i>	<i>Hydrofoil-assisted</i>
	<i>Material</i>	<i>Fibre reinforced composite</i>
<b>Hull</b>	<i>Length overall</i>	<i>12 m</i>
	<i>Beam</i>	<i>4.8 m</i>
	<i>Displacement</i>	<i>13 000 kg</i>
	<i>Fuel capacity</i>	<i>2 000 litres</i>
<b>Maximum Range</b>	<i>Overall (at 20 knots)</i>	<i>650 Nm – 750 Nm</i>
	<i>Overall</i>	<i>5 Days</i>
<b>Maximum Endurance</b>	<i>Option 1: 450 HP outboard engines</i>	<i>2</i>
	<i>Option 2: 500 HP diesel inboard</i>	<i>2</i>
	<i>Top speed</i>	<i>50 knots</i>
<b>Performance</b>	<i>Typical cruise (Sea state 1 &amp; 2)</i>	<i>30 – 47 knots</i>
	<i>Typical cruise (Sea state 3 &amp; 4)</i>	<i>25 – 30 knots</i>
	<i>Loiter</i>	<i>7 knots</i>
	<i>High back shock absorbing (200mm stroke)</i>	<i>4</i>
<b>Seats</b>	<i>Stabilised EO/IR Gimble</i>	<i>1</i>
<b>Surveillance Equipment</b>	<i>Very High Frequency (VHF) radio</i>	<i>1</i>
	<i>Foghorn</i>	<i>1</i>
<b>Communication</b>	<i>Wheelhouse/Cabin</i>	<i>16 000 BTU/10 000 BTU</i>
	<i>Stainless steel Grab rails</i>	<i>2</i>
<b>Air-conditioning</b>	<i>Life rafts</i>	<i>1</i>
	<i>Fire alarm system</i>	<i>1</i>
	<i>Bilge pump alarm system with control panel</i>	<i>1</i>
<b>Safety</b>		



# MILKOR 40MM AGL

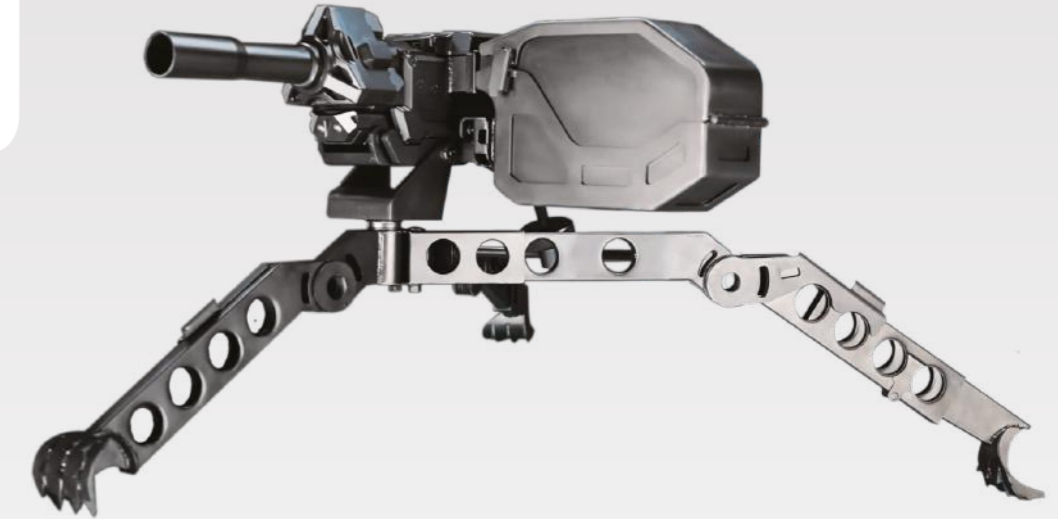
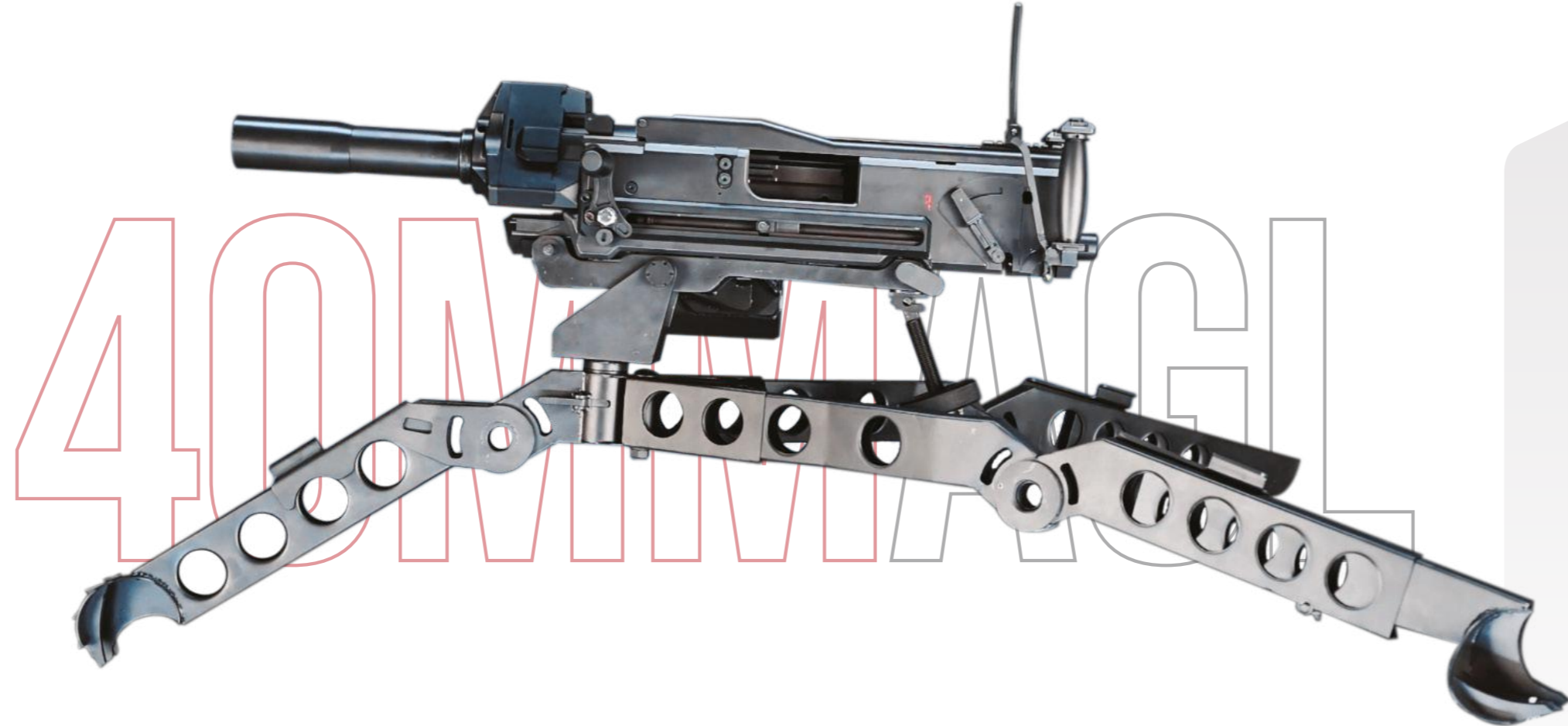
## TECHNICAL SPECIFICATIONS

<b>Length</b>	1030 mm
<b>Width</b>	180 mm (min) 240 mm (max)
<b>Height</b>	184 mm
<b>Weight</b>	27 kg
<b>Barrel Length</b>	410 mm
<b>Action</b>	API Blowback
<b>Safety Selector</b>	2-Fold (locks trigger, preventing firing pin activation)
<b>Firing Position</b>	Open Breech
<b>Mode Selector</b>	Safe/Single Shot/Automatic
<b>Cyclic Rate of Fire</b>	250 – 350 rpm
<b>Cartridge</b>	40 x 53 mm
<b>Muzzle Velocity</b>	230 – 240 m/s
<b>Effective Range</b>	1 500 m
<b>Maximum Range</b>	2 200 m
<b>Detachable Ladder Sight</b>	100 m – 1 500 m
<b>Accessory Rail</b>	STANAG 4694 NATO Accessory Rail

**FEED SYSTEM**  
Decreased belt force pull (linked belts)

**RATE OF FIRE**  
250 - 350 rpm cyclic | 40 - 45 rpm sustained

**OPERATION**  
API Blowback



## 40MM AUTOMATIC GRENADE LAUNCHER

The Milkor AGL is an adjustable fully automatic, belt fed grenade launcher operating on the Advanced Primer Ignition (API) Blowback principle, making it the perfect force multiplier for a wide range of applications.

The Milkor AGL has been designed for mobility, stability and superior accuracy during operation. The weapon can be deployed on a tripod, manned turret or RCWS. This allows for flexibility and versatility.

**ENHANCEMENTS**  
Recoil mitigating system

**AMMUNITION**  
40 mm x 53 mm High-Velocity (HV)

**DESIGN**  
Easy maintenance, repair and cleaning



# MILKOR SUPERSIX

## TECHNICAL SPECIFICATIONS

<b>Calibre &amp; Rounds</b>	40 mm Less-Lethal 40 mm Low-Velocity (LV) 40 mm Medium-Velocity (MV)
<b>Type</b>	Multi-shot semi-automatic revolving action
<b>Capacity</b>	6 Rounds
<b>Firing Method</b>	Double action
<b>Practical Firing Rate</b>	Capable of firing 6 rounds in 3 seconds (Operator dependant)
<b>Barrel Type</b>	Progressive with 1 turn in 1200 mm final twist (1:47.24")
<b>*Overall length (Butt retracted/extended)</b>	781 mm/859 mm with compensator 746 mm/824 mm without compensator
<b>Weight (Empty)</b>	5.96 kg
<b>Effective Range</b>	400 m Low-Velocity ammunition & 800 m Medium-Velocity ammunition
<b>Accessory Rail</b>	STANAG 4694 NATO Accessory Rail
<b>Standard Sight</b>	Several options are available as per customer request
<b>Height</b>	220 mm with quad rail 203 mm with sleeve grip
<b>Width</b>	163 mm



## SUPERSIX MRGL

The SuperSix Multi-Range Grenade Launcher is a 40 mm weapon of extreme lethality and precision. It combines performance and reliability, allowing it to be effective in all battlefield conditions.



**CALIBRE & ROUNDS**  
40 mm Less-Lethal  
40 x 46 mm Low-Velocity  
40 x 51 mm Medium-Velocity



**RATE OF FIRE**  
Capable of firing 6 rounds in 3 seconds (Operator dependent)



**EFFECTIVE RANGES**  
400 m 40 x 46 mm Low-Velocity  
600 m 40 X 46 mm Extended range  
800 m 40 x 51 mm Medium-Velocity

# MILKOR UBGL

## TECHNICAL SPECIFICATIONS

<b>Calibre &amp; Rounds</b>	40 mm Low-Velocity (LV) 40 mm Less-Lethal 37/38 Less-Lethal
<b>Type</b>	Single shot
<b>Capacity</b>	1 Round
<b>Firing Method</b>	Single action button trigger
<b>Practical Firing Rate</b>	Capable of firing 6 rounds in a minute (Operator dependant)
<b>Barrel Type</b>	6 Constant 1 turn in 1200 mm (1:47.24")
<b>*Overall length</b>	324.5 mm with compensator 290.5 mm without compensator
<b>Weight (Empty)</b>	1.1 kg
<b>Effective Range</b>	400 m (Low-Velocity ammunition standard)
<b>Interface</b>	Mounted on a STANAG 4694 NATO Accessory Rail/ MIL-std-1913. Adaptive for any Assault Rifle
<b>Standard Sight</b>	Saddle sight
<b>Height</b>	91 mm
<b>Width</b>	60 mm



## UNDER BARREL GRENADE LAUNCHER

The compact lightweight design of the Milkor UBGL ensures increased weapon mobility when installed on a primary weapon. The ergonomic design allows for ease of operation with its button trigger and swing body to allow for simplified firing and cartridge ejection.



### CALIBRE & ROUNDS

40 mm Low-Velocity  
40 mm Less-Lethal  
37/38 Less-Lethal



### WEIGHT

1.1 kg



### EFFECTIVE RANGES

400 m (Low-Velocity  
ammunition standard)



# MILKOR STOPPER CONVERTIBLE

## TECHNICAL SPECIFICATIONS

<b>Calibre &amp; Rounds</b>	40 mm Low-Velocity (LV) 40 mm Less-Lethal 37/38 Less-Lethal
<b>Type</b>	Single shot
<b>Capacity</b>	1 Round
<b>Firing Method</b>	Double action
<b>Practical Firing Rate</b>	Capable of firing 12 rounds per minute (Operator dependant)
<b>Barrel Type</b>	6 Constant 1 turn in 1200 mm (1:47.24")
<b>*Overall length (Butt retracted/extended)</b>	642 mm/720 mm with compensator 608 mm/686 mm without compensator
<b>Weight (Empty)</b>	2.41 kg
<b>Effective Range</b>	400 m (Low-Velocity ammunition standard)
<b>Accessory Rail</b>	STANAG 4694 NATO Accessory Rail and 2 side mounted 44 mm picatinny rails
<b>Standard Sight</b>	Several options are available as per customer request
<b>Height</b>	162 mm
<b>Width</b>	69 mm



## STOPPER CONVERTIBLE

This weapon is a quick-reload, single-shot enforcer. The stopper convertible can be used to control riots and can also be utilised in lethal situations by various entities, such as law enforcement, military and tactical personnel. It is configurable with either a 40 mm or a 37/38 mm barrel.

 **CALIBRE & ROUNDS**  
40 mm Low-Velocity  
40 mm Less-Lethal  
37/38 Less-Lethal

 **RATE OF FIRE**  
Capable of firing 12 rounds  
per minute (Operator dependant)

 **EFFECTIVE RANGES**  
400 m Low-velocity  
ammunition standard



# MILKOR MK 1S/L

## TECHNICAL SPECIFICATIONS

<b>Calibre &amp; Rounds</b>	40 mm Low-Velocity (LV) 40 mm Less-Lethal
<b>Type</b>	Multi-shot, Semi-automatic revolving action
<b>Capacity</b>	6 Rounds
<b>Firing Method</b>	Double action
<b>Practical Firing Rate</b>	Capable of firing 6 rounds in 3 seconds (Operator dependant)
<b>Barrel Type</b>	Progressive with 1 turn in 1200 mm final twist (1:27.24")
<b>*Overall length (Butt retracted/extended)</b>	787 mm/865 mm (MK-1L) 754 mm/832 mm (MK-1S)
<b>Weight (Empty)</b>	6.24 kg (MK1L) 5.71 kg (MK-1S)
<b>Effective Range</b>	375 m (Low-Velocity ammunition standard)
<b>Accessory Rail</b>	Standard MIL-std-1913 top mounted picatinny
<b>Standard Sight</b>	Several options are available as per customer request
<b>Height</b>	207 mm
<b>Width</b>	163 mm



## MK1S / MK1L MULTIPLE GRENADE LAUNCHER

The MK1S and MK1L are proven designs that are both durable and reliable for multiple grenade launcher solutions. The MK1S and MK1L variations are applicable according to ammunition requirements.

 **CALIBRE & ROUNDS**  
40 x 46 mm Low-Velocity  
40 mm Less-Lethal

 **RATE OF FIRE**  
Capable of firing 6 rounds  
in 3 seconds (Operator dependant)

 **EFFECTIVE RANGES**  
375 m Low-velocity  
ammunition standard





# MILKOR MAR


## TECHNICAL SPECIFICATIONS

<b>Calibre &amp; Rounds</b>	37/38 mm Less-Lethal 40 mm Anti-riot
<b>Type</b>	Multi-shot, Semi-automatic revolving action
<b>Capacity</b>	6 Rounds
<b>Firing Method</b>	Double action
<b>Practical Firing Rate</b>	Capable of firing 6 rounds in 3 seconds (Operator dependant)
<b>Barrel Type</b>	Progressive with 1 turn in 1200 mm final twist (1:47.24")
<b>*Overall length (Butt retracted/extended)</b>	690 mm/765 mm
<b>Weight (Empty)</b>	3.4 kg
<b>Effective Range</b>	25 m – 170 m (Ammunition dependant)
<b>Accessory Rail</b>	STANAG 4694 NATO Accessory Rail
<b>Standard Sight</b>	Several options are available as per customer request
<b>Height</b>	205 mm
<b>Width</b>	175 mm



## MULTIPLE ANTI-RIOT LAUNCHER

Manufactured specifically for anti-riot purposes with a lightweight design, the MAR can be used to effectively enforce control without compromising the lives of civilians.

 **CALIBRE & ROUNDS**  
37/38 mm Less-Lethal  
40mm Anti-riot

 **RATE OF FIRE**  
Capable of firing 6 rounds  
in 3 seconds (Operator dependant)

 **WEIGHT**  
3.4 kg (Empty)

# MILKOR

## GLOBAL FOOTPRINT



**62 000+**  
SYSTEMS SUPPLIED



**56+**  
COUNTRIES



**42**  
YEARS



**5**  
GLOBAL OFFICES





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