A black and white photograph of a soldier in a desert environment. The soldier is running out of the back of a military vehicle, carrying an M16-style assault rifle. The soldier is wearing a helmet, a vest, and a backpack. The background is a sandy, arid landscape.

**M16  
5.56mm  
ASSAULT  
RIFLE**

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**NWM DE KRUIJTHOORN B.V.**

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# GENERAL DESCRIPTION

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The MN1 Assault Rifle is a multi-purpose personal arm designed to serve as a basic weapon of the infantry squad.

This weapon can be used as an automatic assault rifle, semi-automatic rifle, light machine gun, and as a grenade launcher for anti-tank and anti-personnel grenades. The MN1 is deployed in each of these modes without any change of parts or addition of adapters.

The rifle fires a 5.56mm (.223") high velocity round which weighs 11.7 gram and has a bullet weighing 3.52 gram. These rounds are more than 50% lighter than 7.62mm ammunition.

The excellent handling characteristics of the MN1 permit controllable fully-automatic fire under all combat conditions. Magazines holding 35 or 50 rounds allow sustained automatic fire at a theoretical rate of 650 rounds per minute. There is no jamming or "cook-off", even after firing hundreds of rounds.

(continued overleaf)



5.56 mm ROUND

7.62 mm ROUND

## FIELD STRIPPING



# GENERAL DESCRIPTION

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With its stock folded, the **MN1** is an excellent assault rifle. With the stock extended, the rifle is used as an accurate semi-automatic or automatic weapon. Use of the bipod and 50 round magazines allows deployment of the **MN1** as a light machine gun. Flat trajectory grenades may be fired from the shoulder or hip, and high trajectory grenades or flares can be launched with the stock resting on the ground.

Outstanding ease of handling makes the **MN1** unique among weapons of its class. The cocking handle, selector lever, and magazine catch can all be operated from either side of the weapon so that handling is equally simple for the right or left handed soldier. When carried by the carrying handle, the rifle has a slight sideward cant to enable the soldier to move freely. Even with the bipod unfolded the rifle will not interfere with the soldier's leg.

Servicing of the **MN1** is simple. Only six parts need to be handled in field stripping, and no tools are required.

Designed and developed after the Six Day War by the Israel Military Industries, the **MN1** has been tested under actual combat conditions.



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# MODELS



**M16 ARM** – Assault Rifle – Light Machine Gun – Used as an assault rifle or light machine gun. Equipped with folding metal stock, bipod and carrying handle.

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*Stripped.* (without bipod and carrying handle) with folding metal stock.



**M16 SAR** – Short Assault Rifle – Submachine gun version with shortened barrel and folding metal stock.

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# GENERAL DATA

	WEIGHT	MN1 ARM	MN1 SAR
Rifle without bipod & carrying handle:		3900 gr	3650 gr
Rifle with bipod and carrying handle:		4300 gr	
Magazine 35 rounds empty:		300 gr	300 gr
Magazine 35 rounds loaded:		710 gr	710 gr
Magazine 50 rounds empty:		440 gr	440 gr
Magazine 50 rounds loaded:		1000 gr	1000 gr

	LENGTH		
	Overall:	979 mm	851 mm
	With stock folded:	742 mm	614 mm
	Barrel:	460 mm	332 mm
	Barrel with flash suppressor:	471 mm	343 mm

## MECHANICAL FEATURES

Rifling:	R.H. 6 grooves, 1 turn in 12 in. (305 mm)	
Method of operation:	Gas	Gas
Type of breech mechanism:	Rotating bolt	Rotating bolt
Method of feeding:	Magazine	Magazine
Cooling:	Air	Air

## AMMUNITION

Caliber:	5.56 mm	5.56 mm
Type:	Ball M-193	Ball M193:
Bullet weight:	3.52 gram	3.52 gram
Round weight:	11.7 gram	11.7 gram

## FIRING CHARACTERISTICS

Approx. muzzle velocity:	980 m/sec	920 m/sec
Approx. maximum rate of fire:	650 rounds/min	650 rounds/min
Maximum effective range:	500 meters	400 meters

## SIGHTS

Sight line length:	475 mm	445 mm
Foresight:	Post type, with protective battle sight ring.	
Rearsight:	Apperture, "L" flip type, set for 300 and 500 meters.	
Nightsight:	Folding, luminous.	

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# COMPONENTS



**FLASH SUPPRESSOR** Standard on all MN1 models and permanently fitted on the muzzle. Serves also as a recoil reducer, grenade launcher and bayonet retainer.



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**MAGAZINES** Three sizes, holding 50 or 35 rounds, or 12 ballistic cartridges for grenade firing. Lips of magazines are reinforced.



**STOCK** The folding metal stock is of rugged, lightweight construction. When extended, it locks into position securely by means of a spring loaded locking mechanism.



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**BIPOD** An integral part of the MN1 ARM, the bipod weighs only 250 gram, and has exceptional strength. It is constructed to serve also as a wire cutter.

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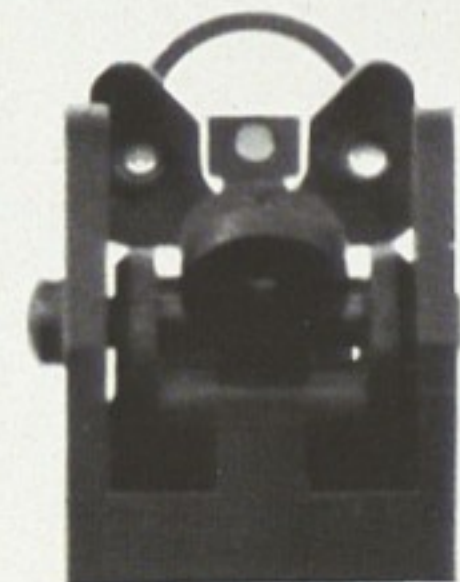
# 20thCenturyPlatoons.com

**SIGHTS** Consist of post type foresight and aperture "L" flip type rearsight, set for 300 and 500 meters.

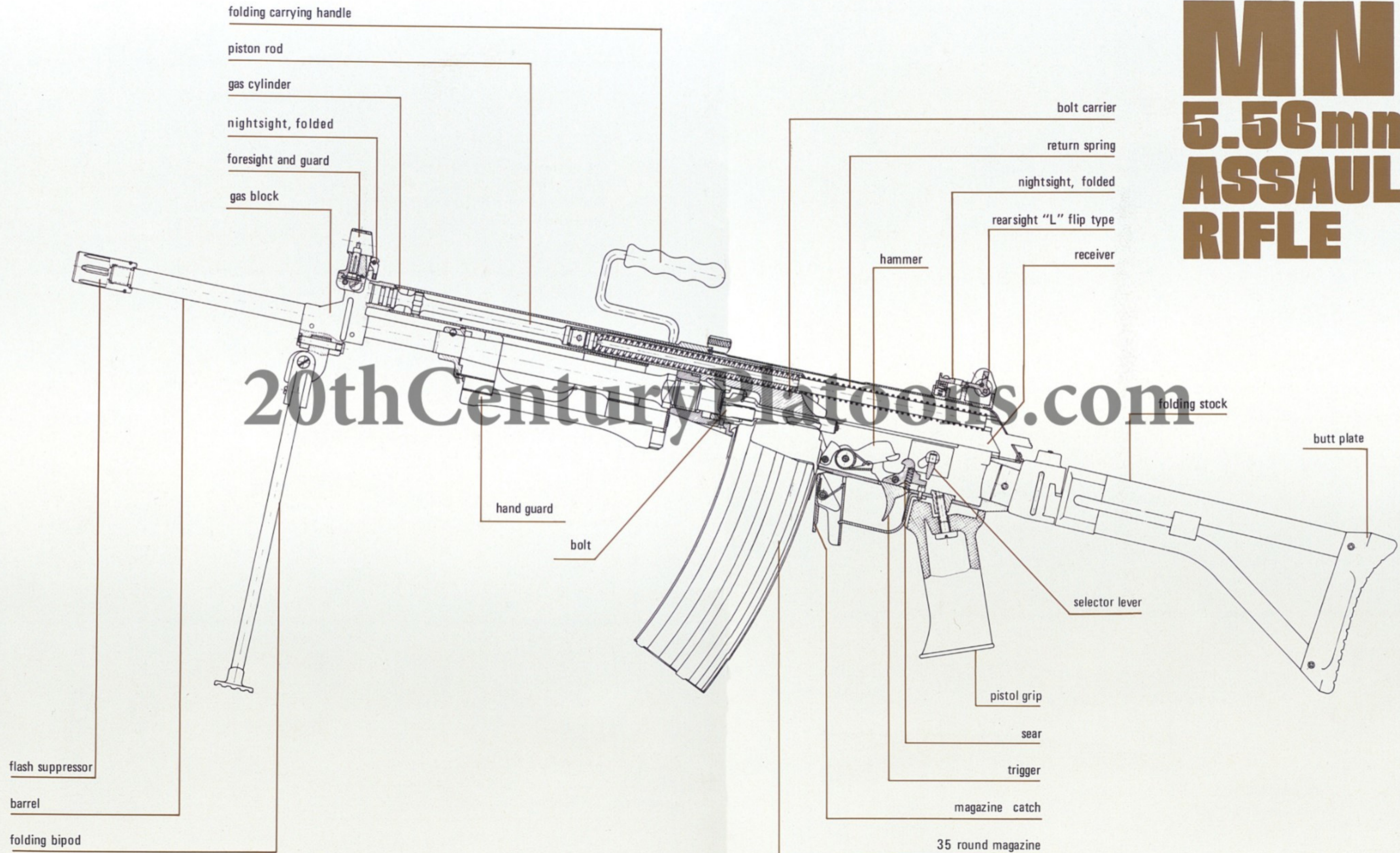


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**NIGHT SIGHTS** Standard on all MN1 models. The sights are provided with luminous spots.



# MM1 5.56mm ASSAULT RIFLE



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# OPTIONS



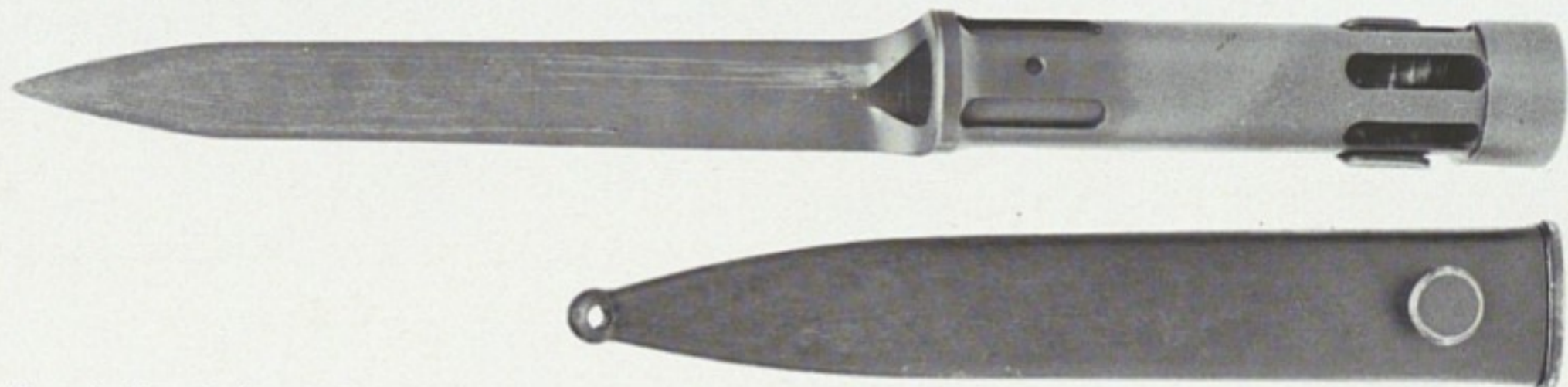
**PISTOL GRIP** Pistol foregrip made of plastics available for the MN1 SAR.

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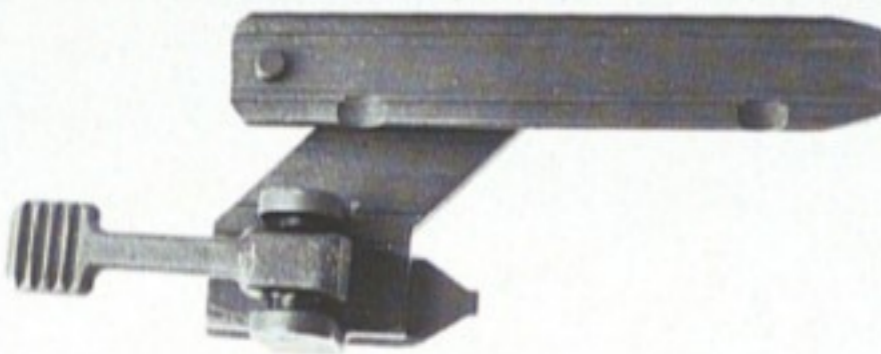
**TRAINING AMMUNITION ADAPTER** Permits automatic or semi-automatic fire of training ammunition.



**BAYONET** Specially designed one piece construction, or standard NATO type.



**FIXED STOCK** Choice of wood or plastic

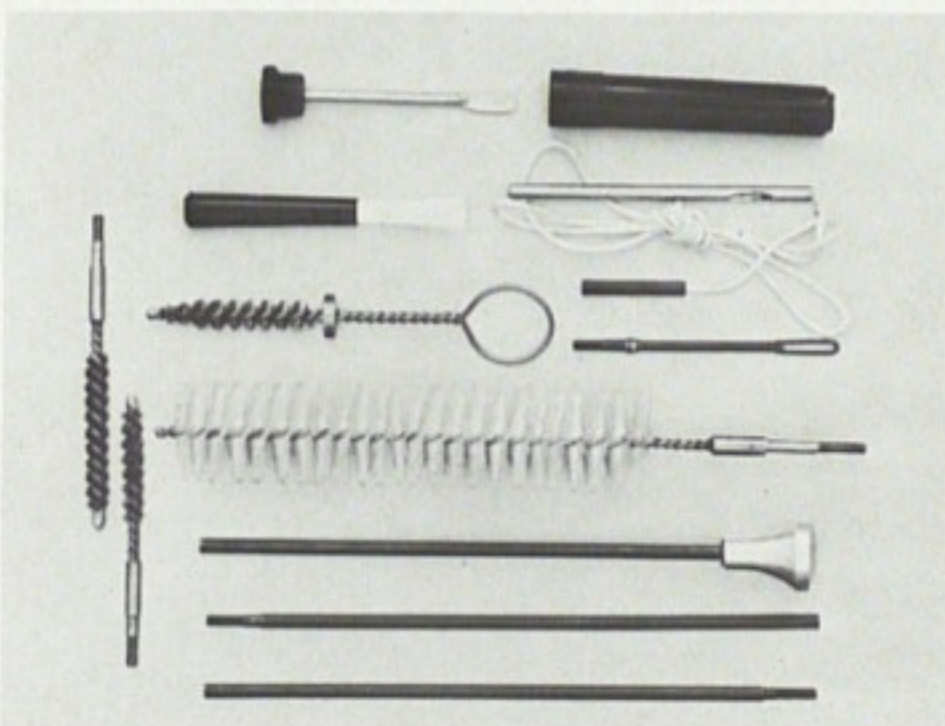


**TELESCOPIC SIGHT MOUNT** Special mount for attaching telescopic, infrared, or SLS sight.

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**CARRYING SLING** Used also for carrying the rifle in the ready-to-fire position.



**CLEANING KIT** With brushes, oil can, cleaning sling, or cleaning rod.

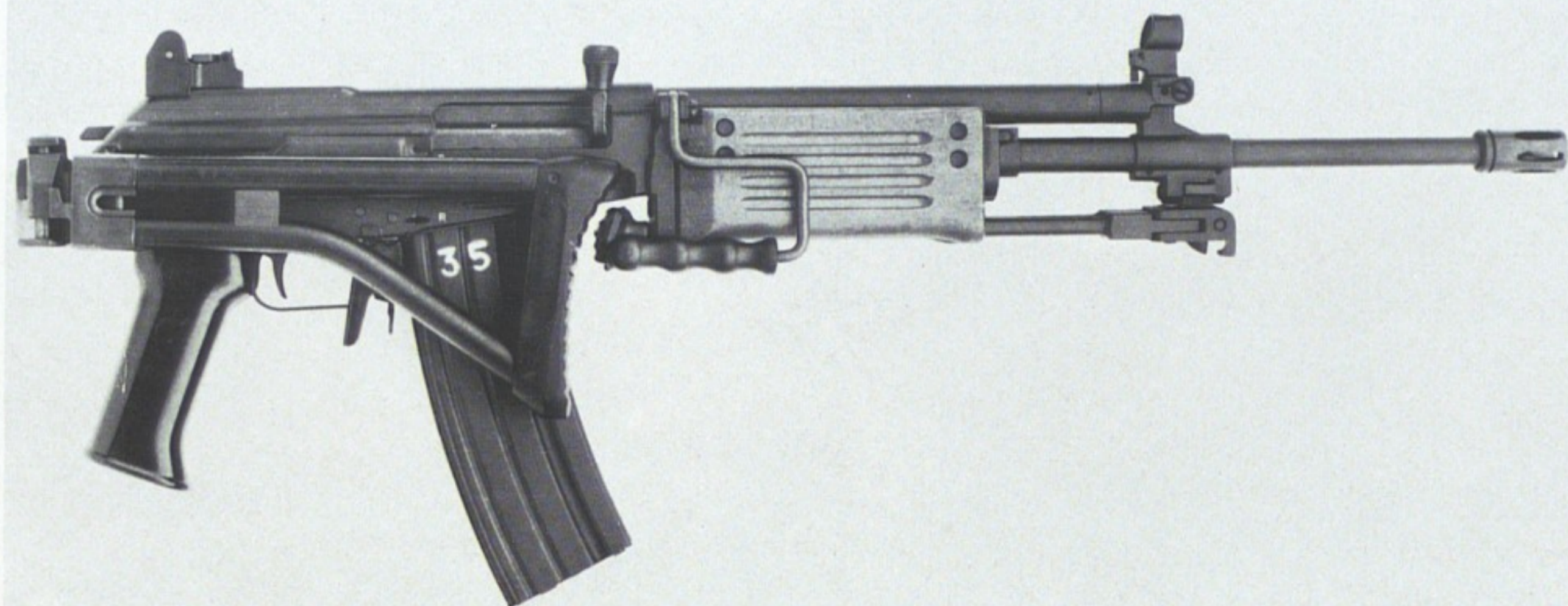


# SAFETY FEATURES

- With selector lever on "Safe", trigger is positively blocked.
- Selector lever may be set from left or right side of the rifle.
- "Chamber check" with fingertip may be performed after limited movement of the bolt carrier with selector lever in the "Safe" position.
- No "cook-off" occurs, even after firing long bursts.
- The firing mechanism is designed to prevent accidental discharge when the MN1 is dropped or jolted.
- Ballistic cartridges are held in a special short magazine which ensures instant identification.



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## DESIGN

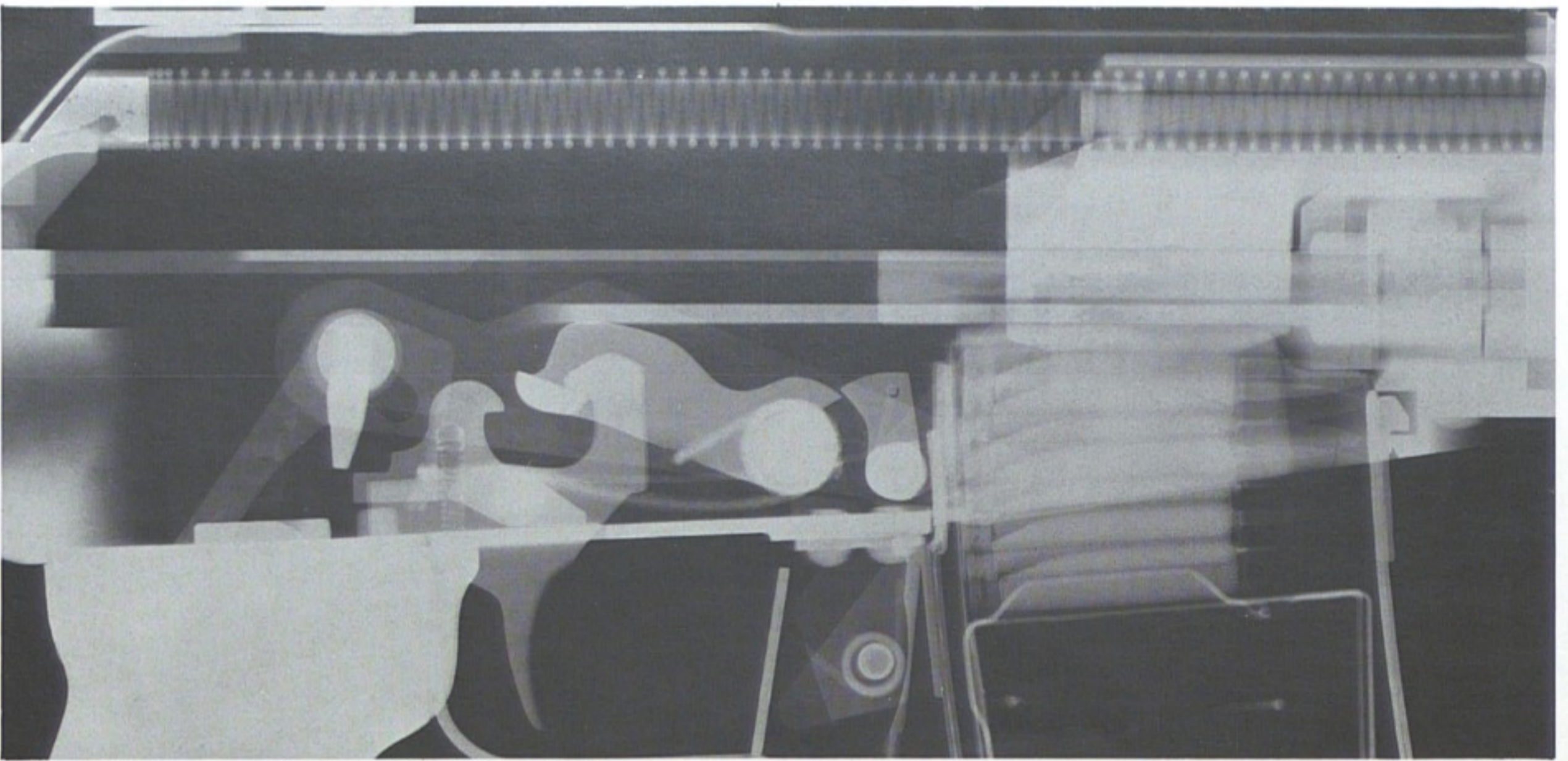
Designed and developed from the start for a 5.56 mm high velocity round, the **MN1** is a gas operated rifle with fixed gas vent, piston and rotating bolt.

The slide which locks and unlocks the bolt, travels in the upper part of the receiver. The bolt carrier group accommodates the main spring. The firing is by hammer action.

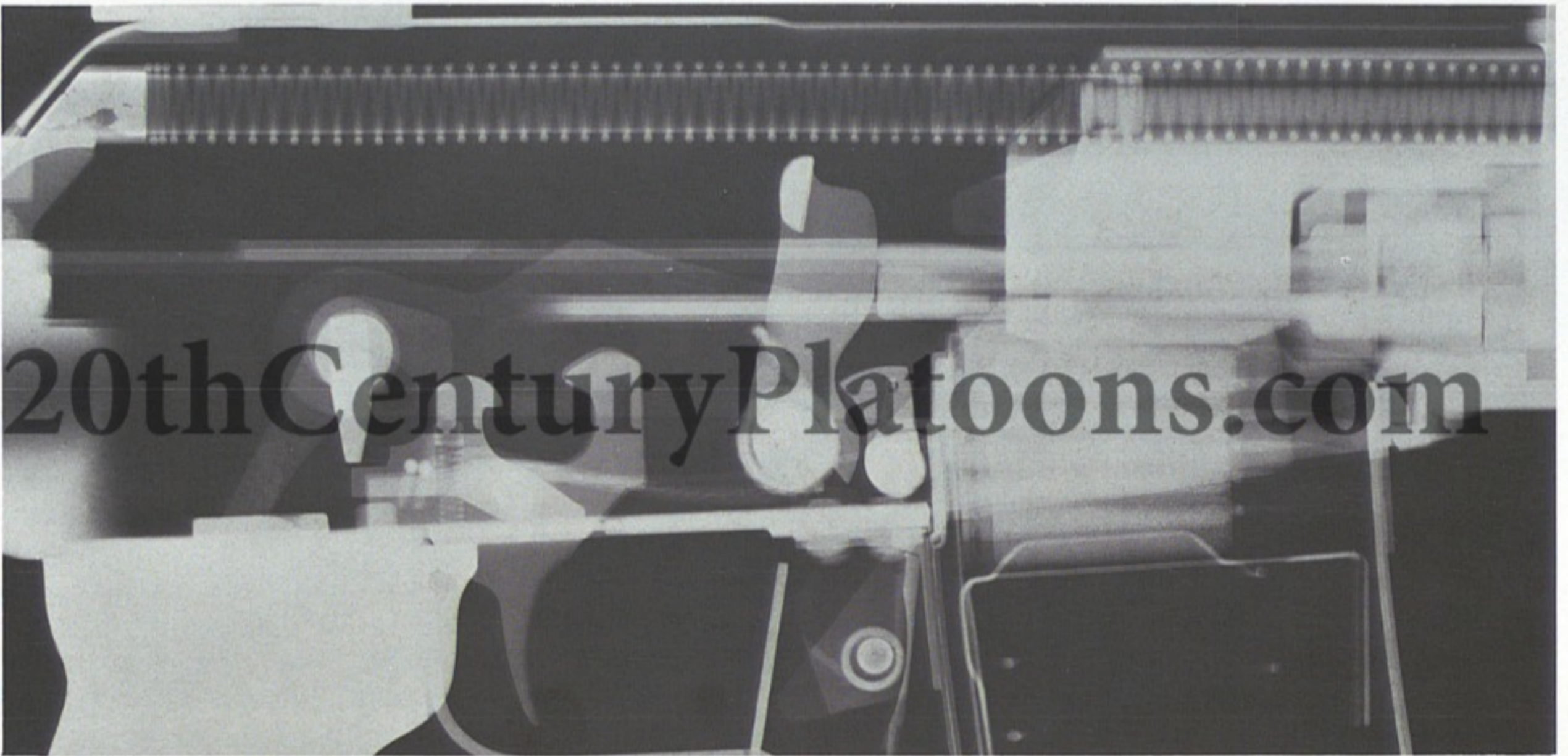
The barrel is made of treated alloy steel, rifled with six grooves, right-hand twisted at one turn in 12 inches. The barrel chamber is hard chrome plated. The **MN1** has a three position selector lever: safe, semi-automatic and fully-automatic.

When in the safe position, the selector lever covers the slot in the receiver in which the charging handle travels, thus preventing dirt from entering into the mechanism.

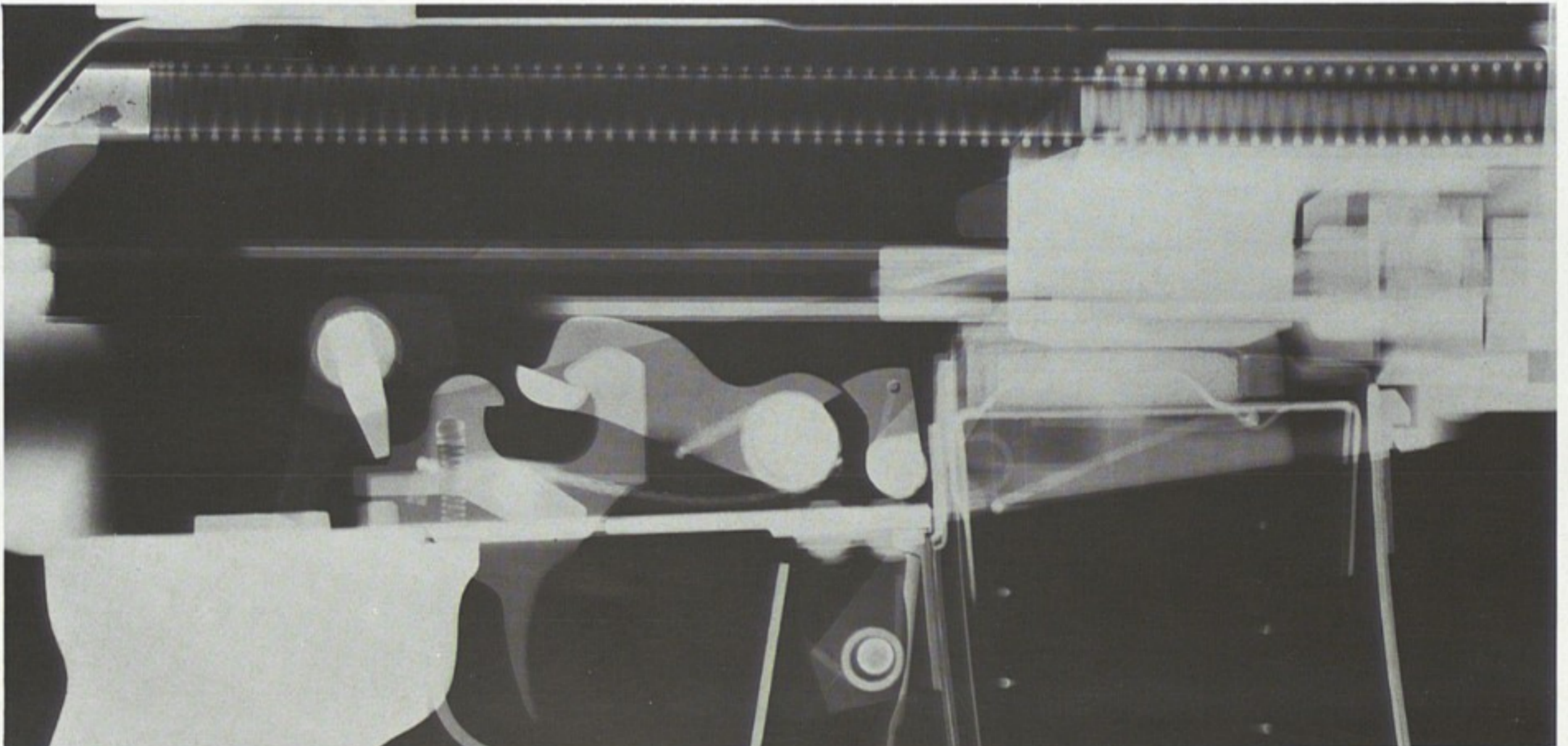
Field cleaning is easily accomplished as the **MN1** strips into six parts only, without the use of tools, and its gas system is readily accessible.



Selector lever on semi-automatic, rifle cocked.



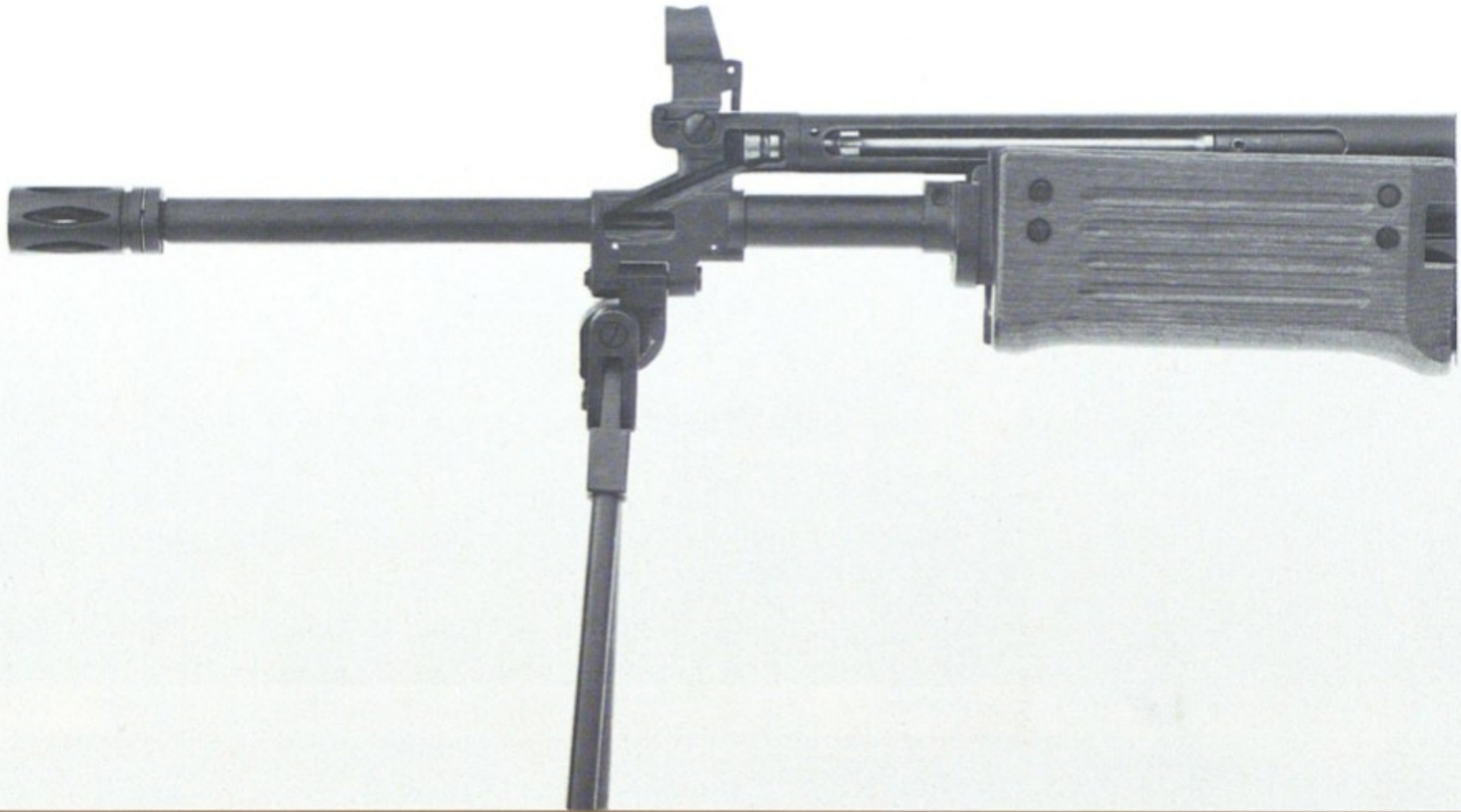
Selector lever on automatic, trigger released, hammer on striker head.



Selector lever on safe, rifle cocked.

PICTURES BY NEUTRON RADIOGRAPHY





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# RELIABILITY

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The reliability of the MN1 is the result of a comprehensive design and development program which was fully concluded, prior to series production of the weapon.

Extensive environmental testing was carried out under conditions of accentuated severity such as in deep snow and temperatures of down to  $-40^{\circ}\text{C}$ , as well as in the desert with temperatures ranging up to  $60^{\circ}\text{C}$ . Continuous field testing, over a span of 2 years, was carried out. The weapon is presently being mass produced, and over three years is in service with combat units of the Israel Defense Force.

Test weapons have fired over 12,000 rounds without stoppage or component failure.

The MN1 remains operable and fires successfully even after the moving parts have been exposed to sand, dirt or water.

Six vents in the piston guide ring allow some of the gases to blow back and to remove dirt from moving parts.

The weapon is of rugged, durable construction, and withstands rough handling without damage.



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