CATEGORY **MANPADS**
GUIDANCE **LASER-BEAM RIDER**
FEATURE **UNJAMMABLE**

RBS 70 **SHORT RANGE** AIR DEFENCE MISSILE SYSTEM

The RBS 70 Short Range Air Defence Missile System is from the beginning designed with integrated IFF functions and interface for full integration into a C3I system via a weapon terminal, optimizing system performance. RBS 70 can also be operated as autonomous firing units.

Although it is man-portable, the RBS 70 can easily be integrated on a vehicle.

Unjammable guidance
The RBS 70 unjammable and accurate guidance system is uniquely suited for deployment from sites of opportunity such as rooftops in urban areas. The guidance is unaffected by target background such as heat sources and ground clutter.

All functions for target engagement are completely unjammable, providing full system performance in all tactical situations, day or night.

All-target missile
The laser beam-riding BOLIDE missile provides true all-target capability. One firing unit can effectively engage many targets in a flight formation, before the enemy has time to employ their weapons, due to the large effective-protected area and short re-engagement time.

4th Generation
Besides the new BOLIDE missile, the 4th generation of RBS 70 incorporates the BORC Night Sight (thermal imager), a digital IFF Interrogator, an external power supply and a PC-based Classroom Trainer.

A complete firing unit is self-sufficient and requires only batteries to supply power. Since a battery pack lasts for more than 100 firings, the need for logistic support is minimal.

RBS70 CHARACTERISTICS

- In its basic man-portable configuration the RBS 70 comprises stand, sight and missile in container.
- Optional subsystems are IFF Interrogator, Target Data Receiver and BORC Night Sight.

In a complete system configuration several fire units can be connected to a surveillance radar enabling all C4I functions. Automatic threat evaluation is a part of the combat control also at firing unit level. If RBS 70 is not interfaced with a surveillance radar it can of course operate autonomously.

Laser-beam guidance provides short reaction times and head-on capability with high accuracy and high kill probability at long range, down to the lowest possible altitude.

The high system reliability of 94% has been verified by more than 1,600 live firings. The recognized high system quality ensures that maintenance costs are low.

BOLIDE MISSILE

- With the new BOLIDE missile the RBS 70 system can defeat a wide range of targets, including ground and surface targets.
- BOLIDE has an intercept range of 8,000 m and altitude coverage of more than 5,000 m.

BOLIDE´s adaptive laser-operated proximity fuse function, with forward directed lobes, optimises the effect against different targets including small targets, such as cruise missiles and UAVs. The proximity fuse can be used in three different modes:

- Normal – against aircraft and helicopters
- Small target – against e.g. cruise missiles
- Off – where proximity fuse is inactivated.

The missile's combined warhead, with more than 3,000 tungsten pellets and a shaped charge function, provides a high kill probability against any aerial threat. BOLIDE is maintenance free for more than 15 years and has, after a mid-life overhaul, at least an additional 15 years of operational life.

TRAINING SYSTEM

- The state-of-the-art RBS 70 Simulator (Classroom Trainer) provides effective training and after just a few hours of training the missile operator has the ability to engage challenging threats.

With the RBS 70 Simulator different tactical situations or environmental effects can be trained, including IFF interrogation, radar cueing and night combat scenarios.

For training purposes, an external power supply is available as well as a video recording attachment for evaluation of live firings.

TECHNICAL INFORMATION

Guidance method	Laser beam-riding missile
Effective intercept range	200 to more than 8,000 m
Altitude coverage	Ground to more than 5,000 m
Target types	Fighter aircraft, Helicopter, Transport aircraft, UAV, Cruise Missiles and lightly armoured ground targets.
Launch velocity	50 m/s
Max velocity	Mach 2 (5 km in 12 seconds)
Propulsion	Booster and sustainer motor with low-smoke propellant
Warhead	Combined with >3,000 tungsten spheres and shaped charge
Fuses	Adaptive proximity fuse function with 3 selectable modes + Impact fuse
Deployment time	30 sec (from being carried)
Reloading time	<7 sec
BORC Night Sight	
Type	Thermal Imager
Wavelength	8 to 12 (LWIR)
Detector	FPA QWIP
IFF Type	Mode 3 and 4 (Mk XXII STANAG 4193), prepared for Mode 5. Automatic queries
Combat control	Target cueing from radar or command post to operator´s head-set via Target Data Receiver (Weapon Terminal)

Specifications subject to change without notice

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