

DIEMACO



RIFLES



C7 PERFORMANCE

10 ROUND GROUP AT 50 METRES
AFTER 10,000 ROUNDS
(5 x 8 cm Target)

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SAW

C7 Rifle



GENERAL CHARACTERISTICS

The new Canadian 5.56 mm C7 rifle is a light-weight dependable and versatile weapon. It is a derivative of the well proven M16A2 design. The straight line construction which aligns the recoil forces with the bore axis and the shoulder, combined with the compensator, keeps muzzle climb during automatic fire to a minimum. The front locking bolt and direct self-regulating gas system eliminates the need for a heavy steel receiver, gas piston, and operating rod normally associated with gas operated weapons. Sights consist of an adjustable square post foresight and a windage adjustable flip type rear sight. A large battle aperture and a smaller long range aperture, permit easy target acquisition and high first round hit probability at combat and extended ranges.

BARREL

Unique to the C7 rifle is the 1-7 inch twist Rotary Hammer Forged chrome-lined barrel, which offers increased strength, accuracy and longevity under adverse conditions. The barrel will accommodate the entire range of 5.56 x 45 NATO Standard ammunition as well as the U.S. M855 and M193 rounds. Barrel accuracy and endurance are outstanding. Precision testing by the Canadian Forces indicate virtually no change in barrel precision to 10,000 rounds and an ultimate life approaching 20,000 rounds.

MAGAZINE

The reliable and maintenance free magazine is constructed of glass reinforced high strength nylon which resists fouling by cartridge brass, firing residue or dirt. The magazine will not dent nor will lips deform. Unserviceable nylon magazines are simply replaced because of the low cost.

GRENADES

The C7 rifle can launch all standard U.S. and NATO rifle grenades without supplementary attachments. Installation of the M203 grenade launcher permits firing any of the standard 40 mm grenades.

RELIABILITY

The C7 Rifle has demonstrated a mean time between failure of 6,480 rounds in Canadian Forces tests. Troop trials have included firing of weapons to 4,000 rounds without cleaning or malfunction.

TECHNICAL DATA

Calibre	5.56 mm x 45 mm NATO
Operation	Gas, Expansion
Type of Fire	Semi and Automatic
Rate-of-Fire	700 - 900 SPM
Velocity at 24 M	Approximately 920 m/s (3020 fps)
Length W/short butt W/normal butt	101 cm (39.3 in) 101.6 cm (40 in)
Weight—Empty —W/30 Rd Magazine	3.34 kg (7.35 lb) 3.89 kg (8.5 lb)
Rifling—No. of Grooves —Direction of Twist —Rate	6 Right-Hand 1 turn in 7 inches
Locking Mechanism	Rotating Bolt
Sights—Front —Rear	Adjustable Square Post Windage Adjustable Flip Type Two Position Aperture

DIEMACO PRODUCTION OF C7 RIFLES

Diemaco Inc., Canada's Centre of Excellence for Small Arms, is producing the C7 rifle, C8 carbine and related spares and accessories for the Canadian Forces Small Arms Replacement Project.

Diemaco

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C7 Rifle is manufactured under license from Colt Industries.
 Magazine is manufactured under license from Thermold Inc.

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