



PRECISION FIREPOWER

OERLIKON SKYRANGER® 30 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 30mm 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 3,000m, with missile 6,000m
- 30mm Oerlikon Revolver Cannon® KCE-ABM
- 30mm x 173 Air Burst Ammunition
- Nominal rate of fire: 1,250 rds/min
- Rapid single shot mode: 20 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 4 569) for crew
- 2x 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

TECHNICAL CHARACTERISTICS	
Cannon	
Cannon type	Oerlikon Revolver Cannon® KCE-ABM
Calibre	30mmx173
Nominal rate of fire	1,250 rounds/min
Rapid single shot	200 rounds/min
Mean muzzle velocity ABM (V_0)	1,065m/s
Mean muzzle velocity full calibre (V_0)	1,065m/s
Length of cannon with muzzle base	2,941mm
Barrel length (8ocal.)	2,126mm
Ammunition	
Types (NATO code)	
Programmable type	ABM (KETF)
Standard types	TP-T up to
Number of linked rounds ready to fire	300
VSHORAD missiles	
Number of missiles ready to fire	2 – 4
Gun turret	
Weight of gun turret with ammunition	<4,000kg
Swept radius (barrel o°)	3,435mm
Traverse arc	n x 360°
Elevation arc	–5° to +85°

Search sensors	
3D AESA search radar, X-band or S-band	
Instrumented range	20km
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, ≥5Hz, 20km
Video tracker	Optimized for air targets
EO sensor motion vs. gun turret	nx360°, –15° ... +85°
Tracking radar (option)	
Radar type	Ku-band, monopulse, solid state
Instrumented range	35km
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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