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Weapon-Ammunition-System



with caseless ammunition

Technical Data





Calibre Type of	ammunition

Length of weapon

Width of weapon

Height of weapon

750 mm 74 mm

Weight of weapon	
with 2 magazines	
loaded with 90 rounds	

Weight of reloading unit including 15 rounds

Barrel length, less chamber Rifling twist length (Right hand twist)

4.73 mm × 33 (0.185 in) caseless

295 mm

3.8 kg (8.38 lb) 4.3 kg (9.48 lb)

0.11 kg (3.89 oz)

540 mm (21.26 in) 155 mm (6.10 in) Modes of fire:

- Single fire 3-round burst
- Sustained fire

Theoretical rates of fire:

3-round burst

 Sustained fire approx. 450 rounds/min

Max. shoulder pressure:

3-round burst

approx. 160 N Single and sustained fire approx. 110 N

Magazine capacity

Combat range Steel helmet penetration

Operating principle

Breech principle

45 rounds

> 2000 rounds/min

 $> 300 \, \text{m}$ (328 yd) up to 600 m (656 yd)

Gas-operated, cartridge in chamber Cylindrical drum

Caseless ammunition



Length 33 mm (1.29 in)

8 × 8 mm (0.32 in) Cross-section 5.20 g (0.18 oz) Total weight 3.25 g (0.12 oz) Projectile weight

0

Ignition Mean gas pressure Muzzle velocity Vo

mechanical 3850 bar approx. 930 m/s (3051 ft/s)



Magnification Entry pupil Exit pupil Pupil clearance Field of view Eyepiece adjustment Light transmission

10.0 mm (0.43 in) 9.5 mm (0.37 in) 46.0 mm (1.81 in) 200 mil -6 dpt > 85%



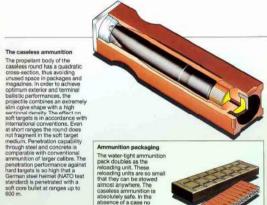
HEOKLER & KOCH

Dynamit Nobel

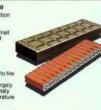
Subject to technical modifications

TELEFON UPPRINT 1020 DE





Ammunition packaging The water-tight ammunition pack doubles as the reloading unit. These reloading units are so small that they can be stowed almost anywhere. The caseless ammunition is absolutely safe. In the absence of a case no overpressure can be generated by exposure to fire or builet impact. The risk of cook-off is largely eliminated by the extremely high self-ignition temperature of the propellant.



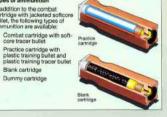
Ballistic table

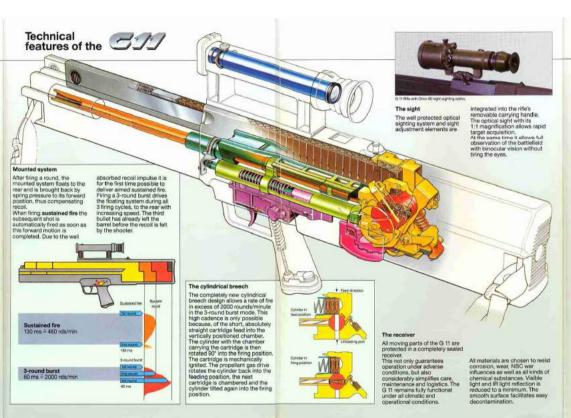
	100	000	800
990	848	(6)	460
8	SERV	9.00	0.94
140	1120	712	334
8	0.00	0.17	185
0.1	0.00	g.p	28
	100	900 948 9 0.11 1409 1120 0 0.00	000 948 660 0 0.11 0.08 1100 1100 710 0 0.00 0.17

Types of ammunition

In addition to the combat cartridge with jacketed softcore bullet, the following types of ammunition are available:

- Combat cartridge with soft-core tracer bullet Practice cartridge with
- plastic training tracer bullet Blank cartridge
- Dummy cartridge







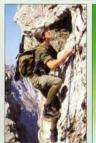


conventional rifles achieve only

conventional rifles achieve only low hit rates. Physical fatigue, target motion, battle noises, enemy life, etc. handicap the gunner when he tries to properly aim his rifle. The G 11 achieves its high hit probability by firing automatically limited three-round bursts with defined

dispersion! This weapon dispersion does not depend upon the shooter or his training

G3 A3





DDDD 7,35 kg





Hit probability

Despite aiming and lead angle errors the 3-round burst with its defined dispersion increases hit probability considerably and thus also reduces ammunition consumption.