RCH155

Future indirect fire

KNDS

/ RCH 155: Remote Controlled Howitzer 155 mm

The new wheeled armoured howitzer RCH155 combines the firepower and effective range of the automated and remote-controlled Artillery Gun Module (AGM) with the protection and mobility of the combat-proven wheeled armoured vehicle BOXER.

The combination of the unmanned AGM with its NATO-JBMoU-compatible, fielded 155 mm / L52 main gun delivers a unique 360° range across all elevations and with up to six modular charges without the necessity of support legs.

As a systematic development based on PzH 2000, the RCH 155 is a lighter, flexible, and long-range artillery system for all relevant mission scenarios, providing very high protection for the crew.

Further Chassis Variants with the AGM

MOTS truck chassis

ASCOD chassis

MLRS chassis

/ Technical and tactical data

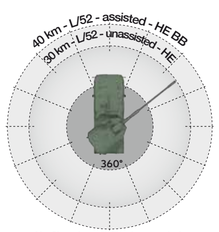
Main armament	Caliber 155 mm / L 52 (JBMoU-compatible)
Firing rates	> 8 rounds per minute
Target engagement	Azimuth: 360° (+/-200°) with up to 6 modular charges without support legs Elevation: from -2.5° to +65° (-45 mils to +1,150 mils)
Effective range	Depending on ammunition e. g. up to 40/ 54 (V-LAP)/ 70 (VULCANO) km; prepared for future ammunition
Ammo magazine capacity	30 fuzed rounds / 144 modular charges
Fuze setting	Automated inductive fuze setting during loading process
Secondary armament	Optional Remote Controlled Weapon Station RCWS / Multi-Purpose Grenade Launcher (MPL)
Direct fire capability	Optional
Combat weight	< 39,000 kg
Dimensions L x W x H	10.5 m / 2.99 m / 3.6 m
Engine performance	Up to 600 kW / 815 HP (MTU power pack)
Speed	100 km/h (road)
Range	> 700 km (road)

/ Main features of the RCH 155

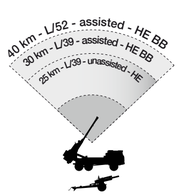
- Highly-mobile, armoured, and automated artillery system
- Unmanned, fully-automated, and remote-controlled gun module AGM
- Superior range and area coverage provided by the 155 mm / L52 gun and its ability to fire JBMoU-compatible 155 mm ammunition
- Long-range lethality with a high rate of fire
- Ability to handle and fire JBMoU-compatible shells up to 1,000 mm length
- Autonomous navigation and fire control
- Automated gun-laying system with coincidence control of the weapon
- Fully-automated loading system for projectiles and modular charges
- Loading in all elevation and azimuth positions possible
- Utmost "Shoot & Scoot 2.0" capability by firing on the move, real MRSI ("Multiple Rounds Simultaneous Impact" within 2 sec) and engagement of moving targets
- Direct firing capability with 155 mm gun by using the optronic of the RCWS ("Hunter / Killer" capability)
- High level of protection for the crew:
  · Ballistic protection
  · Mine and IED protection
  · NBC protection system
- High tactical wheeled mobility
- Protected BOXER chassis for two operators
- Cooling and heating system for crew and turret
- High reliability (mature technology and subassemblies based on PzH 2000 and BOXER / MIV)
- Options for day / night 360° surveillance, self-protection and direct firing
- Barracuda mobile camouflage
- Network-based system architecture with e. g. growth potential for unmanned operation (remote-controlled driving, firing and future shells and fuzes)

/ Superior tactical capabilities

Outstanding Range and Area Coverage



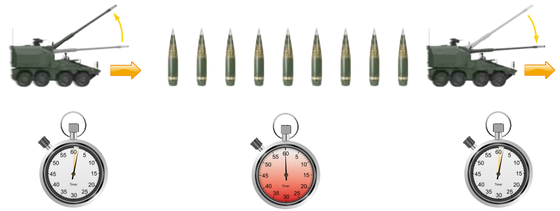
- No Chassis stabilization needed



- Limited traverse
- Chassis stabilization needed

RCH 155 | SELF-PROPELLED OR TOWED 155MM ARTILLERY SYSTEMS

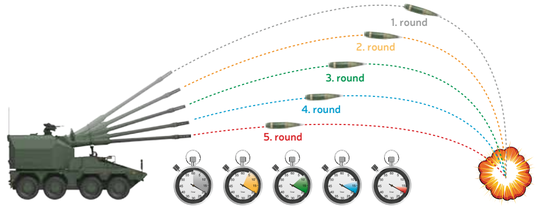
Artillery engagement on the move “Shoot and Scoot 2.0”



„ready to fire" while on the move | fire mission with 9 rounds per minute | continuing without stopping

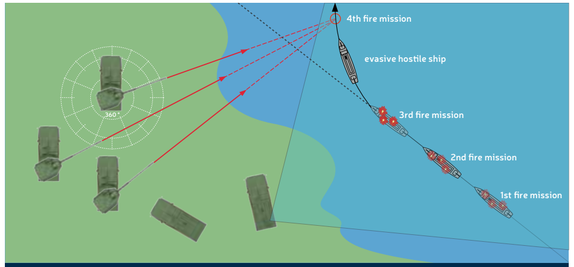
MISSION COMPLETED UNDER PROTECTION – WITHIN ONE MINUTE

“Multiple Round Simultaneous Impact” MRSI



IMPACT TIME WITHIN 2 SECONDS / E.G. FIRING DISTANCE 12,000 m

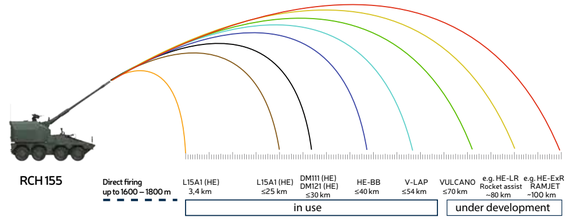
Engagement of Moving Targets



ARTILLERY UNIT RCH 155 | FIRE COORDINATION CENTER FCC | TRACKING SENSOR / RADAR | MOVING TARGET

/ Future indirect fire

Proven and Future Combat Ranges



DISTANCES DEPENDING ON AMMUNITION

RCH 155 (realised as Low Rate Initial Production System LRIP 01) in 2021 in a live firing demonstration

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