



PRECISION FIREPOWER

OERLIKON SKYRANGER® 30

LIGHT MULTI-ROLE AIR DEFENCE SYSTEM FOR PIRANHA

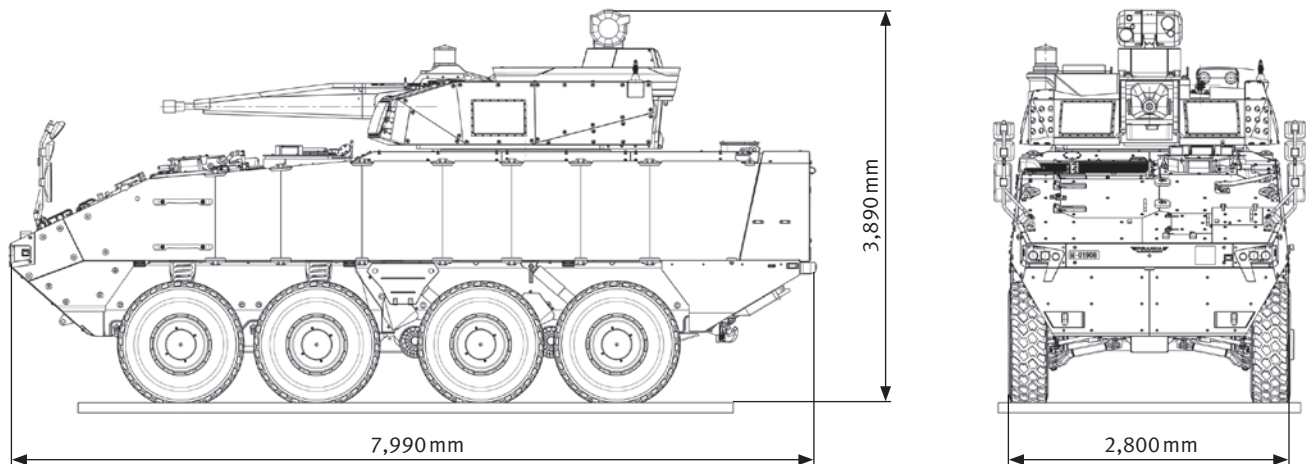
This highly mobile air defence system with integrated active search and passive tracking sensors is a powerful, autonomous shooter with both gun and missiles. It is capable of engaging modern battlefield threats, with a special focus on small unmanned aerial targets. It combines superior firepower with the dynamics and elevation needed to successfully engage highly agile single or swarming targets performing loiter, pop up or dive attacks.

The Oerlikon Skyranger® 30 continuously monitors the surrounding air space with active 3D AESA radar. In addition to its own air picture, targets from external search radars or higher order control systems can be received and processed. The integrated fully stabilized, high-resolution electro-optical sensor unit allows reliable target tracking and visual identification. The high level of automatization makes the Skyranger 30 effective and easy to use.

The integrated 30 mm x 173 Oerlikon Revolver Cannon® KCE-ABM provides best of class firepower and accuracy. Combined with the Oerlikon Air Burst Munition (ABM) technology, the gun achieves a high hit probability against the smallest targets. To achieve longer ranges, VSHORAD missiles are integrated. The remote controlled gun turret has no turret basket and can easily be mounted on current in service 6x6, 8x8 or tracked vehicles.

MAIN FEATURES

- Integrated 360° AESA search radar
- Fully stabilized electro-optical tracking unit
- Remote controlled gun/missile turret
- Effective range: up to 3,000 m, with missile 6,000 m
- 30 mm Oerlikon Revolver Cannon® KCE-ABM
- 30 mm x 173 Air Burst Ammunition
- Nominal rate of fire: 1,250 rds/min
- Rapid single shot mode: 200 rds/min
- Ready to fire ammunition: up to 300 rds
- 2–4 integrated VSHORAD missiles
- Ku-band tracking radar (optional)
- Directional IFF (Mode 5)
- Ballistic protection: up to level 4 (STANAG 4569) for crew
- 2 x 10 Rosy Smoke Grenade Launchers (optional)
- Two operator consoles in vehicle (commander/gunner)
- Oerlikon Skymaster® battle management software
- Easy handling and maintenance thanks to modern HMI concept



Integration of Oerlikon Skyranger® 30 shown on GDELS-Mowag Piranha 4

TECHNICAL CHARACTERISTICS

Cannon

Cannon type	Oerlikon Revolver Cannon® KCE-ABM
Calibre	30 mm x173
Nominal rate of fire	1,250 rounds/min
Rapid single shot	200 rounds/min
Mean muzzle velocity ABM (V_0)	1,065 m/s
Mean muzzle velocity full calibre (V_0)	1,065 m/s
Length of cannon with muzzle base	2,941 mm
Barrel length (80 cal.)	2,126 mm

Ammunition

Types (NATO code)	
Programmable type	ABM (KETF)
Standard types	TP-T
Number of linked rounds ready to fire	up to 300

VSHORAD missiles

Number of missiles ready to fire	2–4
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Gun turret

Weight without ammunition	3,600 kg
Weight with 300 rds. 30 mm and 4 missiles	4,000 kg
Weight reduced version (<3.0t) available for 6 x 6 vehicles	
Swept radius (barrel 0°)	3,435 mm

Traverse arc	n x 360°
Elevation arc	-5° to +85°

Search sensors

3D AESA search radar, X-band or S-band	
Instrumented range	20 km
Spatial coverage	360°, -5°... +70°

Electro-optical sensor package

TV camera	BW or color, ≥HD, 1°... 30°
IR camera	Cooled MW, HD, 1.3°/4.6°/21.8°
Laser rangefinder	Eye safe class 1/1M, ≥5 Hz, 20 km
Video tracker	Optimized for air targets
EO sensor motion vs. gun turret	n x 360°, -15°...+85°

Tracking radar (option)

Radar type	Ku-band, monopulse, solid state
Instrumented range	35 km

Fire control

Automatic target detection, acquisition and tracking
Search and track on the move
KCE and VSHORAD missile engagement control

Operation, C2 Interface

2 operator consoles in vehicle (commander, gunner)
Skymaster console/C2 Interface

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