



EXCELLENCE IN DEFENSE SOLUTIONS

NIB: 0711250123166

SERANG CITY, BANTEN - INDONESIA



COMPANY PROFILE

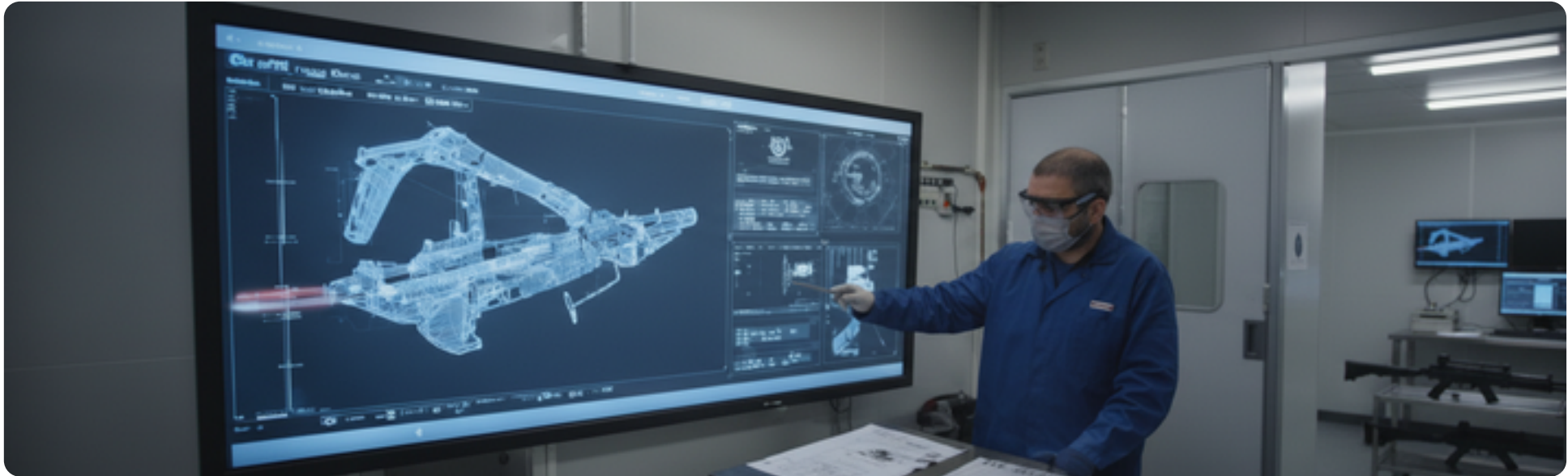
PT. JALU ALUTSISTA MANDIRI is a national company operating in the defense and security industry, As a company focused on main weapon systems (alutsista), PT. JALU ALUTSISTA MANDIRI is present to support the independence of Indonesia's defense industry. We combine modern technology with local expertise to produce high-quality products that meet national and international defense standards.

This company has officially received approval from the Ministry of Law and Human Rights of the Republic of Indonesia through Ministerial Decision Number AHU-0095189.AH.01.01.YEAR 2025 dated November 5, 2025, and is registered as a Taxpayer with NPWP 1000000006658378 at the Serang Barat Pratama Tax Office.



OUR MISSION

1. Realizing National Defense Industry Independence through local technology development and increasing domestic production capacity.
2. Providing High-Quality Alutsista Solutions that meet the operational needs of TNI, POLRI, and other security agencies with the highest reliability standards.
3. Developing Superior Human Resources in defense through intensive training, knowledge transfer, and collaboration with educational institutions.
4. Building Efficient and Sustainable Production Systems by implementing cutting-edge technology and environmentally friendly manufacturing practices.
5. Becoming the Government's Strategic Partner in realizing a strong and independent defense vision through concrete contributions to national strategic programs.



1. Technology Independence

We are committed to developing local technology capabilities through continuous research and development. By investing in competent human resources and modern production facilities, we aim to reduce dependence on imported strategic defense components.

2. Strategic Partnerships

Building long-term collaborations with defense institutions, police, and related government agencies to understand actual operational needs. We are also open to mutually beneficial international cooperation in technology transfer and product development.

3. Operational Excellence

Implementing an integrated quality management system to ensure every product meets the highest standards. By optimizing the supply chain and production processes, we guarantee on-time delivery without compromising quality.

4. Gradual Expansion

Starting from products with moderate complexity levels and gradually increasing capacity to produce more sophisticated weapon systems and combat vehicles. Initial focus on supporting alutsista components will evolve into complete integrated weapon systems.



OUR WORK CULTURE

The "SATRIA" Culture

At PT. JALU ALUTSISTA MANDIRI, we build a work culture that reflects Satria values - Loyal, Reliable, Responsive, Innovative, and Trustworthy:

- **Loyal** - High loyalty to the nation and country, with a commitment to producing products that truly support national defense.
- **Reliable** - Every product and service we design is intended to be reliable in the most challenging operational conditions.
- **Responsive** - Responsive to customer needs and adaptive to evolving technology and changing security threats.
- **Innovative** - Encouraging creative thinking and innovative solutions in every aspect of operations, providing space for new idea development.
- **Trustworthy** - Conducting business with high integrity, transparency, and responsibility socially, environmentally, and for defense.

Our work environment is designed to support collaboration among multidisciplinary teams consisting of engineers, technicians, and defense professionals with various expertise backgrounds. We believe that synergy between experience and innovation is the key to success in the modern defense industry.



THE FUTURE IS HERE AND NOW

The global defense industry is undergoing massive transformation with the emergence of disruptive technologies such as artificial intelligence, autonomous systems, and cyber warfare capabilities. PT. JALU ALUTSISTA MANDIRI is present amid this wave of change with a vision to become a pioneer in developing integrated modern defense systems.

Future Technologies We Are Developing:

- Smart Weapon Systems with digital integration for higher precision and operational effectiveness
- Light Combat Vehicles with multi-terrain capabilities and maximum protection
- Tactical Communication Equipment secure from tapping and electronic interference
- Integrated Logistics Support Systems for mobility and rapid response
- Military Drone Technology for surveillance and personnel-minimal risk operations

Our investment in research and development not only focuses on current products but also prepares the foundation for next-generation defense systems. Through strategic cooperation with reputable universities and national research institutions, we ensure that every innovation we produce not only meets current standards but is also ready to face future challenges.

Our commitment to technological independence is not just a slogan but is realized through structured technology transfer programs and the development of a strong and sustainable domestic defense industry ecosystem.

ABOUT HEADQUARTERS

ABOUT HEADQUARTERS

Address:

Jalan Ahmad Yani No. 70
RT. 001 RW. 021, Sumur Pecung Village
Serang District, Serang City
Banten Province 42118
Indonesia

Main Facilities:

PT. JALU ALUTSISTA MANDIRI's headquarters is strategically located in Serang City, Banten, with easy access to Jakarta and major ports in Java. Our facilities are designed to support efficient business operations with a layout that prioritizes security and confidentiality.

The main building consists of:

- Administrative Area with modern meeting rooms and secure video conferencing facilities
- Research & Development Center equipped with testing laboratories and digital simulation
- Product Showroom displaying our complete portfolio of alutsista products
- Training Area for technical and operational training for customer personnel
- Integrated Security Zone with multi-layer access control systems and 24/7 surveillance

This strategic location was chosen due to its proximity to national defense decision-making centers while having optimal logistics access for product distribution throughout Indonesia. With high-speed communication infrastructure support and integrated security systems, our headquarters serves as a reliable operational command center for all company activities.



As a company newly established in 2025, PT. JALU ALUTSISTA MANDIRI has great potential to become a strategic partner for the following institutions:

Defense Agencies:

- Indonesian National Armed Forces (TNI) - Army, Navy, and Air Force
- Indonesian National Armed Forces Headquarters (MABES TNI)
- Ministry of Defense of the Republic of Indonesia

Security Agencies:

- Indonesian National Police (POLRI)
- Regional Police Commands across Indonesia including East Java Regional Police Command
- Mobile Brigade Corps and special police units

Government Agencies:

- National Disaster Management Agency (BNPB)
- Ministry of Home Affairs
- Special Task Force for Special Operations (Satgas OPPD)

Potential International Customers:

- Friendly countries in Southeast Asia and the Pacific
- Multilateral security agencies
- Strategic partners in regional defense programs

We are committed to building long-term relationships with customers through a partnership approach focused on comprehensive solutions, not just buying and selling transactions. Each product and service we design takes into account specific operational needs and the unique challenges faced by each institution.



OUR PRODUCTS

Based on business permits and core competencies, PT. JALU ALUTSISTA MANDIRI develops a complete portfolio of products in the alutsista field:

AME520

TECHNICAL DESCRIPTION & SPECIFICATION



AME520 DESCRIPTION

The AME520 is a modern, AR15-style firearm engineered to provide a more affordable, lightweight, and compact alternative to traditional AR15 models, without sacrificing reliability or performance. Chambered in 5.56x45mm NATO, the AME520 offers versatility for a variety of tactical uses. A key feature of the AME520 is its 20" full length barrel, which provides consistent accuracy. The direct impingement gas system of the AME520 further ensures efficient operation, delivering consistent cycling with minimal recoil. Designed with both right and left-handed shooters in mind, the AME520 comes equipped with ambidextrous controls, including the safety selector, magazine release and charging handle. This adaptability promotes ease of use for shooters of all skill levels, making the rifle accessible to a wider range of users. The AME520 is also built to accommodate modern optics and attachments, with Picatinny rails conforming to MIL-STD-1913 specifications. The top rail is ideal for mounting a variety of mechanical or opto-electronic sights, enhancing target acquisition and precision shooting. Meanwhile, the bottom rail is perfect for underbarrel attachment such as the STK 40GL, bipods, or tactical lights for added versatility in field operations. Additionally, the AME520 is equipped with M-LOK attachment points on both the left and right sides of the handguard. This enables the shooters to easily attach accessories such as tactical lights or lasers. The modularity ensures that users can personalize their rifle for specific tasks, optimising its utility in both tactical scenarios. Overall, the AME520 blends cost-effectiveness with high-end functionality, catering to those who need a compact, reliable, and adaptable rifle for various scenarios.

KEY TECHNOLOGICAL FEATURES

a). Ambidextrous controls

The AME520 is designed with ambidextrous controls, meaning that its key components—such as the Safety Selector, Magazine Release, and Charging Handle—are configured to be easily operated by both left-handed and right-handed users. This feature enhances the weapon's versatility and usability, ensuring that individuals of either dominant hand can efficiently handle and manipulate the weapon without modification or compromise.

Ambidextrous Safety Selector: The Safety Selector, which controls the weapon's ability to fire, can be manipulated from either side of the weapon. This allows both left-handed and right-handed shooters to engage or disengage the safety without having to shift their grip or reposition their hands, increasing efficiency and safety.

Ambidextrous Magazine Release: The Magazine Release button, used to eject and replace the magazine, is accessible from both sides of the weapon. This feature allows for quick magazine changes regardless of the user's dominant hand, providing flexibility and speed during operations or combat situations.

Ambidextrous Charging Handle: The Charging Handle, which is used to chamber a round and prepare the weapon for firing, can be pulled from either side of the weapon. This is especially helpful for left-handed shooters, who might otherwise struggle with conventional charging handles designed for right-handed use. With this ambidextrous feature, both hands can easily operate the charging handle, promoting smoother reloading and weapon cycling.

b) Adjustable Buttstock

The AME520 is equipped with an adjustable buttstock, a key feature that enhances the weapon's ergonomics and user comfort. The buttstock can be lengthened or shortened to suit the shooter's preferences and body type. This allows for the AME520 to be positioned optimally for users to have a natural and stable shooting position, improving aim and control. The adjustable buttstock accommodates to the various shooting positions such as standing, kneeling or prone where different length might be necessary for optimal comfort. In a scenario where the AME520 has to be shared between different users, the adjustable buttstock allows for a quick and easy adaption to fit each individual. This makes it ideal for training where multiple shooters may use the same weapon.





C. Modularity

The AME520 is a modern, AR15-style firearm engineered to provide a more affordable, lightweight, and compact alternative to traditional AR15 models, without sacrificing reliability or performance. Chambered in 5.56x45mm NATO, the AME520 offers versatility for a variety of tactical uses. A key feature of the AME520 is its 20" full length barrel, which provides consistent accuracy. The direct impingement gas system of the AME520 further ensures efficient operation, delivering consistent cycling with minimal recoil. Designed with both right and left-handed shooters in mind, the AME520 comes equipped with ambidextrous controls, including the safety selector, magazine release and charging handle. This adaptability promotes ease of use for shooters of all skill levels, making the rifle accessible to a wider range of users. The AME520 is also built to accommodate modern optics and attachments, with Picatinny rails conforming to MIL-STD-1913 specifications. The top rail is ideal for mounting a variety of mechanical or opto-electronic sights, enhancing target acquisition and precision shooting. Meanwhile, the bottom rail is perfect for underbarrel attachment such as the STK 40GL, bipods, or tactical lights for added versatility in field operations. Additionally, the AME520 is equipped with M-LOK attachment points on both the left and right sides of the handguard. This enables the shooters to easily attach accessories such as tactical lights or lasers. The modularity ensures that users can personalize their rifle for specific tasks, optimising its utility in both tactical scenarios. Overall, the AME520 blends cost-effectiveness with high-end functionality, catering to those who need a compact, reliable, and adaptable rifle for various scenarios.

TECHNICAL SPECIFICATIONS

Calibre	5.56x45mm	
Length	940mm Buttstock retracted 1020 Buttstock extended 1165mm Buttstock extended with bayonet	
Barrel Length Mounting System	1-in-7" twist 508 mm (20") 1 sets of Picatinny Rails 3 sets 7 slot M-LOK	MIL-STD-1913
Weight	Unloaded With bayonet 30 Round Magazine	Approx. 3.5kg Approx 3.8kg 0.11 kg – empty 0.47 kg – full
Operating Features	Firing Mode Method of Operation Rate of Fire Safeties	Safe, Semi and Auto Direct Gas Impingement 700-950 rpm Ambidextrous
Muzzle velocity Maximum Effective Range Buttstock	760 to 945 m/s Up to 550m 6-position adjustable Carbine Stock	
Standard Accessories	<ul style="list-style-type: none"> • Rifle Cleaning Kit • Rifle Sling • 30 Round Magazine 	
Optional Accessories	<ul style="list-style-type: none"> • Reflex Sight • Mechanical Iron Sight • Fore grip • Bayonet 	

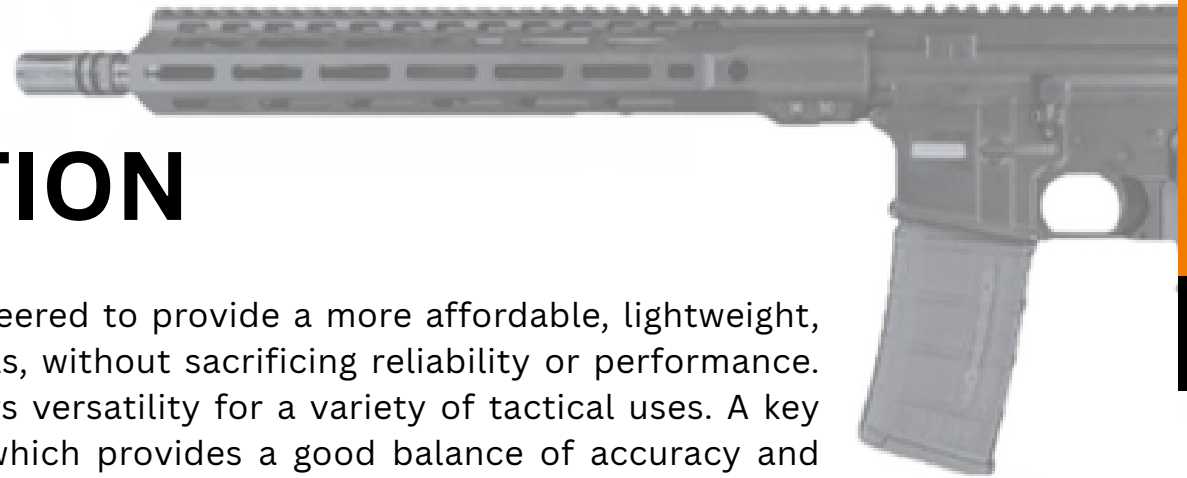


AME514

TECHNICAL DESCRIPTION & SPECIFICATION



AME514 DESCRIPTION



The AME514 is a modern, AR15-style firearm engineered to provide a more affordable, lightweight, and compact alternative to traditional AR15 models, without sacrificing reliability or performance. Chambered in 5.56x45mm NATO, the AME514 offers versatility for a variety of tactical uses. A key feature of the AME514 is its 14.5" length barrel, which provides a good balance of accuracy and overall length. The direct impingement gas system of the AME514 further ensures efficient operation, delivering consistent cycling with minimal recoil. Designed with both right and left-handed shooters in mind, the AME514 comes equipped with ambidextrous controls, including the safety selector, magazine release and charging handle. This adaptability promotes ease of use for shooters of all skill levels, making the rifle accessible to a wider range of users. The AME514 is also built to accommodate modern optics and attachments, with Picatinny rails conforming to MIL-STD-1913 specifications. The top rail is ideal for mounting a variety of mechanical or opto-electronic sights, enhancing target acquisition and precision shooting. Meanwhile, the bottom rail is perfect for underbarrel attachment such as the STK 40GL, bipods, or tactical lights for added versatility in field operations. Additionally, the AME514 is equipped with M-LOK attachment points on both the left and right sides of the handguard. This enables the shooters to easily attach accessories such as tactical lights or lasers. The modularity ensures that users can personalize their rifle for specific tasks, optimising its utility in both tactical scenarios. Overall, the AME514 blends cost-effectiveness with high-end functionality, catering to those who need a compact, reliable, and adaptable rifle for various scenarios.

KEY TECHNOLOGICAL FEATURES

a) Ambidextrous controls



The AME514 is designed with ambidextrous controls, meaning that its key components—such as the Safety Selector, Magazine Release, and Charging Handle—are configured to be easily operated by both left-handed and right-handed users. This feature enhances the weapon's versatility and usability, ensuring that individuals of either dominant hand can efficiently handle and manipulate the weapon without modification or compromise.

Ambidextrous Safety Selector: The Safety Selector, which controls the weapon's ability to fire, can be manipulated from either side of the weapon. This allows both left-handed and right-handed shooters to engage or disengage the safety without having to shift their grip or reposition their hands, increasing efficiency and safety.

Ambidextrous Magazine Release: The Magazine Release button, used to eject and replace the magazine, is accessible from both sides of the weapon. This feature allows for quick magazine changes regardless of the user's dominant hand, providing flexibility and speed during operations or combat situations.

Ambidextrous Charging Handle: The Charging Handle, which is used to chamber a round and prepare the weapon for firing, can be pulled from either side of the weapon. This is especially helpful for left-handed shooters, who might otherwise struggle with conventional charging handles designed for right-handed use. With this ambidextrous feature, both hands can easily operate the charging handle, promoting smoother reloading and weapon cycling.

b) Adjustable Buttstock

The AME514 is equipped with an adjustable buttstock, a key feature that enhances the weapon's ergonomics and user comfort. The buttstock can be lengthened or shortened to suit the shooter's preferences and body type. This allows for the AME514 to be positioned optimally for users to have a natural and stable shooting position, improving aim and control. The adjustable buttstock accommodates to the various shooting positions such as standing, kneeling or prone where different length might be necessary for optimal comfort. In a scenario where the AME514 has to be shared between different users, the adjustable buttstock allows for a quick and easy adaption to fit each individual. This makes it ideal for training where multiple shooters may use the same weapon.





C. Modularity

The modularity of the AME514 is one of its standout features, offering users the ability to customize several key components of the rifle—specifically the handguard, pistol grip, and buttstock—to suit their individual preferences or specific operational needs. This level of customization enhances the rifle's versatility and adaptability, ensuring it can perform optimally across a wide range of scenarios. The handguard is the part of the rifle that surrounds the barrel and provides a grip for the user's non-trigger hand. The handguard can be swapped out for different types or styles, depending on the user's need. This could involve different lengths, materials, or the addition of rails (like M-LOK or Picatinny) for mounting accessories like lights, lasers, or grips. The pistol grip is where the shooter holds the rifle with their dominant hand. The grip can be replaced with one that suits their hand size or preferred angle of hold. Some grips offer features like better ergonomics, added texture for improved grip, or the option to store small items inside. The buttstock is the rear part of the rifle that rests against the shooter's shoulder. The buttstock can be replaced with one that has adjustability in the cheek height or foldable to accommodate to the needs.

40AGL Mk 2

40MM AUTOMATIC GRENADE LAUNCHER



THE COMBAT-PROVEN CHOICE FOR DECISIVE FIREPOWER



40 a G L
M K 2

ST Engineering’s highly reliable 40mm Automatic Grenade Launcher Mk 2 (40AGL Mk 2) delivers accurate, intense and decisive firepower against enemy personnel and light armoured vehicles.

Sight Options • Reflex sight, used with Soft Mount, enables the weapon to effectively engage moving or stationary targets • Fire Control System for enhanced system accuracy

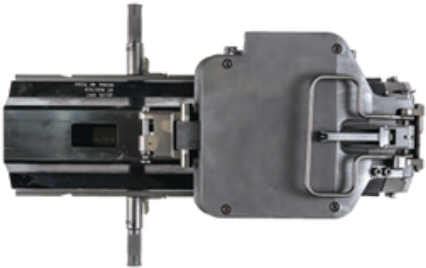
Safety Features • Cocking Safety prevents inadvertent firing due to accidental release

- of Charging Handle during cocking
- Feed Cover Safety prevents Bolt from propelling forward when Feed Cover Assembly is in open position
- Bolt Lock Safety locks bolt in any position through the charging assembly to avoid inadvertent release during operation.

Modular Construction for Simple Operation

TECHNICAL SPECIFICATIONS		
General	Calibre Length Weight	40 mm x 53 mm 1056 mm 30.0 kg 1500 m
	Maximum Effective Range	1 in 48" 16.5" / 420 mm 242 m/s 350 rpm
	Rifling Barrel Length Muzzle	- 500 rpm Safe, Semi & Auto Belt Fed
	Velocity Rate of Fire Mode of	Advanced Primer Ignition (API) Blowback
	Fire Feeding Type Operation	
Standard Accessories	Cleaning Kit, Detachable Chute, Ammunition Box Holder Lock & Fire Mount, Soft Mount, Fixed	
Optional Accessories	or Electrically Powered Pedestal, Cradle and Yoke Interface, M3 Tripod, Reflex Sight	

Note: Specifications are subject to change by the manufacturer without prior notice.



Receiver Assembly & Feed Cover Assembly



Trigger Mechanism & Rear Sight Assembly



Bolt & Backplate Assembly




Barrel Assembly

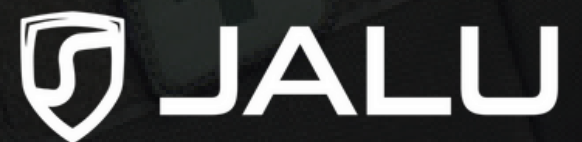


Firearms

Handbook 2020



www.jalualutsista.com



About PT. JALU ALUTSISTA MANDIRI

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SAR21



The SAR21 bullpup assault rifle offers high firing accuracy with a built-in Laser Aiming Device (LAD) for instant target acquisition even in low light conditions, and low recoil mechanism.

Lighter and more compact than an equivalent M16, the SAR21 provides excellent manoeuvrability even in tight spaces. It is designed with minimal components for easy assembly, disassembly, cleaning and maintenance, with a factory-zeroed integrated 1.5x optical scope to minimise field zeroing.



Built-in accuracy with scope and LAD



Enhanced user safety with built-in Kevlar shield

Features

- Family of rifles with maximum commonality
- High accuracy
- Modular design
- Enhanced safety features

Specifications

- Calibre: 5.56 x 45mm
- Length: 640 – 805mm
- Weight: 3.0 – 4.0kg

Variants



SAR21 Modular Mounting System (MMS) – Standard



SAR21 MMS – Carbine



SAR21 Light Weight Carbine (LWC)



SAR21 with Under Barrel 40mm Grenade Launcher

BR18



A compact mission-configurable weapon system with a patented forward ejection system and one of the shortest bullpup rifles in the world, ST Engineering's BR18 is a highly accurate weapon that can be fired from both left and right sides without any modification.

It has enhanced safety features, dry lubrication coating, low recoil, dual magazine capability (SAR21/STANAG) and comes with MIL-STD-1913 Picatinny rails for optical aiming systems and other tactical accessories.



Forward ejection mechanism for ambidextrous operation



Enhanced safety with shield at cheek rest

Features

- Robust and mission-configurable
- Compact and lightweight
- Fully ambidextrous control and firing operations
- Multi-role rifle system

Specifications

- Calibre: 5.56 x 45mm
- Length: 645 – 785mm
- Weight: 2.9 – 4.0kg

Variants



BR18 Assault Rifle (AR)



BR18 Marksman Rifle (MR)



BR18 Machine Gun Rifle (MGR)



BR18 with Under Barrel 40mm Grenade Launcher

Ultimax 100 Mk8



The Ultimax 100 is the world's lightest machine gun and can be fired from a drum magazine and reloaded while on the move. It is extremely accurate and controllable due to its constant recoil system.

Featuring a foldable, retractable buttstock with adjustable height, an open-bolt system that prevents ammunition cook-off and a trigger safety mechanism, the Ultimax 100 Mk8 is compatible with various magazine types such as the M16, SAR21 magazines, 100 rounds C-MAG and Ultimax 100 drum magazine.



M16
Magazine



Ultimax 100
Drum Magazine

Compatible with various magazine types for multiple operational scenarios

Features

- | World's lightest machine gun
- | Low recoil
- | Modular design

Specifications

- | Calibre: 5.56 x 45mm
- | Length: 855 - 980mm
- | Weight: 5.0kg

Variants



Ultimax 100 Mk8 Standard



Ultimax 100 Mk8 Carbine

Compact Personal Weapon (CPW)



Ease of use with multiple sling points

ST Engineering's CPW is a cost-effective and compact sub-machine gun made of strong yet light engineering plastic and aluminum alloy.

Its unique cam recoil mitigation mechanism reduces recoil significantly with delayed blowback operation for accurate and controlled firing. The retractable buttstock allows CPW to be handled and carried like a conventional pistol for easy concealment for law enforcement and security forces.

Features

- Compact and lightweight
- Low recoil
- Low maintenance
- Multiple mounting options

Specifications

- Calibre: 9 x 19mm
- Length: 393 – 597mm
- Weight: 1.7kg

7.62mm General Purpose Machine Gun (GPMG)



The 7.62mm GPMG is a fully automatic, air-cooled, belt-fed, gas-operated weapon with a simple modular construction and disassembly procedure, making it the weapon of choice for military and paramilitary forces.

Variant



7.62mm Co-axial Machine Gun (CMG)

This variant can be mounted on platforms such as the Remote Control Weapon Station, and on vehicles.

Features

- | Heavy duty
- | Modular design
- | Low maintenance
- | Adjustable rate of fire

Specifications

- | Calibre: 7.62 x 51mm
- | Length: 1255mm
- | Weight: 11.4kg

50MG



ST Engineering's 50MG quick-change barrel with fixed headspace can be changed in one action without any tools, in just seconds. It also has a left/right hand feeding system for fast switching of ammunition types, an open-bolt mechanism, and semi and automatic firing modes.

Multiple mounting options such as the M3 tripod, Pedestal Mount, 40/50 Cupola Weapon Station, Remote Control Weapon Station and Ring Mount are also available.



Dual feed system for fast ammunition switching



Multiple mounting options such as M3 Tripod

Features

- Tool-less quick-change barrel
- Left/Right hand feed
- Low maintenance
- Versatile

Specifications

- Calibre: 12.7 x 99mm
- Length: 1670mm
- Weight: 30.0kg

40mm Grenade Launcher (40GL) Mk1



Designed to fire 40mm low velocity and low velocity extended range grenades, ST Engineering's 40GL Mk1 features a patented drop down barrel design for quick loading/unloading of ammunition, and a double-action trigger mechanism that activates and releases the hammer in a single trigger pull.

40GL Mk1 is lightweight and versatile – it can be easily configured as an under barrel or stand-alone grenade launcher without any tools, or fitted with a Fire Control System for air burst programming.



Patented drop down barrel design for ambidextrous operation



Mounted on SAR21 & BR18 as under barrel grenade launcher

Features

- Lightweight and versatile
- Ambidextrous operation
- Double-action trigger mechanism
- Modular design

Specifications

- Calibre: 40 x 46mm
- Length: 310 – 570mm
- Weight: 1.3kg

40mm Automatic Grenade Launcher (40AGL) Mk2



Designed to fire 40mm high velocity ammunition, ST Engineering's 40AGL Mk2 has multiple safety features such as Charging Safety and Bolt Lock Safety and a simple modular assembly for easy maintenance. It can be enhanced with various sight and mounting options, such as Reflex Sight, Lock and Fire Mount and Softmount to meet different tactical applications.



Multiple mounting options such as M3 Tripod

Features

- | Low maintenance
- | Enhanced safety features
- | Versatile
- | High ammunition compatibility

Specifications

- | Calibre: 40 x 53mm
- | Length: 1056mm
- | Weight: 30.0kg



SAR21

Category	Model	Calibre (mm)	Length (mm)	Weight (kg)	Maximum Effective Range (m)	Rifling
Rifle	SAR21	5.56 x 45	805	4.0	800	1 in 7" 1 in 12"
	SAR21 P-Rail	5.56 x 45	805	3.6	800	1 in 7" 1 in 12"
	SAR21 MMS Standard	5.56 x 45	755	3.5	800	1 in 7" 1 in 12"
	SAR21 MMS Carbine	5.56 x 45	680	3.5	450	1 in 7" 1 in 12"
	SAR21 LWC	5.56 x 45	640	3.0	300	1 in 7" 1 in 12"
	BR18 AR	5.56 x 45	645	2.9	450	1 in 7"
	BR18 MR	5.56 x 45	785	3.2	800	1 in 7"
	BR18 MGR	5.56 x 45	785	4.0	800	1 in 7"
Machine Gun	Ultimax 100 Mk8 Standard	5.56 x 45	980 + 50 (Extended)	5.0	800	1 in 7" 1 in 12"
	Ultimax 100 Mk8 Carbine	5.56 x 45	855 + 50 (Extended) 393 + 204	5.0	600	1 in 7" 1 in 12"
	CPW	9 x 19	(Extended) 1255	1.7	100	1 in 10"
	7.62mm GPMG	7.62 x 51	1090	11.4	1200	1 in 12"
	7.62mm CMG	7.62 x 51	1670	10.1	1200	1 in 12"
	50MG	12.7 x 99		30.0	1830	1 in 15"
Grenade Launcher	40GL Mk1 Under Barrel	40 x 46	320	1.3	150/400 (point/area)* 350/600 (point/area)**	1 in 48"
	40GL Mk1 Stand-alone	40 x 46	400 + 170 (Extended)	2.4	150/400 (point/area)* 350/600 (point/area)**	1 in 48"
	40AGL Mk2	40 x 53	1056	30.0	1500	1 in 48"

*Low Velocity **Low Velocity Extended Range

Barrel Length (in)	Muzzle Velocity (m/s)	Rate of Fire (rpm)	Mode of Fire	Feeding Type	Operation
20.0	945	450 - 650	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
20.0	945	450 - 650	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
18.0	900	450 - 650	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
15.0	870	450 - 650	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
13.5	840	450 - 650	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
14.5	860	650 - 850	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
20.0	945	650 - 850	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
18.0	900	650 - 850	Safe, Semi & Auto	SAR21 Magazine M16 Magazine	Gas operated, Closed Bolt
18.0	945	400 - 600	Safe, Semi & Auto	SAR21 Magazine M16 Magazine U100 Drum Magazine	Gas Operated, Open Bolt
13.0	840	400 - 600	Safe, Semi & Auto	SAR21 Magazine M16 Magazine U100 Drum Magazine	Gas Operated, Open Bolt
7.0	360	900 - 1300	Safe, Semi & Auto	CPW Magazine	Delayed Blowback
22.4	840	650 - 1150	Safe & Fire	Belt Fed	Gas Operated, Open Bolt
23.1	840	700 - 1200	Safe & Fire	Belt Fed	Gas Operated, Open Bolt
45.0	890	400 - 600	Safe, Semi & Auto	Belt Fed	Gas Operated, Open Bolt
8.5	76* 100**	Single Shot	Safe & Fire	Single Shot	Double Action
8.5	76* 100**	Single Shot	Safe & Fire	Single Shot	Double Action
16.5	242	350 - 500	Safe, Semi & Auto	Belt Fed	Advance Primer Ignition (API) Blowback



Next Generation Protected Vehicle



www.jalualutsista.com

Next Generation Protected Vehicle

The STELS' next generation of protected vehicle has been designed to meet and support a wide range of missions, covering law enforcement, peacekeeping, homeland security, armed conflict as well as border patrol. Beginning with the baseline of a troop carrier, multiple configurations ranging from medical to mortar variants are possible.

The vehicle is a fully digitised platform anchored by a fully structural monocoque V-shaped hull that enhances crew survivability against ballistic, mine and IED threats. With its rugged Cummins engine and Allison transmission, high mobility is ensured for reach into non-linear spaces.

- Base Vehicle – Troop Carrier, 2+10 capacity
- Key features
 - **Fully digitised architecture** for quick technology insertion
 - **Hybrid Electric Drive** option
 - **High payload** with configurable protection



Key Features - Exterior



Front driving camera
Protected engine compartment

- Taller doors for easy ingress & exit
- External storage bins to maximise crew protection
- High ground clearance for better obstacle clearance & protection from mine blast

- Rear ramp with built-in steps for fast crew ingress & exit
- Twin rear camera for driving & situational awareness

Key Features - Interior

- Fully air-conditioned interior
- Two digital panels for driver to enhance ease of driving
- Commander digital panel with stowable joystick for RWS control



Smart Digital Platform



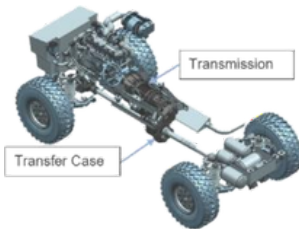
Digitized Open architecture for simple technology insertion (standard)

- Fully digitized Platform controls
- Platform information architecture gateway
- Allows "Plug & Play" of system capabilities insertion through Open Interface and protocols

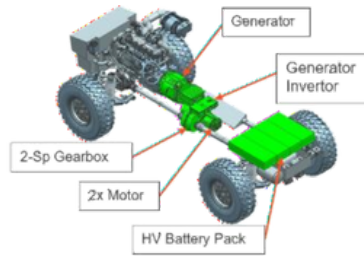


Hybrid Electric Drive

- Up to 30% fuel savings
- Developed as a 'Product' for upgrades



Conventional Drive Layout



Hybrid Drive Layout



Smart Vision System(option)

- E-Wing Side Mirror
- Top-Down Surround View
- ADAS Rear Object Detection



ADAS Rear Object Detection (option)

- Rear object detection up to 8m
- Object ~1m height
- Customized datasets with Machine Learning algorithm



Top-Down Surround View (option)

- Elimination of deadground
- Close terrain maneuver
- 3-5 small round views

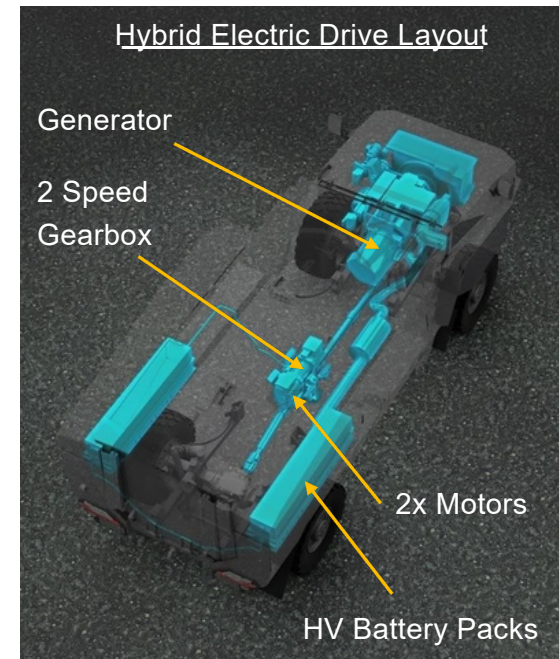
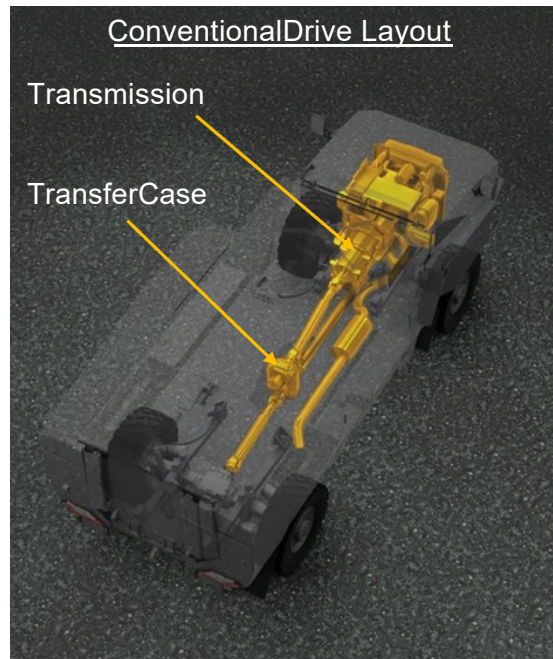


E-Wing Side Mirror (option)

- Blind spot elimination
- Requires minimal space
- Does not block visibility
- Improves overall aerodynamics

Hybrid Electric Drive

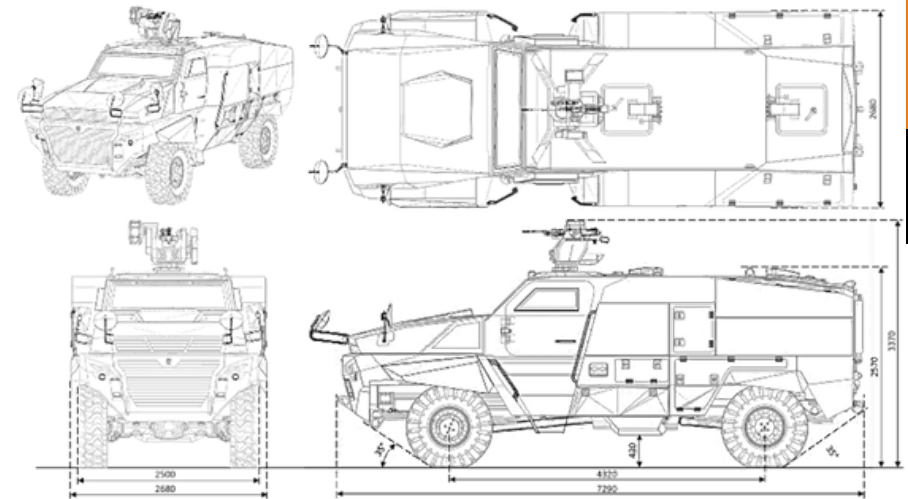
- HED kit for medium weight class vehicle(13~20 tonnes)
- Expected improvement in fuel efficiency of up to 30%



Technical Specifications

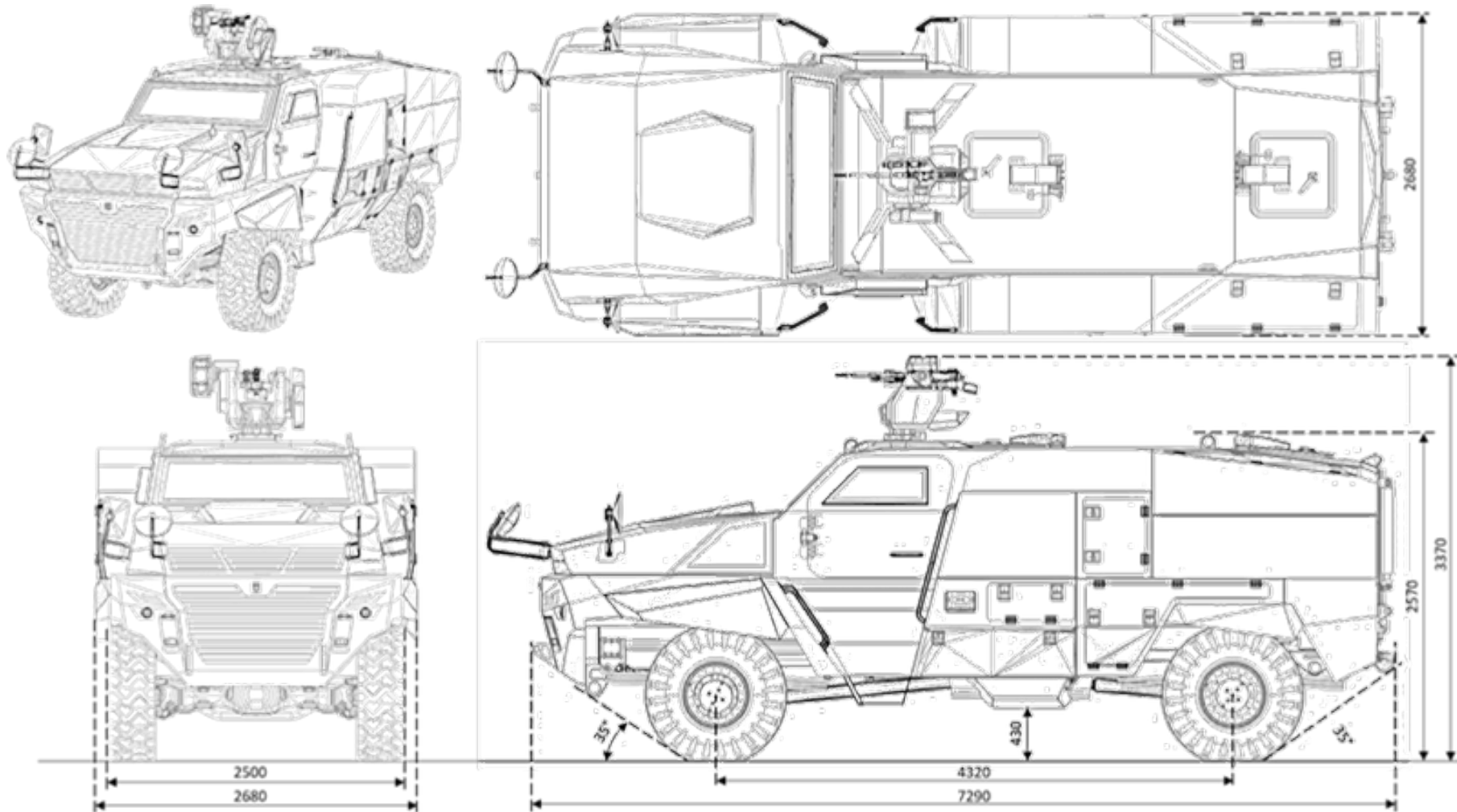
Dimensions*	
Length	7,300 mm
Height	2,600 mm
Width	2,700 mm
Wheelbase	4,320 mm
Track	2,060 mm
Ground Clearance	430 mm
Occupants (All with seat belts)	Upto 12 seats(2+10)
* Subject to final configuration	
Weight (including armour kit)	
Curb Weight	15,000kg (Subject to protection level, options installed and crew)
Payload Capacity Gross	Up to 5,000 kg (Subject to protection level, options installed and crew)
Vehicle Weight (GVW)	20,000kg
Protection	
Crew Compartment	STANAG 4569 Level III as standard
Floor / Mine Protection	STANAG 4569 Level III as optional
Engine Compartment	STANAG 4569 Level I
Performance	
Maximum Speed	110 km/h
Gradient	60%
Side Slope	30%
Turning Circle Diameter	18m
Approach Angle	Up to 35°
Departure Angle	Up to 35°
Vertical step Climbing	400 mm
Fording Depth	900 mm
Powertrain	
Engine Type & Cylinders	Cummins ISBe2-300 6.7L turbo-Diesel
Engine Output	296 hp @ 2500 rpm
Engine Torque	812lbft @1500rpm
Max. Operational Altitude	3,600 m
Operating Temperature	-15 to 55°C
Fuel tank Capacity	212L
Electric System	Estimated Travel Distance of 650km
Emission Limit	600A-24V
	Euro 2

Driveline and Suspension	
Wheel Drive	Full-time four-wheel drive Differential locks actuated electronically 2-speed
Transfer Case	electronically operated
Differential Locks	Full differential lock Dual circuit
Brakes	pneumatic with ABS as standard
Steering	Hydraulic Power assist
Suspension	Solid axles with Parabolic leaf springs
Gearbox	Allison 3000 SP 6-speed transmission
Wheels & Tyres	395/85 R20 with CTIS and Runflat as standard
Crew Compartment	
Lights and Gauges	LED Headlights, Signal Lights and Brake Lights Provision for Blackout Lights Fully Digital Driver Instrument Panel
Seats	Driver/Vehicle Commander: Air Suspension Seat Crew: Sling type
Others	
Situation Awareness - External Front view & Rear view camera as standard	
Chassis - Monocoque Structure	
Transportability - C-130 and up	
Additional Optional Items	
Crew Compartment - Options	
Remote Control Turret with integrated display screen and operating joystick	
Rifle holders	
Trailer tow-hitch	
Anti-slip surface on roof	
Automotive - Options	
Hybrid Electric Drive	
Euro 5 exhaust system	
High Power 360hp engine	
Electrical Winch	
External 360° camera system for all round visibility	
External rooftop lightbar	
External search lights	
Crew Compartment - Options	
Optional armour upgrades are available upon customer request, subjected to vehicle GVW limitation	



- Vehicle is available with an optional Hybrid Electric drivetrain to:**
- Increase vehicle range – Up to 780km
 - Increase silent watch – Up to 24 hrs
 - Export power – continuous 150 kW
 - Silent drive – up to 16km (battery capacity dependent)

Technical Specifications



Remote Weapon Stations



The EOS R150 Remote Weapon Station can integrate either the 7.62mm GPMG or the 12.7mm M2 Machine Gun onto the NGPV to enhance its operational capabilities for different applications.

The R150 Remote Weapon Station (RWS)

A Lightweight Solution for Force Protection

Suitable for platforms where weight is constrained. When integrated with the high-performance EOS Sensor Unit and a light or medium machine gun, it is a capable Intelligence, Surveillance and Reconnaissance (ISR) system with high-level firepower.

The system is stabilised, accurate, and lightweight. It sets a new standard for accurate firepower with the capability to mount and fire weapons up to 14.5 mm calibre on the move and over long range.

Provides excellent self-defence capabilities for combat support and logistics platforms.

Basic configuration has a roof weight of less than 100 kg before adding weapons and ammunition.

Features the standard user interface common across all EOS RWS; easy for operators to switch between systems; significantly reduces training and logistics requirements.



The R150 Remote Weapon Station (RWS)

Key Features:

- 3-axis stabilised gimbal: yaw, pitch and roll; capable of both static *or* on-the-move firing
- Automatic target tracking
- Day/thermal camera with eye safe laser rangefinder
- Capable of high accuracy $< 1 \text{ mrad RMS}$
- Programmable target reference points
- Plug-and-play compatible with other EOS weapon systems
- Ethernet-ready for integration on various platforms.



The R150 Remote Weapon Station (RWS)

Specifications:

SPECIFICATIONS	M2 12.7 mm HMG	MAG 58 7.62 mm GPMG	MG5-A1 7.62 mm	M134D	MINIMI 5.56 mm
Height above roof	608 mm minimum NO DECK CLEARANCE PLINTH				
Tare weight above roof (excl. weapon and max. ammunition)	100 - 109 kg	100 - 108 kg		TBC	107 kg
Gross weight above roof (inc. weapon and ammunition)	174 kg	135 kg		TBC	125 kg
Weight below roof – Control Group	21 kg				
Max. ammunition load	500 rds	550 rds		1000 rds	750 rds
Elevation / depression	+75°/-30° *Requires 125 mm plinth	+75°/-30° *Infantry butt requires 135 mm plinth	+75°/-30°	+75°/-30° TBC	+75°/-30° *Infantry butt requires 135 mm plinth
Sweep diameter	1704 mm	1628 mm	1300 mm		1606 mm
Gimbal firing stability	<1 mrad				



SENSOR UNIT	DAY CAMERA	THERMAL IMAGER
Detection range	> 12,000 m	> 13,700 m
Recognition range	> 5600 m	> 5100 m
Identification range	> 4700 m	> 4000 m

The R150 Remote Weapon Station (RWS)

Currently in service:



**D-Lion –R150 integrated on the
PARAMOUNT MBOMBE 4x4**



**D-Tiger –R150 integrated on the
CHAISEI FIRST WIN 4x4**



**VAMPIRE –R150 gimbal integrated with the APKWS
70mm laser-Guided Rocket System**

The R150 can be used standalone or as part of EOS' end-to-end counter UAS solutions.

PHH SET RIOT GEAR



PHH SET RIOT GEAR



PHH DALMAS



PHH TNI

TACTICAL SUIT



BAJU TACTICAL COMBAT



KAOS SERBU TAKTIS



CELANA TACTICAL COMBAT



CELANA SERBU TAKTIS



VEST ANTI SAYAT

TACTICAL GEAR SET



BORGOL TANGAN



BORGOL KAKI



BELT HOLSTER
MILITARY KYDEX



ACTION CAMERA
HITAM



HEADSET KOMUNIKASI+PTT
HITAM



RADIO HT TAKTIS WATERPROOF
HITAM



NIGHT VISION GOGGLES (NVG)
HITAM



PISAU SUNGKUR
HIJAU



VOICE RECORDER WATERPROOF
HITAM



ALAT KEJUT LISTRIK (STUN GUN)
HITAM

IPP (INTEGRATED PERSONNEL PROTECTION) SET



KACAMATA PELINDUNG TAKTIS



KACAMATA BALLISTIC



VISOR HELMET TNI



ANTI-BALISTIC HELMET



HELMET BRIMOB



HELMET TNI KHUSUS LATIHAN



TNI AL MARINIR HELMET



HELM PHH POLISI (DALMAS)



HELMET MICH

IPP (INTEGRATED PERSONNEL PROTECTION) SET



THANOS TACTICAL VEST
BLACK



THANOS TACTICAL VEST
GREEN



THANOS TACTICAL VEST
CAMO



ROMPI TAKTIS KOMBINASI
BLACK



VEST ELITE 1
BLACK



VEST ELITE AIG
BLACK



BULLETPROOF PLATE
LEVEL NIJ IV SS109



SET PANEL KERAS TAHAN PELURU



ROMPI TAKTIS KOMBINASI
BALISTIC BLACK

IPP (INTEGRATED PERSONNEL PROTECTION) SET



PANEL ADAPTOR SARUNG PISTOL
HIJAU



CHEST RIG SYSTEM
CAMOFLAGE



SWIMVEST TACTICAL
HITAM



MASKER GAS RESPIRATOR
BLACK



NOMEX TACTICAL
GLOVE



SARUNG TANGAN TAKTIS
HIJAU



SARUNG TANGAN
HITAM

FOOTWEAR



OAKLEY
COYOTE MID ZIP WATERPROOF -
HUNTER GREEN



OAKLEY
COYOTE BOOT LEATHER -
WHITE



OAKLEY
SUPERCORIL SANDAL 2.0 -
STONE GREY



CONCAVE
HALO FG - BLACK GREEN



CONCAVE
SANTOS - BLACK



OAKLEY
LT. ASSAULT 2 - COYOTE



FISCHER
RC5 CLASSIC



FISCHER
BCX TRANSNORDIC
WATERPROOF



LE COQ SPORTIF
LCS T01

FOOTWEAR



**JOSEF SEIBEL
NALY 45**



**JOSEF SEIBEL
NALY 09**



**VIGOROSO
DERBY BOOT-01 - WHITE**



**VIGOROSO
DERBY BOOT-01 - BLACK**



**VIGOROSO
WATERPROOF COMMANDO
BOOT-01**



**VIGOROSO
WATERPROOF ASSAULT
BOOT-01**

TACTICAL SHOES



PDL PROVOS



PDL TNI SPIN ON



PDL TNI

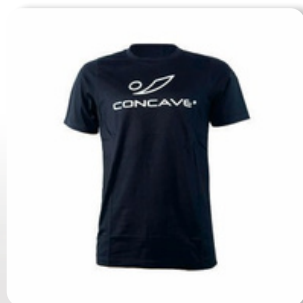


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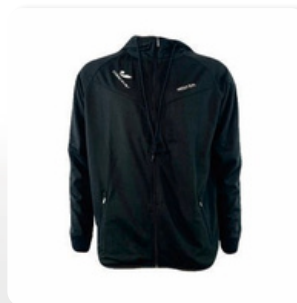


PDL BRIMOB

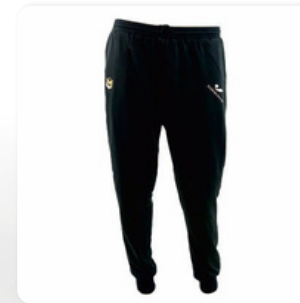
ACCESORIES & APPAREL



CONCAVE
CONCAVE T-SHIRT -
BLACK/WHITE



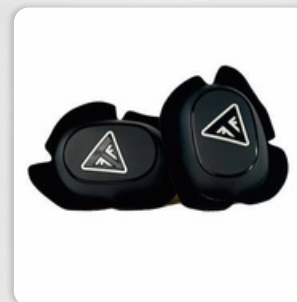
CONCAVE
M10 ZIPPER TRACKSUIT



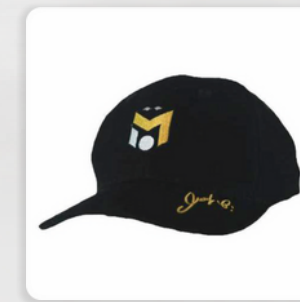
CONCAVE
M10 JOGGER PANT -
BLACK



ALPINESTARS
GP SPORT EVO KNEE SLIDERS



TRIUMPH
TRIPLE KNEE SLIDER



CONCAVE
M10 CAP

BACKPACK & BAG TACTICAL



RANSEL PERORANGAN
PBB



RANSEL SERBU -
GREEN



RANSEL SERBU
PBB



RANSEL SONNABEND
BLACK



RANSEL PERORANGAN
CAMO



TAS SELEMPANG TAKTIS
BLACK

BACKPACK & BAG TACTICAL



RANSEL SERBU
HITAM



RANSEL SERBU
CAMOFLAGE



TAS PUNGGUNG TAKTIS
CAMOFLAGE



E.A.T-88L
TYPE TRUNK KIT



TACTICAL BAG
60L TROLLEY (BLACK)



TAS BARANG TAKTIS
CAMOFLAGE

IPP (INTEGRATED PERSONNEL PROTECTION) SET



SMOKE GRENADE
POUCH



SMARTPHONE
POUCH



FARER-4 MEDICAL
POUCH



MEDIUM UTILITY
POUCH



SOG TOOL
POUCH



I.B.A.V MOLLE
RADIO POUCH



GENERAL MOLLE
BELT PAD-C



ELBOW & KNEE PADS



KANTONG P3K

IPP (INTEGRATED PERSONNEL PROTECTION) SET



ROCK HYDRATION
BAG 3L



KANTONG DOUBLE PISTOL
CAMOFLAGE



QUICK RIFLE MAGAZINE
HIJAU



GRANAT DOUBLE TAKTIS
HITAM



KANTONG GRANAT ASAP DOUBLE
CAMOFLAGE



MODULAR RIFLE
MAG POUCH



KANTONG LIPAT MULTIGUNA
CAMOFLAGE



SABUK SERANG TAKTIS
CAMOFLAGE



SAFETY LANYARD TAKTIS
HITAM



PANEL DROPLEG TAKTIS
HIJAU

IPP (INTEGRATED PERSONNEL PROTECTION) SET



FIREARM

GLOCK G17 GEN5 MOS

Bahan	: Polimer ringan
Ukuran Peluru	: 9 X 19 mm
Ukuran Pemicu	: Tindakan aman
Kapasitas Peluru	: Standar : 17
	Opsional : 19 / 24 / 31 / 33
Panjang Laras	: 114 mm / 4.49 inch
Berat tanpa tempat peluru	: 625 gram / 22.05 oz
Berat dengan tempat peluru kosong	: 705 gram / 24.87 oz
Berat dengan tempat peluru terisi	: 945 gram / 33.33 oz
Tarik Pemicu	: 26 N



AKSESORIS TAMBAHAN



MICROTAC LASER



KEKER RTS 2



Visual pemasangan pada pistol

TACTICAL VEHICLE

HMLTV[4X4]HMLTV[4X4]



Kendaraan lapis baja HMLTV [4X4] dimodifikasi dari sasis Pickup Toyota LC79. Empat sisi kompartmen mesin dan enam sisi kompartmen kru terbuat dari baja anti peluru. Kendaraan secara keseluruhan memenuhi persyaratan antipeluru Fb6 dari EU EN1522. Lantai kompartmen dapat menahan serangan 2 granat DM51. Kendaraan ini mengadopsi tata letak 5 pintu dengan 6 kursi atau 8 kursi. Kursi depan adalah kursi antiranjau dengan struktur peredam guncangan, dan kursi samping belakang adalah kursi antiranjau dengan sandaran kaki yang dipasang di dinding samping bodi kendaraan.

DATA TEKNIS :

Model : Manual 4x4Mode kemudi : Setir Kiri Dimensi Keseluruhan p x l x t : 5550 x 1955 x 2620 mm Berat Angkutan Total : 5800 Kg Mesin : V8/ 4,5T mesin diesel 200HP/450Nm L4/2,8T mesin diesel 204HP/500Nm L4/2,8T mesin diesel 204HP/500Nm Transmisi : 5MT / 6ATJumlah Penumpang: 2+2+2 atau 2+2+4 Orang Kecapatan Maksimal : 120 km/jam Tangki Bahan Bakar : 130 L atau 90L+90L Tingkat Perlindungan: Enam sisi FB6 sesuai standar EN1522



Programming Unit (PU)

Weapon mounted or Wearable

ST Engineering's ABMS system transforms existing grenade launchers into low cost precision weapons. The PU mounted on the weapon obtains the target distance, computes time of burst and programmes the LV or LV ER ABM round.

The Wearable PU computes time of burst and programmes the round.



Programming Unit – Weapon mounted

Weight (g)	350
Dimensions (mm)	95 x 45 x 60 (L x W x H)
Laser Range Finder (m)	500
Interface	MIL-STD-1913 rail

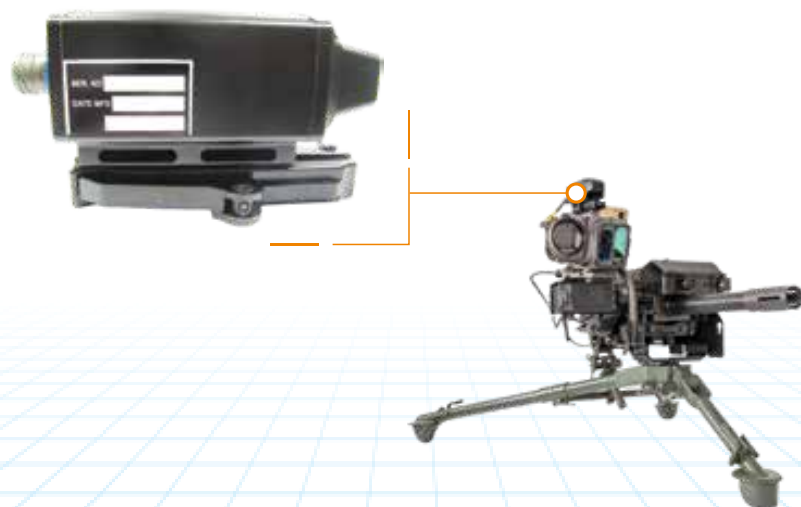
Programming Unit – Wearable

Weight (g)	Approx. 100
Dimensions (mm)	59 x 50 x 25 (L x W x H)
Battery Type	Built-in rechargeable lithium-ion battery

HV ABMS Programming Kit (PK)

Easily mounted on almost any 40mm automatic grenade launcher, the PK utilises range inputs from any fire control system and effectively programmes the time of burst to the ABM for greater firepower, higher lethality and improved accuracy against defilade targets.

Designed for use with ST Engineering's HV ABM HE, F&B and ABDP rounds.



General

Dimensions (mm)	72 x 95.8 x 68.5 (L x W x H)
Weight (g)	Approx. 800
IP Rating	IP67
Operating Temperature (°C)	-20 to +55

HV ABMS Manual Input Interface (MII)

A cost-effective solution to programme airburst ammunition without the use of costly fire control systems. MII transforms a standard 40mm automatic grenade launcher into a weapon with air bursting capability.


Designed for use with ST Engineering's HV ABM HE, F&B and ABDP rounds.



General

Dimensions (mm)	72 x 95.8 x 68.5 (L x W x H)
Weight (g)	Approx. 800
IP Rating	IP67
Operating Temperature (°C)	-20 to +55
Battery Type	2 x CR123 batteries



 JALU



POWERING TOMORROW'S BATTLEFIELD

AMMUNITION GUIDE

VERSION 1.0



ABOUT



JALU

PT. JALU ALUTSISTA MANDIRI is a national company operating in the defense and security industry, As a company focused on main weapon systems (alutsista), PT. JALU ALUTSISTA MANDIRI is present to support the independence of Indonesia's defense industry. We combine modern technology with local expertise to produce high-quality products that meet national and international defense standards.

This company has officially received approval from the Ministry of Law and Human Rights of the Republic of Indonesia through Ministerial Decision Number AHU-0095189.AH.01.01.YEAR 2025 dated November 5, 2025, and is registered as a Taxpayer with NPWP 1000000006658378 at the Serang Barat Pratama Tax Office.



SMALL CALIBRE AMMUNITION

SMALL CALIBRE

LARGE CALIBRE AMMUNITION



LARGE CALIBRE

PYROTECHNICS & EXPLOSIVES



PYROTECHNICS
& EXPLOSIVES

LESS-THAN-LETHAL





[PT. JALU ALUTSISTA MANDIRI]

Serving the Nation, Guarding the Sovereignty of the Country

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Website: www.jalualutsista.com

Legality:

Notarial Deed: Number 7 Date November 4, 2025

Minister of Law Decision: AHU-0095189.AH.01.01.YEAR 2025

NPWP: 1000000006658378 | NIB: 0711250123166

"Together with Us, Indonesia Becomes Stronger"

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