

# HK 416 / HK416-A5 5.56mm x 45



HK416 10.4 inch barrel model shown in SALES CONFIGURATION (no mechanical sights). Contact HK for selection of optional sights and other accessories.

The HK416 is a 5.56x45mm magazine fed lightweight auto rifle available in multiple barrel lengths that is gas operated via short stroke gas piston system for enhanced reliability built on the common M4/M16/AR15 style platform. Often discussed as the multi-role weapon.

#### A multi-role weapon:

The base HK416 system equipped with various accessories, ammunition, and/or barrel lengths can and has provided:

- A level of sustained automatic fire while remaining incredibly man-portable without fatigue.
- Designated Marksman (DM) precision fire using precision ammunition & accessories.
- Use in Direct Action (DA) & CQB roles (with either automatic or single fire).
- In the amphibious role providing enhanced operator safety features within the design.
- In the role of law enforcement patrol rifles, first responders, and an enhanced security presence.
- As a general service weapon.

#### Background:

The HK416 was developed by HK for an enhanced and improved M4 style system for Military special operations and Law Enforcement use that provided more reliability and was longer lasting with increased operator safety.

The HK416 was developed by Heckler & Koch for US special operations forces as a major product improvement of M4/M16-type carbines and rifles during the early 2000s. Using the HK-proprietary gas piston system with a short stroke operating rod, the HK416 does not introduce propellant gases and carbon fouling back into the weapon's interior, making it the most reliable of any M4/M16 type weapon. The HK416 has been combat-proven in Southwest Asia and has also gained worldwide attention of military, law enforcement, and security users particularly within the special operations units.

Some global examples either by SOF, Law Enforcement, or Military units are:

- 2005, Initial use by various Special Operations Forces with Military and Law Enforcement.
- 2007, HK416 selected as the Norwegian Military rifle
- 2006 – 2018, In use by various elements of the countries of

Australia, Brazil, Croatia, Czech Republic, France, Germany, Hungary, India, Indonesia, Ireland, Italy, Japan, Jordan, Lithuania, Malaysia, Netherlands, Philippines, Poland, Serbia, Singapore, South Korea, Spain, Turkey, United States of America, and others.

In 2011 the HK416 was competitively selected by the US Marine Corps (USMC) for their Infantry Automatic Rifle (IAR) program and designated the M27. The M27 (HK416) replaced the M249 belt-fed Squad Automatic Weapon (SAW) issued to the Automatic Rifleman within the squad. In 2016 the U.S. Marine Corps authorized the MagPul PMag 30-round magazines NSN 1005-01-615-5169 (black) and NSN 1005-01659-7086 (tan) after 20,000+ round tests with the M27, M4, and M16A4 weapons and various service-related USMC and US Army ammunition. In 2017 the service authorized the use of the M27 as the M38 Squad Designated Marksman Rifle (SDMR)/Special Purpose Rifle (SPR) at the infantry squad/platoon level with the use and integration of existing service level accessories which include a designated marksman optic, suppressor, and precision ammunition meeting the requirements of the MK12 SPR. In 2018 the service authorized the use of the M27 (HK416) across the entire Infantry within the infantry squads.

In 2017 the French Armed Forces replaced over 100,000 of their existing weapons with the HK416.

#### Unique Features:

Reliability, Durability, Safety, Quality and Accuracy

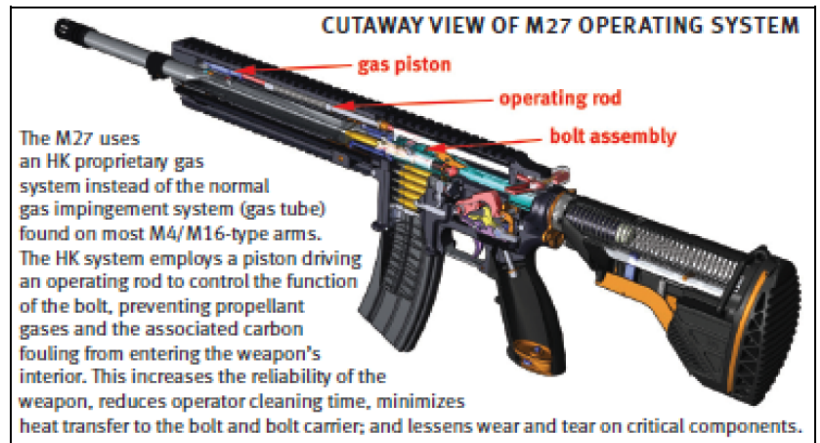
#### Operation:

Short stroke Gas Piston & "Pusher Rod" operated system provides a more reliable operation while maintaining a cleaner system.

- Directs 95% of hot propellant gases and fouling out of the muzzle end of the weapon reducing fouling of the bolt & bolt carrier/chamber areas.
- Provides minimal heat transfer reducing wear on key components.
- Reduces operator cleaning time.
- Disassembles in seconds.
- More reliable when firing various ammunition types from shorter barrels and in adverse conditions.
- Can increase sustained rates of fire due to less heat transfer compared to gas impingement systems.
- Rotating bolt & Closed bolt fired system for enhanced precision and safety compared to open bolt system.



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## **Bolt group/Firing Pin Safety:**

Firing Pin Safety provides safer operation and prevents accidental discharge due to dropped weapon.

## **Barrel:**

HK is well known for the high-quality exacting barrel steel manufacturing. The Cold Hammer forged barrel provides a minimum barrel life of 15,000 rounds that has minimal accuracy degradation with higher round counts as well as minimal deviation in muzzle velocity and gas port erosion. (Some users have reported over 40,000 round life.)

- Tapered bore profile allowing slightly higher muzzle velocities (critical in shorter barrel lengths)
- Extended and reinforced barrel nut providing a stronger connection between the barrel and receiver.
- 1 in 7 right hand twist rifling for the widest use of ammunition from shorter barrels.

## **Enhanced operator safety:**

Capable of being fired immediately after submersion in water/sand/mud with "Over the Beach" (OTB) features in specified HK416 variants as added safety feature. HK does not recommend firing the weapon under harsh conditions however, the HK416 provides additional built in safety design criteria to enhance operator safety and maintain the integrity of the weapon when fired in harsh environments.

## **Rail System:**

Free Floating Rail System (FFRS) which is a one-piece, MIL STD M1913 Picatinny rail with 12, 3, 6, and 9 O'clock positions that is easily removable and enhances accuracy and disassembly/Maintenance time. Other after-market rails are also available.

- Standard HK416 rail length is approximately 9 inches.
- Retains zero and alignment of accessories with correct removal/installation of FFRS
- Top FFRS rail is in line and on the same plane as the receiver for use with optics and night vision enhancers.
- With the use of a spare FFRS, allows for use of mission/environment specific accessories while minimizing zero time.
- Increased precision via a more free-floated barrel.
- Offers additional locations for accessories such as mechanical sights, lasers, finger guards, vertical grips, Thermal-wire management grips, lights, sling attachments, HK GLM 40x46mm attachment, etc.

## **Magazine Fed:**

The HK416 accepts HK steel and polymer magazines with common 10/20/30 round capacities and various aftermarket AR15/M4/M16 style magazines such as MagPul EMags and MagPul PMag GenM3 with windows. HK does not recommend the use of older style Pmags and the Army Enhanced magazine with tan body and bright colored follower. Higher than 30-round capacity magazines will function in the HK416, however HK recommends the agency test these items to ensure suitability and reliability requirements.

## **Ergonomics/Controls:**

The HK416's controls (selector lever/safety, magazine release, bolt release, charging handle, stock adjustment) are located in the same locations as the AR15/M4/M16 style of weapons saving training time and familiarity and weapon operation. Some of the controls can be ambidextrous capable.

## **Sight Options:**

The HK416 can accept any mechanical iron sight or optic and associated mount that fits a Picatinny rail system. With many agencies and user groups comes many varied requirements for sight and optics therefore, HK allows the user agency to install their specific sights meeting their requirements.

## **Testing:**

HK weapon systems are manufactured with an ISO-9001 quality and test process. HK weapon designs for military use are additionally tested to the NATO AC/225 requirements which are similar to US Mil-Spec testing. Each weapon receives two high-pressure proofing rounds, function firing, along with other quality test requirements required by German law in order to receive the proof marks and allowed to be transferred.



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The HK416 "A5" variant has the latest adjustable gas system, completely ambidextrous controls and other new features. Shown with RAL8000 color scheme, 11 inch barrel, slimline buttstock, and no mechanical sights.

The two-stage gas system can be adjusted without tools, and allows the operator to easily switch between the 'normal' and 'suppressor' settings.

## Improved HK416 variants:

The HK416A5 models (from 2016) are improved variants of the HK416 via HK's continual product improvement process. Some customers still prefer the original HK416 style systems while others opt for the A5 version. The HK416A5 common barrel lengths are 11 and 14.5 inches.

## Main improvements on the HK416A5:

- The barrel extension and lock up onto the upper receiver is also improved compared to older models. For this reason, the older HK416 barrels/gas blocks/upper receivers cannot be mixed with the A5 versions.
- The HK416A5 has a two-stage adjustable gas block.
- The handguard has a continuous Picatinny slots on the top rail from upper receiver to handguard compared to a 2-slot gap on older models.
- The A5 has all ambidextrous controls. The magazine release can be converted back with the use of the A1/2/3 style magazine release.
- The charging handle is ambidextrous. Older style and aftermarket charging handles can still be used.
- The trigger can be placed on safe no matter the condition of the weapon or bolt carrier due to a split sear improvement. (note that all the trigger components are not compatible with the standard HK416).
- The trigger and hammer axles are further improved with the use of a C-clip as well as the interior springs. (note that the trigger /hammer pins are not compatible with the standard HK416).
- The castle nut has been extended for improved drop reliability and the weapon comes standard with a slim line, snag free stock.
- The magazine well is of the M4 style angle to accept a wider variety of aftermarket magazines.

## Commercial variants:

The HK MR556 is the USA build 16.5-inch barrel single fire commercial version of the HK416 and is built for precision. The MR556 has a

thicker barrel that is heat pressed into the receiver providing an increase in precision. There is also an MR556 Upper Receiver Kit (URK) that can be added on to compatible AR style lower receivers. The MR223 is the European build of the same and is not compatible with AR style lowers.

The MR762 is the USA build of the larger caliber .308 16.5-inch barrel version and the MR308 is the European build of the same.

There is also an HK416 .22 Long Rifle system that uses a simple blow back operation with a 16.1-inch barrel.

For more information on commercial products visit: <https://hk-usa.com/product/rifles/> and contact an HK commercial or HK law enforcement dealer.

## Training:

Certified armorer training is offered by HK on our products. This can be at one of our HK facilities or hosted at your location with a minimum number of qualified students. Visit <https://training.hk-usa.com/> for more information on HK armorer training.

Force on force training with the HK416 can be provided by using aftermarket options such as Simunition bolts and ammunition [https://simunition.com/en/products/conversion\\_kits/4-rifles-carbines](https://simunition.com/en/products/conversion_kits/4-rifles-carbines) and <https://simunition.com/en/> or UTM bolts and ammunition <https://utmworldwide.com/> and <https://utmworldwide.com/conversions/heckler-koch-conversions/#rifle>.

## Accessories:

There are numerous options on accessories for the HK416 available through multiple sources. Please see the HK416 accessory catalog for further details.



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## Basic Specifications (approximate):

Item	HK416	HK416-A5
Caliber	5.56x45mm	5.56x45mm
Operation	Air cooled, gas operated, short stroke piston driven operating rod, closed bolt	Air cooled, gas operated, short stroke piston driven operating rod, closed bolt
Mode of fire (Single fire only selector components are an accessory option)	Safe/Semi/Auto	Safe/Semi/Auto
Cyclic rate of fire	700-900 RPM (Auto)	700-900 RPM (Auto)
Sustained rates of fire	36+ RPM	36+ RPM
Common rates of fire	Semi: 45 / Auto: 90+ RPM	Semi: 45 / Auto: 90+ RPM
Common Accuracy	2 MOA	2 MOA
Magazine Capacities	30/20/10	30/20/10
Bolt	Multi lug, rotating, closed bolt	Multi lug, rotating, closed bolt
Barrel	Cold Hammer Forged, chrome lined, 1 in 7 inch RH twist, 6 grooves	Cold Hammer Forged, chrome lined, 1 in 7 inch RH twist, 6 grooves
Barrel Lengths (common)	10.4 / 14.5 inch	11 / 14.5 inch
Gas Block	Fixed one-stage	Two-stage adjustable
Controls	Standard M4 style	Ambidextrous, M4 style
Magazine Well Angle	More squared/longer front	M4 style angled
Sight radius (common)	14.5 inches	14.5 inches
Width (widest points)	3.07 inches	3.07 inches
Height (sights, mags, stocks can adjust overall height)	9.45 inches	9.45 inches
Weight range (common)	7.21 – 8.4 pounds	7.5 – 8.4 pounds
Overall Lengths (varies with stocks, flash hiders, etc)	HK416 10.4" barrel = 27.6 – 31.4 inches HK416 14.5" barrel = 31.65 – 35.43 inches	HK416A5 11" barrel = 27.91-31.69 inches HK416A5 14.5" barrel = 31.65 – 35.5 inches
Forend Rail system	Free Floating	Free Floating
Stock	Adjustable – Multi position Collapse/extend	Adjustable – Multi position Collapse/extend
Optic / Sight attachment	Picatinny Rail	Picatinny Rail
Effective Ranges (varies with optic-sight/ammunition configurations & skill level)	Common Point target: out to 300M Point target: 300M-500M Area target: out to 600M+	Common Point target: out to 300M Point target: 300M-500M Area target: out to 600M+

