



M27 Infantry Automatic Rifle

5.56 mm x 45

HK[®]
HECKLER & KOCH

M27 Infantry Automatic Rifle 5.56 mm x 45

A variant of the Heckler & Koch HK416, the M27 Infantry Automatic Rifle (IAR) was selected by the U.S. Marine Corps in August 2011 in an innovative program to develop a highly accurate, lightweight, and more reliable alternative to currently fielded light machine guns.

The "M27" designation represents a tribute to the 2nd Battalion, 7th Marine Regiment which is the unit that devised the original concept of the Infantry Automatic Rifle. The Infantry Automatic Rifle program began in 2001 as a "needs statement" within the Marine Corps. Operational experience in Iraq and Afghanistan in the last several years reinforced the requirement.

The program called for a magazine-fed 5.56 mm automatic rifle designed to be operated by a single Marine and possessing greater accuracy, increased reliability, and lighter weight than the existing belt-fed 5.56 mm machine gun. These factors would enhance the automatic rifleman's maneuverability and speed to either augment and/or replace the belt-fed M249 Squad Automatic Weapon (SAW). As recent testing and operational deployment has confirmed, the IAR is more readily adapted for house-to-house clearing operations and day-to-day employment by the automatic rifleman when compared to an M249. A fully loaded M27 IAR weighs less than half that of an M249 SAW.

During a rigorous selective process that began in 2005, the Heckler & Koch HK416 IAR competed against more than seven weapon models submitted by six companies. In 2009, after surviving several "down selects" that eliminated all but a handful of candidates weapons, the HK416 was selected as the finalist from the three remaining companies (the others being FN and Colt Defense).

Initial operational testing in locations including the Marine Corps Mountain Warfare Training Center and Marine Corps Air-Ground Combat Center further demonstrated the suitability of the HK416 for the Infantry Automatic Rifle role.

In 2010, HK was awarded with a Low Rate Initial Production (LRIP) order for approximately 500 systems. The rifles were delivered on the Marine Corps' Birthday, November 10th, 2010 for initial training, limited fielding, and selected Marine infantry unit/user assessments.

The Marine Corps completed their initial fielding and assessments in the summer of 2011 and in the autumn of 2011 Heckler & Koch was awarded a Full Rate Production award.

With a 10.4 inch barrel, this HK416 variant is handy when operational demands make a short barrel more suitable. Despite its short length, accuracy matches or exceeds competing M4/M16/AR systems with 14.5 inch and longer barrels.



HK416 – with 10.4 inch barrel

The HK416 with 14.5 inch barrel is the variant closest to the M4 carbine. Aside from standard features like the Free Floating (Picatinny) Rail System (for optimal accuracy), barrel service life exceeds 15,000 rounds.



HK416 – with 14.5 inch barrel

The MR556A1 is a semi-automatic variant of the HK416. Well-suited as a law enforcement patrol carbine, the highly accurate 5.56 mm MR556A1 is commercially available in most U.S. states.



HK MR556A1 – semi-automatic with 16.5 barrel

HK416 upper receiver kits include a complete barrel assembly (10.4, 14.5, 16.5, or 20 inch barrels), bolt assembly, and buffer with buffer spring and allow existing M4/M16 systems to be easily retrofitted to HK's ultra-reliable pusher rod operating system.



M4 type – with HK416 upper receiver kits



CUTAWAY VIEW OF M27 OPERATING SYSTEM
The M27 uses an HK proprietary gas system instead of the normal gas impingement system (gas tube) found on most M4/M16-type arms. The HK system employs a piston driving an operating rod to control the function of the bolt, preventing propellant gases and the associated carbon fouling from entering the weapon's interior. This increases the reliability of the weapon, reduces operator cleaning time, minimizes heat transfer to the bolt and bolt carrier, and lessens wear and tear on critical components.



**HK416 IAR (M27)
5.56 MM X 45
(SHOWN WITH BUTTSTOCK EXTENDED)**

Reversible ambidextrous charging handle

Trijicon ACOG 3.5x35 Squad automatic-weapon Day Optic (S.D.O.) with R.M.R. and LaRue tactical quick detachable mount

Long (11 inch) quad one-piece Picatinny free floating rail system (FFRS) with AIM Manta rail earth color (tan or black) rail covers

Knight's Armament Company 600 meter front sight (BUIS-backup iron sights)

U.S. style bayonet lug/interface

HK barrel has service life of 15,000 rounds

Knight's Armament Company 600 meter rear sight (Micro/BUIS-backup iron sights)

Ergonomic interchangeable pistol grip with internal storage compartment.

6 position adjustable buttstock assembly with integral storage & multiple sling attachment points

Ambidextrous fire selector with safe, semi-automatic, and automatic function

30-round aluminium U.S. military magazine. HK steel and other magazines optional

Vertical "broomstick" foregrip

Harris-LaRue 9-13 inch quick detachable bipod

M16 style flash hider installed on 16.5 inch chrome-lined cold hammer forged barrel

M27 Infantry Automatic Rifle Accessories

The M27 Infantry Automatic Rifle is equipped with the following accessories: Knight's Armament Company Flip-Up Front and Rear Sights, Blue Force Gear VCAS Sling & Rail Mount, AIM Manta Rail Covers, Harris/Larue Tactical Bipod with Quick Detach or Gripod, U.S.-style Blank Firing Adaptor, (BFA), Otis Cleaning Kit, U.S. government 30-round magazines (HK magazines optional), Trijicon Squad automatic weapon Day Optic (S.D.O.), USMC bayonet.



M27 with Blue Force Gear Sling Rail Mount & VCAS Sling installed (stock retracted).

M27 Infantry Automatic Rifle

5.56 mm x 45

The M27 Infantry Automatic Rifle is a variant of the HK416. The HK416 was originally developed by Heckler & Koch for U.S. special operations forces as a major product improvement of M4/M16-type carbines and rifles. Using the HK-proprietary gas piston system found on the company's G36 rifle, the HK416 prevents propellant gases and carbon from fouling the weapon's interior, making it the most reliable of any M4/M16 type weapon.

During the last decade, the HK416 has been combat-proven in Southwest Asia and has also gained the attention of military, law enforcement, and security users outside of the U.S. In April 2007, the HK416 was selected as the new Norwegian Army rifle.

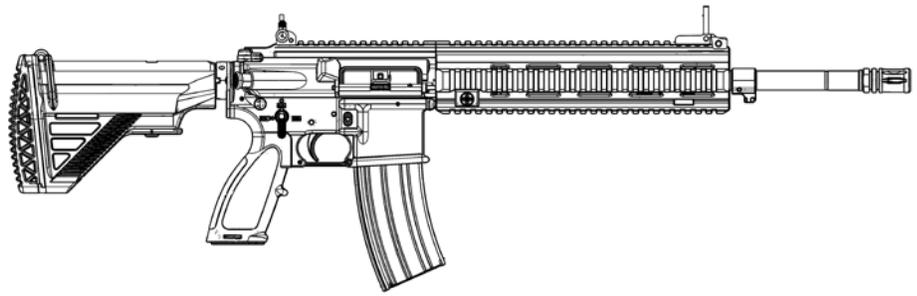
The HK operating system, as well as other improvements made to various components and parts ensure reliability and performance in all scenarios, with all types of ammunition, with all barrel lengths, and with and without sound suppressors attached. An innovative free-floating four-quadrant rail system/handguard designed by HK allows all current accessories, sights, lights, and aimers used on M4/M16-type weapons to be fitted to the HK416. This HK rail system handguard can be installed and removed without tools.

The HK416 uses barrels produced by Heckler & Koch's famous cold hammer forging process. The highest quality steel is used in this unique manufacturing process producing a barrel that provides superior performance with minimal degradation of accuracy and muzzle velocity even after thousands of rounds are fired.

Many HK416 variants also have "OTB" (over-the-beach) features and can be safely fired after being submerged in water and not completely drained. In addition to the improvements in the baseline weapon, HK has produced corrosion resistant steel and polymer magazines and a proprietary buffer to further enhance functional reliability.

M27 EQUIPPED OR INTEGRATED AT SERVICE LEVEL WITH:

- KNIGHT'S ARMAMENT CO. 600 METER MICRO/BACKUP IRON SIGHTS
- BLUE FORCE GEAR SLING RAIL MOUNT & VCAS SLING
- AIM MANTA RAIL COVERS
- HARRIS LARUE TACTICAL BIPOD WITH QUICK DETACH OR GRIPOD
- U.S.-STYLE BLANK FIRING ADAPTOR (BFA)
- OPERATOR'S MANUAL
- OTIS CLEANING KIT
- U.S. GOVERNMENT 30-ROUND MAGAZINES (HK MAGAZINES OPTIONAL)
- TRIJICON SQUAD AUTOMATIC WEAPON DAY OPTIC (S.D.O.)
- USMC BAYONET



TECHNICAL DATA

| | |
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| NSN | 1005-01-579-5325 |
| Manufacturer | Heckler & Koch / HK416 variant |
| Caliber | 5.56 NATO (.223 Caliber) |
| Length | 33.5–37.5 inches |
| Weight | 8.16 pounds (weapon only) Approximately 12.67 pounds (weapon, 30-round loaded magazine, accessories including: iron sights, SDO-optic, PEQ-16, VCAS sling, QD 9-13" bipod, vertical foregrip, and rail cover set) |
| Barrel | 16.5 inches, cold hammer forged with bayonet lug |
| Rifling | 1 in 7 inches, right-hand twist, 6 grooves |
| Sights | As assigned by USMC — Knights Armament Company 600 meter backup iron sights (BUIS) |
| Optic | As assigned by USMC — Trijicon S.D.O., 3.5 x 30 mm, 100 - 1,000 meter reticle with quick ranging feature and close range Ruggedized Miniature Reflex (RMR) |
| Rail system | 1-piece quad (M1913 Picatinny) Free Floating Rail System / 11" length |
| Buttstock | 6-position adjustable with storage space |
| Operation | Air-cooled, gas operated, short stroke piston driven operating rod, firing from a closed bolt |
| Selector | Safe, Semi, Automatic / Ambidextrous |
| Magazine | 30-round U.S. government magazines (HK magazines optional) |
| Muzzle velocity | Approximately 2,900 FPS (with M855 ammunition) |
| Rates of Fire | Cyclic: Approximately 700-900 RPM Sustained: Approximately 36+ RPM Semi: Approximately 45 RPM Automatic: Approximately 90+ RPM (3-5 round burst) |
| Accuracy | Test guns with 15,000 rounds have fired 2 MOA with M855 ammunition |
| Single fire | Single fire: Less than 4 MOA (averages 2.5 MOA with M855 ammunition) |
| Automatic fire | Less than 8 MOA with 5-round burst (averages 5.5 MOA with M855 ammunition) |
| Graduated Range | Iron sight graduated effective range: 600 meters Optic graduated effective range: 1000 meters |
| Maximum range | Approximately 3,545 meters |
| Barrel life | 15,000 rounds minimum |
| Parts life | 10,000 rounds minimum |
| Other | Equipped with "Over the beach (O.T.B.)" w features and other enhancements |

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