

Powerful and swift support –
for every move

ARCHER Mobile Howitzer 8x8

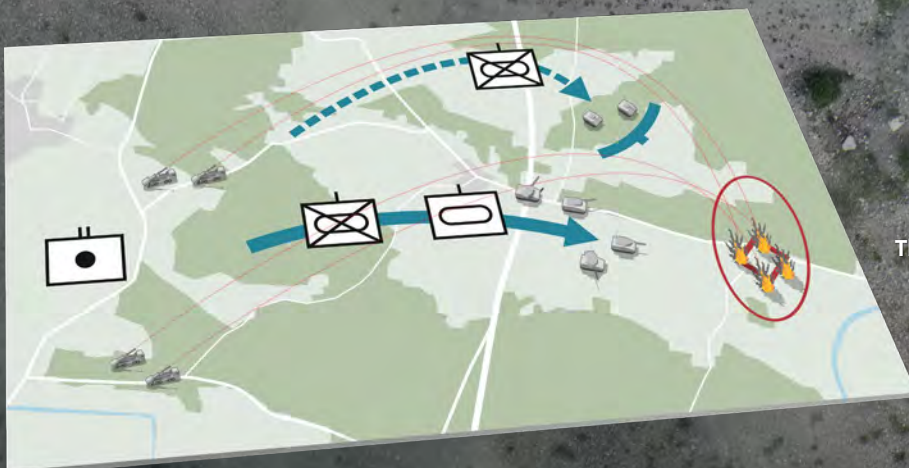
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Move the battle to your advantage

The modern battlefield is characterised by a multitude of threats and challenges. In order to improve survivability, combat units must be able to cooperate effectively. ARCHER represents the next generation of wheeled artillery systems, built to keep up with fast-moving ground forces.



The combination of precision, mobility and intense rate of fire makes ARCHER a key tactical asset – especially in fast-moving combat situations.

The ARCHER artillery system



Gun and carrier

ARCHER is based on the successful Bofors FH77 field howitzer, consisting of an automated 155 mm 52-calibre gun mounted on a RMMV 8x8 truck. Striking the perfect balance between power and mobility by featuring long range precision, fast deployment time and a protected environment for the crew.



Resupply system

The ARCHER artillery system also includes an ammunition resupply system with a support vehicle for a complete artillery solution.

- Modified standard ISO container mounted on any container carrying vehicle
- Carries up to 100 rounds
- Reloads ARCHER in 5 minutes
- Support vehicle with crew supplies



Training

Operators can improve their skills by using realistic training simulators. This is a safe and cost-efficient way for the crew to train on ARCHER operating procedures.

- Advanced digital classroom training simulator
- Training simulator built into the gun system, enabling on-the-job training
- Featuring different combat scenarios
- Installation and support

The ultimate shoot-and-scoot system

ARCHER is a fully automated, self-propelled 155 mm howitzer designed for rapid deployment, with a firing range in excess of 50 km. Loading, laying and firing is handled from inside the armoured cabin, offering full protection at all times. With less than 20 seconds in and out of action for a three-man crew, the ARCHER artillery system provides powerful and swift support – for every move.

Observation (Optional)

- Remote Weapon Station installed on the roof of the cabin
- Target acquisition of both moving and stationary target for direct fire
- Measuring of near crest for the main ordnance
- Surveillance of the perimeter around the gun position for self defence
- All-weather and night capability



Protection

- Crew separated from gun and ammunition
- Crew never has to leave the cabin during combat
- Full protection against NBC threats, artillery fragmentation, mine attacks and blast overpressure
- Optional Advanced Multispectral Camouflage System



Effect

- Firing range in excess of 50 km with outstanding precision
- Rate of fire up to 8 rounds/minute
- MRSI (4–6 rounds depending on range)
- Fully automated magazines carrying 21 shells and modular charges
- Access to an extensive portfolio of ammunition
- Fast change of targets in a wide firing area



Weapon system C3 Integration

- Onboard ballistics calculation enables autonomous operation
- Onboard automated ammunition management capability
- Automated electronic fuze setting (NATO standard)
- Open architecture interfaces for Battlefield Management System
- Fully digitized fire missions minimise risk of human errors and reduces response time
- Easy integration of radios for voice and data communication
- GPS-supported INS provides navigation and precision munition capability



Mobility

- Mounted on a military off-the-shelf all-terrain 8x8 vehicle
- Road speed up to 90 km/h
- 20 seconds for emplacement and displacement
- Can be transported by rail, boat or air
- Up to 800 km range with on-board fuel
- Integrated runflat system

Fire for effect

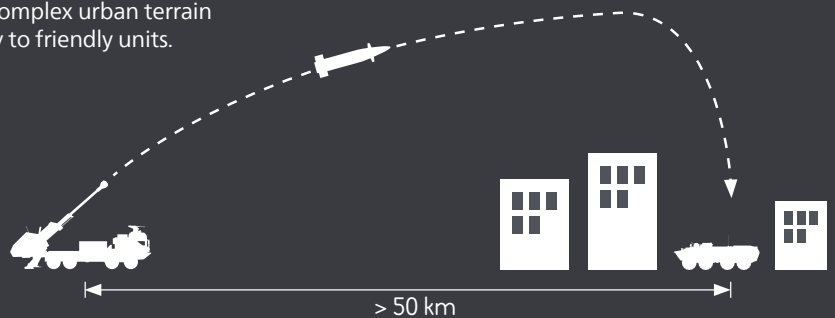
The ARCHER artillery system can handle all types of 155 mm artillery ammunition, including advanced sensor-fuzed and precision-guided munitions.



M982 Excalibur

Excalibur is an advanced precision-guided 155 mm artillery shell. Excalibur can be programmed for air-burst, point and delay detonation. Excalibur provides the manoeuvre commander with fire support in areas where field artillery previously wasn't an option, such as complex urban terrain as well as in close proximity to friendly units.

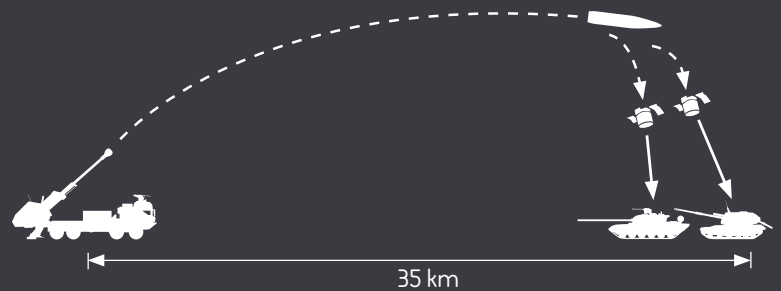
- 155 mm precision-guided munition
- Jam-resistant GPS
- Miss distance less than 2 m regardless of range
- Range in excess of 50 km
- Compatible with both L/39 and L/52 calibre guns



155 mm BONUS

BONUS is a sensor-fuzed munition enabling field artillery to destroy combat vehicles ranging from armoured personnel carriers and self-propelled guns, to infantry fighting vehicles and main battle tanks. The carrier shell holds two submunitions, each capable of defeating armoured vehicles with its explosively formed penetrator.

- 155 mm anti-armour, top-attack artillery munition
- Two sensor-fuzed submunitions
- Ranges out to 35 km
- PHit > one per shell
- Dual mode sensor
- Compatible with both L/39 and L/52 caliber



High Explosive
High Explosive
Extended Range



Illumination



Smoke

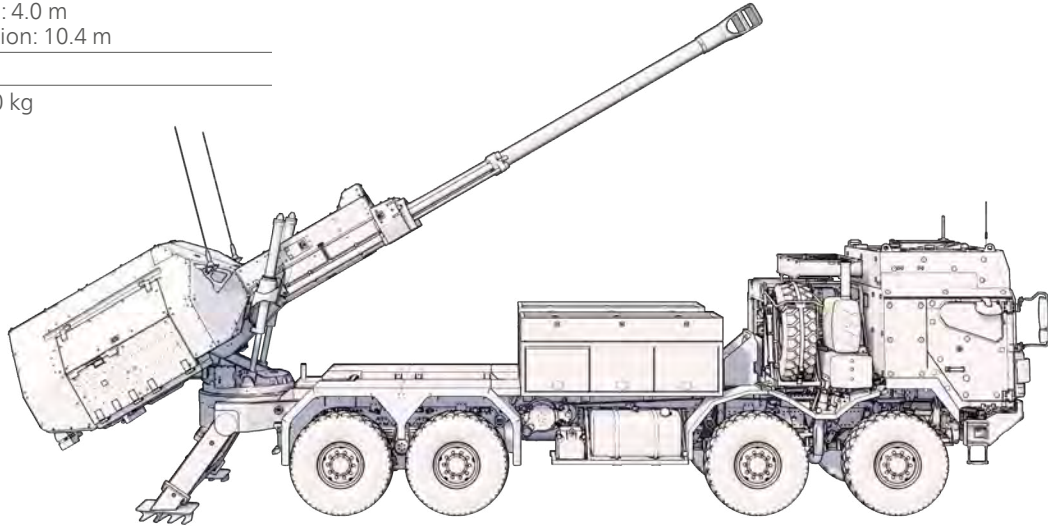


Training

Technical Data

Dimensions

- Width: 3.0 m
- Height: 3.4 m
 - With RCWS: 4.0 m
 - Max. elevation: 10.4 m
- Length: 13.1 m
- Weight: 38 000 kg



Firing

- Calibre: 155 mm
- Barrel length: 52 calibre
- Elevation: -1° to +70°
- Traverse: -85° to +85°
- Projectile magazine: 21 projectiles
- Charge magazine: 108 charge modules 1/1, 18 modules 1/2
- Rate of fire (burst): 3 rounds / 20 sec
- Rate of fire (intensive): 21 rounds / 3 min
- Rate of fire (continuous): 54 rounds / 35 min
- Range:
 - HE: 30 km
 - HEER: 40 km
 - BONUS: 35 km
 - Excalibur: 50 km
- Into action: approx. 20 sec
- Out of action: approx. 20 sec
- MRSI: Up to 6 rounds
- Direct fire: Day and night capability
- Remotley controlled 40 mm grenade launcher or 12.7 mm heavy machine gun (optional)

Mobility

- Drive: 8x8
- Road speed: 90 km/h
- Cruising range: 800 km
- Fuel: Diesel tank 400 litres
- Max. longitudinal slope: 30°
- Permitted lateral lean (chassis): 19°
- Fording: 1 m
- Ground clearance: 0.4 m
- Engine output: 324 kW / 440 HP

Crew

- Crew members: 3
- Ballistic protection:
 - Fragment
 - Bullet
 - AT mine
- CBRN protection: Overpressure principle
- Climate control system: For harsh winter and summer conditions

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