

# HK416 Enhanced Carbine Caliber 5.56x45mm NATO



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HK416 model D10RS with HK AG416 40x46mm add-on grenade launcher.

HK416 model D10RS (10-inch barrel, retractable stock) shown with optional HK diopter sights, free-floating rail system, HK high-reliability 30-round steel magazine, and sling.

## SPECIFICATIONS

<b>Caliber</b>	5.56x45mm NATO (.223 Remington)
<b>Operation Principle</b>	Gas operated, firing from a closed bolt.
<b>Bolt Principle</b>	Refined rotating bolt head with multiple locking lugs
<b>Modes of Fire</b>	Semi-automatic, full automatic
<b>Feed Device</b>	HK high-reliability 20 or 30-round steel box magazine
<b>Cyclic Rate of Fire</b>	700-900 rounds per minute
<b>Weight</b>	D10RS model – 7.3 lb D145RS model – 7.7 lb U10" upper – 5.0 lb U145" upper – 5.5 lb
<b>Barrel Length</b>	D10RS model – 10.5" D145RS model – 14.5"
<b>Overall Length</b>	D10RS (retracted) – 27.0" D10RS (extended) – 30.9" D145RS (retracted) – 31.0" D145RS (extended) – 34.9"
<b>Height (w/o sights)</b>	7.25"
<b>Width</b>	2.25"
<b>Trigger Pull</b>	4.5 – 6.0 lb.
<b>Barrel Twist</b>	1 in 7", right hand
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Short-stroke piston gas system <ul style="list-style-type: none"> <li>- Improved reliability and function without H<sub>2</sub>O fording</li> <li>- No fouling directed into weapon, less cleaning</li> <li>- User removable/exchangeable</li> <li>- Insensitive to barrel length or ammunition changes</li> </ul> </li> <li>• Improved buffer system</li> <li>• Improved steel magazine (30 and 20-round capacities) <ul style="list-style-type: none"> <li>- Improved feeding reliability, durability, service life</li> </ul> </li> <li>• Refined barrel/bolt locking recesses/lugs <ul style="list-style-type: none"> <li>- Improved function</li> </ul> </li> <li>• Improved extractor and spring, buffer <ul style="list-style-type: none"> <li>- Improved function</li> </ul> </li> <li>• Enhanced AG416 add-on 40mm grenade launcher</li> <li>• HK cold-hammer forged barrel <ul style="list-style-type: none"> <li>- Extended service life, improved accuracy and user safety</li> </ul> </li> <li>• HK free-floating rail system (same height as upper receiver)</li> <li>• Safety Blank Firing Adapter and Live Round Excluder Magazine</li> <li>• Beveled and flared magazine well</li> </ul>
<b>Additional ongoing work</b>	<ul style="list-style-type: none"> <li>• Improved surface finish, ambidextrous controls</li> <li>• Integrated reflex sight with nested IR laser aimer and illuminator</li> <li>• Match 2-stage trigger mechanism</li> <li>• 16.5" and 20" variants</li> </ul>

Inspired by the resounding success of the mid-life improvement program of the British SA80 (L85/L86) Weapons System, Heckler & Koch began a development program to create the HK416 Enhanced Carbine.

Working with current users from around the globe, HK set out to produce an Enhanced Carbine that would outperform competing 5.56mm carbines and provide the high degree of performance required by the user community, particularly those within the special operations arena who demand more and expect no compromise when lives are at stake.

High-speed video assessment and extensive live-fire testing in extreme operational environments such as the U.S. Army Desert Proving Ground in Yuma, Arizona revealed multiple areas for improvement of the 5.56 mm carbine. Improvements were made to the internal operating system and miscellaneous component parts to improve reliability in best and worse case scenarios, with all types of ammunition, with all barrel lengths and with and without sound suppressors attached.

An innovative free-floating 4-quadrant rail system designed by HK allows all current standard accessories and sights to be fitted to the HK416 and can be removed without tools.

The HK-proprietary gas system does not introduce propellant gases and the associated carbon fouling back into the weapon's interior. This reduces operator cleaning time, increases the reliability of the

weapon and extends the interval between stoppages.

To improve reliability, service life, and operator safety during obstructed bore occurrences or after extreme extended firing sessions, HK has produced its famous cold hammer forged barrel for the HK416 in various lengths to include 10, 14.5, 16.5, and 20 inches.

The highest quality steel is used in this unique manufacturing process producing a barrel that provides superior accuracy for greater than 20,000 rounds with minimal degradation of accuracy and muzzle velocity.

In addition to the improvements in the baseline weapon, HK has produced a high-reliability magazine and a proprietary buffer to improve functional reliability.

An add-on single shot 40 x 46mm AG416 enhanced grenade launcher module can be quickly attached to the rail system of all models without tools.

Heckler & Koch has applied its proven and fielded Safety Blank Firing Attachment and Live Round Excluder Magazine technology to the HK416 Carbine, eliminating the possibility of live rounds being loaded into and fired through a standard issue weapon outfitted for blank firing only.

A "drop-in" HK416 upper receiver module and a complete carbine are both being offered with deliveries beginning in February 2005. The full potential of the 5.56mm carbine has now been realized with the introduction of the HK416.

## HK High-Reliability 30-Round Steel Magazine (for use in AR15/M16/M4/SA80 type rifles)

Adopted by U.S. Army Special Operations Command  
NSN 1005-01-520-5992



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A weapon system is only as reliable as the feed device. Current available aluminum and polymer magazines for M16-style weapons have long been the weak link in the reliable performance of these weapons. This remains true with today's offerings of military-issue magazines and those from after-market sources. Now, HK offers the solution to this problem.

Considered by users in elite US military and law enforcement units as the best and most reliable M16-style magazine in the world, the new Heckler & Koch High-Reliability 30-Round Steel Magazine is designed for use in any U.S. M16/M4/AR15-style rifle, and any weapon that utilizes this NATO-standard magazine.

Originally developed by HK for the British L85 (SA80) & L86 weapons, this curved 30-round magazine provides a substantial improvement (30-

50%) during extensive reliability and durability testing.

The superior function of the magazine was validated during three separate tests of the L85/L86 with the British MoD in arctic, jungle, and desert environments during the firing of more than 1/2 million rounds.



HK High-Reliability 30-round Steel Magazine  
in use in the HK416 Enhanced Carbine.

The HK High-Reliability 30-Round Steel Magazine features a well executed design, select materials, special anti-friction surface finish, advanced spring material, attention to production tolerances, and steel magazine housing and follower. HK also offers

**"Superior function  
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this magazine with a proprietary HK "Maritime" anti-corrosion coating and in a 20-round capacity.

Affordable and uncompromising in its execution, the HK High-Reliability 30-Round Steel Magazine is available to military units and law enforcement agencies.

### SPECIFICATIONS

<b>Length</b>	7.48 inches (190 mm)
<b>Width</b>	.94 inches (20 mm)
<b>Height</b>	2.56 inches (65 mm)
<b>Weight (empty)</b>	.54 lb. (.25 kg)
<b>National Stock Numbers (NSN)</b>	1005-99-126-9781 (Anti-friction) 1005-01-520-5992 (Maritime/Anti-corrosion)
<b>HK Part Numbers</b>	209472 (Anti-friction) 251770 (Maritime/Anti-corrosion)