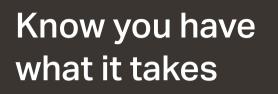


**HANDBOOK** 

**EDITION 4.0** 



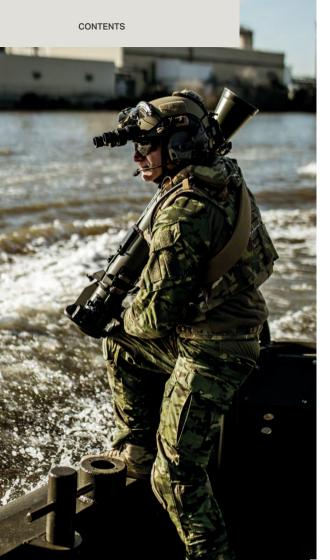


Whether for the soldier or armed forces, one thing is vital – confidence in your equipment.

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

With our systems by your side, you can be in no doubt that you have what it takes in any situation.





### AT4 FAMILY

AT4 WEAPON AT4 TRAINING

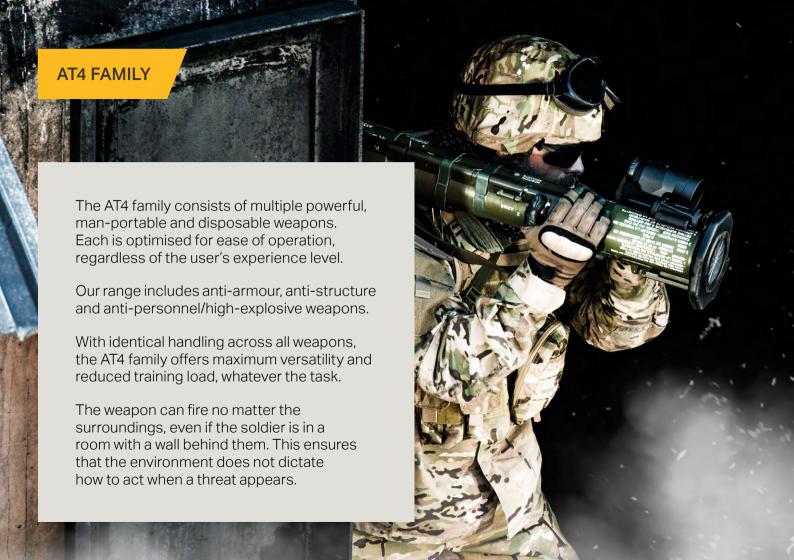
### CARL-GUSTAF® SYSTEM

CARL-GUSTAF® WEAPON
CARL-GUSTAF® SIGHTS
CARL-GUSTAF® AMMUNITION
CARL-GUSTAF® TRAINING
CARL-GUSTAF® SUPPORT

### NLAW

NLAW WEAPON NLAW TRAINING











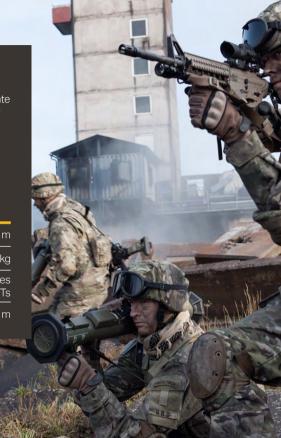


### AT4CS RS

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.

LENGIH	1.04 m
WEIGHT	8 kg
TARGETS	Armoured vehicles and MBTs
FEFECTIVE RANGE	300 m





### AT4CS ER

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

As with most AT4 family weapons, it comes with an integrated red dot sight and additional bracket system.

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

AT4CS AST has confined-space capability as well as an integrated red dot sight and additional bracket system.

The AT4CS AST is a weapon optimised for urban combat, capable of defeating multiple target types as well as creating new entry points into buildings.

LENGTH	0.98 m
WEIGHT	9.3 kg
TARGETS	Personnel behind or in structures and bunkers. 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.

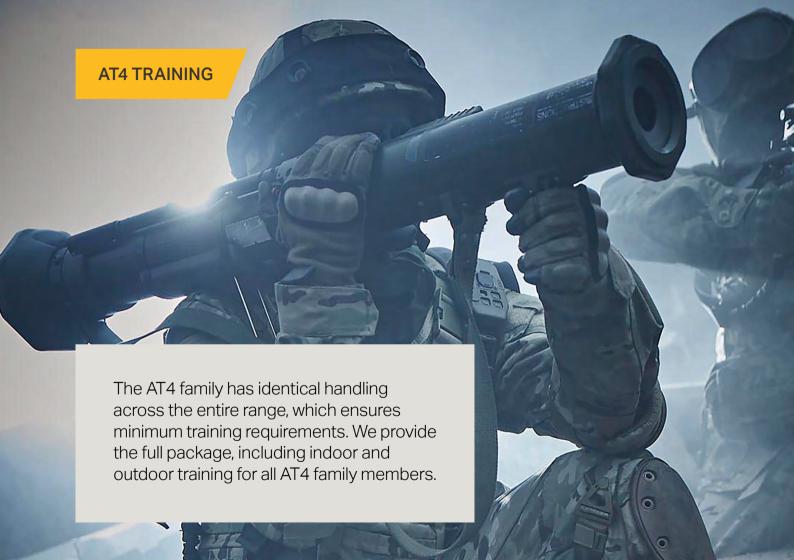
Airburst mode for defeating troops behind cover or in trenches is possible using a compatible external sight mounted to the weapon.

### **TECHNICAL DATA**

LENGIH	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





### SAAB'S AT4 SYSTEM TRAINING STAIRCASE



### AT4 OUTDOOR TRAINER

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

Transparent and with the correct form, fit and function, 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.

LENGTH	0.98 m
WEIGHT	8.9 kg
TRAINING RANGE	300 m









### AT4 INDOOR TRAINER

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

Available as studio with common screen, stand-alone and networked gunnery units.















### **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.

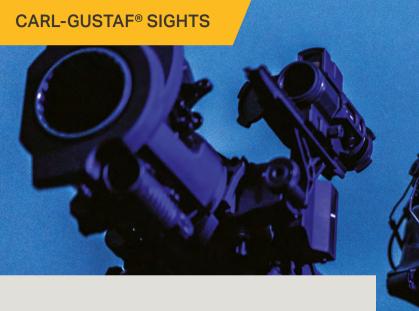
### **TECHNICAL DATA**

LENGTH	< 1 m
WEIGHT	~ 7 kg

LOGISTIC CONTAINER
(PACKED WITH ACCESSORIES)

~ 22 kg





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 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.

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









# 84 mm HEAT 551C I

### 84 MM HEAT 551C RS

The rocket-assisted HEAT 551C RS is an evolution of 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 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
 700 m



### 84 mm HEAT 655 CS

### 84 MM HEAT 655 CS

HEAT 655 CS is designed to allow the soldier to engage armoured vehicles and MBTs in side or rear aspect from confined spaces during urban warfare in built-up areas.

The warhead creates high penetration in combination with a devastating behind-armour effect.

### **TECHNICAL DATA**

**EFFECTIVE RANGE** 

WEIGHT	4.8 kg
TARGETS	Armoured vehicles and MBTs







### 84 MM ASM 509 The enhanced explosive of 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 destroying walls or light-armoured vehicles, or Delay Mode (D) for defeating enemies behind walls or fortifications. **TECHNICAL DATA** WEIGHT 4.2 kg Structures and enemies **TARGETS** protected by structures **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 sandbags, 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



## m HE 448

### 84 MM HE 448

HE 448 is a powerful high-explosive round that levels up ground forces' effectiveness against enemies wearing body armour. As with the FCD 558, with which it can exchange information, it also benefits from using advanced fire control devices.

The multi-role fuze can be used in direct-fire mode or in airburst mode. Compared to its predecessor, which contained 800 steel balls, the HE 448 contains around 4,000 tungsten pellets, greatly improving the effectiveness of every shot.

### **TECHNICAL DATA**

WEIGHT

TARGETS

Protected and unprotected enemies, and soft-skinned targets, including vehicles

**EFFECTIVE RANGE** 

1,500 m

2.7 kg



### 84 MM HE 441D/441D RS

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.

WEIGHT	3.2 kg
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

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**

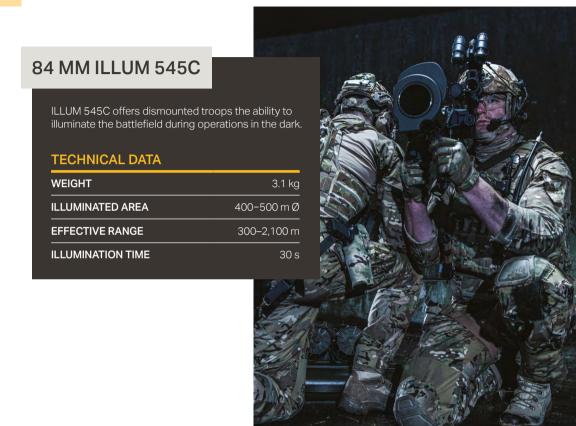
**EFFECTIVE RANGE** 

WEIGHT Enemy troops in the open **TARGETS** 

and soft-skinned vehicles















## **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 the skills over time.

We also offer our support in tailoring the final training solution and, if required, integration 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



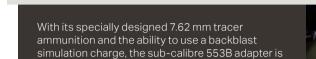
## **CARL-GUSTAF M4 INDOOR TRAINER**

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

Available as studio with common screen, stand-alone and networked gunnery units.







a cost-effective solution for gunnery training.

7.62 MM SUB-CALIBRE ADAPTER 553B

#### **TECHNICAL DATA**

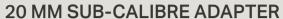
TRAINING RANGE

 WEIGHT
 4.5 kg

 CALIBRE
 7.62 mm







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









# 84mm TPT 141

## 84 MM TPT 141

The full-calibre target practice tracer inert round 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**

TRAINING RANGE 300 m





# 84 MM TP 552

The full-calibre target practice inert round provides cost-effective training for firing Carl-Gustaf rocket-assisted ammunition.

#### **TECHNICAL DATA**

WEIGHT

TRAINING RANGE



## **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.





#### **SUPPORT**

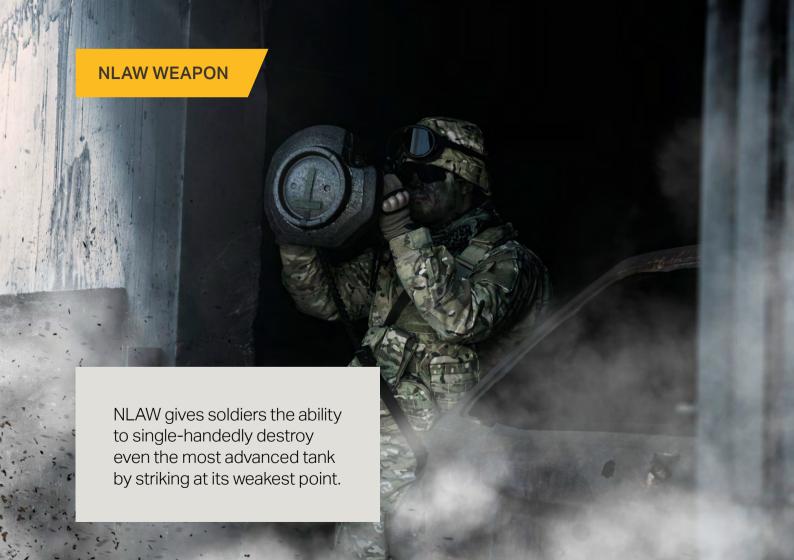
The Carl-Gustaf is designed to require minimal support. Integrated logistics support is achieved through both close co-operation with users and engineering based on the philosophy that the best way to support troops is to keep solutions simple and intuitive.

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, refreshment training and support for potential upgrades, through to what is needed at end of service life.









## **NLAW**

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

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
RANGE	 20–800 m





**TYPE OF TRAINING** 

PRIME TRAINING AIDS

#### SAAB'S NLAW SYSTEM TRAINING STAIRCASE Force-on-force • NLAW Outdoor Trainer • NLAW • NLAW Tactical use • NLAW drill round Live ammunition Indoor Trainer **Outdoor Trainer** NLAW Outdoor Trainer Outdoor firing skills Individual skills Indoor firing skills NLAW Indoor Trainer • ACA Carry/handle/drill NLAW drill round (Ammunition Container Assembly) Classroom familiarisation e-learning • NLAW drill round • ACA Posters

## **NLAW INDOOR TRAINER**

This IDT of an exact replica 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 as studio with common screen, stand-alone and networked gunnery units.



# **NLAW OUTDOOR TRAINER**

An exact replica of NLAW, the 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.

