



7.62×51mm ROTARY-BARREL MACHINE GUN

CS/LM12



The CS/LM12 is a multi-barrel, externally-powered rotary machine gun chambered for the standard 7.62×51mm NATO cartridge. Developed for police/security and counter-unmanned aerial vehicle (C-UAV) missions, it is deployable across a wide range of platforms, including vehicles, helicopters, and naval vessels.

Building on the proven architecture of different classic rotary guns, the CS/LM12 incorporates a number of indigenous design improvements. An electric motor drives the barrel cluster, completing the automatic feeding, firing, extraction, and ejection cycle independently of propellant gas pressure. A flexible belt links the ammunition box to the feed mechanism, ensuring a safe and reliable continuous ammunition supply.

The weapon is fitted with an electronic fire-control system offering selectable firing modes and a real-time display of rate of fire, rounds fired, and remaining ammunition. Two cyclic rates are selectable via a rear-mounted control button — a low rate of 2,500 rpm and a high rate of 6,000 rpm. An integrated spent-case and link collector prevents ejected components.

KEY FEATURES

1. **NATO-Standard Calibre** — Fires the widely available 7.62×51mm NATO cartridge, ensuring logistical compatibility with international forces.
2. **Dual-Rate Selectable Fire** — Offers two cyclic rates — 2,500 rpm (low) and 6,000 rpm (high) — allowing the operator to match firepower to the tactical situation.
3. **External Electric Drive** — Powered by an electric motor requiring ≤ 2.3 kW; barrel rotation and the automatic cycle are independent of propellant gas pressure, enhancing reliability.
4. **Large-Capacity Ammunition Feed** — Standard supply is a 1,000-round belt box, with other capacities available on request, providing sustained firepower.
5. **Wide Firing Arcs** — Elevation from -45° to $+60^\circ$ and traverse of $\pm 180^\circ$ (full 360° coverage) enable engagement of targets in virtually any direction.
6. **Exceptional Barrel Life** — Each barrel is rated for $\geq 60,000$ rounds, significantly reducing maintenance costs and downtime.
7. **Flexible Belt-Feed System** — A compliant ammunition belt between the box and the gun ensures smooth, jam-resistant feeding at high cyclic rates.
8. **Integrated Fire-Control & Display** — An electronic control unit with display shows real-time mode, rate, rounds fired, and remaining ammunition count.
9. **Multi-Platform Adaptability** — Can be mounted on ground vehicles, naval mounts, and helicopters, meeting diverse operational requirements across land, sea, and air.
10. **Safety-Oriented Design** — A collector for spent cases and disintegrating links prevents foreign-object debris that could endanger the platform or crew.





TECHNICAL DATA

Model	CS/LM12
Type	Rotary-barrel machine gun
Caliber	7.62×51mm NATO
Overall Length	1,300 mm (51.18 in)
Weight	≤90 kg (≤198.42 lb)
Muzzle Velocity	≥845 m/s
Rate of Fire (theoretical)	Low speed: 2,500 rpm High speed: 6,000 rpm
Effective Range	1,000 m
Feed System	Ammunition belt box; standard capacity 1,000 rounds (other capacities optional)
Firing Mode	Fully automatic (continuous)
Input Voltage	26 ± 24 V DC
Input Power	Electric motor, ≤2.3 kW to rotate the barrel cluster
Elevation Angle	−45° to +60°
Traverse Angle	±180° (360° coverage)
Barrel Life	≥60,000 rounds per barrel
Standard Accessories	1,000-round belt box ×3, maintenance toolkit ×1, operation manual ×1



PERFORMANCE COMPARISON — CS/LM12 VS. M134 MINIGUN & INTEGRATION SUPPORT

The CS/LM12 is presented as a peer or superior alternative to the M134 across the critical combat parameters relevant to naval point-defence and counter-UAS employment. The comparison below is based on manufacturer-published data for both systems.

Parameter	M134 Minigun (US)	CS/LM12 (China)	Verdict
Caliber	7.62×51mm NATO	7.62×51mm NATO (7.62×54mmR variant also available)	CS/LM12 offers greater flexibility
Maximum Rate of Fire	6,000 rpm	6,000 rpm	Identical
Selectable Rate of Fire	No	Yes (2,500 / 6,000 rpm)	CS/LM12 allows ammunition conservation for graduated counter-UAS response
Effective Range	~1,000 m	1,000 m	Identical
Feed Mechanism	Single-direction feed	Bidirectional feed	CS/LM12 offers greater mounting flexibility on deck
Ammunition Compatibility	NATO only	NATO + 7.62×54mmR	CS/LM12 offers greater flexibility
Power Requirement	~2.3 kW (24V DC)	≤2.3 kW (24V DC)	Identical
Spent Case/Link Collector	Optional	Standard (critical for deck safety)	CS/LM12 advantage



M134 (left) | CS/LM12 (right)