

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, and HK high-reliability 30-round steel magazine.

SPECIFICATIONS

Caliber	5.56x45mm NATO (.223 Remington)
Operation Principle	Gas operated, firing from a closed bolt.
Bolt Principle	Refined rotating bolt head with multiple locking lugs
Modes of Fire	Semi-automatic, full automatic
Feed Device	HK high-reliability 20 or 30-round steel box magazine
Cyclic Rate of Fire	700-900 rounds per minute
Weight	D10RS model – 7.3 lb D145RS model – 7.7 lb U10" upper – 5.0 lb U145" upper – 5.5 lb
Barrel Length	D10RS model – 10.5" D145RS model – 14.5"
Overall Length	D10RS (retracted) – 27.0" D10RS (extended) – 30.9" D145RS (retracted) – 31.0" D145RS (extended) – 34.9"
Height (w/o sights)	7.25"
Width	2.25"
Trigger Pull	4.5 – 6.0 lb.
Barrel Twist	1 in 7", right hand
Unique Features	<ul style="list-style-type: none"> • Short-stroke piston gas system <ul style="list-style-type: none"> - Improved reliability and function without H₂O fording - No fouling directed into weapon, less cleaning - User removable/exchangeable - Insensitive to barrel length or ammunition changes • Improved buffer system • Improved steel magazine (30 and 20-round capacities) <ul style="list-style-type: none"> - Improved feeding reliability, durability, service life • Refined barrel/bolt locking recesses/lugs <ul style="list-style-type: none"> - Improved function • Improved extractor and spring, buffer <ul style="list-style-type: none"> - Improved function • Enhanced AG416 add-on 40mm grenade launcher • HK cold-hammer forged barrel <ul style="list-style-type: none"> - Extended service life, improved accuracy and user safety • HK free-floating rail system (same height as upper receiver) • Safety Blank Firing Adapter and Live Round Excluder Magazine • Beveled and flared magazine well
Additional ongoing work	
• Improved surface finish, ambidextrous controls	
• Integrated reflex sight with nested IR laser aimer and illuminator	
• Match 2-stage trigger mechanism	
• 16.5" and 20" variants	

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 5.56mm 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, and increases the reliability of the HK416 Enhanced Carbine Caliber 5.56x45mm NATO 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. HK416 model D10RS with HK AG416 40x46mm add-on grenade launcher.

The elimination of the gas tube typical of the Stoner AR15/M16 direct gas operating system means that the HK416 will function normally even if the weapon is fired full of water without first being drained.

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.

The goal of the program was to offer a 5.56mm carbine that will fire 20,000 rounds without cleaning, lubrication, stoppages, or parts replacement.

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.