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XM1014 Combat Shotgun System



XM1014 Combat Shotgun with 3.00 inch chamber, 18.50 inch barrel, and telescopic stock collapsed.

On 12 February 1999, the US Army Armaments Research, Development, and Engineering Center (ARDEC) awarded a contract to Heckler & Koch, Inc. in Sterling, Virginia for a 12 gauge semi-automatic shotgun, the new HK/Benelli M4 Super 90 (M4S90), for the US Armed Forces. It is a 5-year contract with a Base Year and four production Option Years.

Designated the XM1014 Joint Services Combat Shotgun (JSCS), the shotgun was developed by Benelli Armi S.p.A of Urbino, Italy for HK, Inc. It is being procured for issue to all of the Armed Services to include the US Coast Guard and the Special Operations Command. The XM1014 will replace or augment the current inventory of pump-action shotguns within these organizations beginning in early 2000. The US Marine Corps is the Joint Service Manager for this procurement and they will receive the first production deliveries.

The M4 S90 Combat Shotgun System meets or exceeds all of the performance requirements set forth in the solicitation. The M4 S90 with its 3.00-inch chamber can fire both 2.75 inch and 3.00 inch magnum ammunition.

The M4 S90 functions using the new ARGO Twin Operating System with rotating bolt head with dual locking lugs. The ARGO (Auto Regulating Gas Operated) Twin System with its dual gas ports, pistons and cylinders was specially developed to meet the stringent operational and functional requirements for the Joint Service Combat Shotgun. This operating system is self-cleaning, unaffected

by fouling, requires little or no maintenance, is self-regulating for cartridges of varying length and power levels, and functions reliably under all environmental conditions with both short and long barrels.

The M4 S90 Combat Shotgun is a semi-automatic weapon, fed by a fixed, tubular magazine. Low power "Less-than-lethal" ammunition can be manually cycled using the extended bolt handle.

The shotgun is built around a modular assembly group approach that allows the operator to exchange the barrel and buttstock without tools and in seconds to configure the weapon to meet ever changing operational requirements.

The M4 S90 Combat Shotgun is fitted with Ghost Ring iron sights, adjustable for windage and elevation without special tools. An accessory mounting rail is fitted to the top of the receiver of the weapon and allows the operator to mount all manner of targeting and sighting devices, such as the AN/PVS-4 night vision device, on the weapon in tandem with the iron sights.

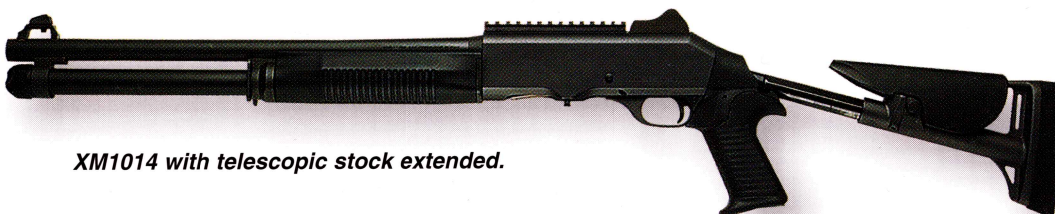
Three modular buttstocks are available for use on the M4 S90 Combat Shotgun: the contract telescoping stock with a detachable pistol grip; and optional semi-pistol grip or pistol grip stocks, each of

which can be installed without tools. An 18.50-inch barrel with screw-in internal choke tubes is provided with the weapon.

An optional 14-inch barrel is also available. All operating controls and sling attachment points are arranged for ambidextrous use. The M4 S90 is 39.8 inches with the telescoping stock extended and 34.9 inches with it collapsed (30.4 inches with the optional 14-inch barrel).

All interior and exterior surfaces of the shotgun are protected from wear and corrosion by a tough, non-reflective MIL-SPEC surface finish. An integrated speed loader interface is on the bottom of the receiver. The M4 S90 can be field stripped in seconds without any special tools. The bolt handle is the only tool needed.

Under the Base Year contract, twenty samples of the HK/Benelli M4S90 shotgun were delivered to Aberdeen Proving Ground, Maryland on 9 March 1999 for Production Qualification Testing (PQT). Upon successful completion of PQT, it is expected that Option I (first year) Production will be exercised in the last quarter of 1999. A total of up to 20,000 M1014 may be procured under the current contract over four years for the USMC. This could increase as other Service procurement requirements are approved.



XM1014 with telescopic stock extended.

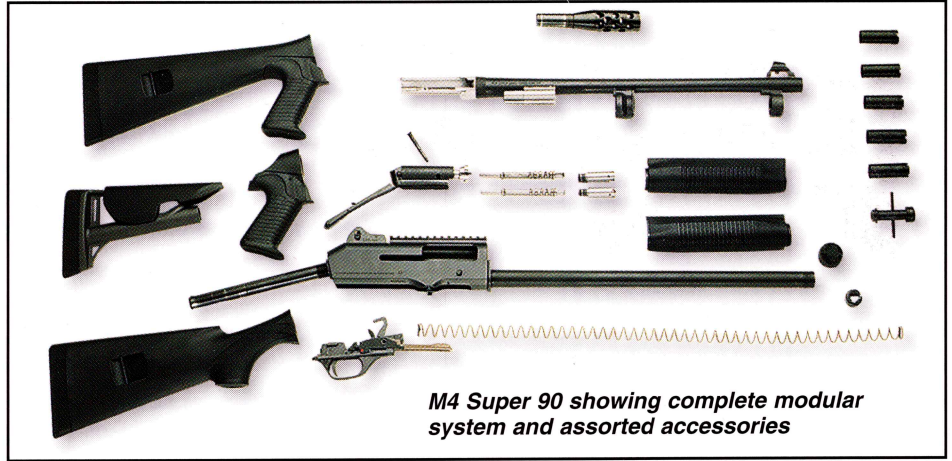


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(From left) M4 Super 90 with semi pistol grip stock and pistol grip stock.



M4 Super 90 showing complete modular system and assorted accessories

JOINT SERVICE COMBAT SHOTGUN TECHNICAL DATA & SPECIFICATIONS

	US Government Contract Requirement	HK/Benelli M4 Super 90 Combat Shotgun
Caliber	12 gauge (18.4 mm)	12 gauge (18.4 mm)
Chamber length	3.00" (76 mm)	3.00" (76 mm)
Method of operation	Semi-automatic and manual cycling	Semi-automatic and manual cycling
System of operation	Not specified	ARGO Twin System (Auto-Regulating Gas Operated) with dual gas system
Bolt system	Not specified	Rotating bolt head with dual locking lugs
Safeties	1. Ambidextrous manual safety 2. Disconnecter 3. Firing pin drop safety	1. Ambidextrous cross-bolt safety button with oversized heads. Reversible. 2. Disconnecter 3. Inertia firing pin drop safety
Magazine capacity with standard barrel	2.75" shells - 6	18.50" Barrel 14.00" Barrel 2.75" shells - 6 2.75" shells - 5 3.00" shells - 6 3.00" shells - 4 3.50" shells - N/A 3.50" shells - N/A
Buttstock	Modular stock with a with pistol grip as a modular component	Modular telescopic buttstock with removable pistol grip. Interchangeable by operator in seconds without tools. Optional pistol grip and semi-pistol grip buttstocks are also available
Captive hardware	Retaining pins	Yes. Trigger group locking pin
External finish	1. Steel parts - heavy phosphate 2. Aluminum parts - hard anodic 3. Durable, corrosion resistant, nonreflective black in color	1. Heavy phosphate, non-reflective, black in color 2. Hard Anodic 3. Yes
Barrel options	None specified	18.50" barrel with internal screw-in choke tubes. Optional 14.00" available. Barrels exchangeable by operator without tools.
Sights	Iron sights adjustable for windage and elevation	Iron Ghost Ring sights adjustable for elevation and windage with cartridge rim. Optional tritium sights available.
Accessory mounting rail	On receiver to MIL-STD-1913 dimensions	Yes. With 13 recoil grooves, semi-permanently attached to receiver using five mounting screws.
Sling attachment	Accommodate standard US Military rifle sling	Yes. Will accommodate standard U.S. Military rifle sling or optional HK multi-purpose combat carrying slings up to 1.25" in width. Silent ambidextrous attachment points.
Effective range and dispersion with 2.75" shells	OO Buck - 40 meters, 5 of 9 pellets must strike E-type silhouette	Average of 5.7 pellets struck E-type silhouette at 40 meters.
Safe unloading of magazine	Without cycling rounds thru action	Yes. Manual removal of loaded shells in magazine thru loading port.
Ambidextrous operation	Operate by left and right handed shooters	Yes. All operating controls and sling attachment points allow for ambidextrous operation.
Operator maintenance	1. Field strip in less than 60 seconds. 2. Clean and lube in less than 20 minutes. 3. Load in less than 25 seconds.	1. Yes. Average time to field strip is under 36 seconds. 2. Yes. Average time to clean and lube less than 10 minutes. 3. Yes. Average time to load 11.5 seconds
Endurance	10,000 rounds without requiring overhaul	Meets.
Reliability	Mean rounds between: • Stoppage - 300 • Failure - 975	During development testing: 667 rounds 2,000 rounds
Weights (pounds)	Unloaded in standard configuration must not exceed 8.5 pounds.	8.44 lbs.
Trigger pull	Between 4 - 8 pounds	5.50 - 7.28 lbs.
Overall length (inches)	Shall not exceed 41.75" and capable of being configured to a length of 35" or less.	39.8" extended 34.9" collapsed
Sight radius	Not specified.	23.7"
Height (inches)	Not specified	8.26"
Width (inches)	Not specified	2.3"
Rough Handling	Drop on concrete, five attitudes with loaded magazine from 5 feet. Must not ignite primed shell in chamber. Weapon shall remain safe and serviceable.	Fully meets requirement.