



# OERLIKON SKYRANGER® GUN

## MOBILE 35 MM AIR DEFENCE GUN

This highly mobile 35 mm air defence system with integrated radar tracker and electro-optical sensor unit is a powerful, autonomous shooter capable of being used in various kinds of missions and on different types of platforms.

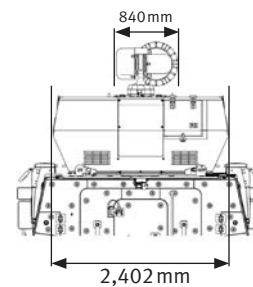
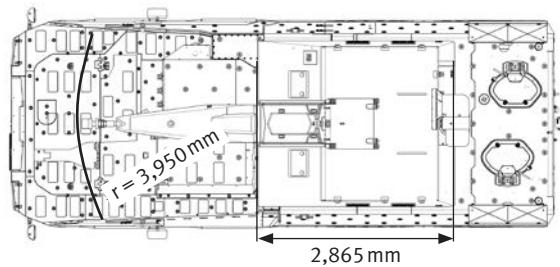
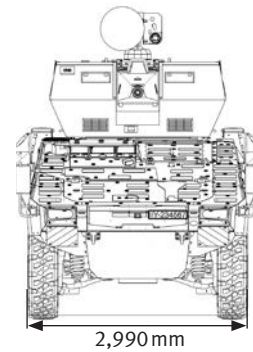
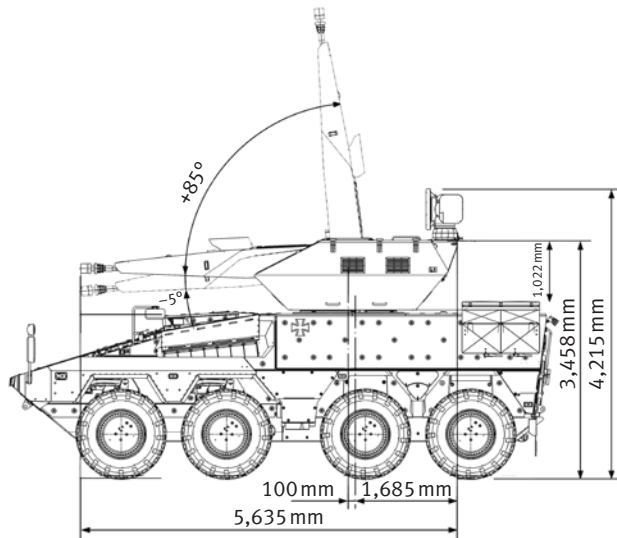
The Oerlikon Skyranger® Gun can receive and process target data from external search radars or higher order control systems. In addition AESA search radars can be integrated into the turret. The tracking radar's automatic search pattern makes target handover simple, fast and reliable and the electro-optical sensor unit enables visual target identification. Engagement supervision is performed from two redundant operator consoles for the commander and the gunner inside the vehicle. Due to the high level of automatization the operation of the Skyranger gun is simple and effective.

The integrated 35 mm Oerlikon Revolver Cannon® provides superior fire power and accuracy. Combined with the Oerlikon Ahead® air burst ammunition the gun achieves a high effectiveness against both conventional and emerging air threats, including low, slow and small (LSS), UAV, rocket and missile targets. Due to its modularity the 35 mm gun turret and additional system modules can easily be integrated into different types of wheeled or tracked vehicles. Air targets are engaged while the vehicle is stationary. Ground targets of opportunity can be engaged on the move.

### MAIN FEATURES

- Mobile 35 mm air defence gun
- Effective combat range: up to 4,000 m
- 35 mm Oerlikon Revolver Cannon®
- Nominal rate of fire: 1,000 rds/min
- Rapid single shot mode: 200 rds/min
- Ahead air burst ammunition
- Ready to fire ammunition: 252 rounds
- Remote charge and discharge function
- X-band or Ku-band tracking radar
- Fully stabilized electro-optical sensor unit
- Flexible target handover from 2D/3D search radars
- Automatic target handover and tracking
- Two redundant operator consoles in vehicle
- Integrated navigation system
- Multi-purpose missions
- Simple handling and maintenance
- Option: Integrated AESA search radar

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## TECHNICAL CHARACTERISTICS

### Cannon

Calibre	35 mm x 228
Nominal rate of fire	1,000 rounds/min
Rapid single shot	200 rounds/min
Mean muzzle velocity Ahead ( $V_0$ )	1,050 m/s
Mean muzzle velocity full calibre ( $V_0$ )	1,075 m/s
Length of cannon with muzzle brake	4,206 mm
Barrel length (90 cal.)	3,150 mm

### Ammunition

Types (NATO Code)	
– Programmable	Ahead (KETF)
– Standard full calibre	HEI, HEI-T, FAP, TP-T
No. of rounds ready to fire	252

### Gun turret

Weight of gun turret w/o ammunition	3,800 kg
Weight of gun turret with ammunition	4,250 kg
Swept radius (barrel 0°)	3,950 mm
Traverse arc	n x 360°
Elevation arc	-5° to +85°
Traverse speed	115°/s
Elevation speed	57°/s

### Tracking sensor unit

Tracking radar (TR)	X-band or Ku-band
– Instrumented range	30 km
– Update rate	50 Hz

### EO sensor package

– TV camera	HD colour CMOS, 2°–45°
– IR camera	Cooled MWIR, 640 x 512 pixels
– Laser rangefinder	Eye safe class 1M, 6–10 Hz
– Video tracker	Adapted for air and ground targets
Sensor unit motion vs. gun turret	±150°, -15°...+85°

### Integrated search radar (option)

Search radar (SR)	AESA, S-band or X-band
– Instrumented range	50 km
– Spatial coverage	150°/360°, -15°...+85°

### Fire control

Fire control module	GCC35
– Automatic target acquisition, detection and tracking	
– Automatic sector scan with search radar (option)	
– Shoot on the move for ground targets	

### Operation

2 operator consoles in vehicle (commander, gunner)

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## Rheinmetall Air Defence AG

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