



SAAB

Ground Combat Weapon Systems

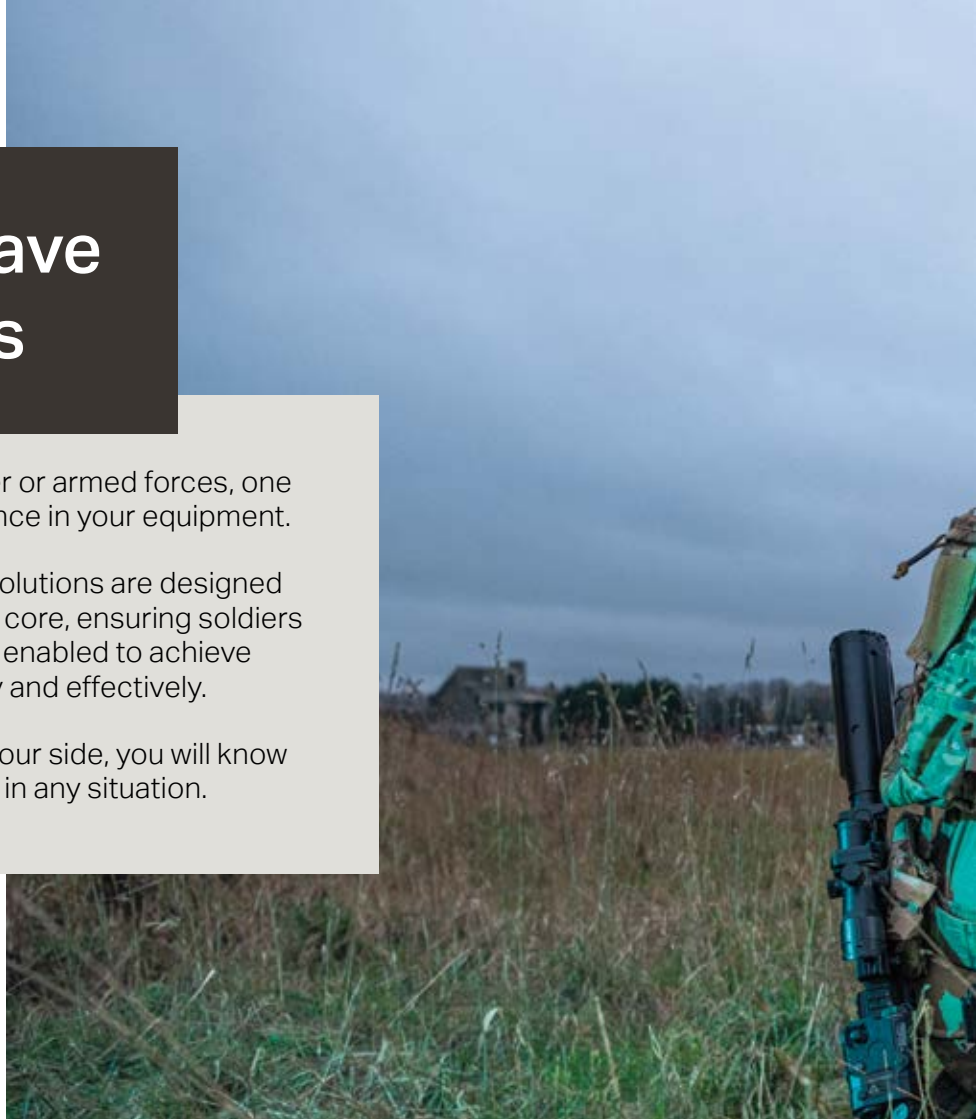
Handbook
EDITION 5.0

Know you have what it takes

Whether for the soldier or armed forces, one thing is vital – confidence in your equipment.

Our Ground Combat solutions are designed with user needs at the core, ensuring soldiers and armed forces feel enabled to achieve their objectives, safely and effectively.

With our systems by your side, you will know you have what it takes in any situation.







AT4 WEAPON SYSTEMS

AT4 WEAPONS

AT4 TRAINING

CARL-GUSTAF® SYSTEM

CARL-GUSTAF® WEAPON

CARL-GUSTAF® SIGHTS

CARL-GUSTAF® AMMUNITION

CARL-GUSTAF® TRAINING

CARL-GUSTAF® SUPPORT

NLAW

NLAW WEAPON

NLAW TRAINING





AT4 WEAPON SYSTEMS

The AT4 weapon system range consists of multiple powerful, man-portable, and disposable weapons, each optimised for ease of operation regardless of the user's experience level.

Far more than just an anti-tank solution, this true multi-role weapon system range includes anti-armour and anti-structure weapons, as well as anti-personnel/high-explosive systems with airburst functionality, designed to engage targets in defilade.

With sophisticated sight options, these weapons can be configured to meet the user's exact requirements. They can also be fired from any environment, ensuring the location does not dictate how to act when a threat appears.

As these systems are disposable, logistics and maintenance are kept to a minimum, and the need for spare parts and equipment is significantly reduced.



AT4 WEAPONS

A soldier in winter camouflage gear is kneeling in a snowy field, aiming an AT4 rocket launcher. The soldier is wearing a helmet with a night vision device and a fur-lined hood. The background shows a snowy landscape with some trees and another soldier in the distance.

Forceful, versatile and easy to use, AT4 weapons are highly effective against multiple targets.

With identical handling across all weapons, the AT4 range offers maximum versatility and reduced training load, whatever the task. For ease of deployment, weapons are packed in pairs within a dedicated transport box.



AT4CS HP

The AT4CS HP is an anti-armour weapon with confined-space capability.

It benefits from an open sight, a warhead uniquely optimised to penetrate armour, and a launch system offering very high effectiveness against armoured targets.

TECHNICAL DATA

LENGTH	1.04 m
WEIGHT	7.8 kg
TARGETS	Armoured vehicles and MBTs
EFFECTIVE RANGE	300 m





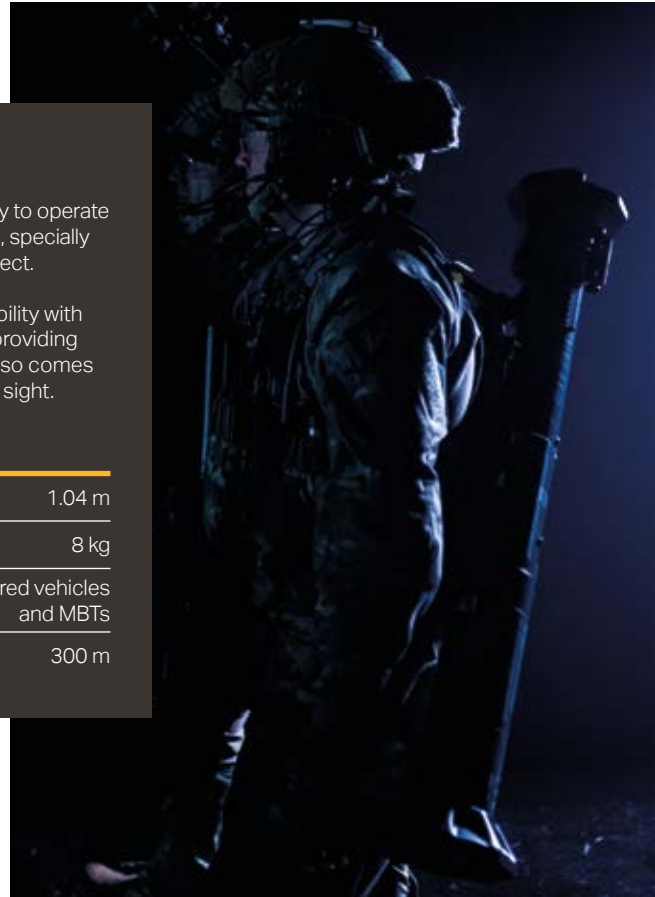
AT4CS RS

The AT4CS RS anti-armour weapon is easy to operate and has a unique bi-metal warhead design, specially developed to maximise behind-armour effect.

The weapon offers confined-space capability with improved insensitive munition, while still providing a powerful and robust launch system. It also comes with an integrated open sight and red dot sight.

TECHNICAL DATA

LENGTH	1.04 m
WEIGHT	8 kg
TARGETS	Armoured vehicles and MBTs
EFFECTIVE RANGE	300 m





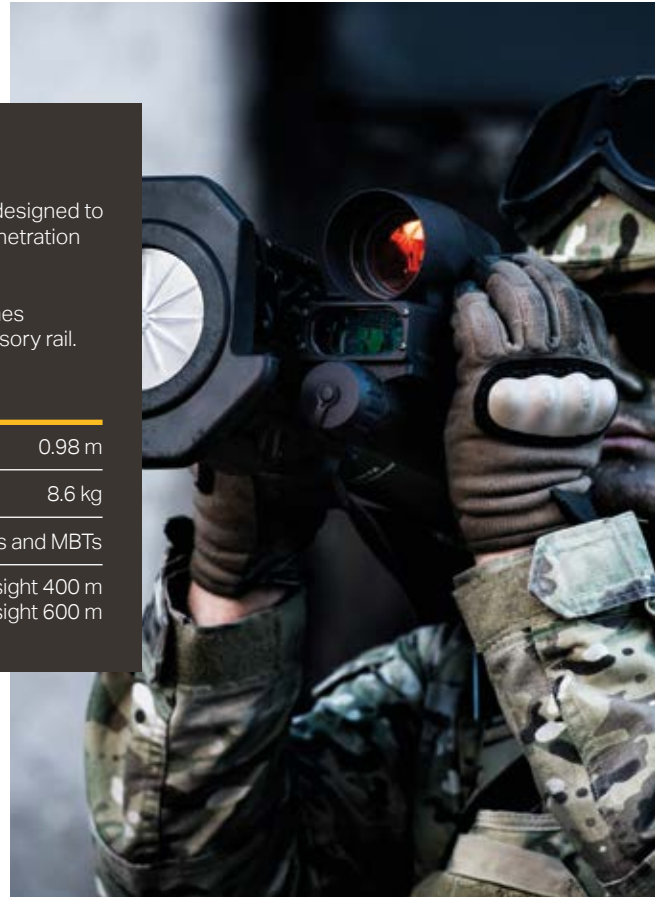
AT4CS ER

The AT4CS ER is an anti-armour weapon designed to provide extended range and maximum penetration with confined-space capability.

As with most AT4 weapon systems, it comes with an integrated red dot sight and accessory rail.

TECHNICAL DATA

LENGTH	0.98 m
WEIGHT	8.6 kg
TARGETS	Armoured vehicles and MBTs
RANGES	Integrated sight 400 m Compatible external sight 600 m





AT4CS AST

The AT4CS AST (anti-structure) weapon has confined-space capability as well as an integrated red dot sight and additional bracket system.

Optimised for urban combat, it can be configured with two modes to ensure maximum effectiveness against multiple target types. It can also be used to create new entry points into buildings.

TECHNICAL DATA

LENGTH	0.98 m
WEIGHT	9.3 kg
TARGETS	Personnel behind or in structures and bunkers, and light armoured vehicles
EFFECTIVE RANGE	200 m





AT4CS HE

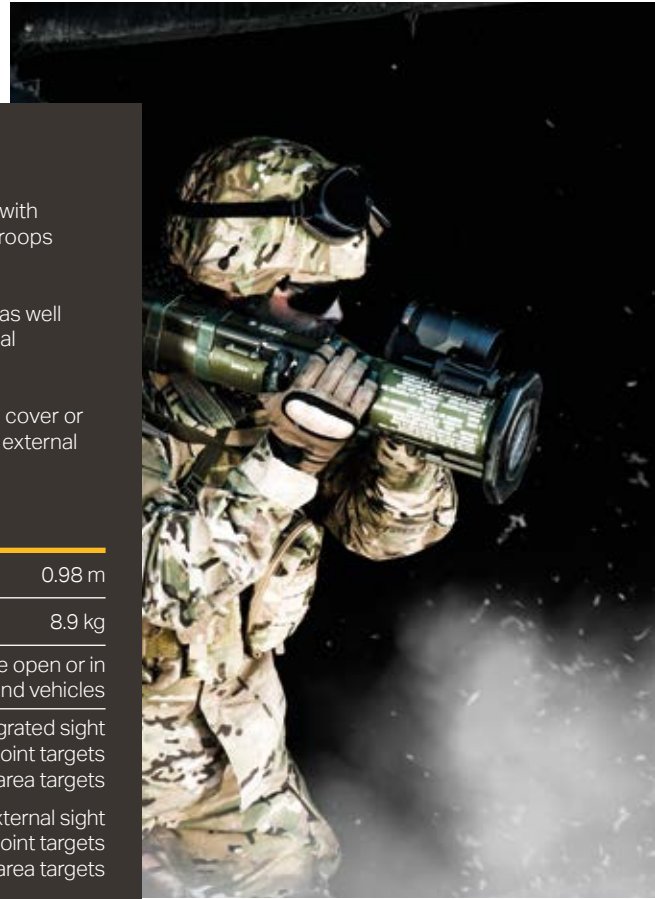
The AT4CS HE provides the single soldier with overmatching firepower to defeat enemy troops at range.

It also includes confined-space capability as well as an integrated red dot sight and additional bracket system.

Airburst mode for defeating troops behind cover or in trenches is possible using a compatible external sight mounted to the weapon.

TECHNICAL DATA

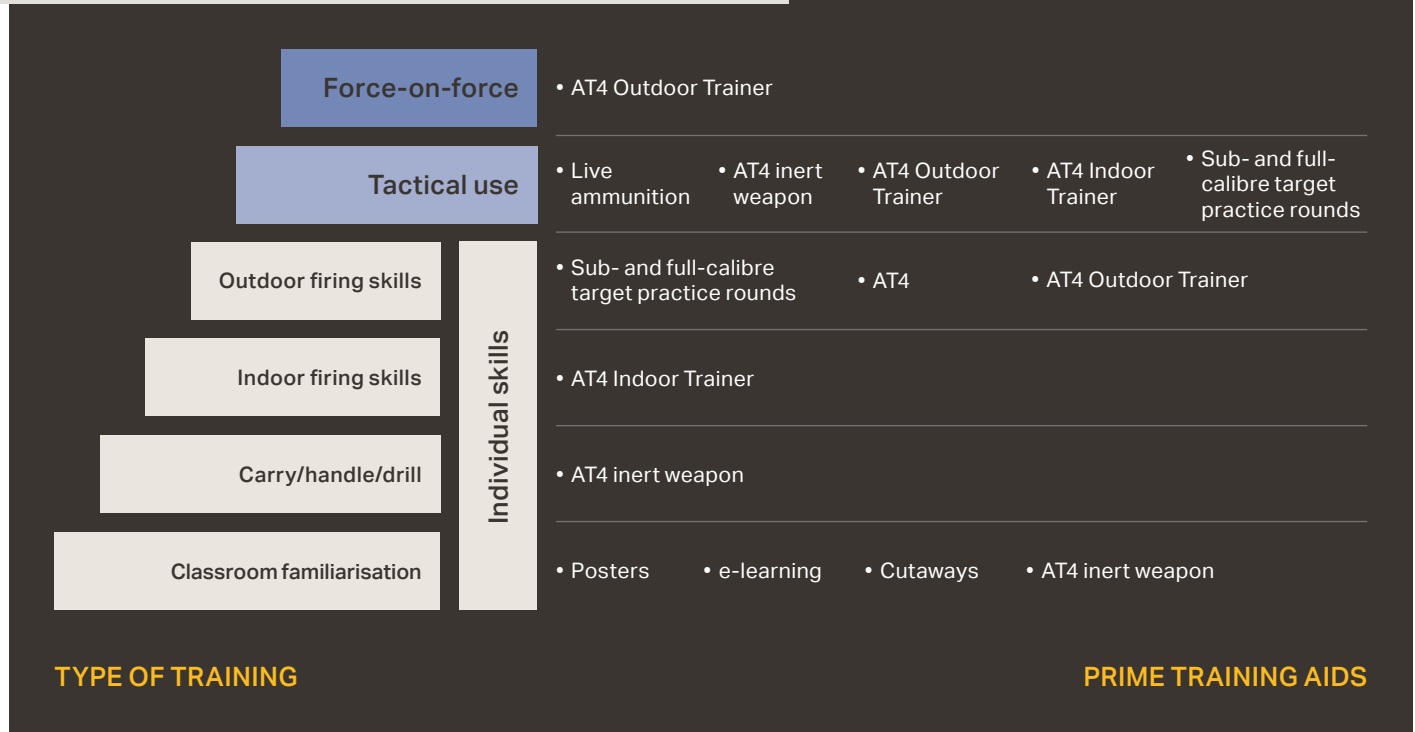
LENGTH	0.98 m
WEIGHT	8.9 kg
TARGETS	Troops in the open or in defilade, and vehicles
RANGES	Integrated sight 400 m point targets 600 m area targets Compatible external sight 600 m point targets 1,000 m area targets



AT4 TRAINING

AT4 weapon systems feature identical handling across the entire range, which ensures minimal training requirements. We provide the full package, including indoor and outdoor training for all AT4 weapon systems.

SAAB'S AT4 SYSTEM TRAINING STAIRCASE



TYPE OF TRAINING

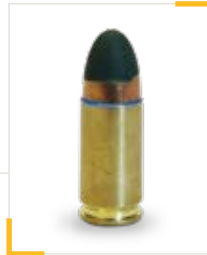
PRIME TRAINING AIDS

AT4 OUTDOOR TRAINER

The AT4 outdoor simulators offer the realism and experience needed to make the right decisions in real combat.

Intuitive and with the correct form, fit and function, they take gunners as close to live firing as they can get.





AT4 B

The AT4 system offers a 9 mm version designed to fully replicate the handling of the real weapon. AT4 B provides realistic handling and target practice training for gunners.

TECHNICAL DATA

LENGTH	0.98 m
WEIGHT	8.9 kg
TRAINING RANGE	300 m





AT4 TP

The AT4 TP provides realistic handling, firing and target practice training for gunners.

TECHNICAL DATA

LENGTH	0.98 m
WEIGHT	8.6 kg
RANGES	Integrated sight 400 m Compatible external sight 600 m



AT4 INDOOR TRAINER

This IDT replicates the AT4 weapon systems' flexible capabilities for a wide range of targets and scenarios.

Available in a studio setup with common screen, stand-alone and networked gunnery units.





CARL-GUSTAF® SYSTEM





The Carl-Gustaf weapon system is an unparalleled and supremely successful solution to the challenges faced by ground forces.

This multi-role system gives dismounted soldiers the ability to deal with multiple challenges on the modern battlefield.

CARL-GUSTAF® WEAPON

The Carl-Gustaf weapon has been designed with soldiers and armed forces in mind, because we understand the need for a smart solution that can handle any tactical scenario.





CARL-GUSTAF M4

The lightweight, multi-role Carl-Gustaf M4 weapon increases tactical flexibility by enabling soldiers to deal with any situation, from neutralising armoured vehicles or enemy troops in defilade, to clearing obstacles and engaging enemies in buildings.

Built with future requirements in mind, the Carl-Gustaf M4 is compatible with advanced fire control devices and programmable ammunition, ensuring your forces have advanced technology at their fingertips.

TECHNICAL DATA

LENGTH	<1 m
WEIGHT	~7 kg
LOGISTIC CONTAINER (PACKED WITH ACCESSORIES)	~22 kg



A soldier in tactical gear is shown from the chest up, wearing a helmet with various attachments, including a night vision device and a microphone. The soldier is holding a Carl Gustaf rifle, which is equipped with a large, circular sight. The background is a solid blue color. The overall image has a blue tint.

CARL-GUSTAF® SIGHTS

The broad offering of sights ensures maximum effect in any tactical situation, with a range of sophisticated options; open sight, red dot sight, telescopic sight and our advanced fire control device, increasing flexibility for the user.

FCD 558

When every shot counts, the Fire Control Device (FCD) 558 provides ground forces with the superior accuracy they need.

Featuring a backlit reticle and an auxiliary red dot sight, the FCD 558 is compatible with all legacy ammunition as well as Firebolt-compatible ammunition. When used with this type of ammunition, the FCD 558 obtains data from the chambered round, such as round type and propellant temperature, and combines this with the target distance entered by the operator to determine the best trajectory, greatly enhancing the likelihood of a first-round hit.



A soldier in white camouflage gear is aiming a Carl-Gustaf weapon in a snowy environment. The soldier is wearing a white helmet with a night vision device and is holding the weapon with both hands. The background is a snowy, rocky terrain.

CARL-GUSTAF® AMMUNITION

The Carl-Gustaf weapon system's combat flexibility comes from its varied range of ammunition, whether you want to destroy a structure or vehicle, or illuminate a tactical area.

All new Carl-Gustaf ammunition is now integrated with Firebolt technology, enabling advanced two-way communication capabilities.

84 MM HEAT 551

The rocket-assisted HEAT 551 allows dismounted soldiers to defeat the majority of armoured vehicles and MBTs in side or rear aspect.

TECHNICAL DATA

WEIGHT	3.2 kg
TARGETS	Armoured vehicles and MBTs
EFFECTIVE RANGE	700 m



84 MM HEAT 551C RS

The rocket-assisted HEAT 551C RS is an evolution of the HEAT 551, with improved insensitive munition properties and significant behind-armour effect.

It can defeat the majority of armoured vehicles and MBTs in side or rear aspect.

TECHNICAL DATA

WEIGHT	3.5 kg
TARGETS	Armoured vehicles and MBTs
EFFECTIVE RANGE	700 m





84 MM HEAT 751

The tandem warhead of the HEAT 751 neutralises the effect of explosive reactive armour (ERA) tiles fitted to a target.

It then initiates the HEAT warhead to penetrate the target's main armour.

TECHNICAL DATA

WEIGHT	3.8 kg
TARGETS	Armoured vehicles and MBTs with ERA
EFFECTIVE RANGE	>500 m



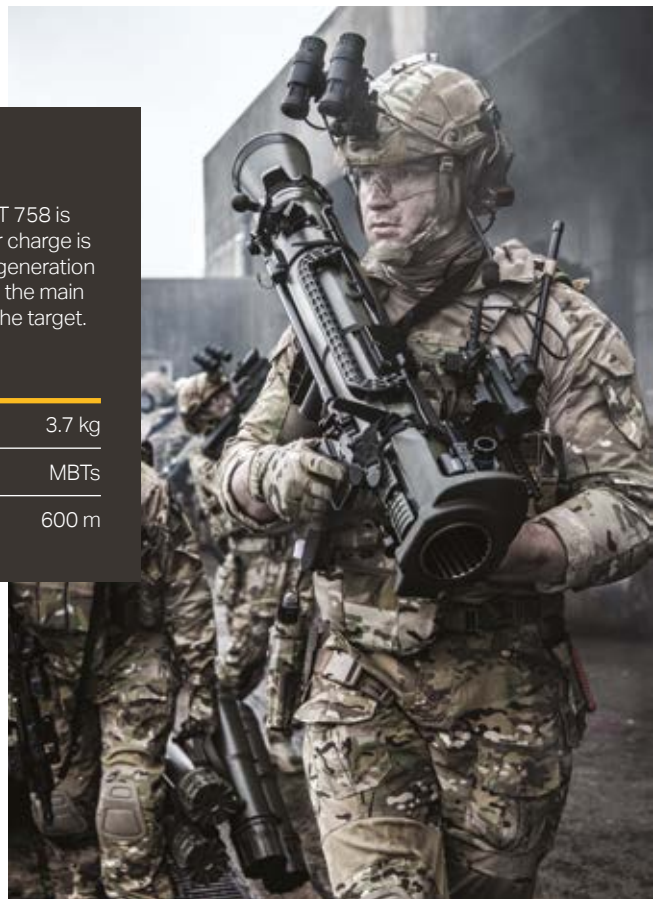


84 MM HEAT 758

The advanced tandem warhead of the HEAT 758 is optimised for all armour types. Its precursor charge is engineered to neutralise the impact of any generation of explosive reactive armour (ERA), allowing the main charge to deliver its desired effect against the target.

TECHNICAL DATA

WEIGHT	3.7 kg
TARGETS	MBTs
EFFECTIVE RANGE	600 m



84 MM ASM 509

The enhanced explosive of the ASM 509 neutralises enemy troops in buildings and structures through high-pressure blast effects.

The round can be fired in two modes: Impact Mode (I) for engaging targets inside caves or internal structures, or Delay Mode (D) for defeating enemies when openings are covered by doors and windows.

TECHNICAL DATA

WEIGHT	4.2 kg
TARGETS	Structures and enemies protected by structures
EFFECTIVE RANGE	300 m





84 MM MT 756

The tandem warhead of the MT 756 neutralises enemy troops inside a building or behind a structure.

It can also take out light-armoured vehicles.

TECHNICAL DATA

WEIGHT	4.4 kg
TARGETS	Structures, bunkers and light-armoured vehicles
EFFECTIVE RANGE	300 m



84 MM HEDP 502/502 RS

This fin-stabilised, high-explosive, dual-purpose round is optimised for fighting in built-up areas.

It is as effective against armoured vehicles as it is against enemies protected by structures like sandbag, brick and wooden walls.

The round has both an impact and a delay mode.

TECHNICAL DATA

WEIGHT	3.3 kg
TARGETS	Armoured vehicles, and enemies protected by structures and bunkers
EFFECTIVE RANGE	300 m



84 MM HE 448

The HE 448 is a powerful, high-explosive round that levels up ground forces' effectiveness against enemies wearing body armour. Integrated with Firebolt technology, the munition shares ballistics, range, and temperature data with the weapon and the fire control device for increased precision.

The multi-role fuze can be used in direct-fire mode or in airburst mode. It contains more than 4,000 tungsten pellets, which greatly improves the effectiveness of every shot.

TECHNICAL DATA

WEIGHT	2.7 kg
PAYLOAD	>4,000 tungsten pellets
TARGETS	Protected and unprotected enemies, and soft-skinned targets, including vehicles
EFFECTIVE RANGE	1,500 m



84 MM HE 441D/441D RS

The HE 441D provides the infantry squad with its own artillery firepower to suppress or defeat enemy troops at range, using either impact or airburst initiation of the warhead.

The simple setting of a desired airburst range on the fuze improves warhead effectiveness against enemy troops behind cover or in trenches.

TECHNICAL DATA

WEIGHT	3.2 kg
PAYLOAD	800 steel balls
TARGETS	Troops in the open or in defilade, and soft-skinned vehicles
RANGES	1,300 m point targets 1,250 m area targets



84 MM ADM 401

The ADM 401 combats enemy troops in the open and soft-skinned vehicles by launching a cluster of flechettes.

It is ideal for close-combat area defence.

TECHNICAL DATA

WEIGHT	2.7 kg
TARGETS	Enemy troops in the open and soft-skinned vehicles
EFFECTIVE RANGE	100 m

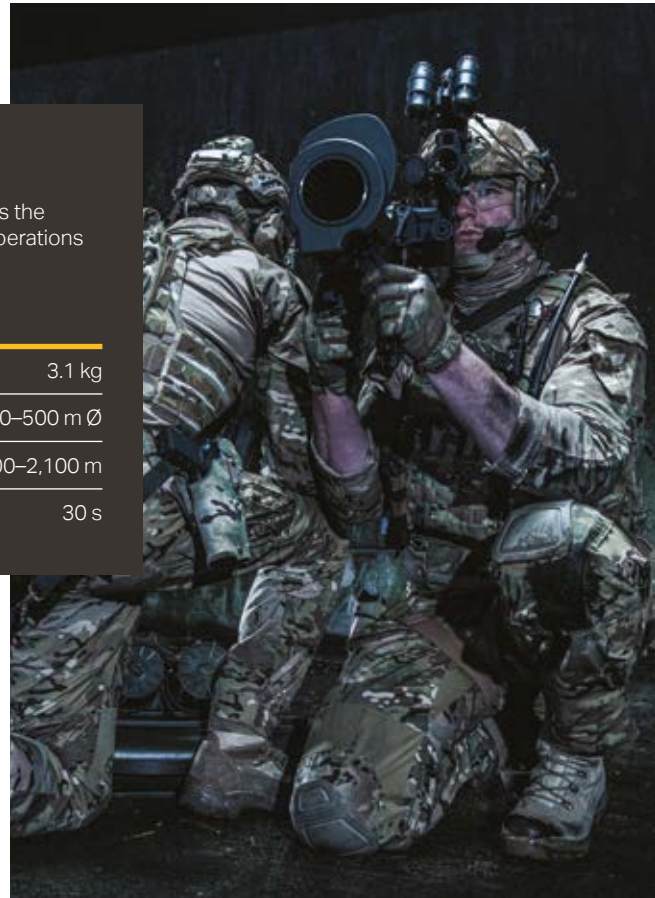


84 MM ILLUM 545C

The ILLUM 545C offers dismounted troops the ability to illuminate the battlefield during operations in the dark.

TECHNICAL DATA

WEIGHT	3.1 kg
ILLUMINATED AREA	400–500 m Ø
EFFECTIVE RANGE	300–2,100 m
ILLUMINATION TIME	30 s



84 MM SMOKE 469C

The SMOKE 469C is an effective tool for blinding and screening targets, and for spotting missions.

The round provides a significant amount of instant smoke upon impact.

TECHNICAL DATA

WEIGHT	3.1 kg
EFFECTIVE RANGE	1,300 m



A photograph of two soldiers in full combat gear, including helmets with night vision and communication equipment, in a forest setting. One soldier is holding a Carl-Gustaf rifle. The background shows a dense forest with tall trees and a blurred vehicle in the distance.

CARL-GUSTAF® TRAINING

Carl-Gustaf training systems prepare forces for any situation. Sub-calibre trainers and full-calibre practice rounds and simulators are included to ensure all training requirements are met.

TRAINING

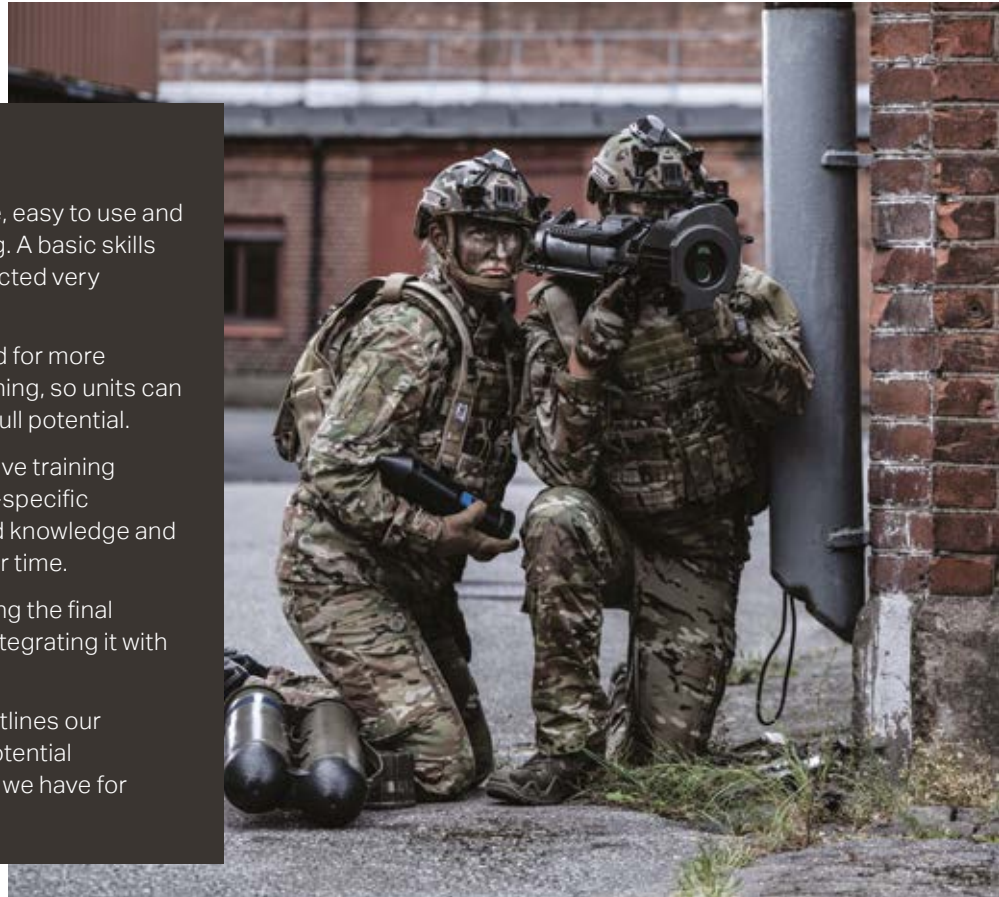
The Carl-Gustaf system is intuitive, easy to use and requires limited basic skills training. A basic skills training programme can be conducted very cost effectively.

We understand that there is a need for more advanced and collective skills training, so units can use the Carl-Gustaf system to its full potential.

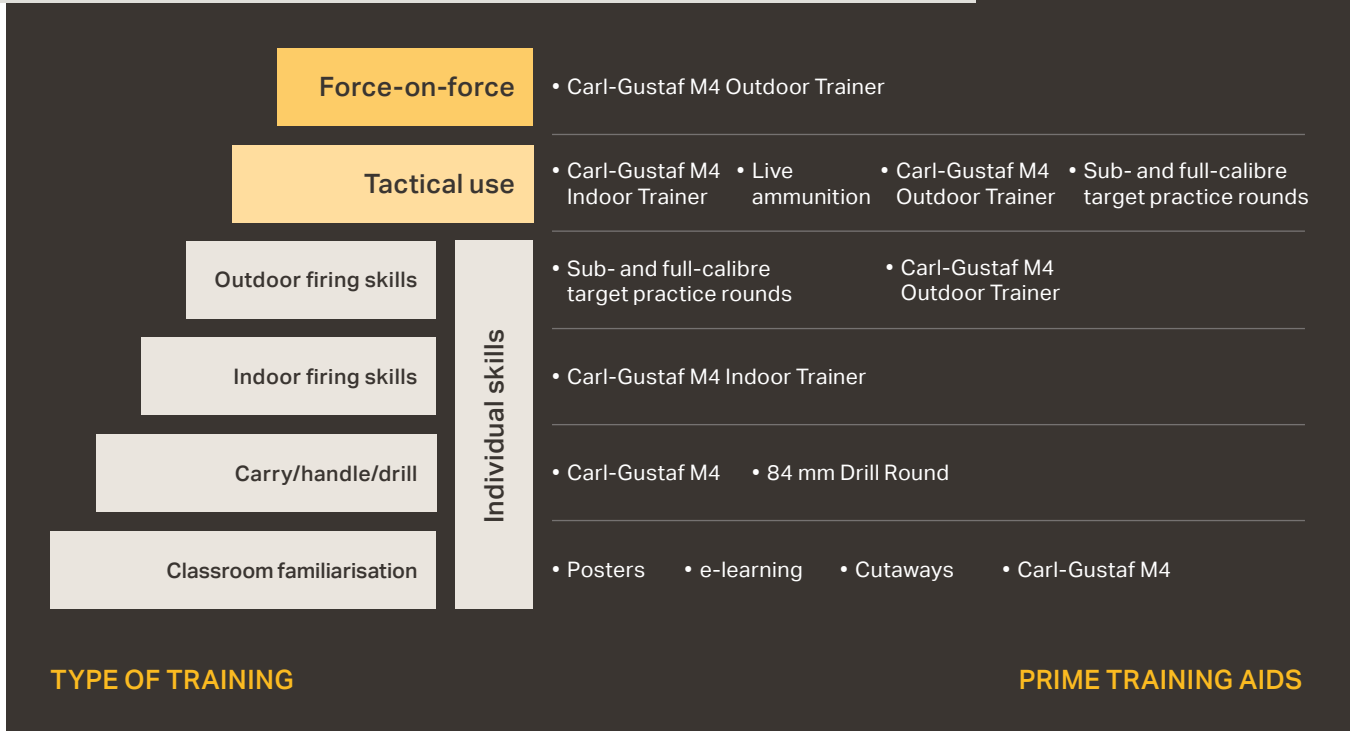
Therefore, we offer a comprehensive training package, tailored to different user-specific conditions, to achieve the required knowledge and skills, as well as maintain them over time.

We also offer our support in tailoring the final training solution and, if required, integrating it with other in-service training systems.

The following training staircase outlines our offer, providing an overview of a potential training programme and what aids we have for different situations.



SAAB'S CARL-GUSTAF SYSTEM TRAINING STAIRCASE



CARL-GUSTAF M4 INDOOR TRAINER

The M4 IDT supports training, from basic gunnery to complex combat-like scenarios.

Available in a studio setup with common screen, stand-alone and networked gunnery units.



7.62 MM SUB-CALIBRE ADAPTER 553B

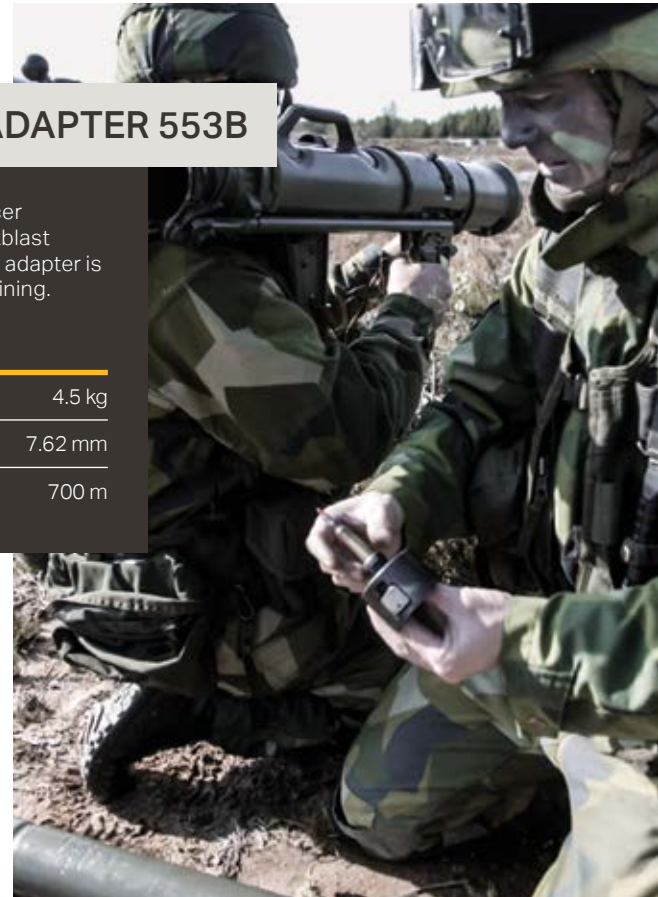
With its specially designed 7.62 mm tracer ammunition and the ability to use a backblast simulation charge, the sub-calibre 553B adapter is a cost-effective solution for gunnery training.

TECHNICAL DATA

WEIGHT	4.5 kg
CALIBRE	7.62 mm
TRAINING RANGE	700 m



1. 7.62x51 mm Practice Tracer 553
2. Cap with holder 553B
3. Backblast Charge 553B



20 MM SUB-CALIBRE ADAPTER

The 20 mm sub-calibre adapter training system provides realistic handling and target practice training for gun crews.

TECHNICAL DATA

WEIGHT	4.5 kg
CALIBRE	20 mm
TRAINING RANGE	300 m



84 MM TPT 141

The full-calibre target practice tracer (TPT) inert warhead, with live propulsion, is a cost-effective training solution, offering all the firing properties of Carl-Gustaf ammunition.

It is fitted with a tracer that is visible throughout its trajectory.

TECHNICAL DATA

WEIGHT	2.5 kg
TRAINING RANGE	300 m





84 MM TP 552

The full-calibre target practice (TP) inert warhead provides cost-effective training for firing Carl-Gustaf rocket-assisted ammunition.

TECHNICAL DATA

WEIGHT	3.2 kg
TRAINING RANGE	700 m



CARL-GUSTAF OUTDOOR TRAINER

The Carl-Gustaf outdoor versions place soldiers as close to live firing as they can get. A detailed ballistics table with a temperature index replicates live ammunition behaviour.

The solutions include procedural and realistic gunner and loader training, and can use HE ammunition to train airbursts on multiple targets.





CARL-GUSTAF® SUPPORT

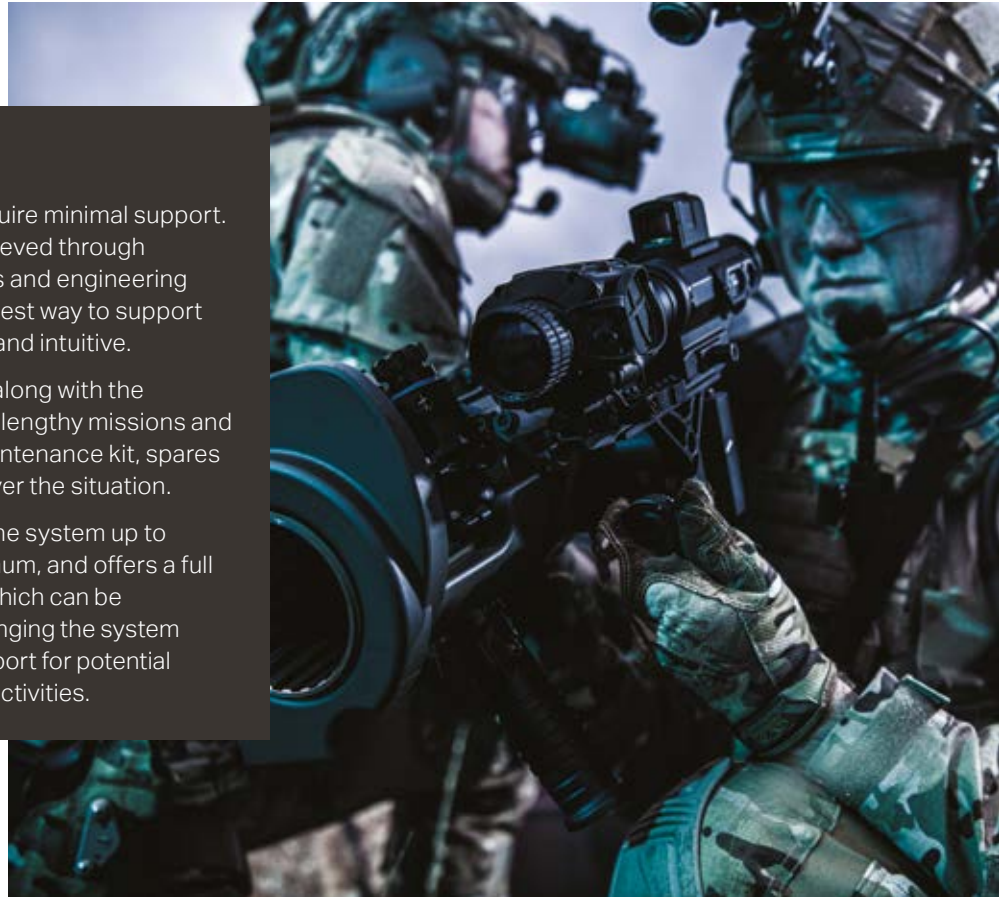
Support doesn't stop after procurement of the Carl-Gustaf system. As with the AT4 and N LAW weapon systems, we ensure users of Saab's Ground Combat systems benefit from ongoing support. This includes train the trainer and maintenance courses for all products, as well as system development and updates as global requirements evolve over generations of product iterations.

SUPPORT

The Carl-Gustaf is designed to require minimal support. Integrated logistics support is achieved through both close co-operation with users and engineering based on the philosophy that the best way to support troops is to keep solutions simple and intuitive.

The weapon is delivered in a case along with the necessary accessories to support lengthy missions and peacetime training, including a maintenance kit, spares and the tools to keep going whatever the situation.

Saab has the experience to keep the system up to date and life cycle costs to a minimum, and offers a full in-service support (ISS) package, which can be tailored as required. This covers bringing the system into service, refresher training, support for potential upgrades, and end-of-service-life activities.





NLAW

Known as a true tank killer, the NLAW gives infantry troops the advantage over armoured vehicles in all environments, including built-up areas.

A soldier in full combat gear, including a helmet with night vision and a large backpack, is aiming a Next-Generation Anti-Air Weapon (NLAW) from a high vantage point. The soldier is wearing a camouflage uniform and a helmet with various attachments. The NLAW is a large, cylindrical weapon mounted on a tripod. The soldier is looking through the weapon's sights. The background shows a metal structure and a yellow safety mat.

NLAW WEAPON

The NLAW gives soldiers the ability to single-handedly destroy even the most advanced tank by striking at its weakest point.



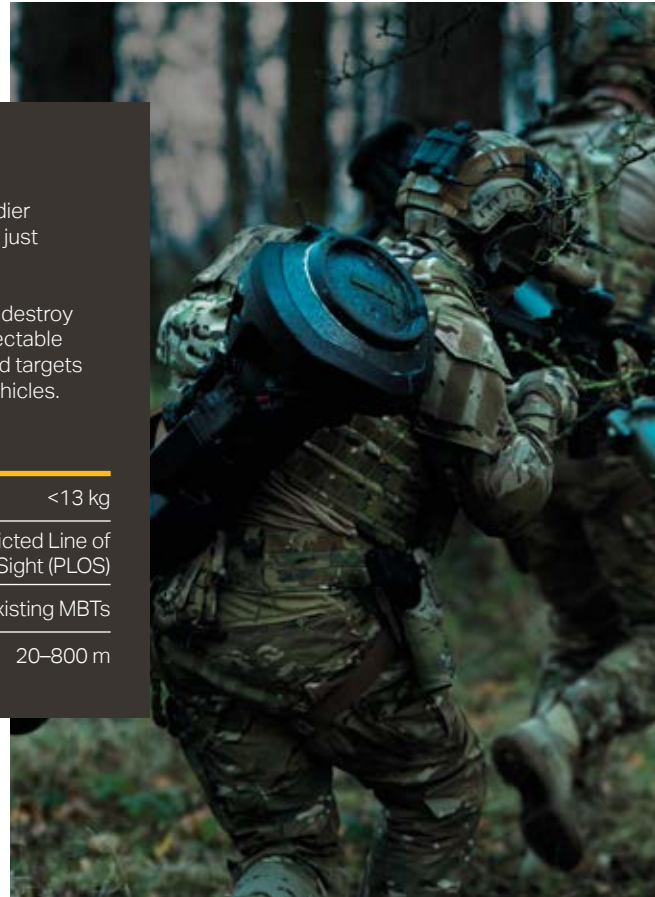
NLAW

The NLAW is a fire-and-forget, single-soldier missile system that defeats any MBT with just one shot, by striking it from above.

The NLAW empowers troops to stop and destroy almost any target in one shot, with its selectable Overfly Top Attack (OTA) against armoured targets and Direct Attack (DA) for soft-skinned vehicles.

TECHNICAL DATA

WEIGHT	<13 kg
GUIDANCE PRINCIPLE	Predicted Line of Sight (PLOS)
TARGETS	All existing MBTs
EFFECTIVE RANGE	20–800 m

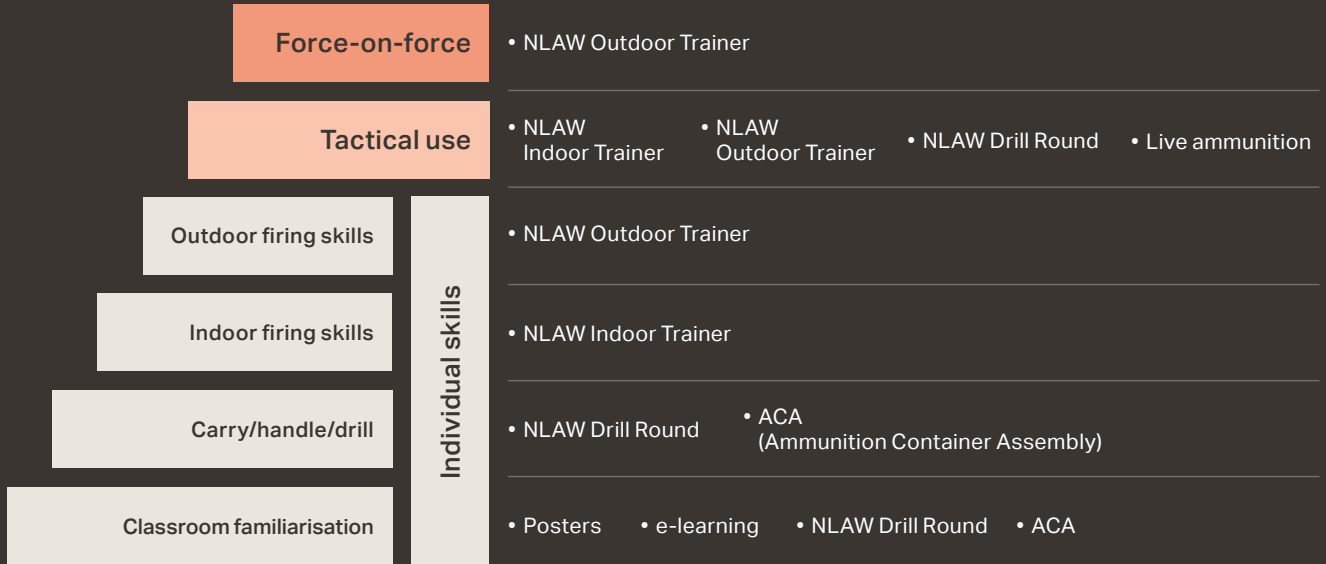




NLAW TRAINING

The NLAW is a true tank killer that requires minimal gunnery training to prepare soldiers to use it safely and accurately when moving into combat.

SAAB'S NLAW SYSTEM TRAINING STAIRCASE



TYPE OF TRAINING

PRIME TRAINING AIDS

NLAW INDOOR TRAINER

An exact replica of the NLAW, this IDT offers training with the lightweight, portable system that is best-in-class for dismounted forces operating in all environments, including built-up areas.

With a mixture of easy handling, superb accuracy and power, it trains the operator to eliminate the most advanced tanks.

Available in a studio setup with common screen, stand-alone and networked gunnery units.



NLAW OUTDOOR TRAINER

An exact replica of the NLAW, this solution ensures realistic training with outstanding effects, including weapon properties such as Predicted Line of Sight (PLOS).

The simulator accurately replicates the missile characteristics based on the gunner's performance, and senses the chosen attack mode (Overfly Top or Direct Attack) for the right trajectory and missile behaviour.





Firepower, flexibility and easy handling empower individual soldiers and entire battle forces to take charge in challenging situations. With Saab as your partner, you can maintain superiority in ground combat – today and tomorrow.

saab.com/groundcombat



SAAB