XM8 Lightweight Modular Weapon System

Adjustable five position collapsible buttstock. Folding, butt cap, and retractable stocks can also be fitted by the operator without tools in seconds. Multifunction Integrated Sighting Module (ISM) includes 1X red dot reflex sight with integral IR pointer and IR illuminator. DMAR variant has 4X optic sight.

Take down pins allow for complete field stripping without tools

Removable sight bridge Knurled cocking lever can lock to left or right and also functions as a forward assist

Flip-up back-up

Lightweight, high-strength polymer receiver components are completely corrosion proof. Ambidextrous safety/selector lever located on both sides of the receiver.

Beginning life as the 5.56mm KE (kinetic energy) component of the 20mm air-bursting XM29 Objective Individual Combat Weapon (OICW), the XM8 Lightweight Modular Weapon System represents the state-of-the-art in 5.56x45mm NATO assault rifles.

Developed by the US Army's office of Project Manager for Soldier Weapons located at Picatinny Arsenal, New Jersey in conjunction with the US Army Infantry Center, the XM8 Future Combat Rifle is intended to replace existing select 5.56x45mm weapons in the US Army arsenal beginning as early as the fourth quarter of FY05.

Once adopted, the XM8 Carbine will replace the aging M16/M4 family of weapons, which have been in service for nearly four decades, longer than any previous US service rifle. The XM8 Carbine will be up to 20% lighter than a comparably equipped U.S. M4 Carbine MWS and yet offer additional features and performance unavailable currently in any assault rifle in the world.

As a direct development of the separable OICW (XM29) KE module, the XM8 Carbine will share a high degree of common parts, reducing training and maintenance procedures required for the support of the "family" of XM8 weapons. Three XM8 variants, including a baseline carbine, a designated marksman/ automatic rifle (DMAR) variant, and an ultra-small compact carbine variant are being developed.

A unique feature of the XM8 modular weapon system is the ability to easily and quickly reconfigure the weapon from one variant to the other to meet changing mission requirements to include caliber conversion. This modularity includes interchangeable assembly groups such as the barrel, handguard, lower receiver, buttstock modules and sighting system with removable carrying handle. In addition and in parallel, a new quick detachable singleshot 40mm grenade launcher with side-opening breech and the new MASS (Modular Accessory Shotgun System) 12 gauge shotgun module can be easily added to the XM8 by the user in the field in seconds without tools.

Combined ambidextrous

bolt catch

and release

Ambidextrous

magazine release

The unique buttstock system allows the operator to exchange buttstocks without tools from the standard collapsible multi-position version, to an optional butt cap for maximum portability, to an optional folding or retractable buttstock for special applications.

Internally the XM8 employs a combat-proven robust rotary locking bolt system that functions and fieldstrips like that used in the current M16 rifle and M4 carbine. However, this bolt is powered by a unique gas operating system that employs a user removable gas piston and pusher rod to operate the mechanism.

Unlike the current M4/M16 direct gas system with gas tube, the XM8 gas system does not introduce propellant gases and the associated carbon fouling back into the weapon's receiver during firing. This greatly increases the reliability of the XM8 while reducing operator cleaning time XM8 operating system does not direct fouling back into the weapon's interior like conventional gas operated rifles. This insures reliable operation even after firing more than 20,000 rounds without cleaning. The polymer components can easily be cleaned with water-based cleaning solutions, or even water.

Translucent 30-round polymer magazines lock together and are 30% lighter that metal magazines. 100-round drum magazine also available.

by as much as 70%. This system also allows the weapon to fire more than 15,000 rounds without lubrication or cleaning in even the worst operational environments. A cold hammer forged barrel will guarantee a minimum of 20,000 round service life and ultimate operator safety in the event of an obstructed bore occurrence.

The XM8 has fully ambidextrous operating controls including a centrally located charging handle that doubles as an ambidextrous forward assist when required, ambidextrous magazine release, bolt catch, safety/selector lever with semiand full-automatic modes of fire, and release lever for the multiple position collapsible buttstock. The operating controls allow the operator to keep the firing hand on the pistol grip and the weapon in the firing position at all times while the nonfiring hand actuates the charging handle and magazine during loading and clearing.

Major components of the weapon are produced from highstrength fiber reinforced polymer materials that can be molded in almost any color to include OD green, desert tan, arctic white, urban blue, brown, and basic black. Surfaces on the XM8 that interface with the operator are fitted with non-slip materials

that of current in service rifles and carbines.



ONE WEAPON — MANY VARIANTS

The XM8 is designed as a modular weapon that fires 5.56 x 45mm NATO ammunition. Different barrels and other

• 30 round magazine or 100 round drum magazine









XM8 HIGHLIGHTS

- Multi-functional one weapon, many variants
- Integrated Sight/Lasers
- Ambidextrous Controls
- Reconfigurable at unit level one platform for all variants
- Backup Mechanical Sight
- Greater Accuracy \leq 2 MOA
- Greater Reliability 3X increase >20,000 rounds without stoppages

- Longer Weapon Service Life 2–3X increase 20,000 rounds minimum barrel life
- Reduced Cleaning Time 70% reduction
- Reduced Training Time 2X reduction
- Lower System Weight 15% reduction
- Lower System Cost 30% reduction
- Zero Drain Time













XM8 Lightweight Weapon System 5.56 x 45mm NATO

XM8 SPECIFICATIONS

Short stroke piston, gas operated. Firing from a closed bolt. Rotary locking 6-lug bolt head Semi-auto and full automatic fire (cyclic rate of fire approximately 825 rounds/minute) 10 or 30 round capacity, 100 round drum also available (30 round magazines can be nested together with or without accessory dual magazine clamp)

Sighting System

Magazine

Overa

Height Width

Barrel

Rifling Barrel

Stock

Operating System Modes of Fire

1/1 Integrated Sight Module (ISM) with red dot reflex sight adjustable for windage and elevation with IR laser illuminator and pointer. Flip-up mechanical back up sights

XM8 Carbine and XM8 Compact Carbine

XM8 Designated Marksman/Automatic Rifle (DMAR) 4X Advanced Magnified Optic (AMO) with red dot, etched ranging reticle sight with IR laser illuminator and pointer, adjustable for windage and elevation. Flip-up mechanical back up sights

XM8 DIMENSIONS

ll Length	Carbine: 30.30 in (buttstock retracted), 33.30 in (buttstock extended) Compact Carbine: 22.4 in (buttstock retracted), 30.00 in (buttstock extended) Compact Carbine with buttcap: 21.10 in DMAR: 37.60 in (butt stock retracted), 40.60 in (buttstock extended)
t	11.25 inches 2.25 inches
Length Life	Carbine: 12.50 inches Compact Carbine: 9.00 inches DMAR: 20.00 inches 1 turn in 7 inches > 20,000 rounds

Collapsible, 5 position adjustable for length, optional retractable buttstock, folding collapsible, and buttcap also available

WEIGHTS

Carbine: 7.51 lb **Compact Carbine:** 7.10 lb (with collapsible stock) **DMAR:** 10.18 lb **Sling:** .485 lb Magazine (with 30 rounds): 1.08 lb Empty Magazine: .30 lb

Magazine (with 100 rounds): 4.80 lb Empty 100 Round Magazine: 2.20 lb

BALLISTICS

Muzzle Velocity (M855 Ball)

3005 feet/second with 20 inch barrel 2695 feet/second with 12.5 inch barrel 2425 feet/second with 9.0 inch barrel

Specifications and models subject to change



HECKLER & KOCH DEFENSE 21480 Pacific Boulevard Sterling, Virginia 20166 U.S.A. telephone 703.450.1900 fax 703.450.8163 www.hkdefense.us