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Sniper Rifle
MACS M4
12.7 x 99 mm (.50)



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MACS M4



The MACS Sniper Rifle Model M4 fires cal. 12.7 × 99 mm (0.50 Browning) cartridge. MACS Sniper Rifle is a single-shot, bolt-action rifle with an optical sight and a multi baffle muzzle brake to reduce recoil forces. Rounds are fed into the weapon by manually operated bolt, from the 5-rounds cartridge magazine. Some individual user adjustments can be made on the bipod, the cheek-rest and the butt-plate. The issued optical sight is alternated among: model Kahles ZF10×42 or Kahles model K- 312 3-12×50. Barrel is fitted with a trial-chamber muzzle brake whose outlets direct the muzzle blast sideways.





MACS M4

Features:

Calibre	12.7 x 99 mm
Length	1480 mm
Width excluding bolt handle, telescopic sight and bipod	90 mm
Height including telescopic sight	300 mm
Mass of rifle including telescopic sight and cartridge magazine	12.8 kg
Barrel length	782 mm
Rifling twist	Right hand
Pitch	1 in 380 mm
Grooves	8
Cartridges magazine capacity	5
Effective range	1500 m
Terminal range	6800 m
Bolt trigger	90 degrees opening, 1 stage adjustable from 0.5 to 1.5 kg
Bipod	PARKER HALE



Nine locking lugs, rather than conventional two, provide 50% more bearing area for increased strength and structural integrity.

Longitudinal flutes on the bolt reduce its weight and surface, and minimize binding to maintain smooth bolt operation.

Three gas ports on the bolt allow high pressure gases to escape laterally for greater safety.

Telescopic Sight KAHLES 312 3-12 x 50

Weight of telescopic sight	800 g
Weight of mount	300 g
Magnification	3 to 12
Field of view	8.2 to 2.2 m / 100 m
Eye relief	90 mm
Change per click	1 cm / 100 m
Total clicks elevation	2.4 m / 100 m
Reticle	MIL DOT



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Anti-Material Sniper Rifle
RT-20 M1
20 x 110 mm



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RT-20 M1



- Anti-Material sniper rifle
- First round hit at optimum ranges
- Effective range: 2000 meters
- One of the most powerful rifles in the world
- With unique recoil system with reactive tube
- Light weight
- Anti-shine finish





RT-20 M1

Technical Specifications:

Cartridge/Calibre	20 x 110 mm HISPANO
Operation	Manually Operated Bolt
Magazine Capacity	Single Shot
Overall Length	1330 mm
Barrel Length	920 mm
Muzzle Velocity	850 m/s
Bipod	Standard RT-20
Scope	KAHLES K312 3 - 12x50
Effective Range	2000 m (Ammunition De- pendant)
Temperature Range	-40 °C/+60 °C
Construction	Bull Pup
Mass of Rifle without Bipod and Scope	15.10 kg
Mass of Bipod	1.3 kg
Mass of Scope	0.6 kg
Mass of Rifle with Bipod and Scope	17.0 kg
Mass of Backpack	3.2 kg



- The RT-20 M1 anti-material rifle can be used against vehicles, communication shelters and similar targets. The rifle can be also used by explosive ordnance disposal teams. Aiming with the rifle is stabilised by the adjustable height of the bipod. With a maximum operation range of 2000 m the RT-20 M1 falls into the category of anti-material rifles.
- RT-20 M1 has bull-pup construction in order to reduce the overall weapon size.
- The recoil produced by the 20 mm cartridge is absorbed in two ways: by a recoil compensation tube located above the barrel, exhaust directed to the reverse side, behind the shooter, and by a high efficiency muzzle brake.
- RT-20 M1 Sniper Rifle is a single-shot weapon, bolt-action rifle with an optical sight.
- The optical sight is mounted at sideways the barrel instead of classical above-barrel position.
- The standard optical sight issued with the weapon is the model Kahles K312. RT-20 M1 sniper rifle is operated and carried by one operator.
- The locking mechanism is manually operated, bolt is left-hand operable due to its position on the left side of the weapon. The bolt has 3 sets of locking lugs opened by turning the bolt handle for 60°. When the bolt is moved forward and locked, the rifle can fire safely.

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