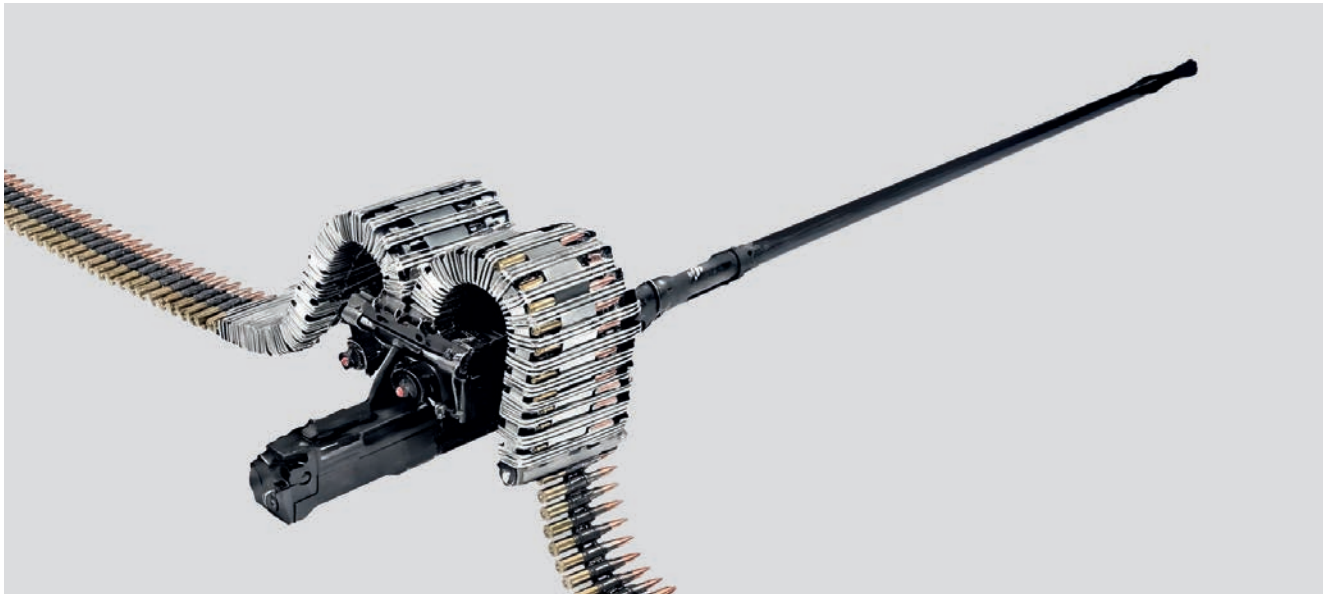


MK 20-2/**RH202**

RHEINMETALL
AUTOMATIC CANNON 20 MM x 139

RHEINMETALL



The MK20 Rh202 is a precision weapon with a high rate of fire of 1,000 rds/min. Its long combat range and high accuracy allow engagement of targets, which cannot be reached with rifles, machine guns and early models of 20 mm guns.

The MK20 is a fully automatic, gas-operated cannon with floating mounted base, thus reducing the recoil forces and achieving maximum accuracy, reliability and service-life.

The MK20 is an open bolt weapon, i.e. in loaded condition, the bolt is in its rear position and the return springs are under tension. The cartridge is in its feeding position, the chamber is cartridge free (cook-off safety).

The MK20 is used with a double belt feeder that allows quick change of ammunition due to the specific target. The belt feeder is gas-operated and belt transport is independent of weapon- and bolt recoil.

Meeting all requirements for a modern automatic cannon, the MK20 is truly a multi-purpose gun for land- and sea-applications. Performance characteristics such as low recoil forces, easy mounting, high durability and outstanding ballistic performance permitted the MK20 into service all over the world.

A complete family of ammunition in the NATO 20 mm x 139 calibre is available for numerous applications of the MK20.

Based upon high reliability and the simple design of the weapon, the MK20 is qualified for a wide range of applications.

Operation of the weapon by a gunner is performed either manually or from a remote position with or without a fire control system.

The MK20 Rh202 is in service as a standard weapon with the German Bundeswehr and more than 20 NATO- and other forces.

MAIN FEATURES

- High accuracy
- Low weight
- Fully automatic, gas-operated
- Reduced recoil forces
- Long service life

TECHNICAL DATA	
Calibre	20 mm x 139
Mass	83 kg
Overall length	2,612 mm
Barrel length	2,002 mm
Recoil load	5.5 – 7.5 kN
Rate of fire	880 – 1,030 rds/min



SAPPIE-T 20 MM x 139 AMMUNITION PMA420

Semi-armour piercing pyrotechnically induced effect and tracer

- Designed to defeat soft-skinned and light armoured air, ground and naval targets.
- Powerful blast effect of the pyrotechnic composition for effective target marking or suppressive fire.
- Good penetration capability combined with optimized fragmentation causes a devastating effect inside the target.
- Maximum performance combined with increased safety.
- Tracer for enhanced visual observation.

MAIN FEATURES	
Performance	Designed for most realistic target practice
Firing mode	Single shot and automatic mode
Transport/Storage	UN Classification 1.4C

TECHNICAL DATA	
Total length of round	213 mm
Mass of round	approx. 315 g
Mass of projectile	120 g
Propellant	NC type
Muzzle velocity	1,055 m/s
Cartridge case	Steel
Temperature range (functional)	–46°C to +63°C



AP-T 20 MM x 139 AMMUNITION

Armour piercing with tracer

- Designed to defeat armoured ground targets.
- High penetration capability owing to the very dense and extremely hard tungsten-carbide core.
- Light-weight aluminium shell body material resulting in increased muzzle velocity.
- Tracer for enhanced visual observation.

MAIN FEATURES	
Performance	Effective against armoured ground targets
Firing mode	Single shot and automatic mode
Safety	Inert projectile
Transport/Storage	UN Classification 1.4C

TECHNICAL DATA	
Total length of round	213 mm
Mass of round	approx. 320 g
Mass of projectile	125 g
Propellant	NC type
Muzzle velocity	1,040 m/s
Cartridge case	Steel
Temperature range (functional)	–30°C to +50°C



TP-T 20 MM x 139 AMMUNITION PMA421

Target practice with tracer

- Ballistically matched to combat ammunition.
- Handling, loading and weapon function identical to combat ammunition ensuring a realistic training.
- Tracer for enhanced visual observation.

MAIN FEATURES	
Performance	Designed for most realistic target practice
Firing mode	Single shot and automatic mode
Safety	Inert projectile
Transport/Storage	UN Classification 1.4C

TECHNICAL DATA	
Total length of round	213 mm
Mass of round	approx. 322 g
Mass of projectile	125 g
Propellant	NC type
Muzzle velocity	1,040 m/s
Cartridge case	Steel
Temperature range (functional)	–30°C to +50°C
Dispersion	≤1.0 mil



SRTP-T 20 MM x 139 AMMUNITION PMA430

Short range target practice with tracer

- Reduced range to enable training at small training areas.
- Ballistically match to tactical ammunition up to 800 m.
- Handling, loading and weapon function identical to combat ammunition ensuring a realistic training.
- Tracer for enhanced visual observation.

MAIN FEATURES	
Performance	Designed for most realistic target practice
Firing mode	Single shot and automatic mode
Transport/Storage	UN Classification 1.4C

TECHNICAL DATA	
Total length of round	212 mm
Mass of round	approx. 317 g
Mass of projectile	122 g
Propellant	NC type
Muzzle velocity	1,045 m/s
Cartridge case	Steel
Temperature range (functional)	–46°C to +63°C

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Wiesel MK1



Marder1A5

THE RH202 – A WEAPON WITH A LONG HISTORY

The 20mm x 139 MK20 RH202 gun was developed by Rheinmetall in the 60s as a universal cross-sectional weapon. From 1968 to 1969, the troop test was carried out with about 60 machine guns. Around 1 million shots were fired. The technical acceptance took place in May 1969 and led to the release of series production in 1970. The first serial weapons were delivered from 1970, and the weapon was integrated into the following systems, among others:

- Infantry fighting vehicle Marder
- Armoured reconnaissance vehicle Luchs
- Armoured weapon carrier Wiesel
- Field cannon FK20-2
- Faun KraKa (Kraftkarren)
- Naval pedestal mount S20

Due to the extension of the service life of the Marder infantry fighting vehicle, a re-engineering of the RH202 became necessary. Rheinmetall has fundamentally revised the weapon, modernized it technically and brought it up to the current state of the art. As a result, the RH202 is now the most modern and technically advanced 20mm gun on the market. With the new lightweight cradle and the weapon control system under development by Rheinmetall, the RH202 is easy to integrate into existing systems.

The RH202 – a weapon whose tradition we continue.

Rheinmetall Waffe Munition GmbH
www.rheinmetall.com

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