

# HX-QD 762 Ti

## PRODUCT SUMMARY

The HX-QD 762 Ti utilizes a patented Flow-Through® design that moves the gases through the unit in a helical pattern that allows for expansion and cooling as they exit out the front. The torque generated by the exiting gases keeps the suppressor snug on the mount. No tools are needed for installation or removal.

The HX-QD 762 Ti's Flow Through system does not increase back pressure (blowback) like a traditional baffle suppressor. This innovative technology produces heat at a lower rate than a traditional suppressor, and it does not increase toxic gas discharge at the ejection port. The HX-QD 762 Ti does not increase bolt velocity (+/- 5%). Therefore, muzzle rise and recoil are managed, and there is no increase in weapon malfunctions.

<b>WEIGHT:</b>	14.5 oz / 411 g
<b>OVERALL LENGTH:</b>	7.2 in / 18.3 cm
<b>LENGTH ADDED TO BARREL:</b>	6.6 in / 16.8 cm
<b>LENGTH ADDED TO MUZZLE DEVICE:</b>	4.9 in / 12.4 cm
<b>DIAMETER:</b>	1.62 in / 4.1 cm
<b>SOUND PRESSURE LEVEL:</b>	136-140 dB with microphones located at the shooters ear / 142-145 dB with microphones located 1 meter to the left of the muzzle (measured with 16" HK MR762A1 using MK118LR ammunition)
<b>BOLT VELOCITY:</b>	5% from baseline with Muzzle Brake-QD 762 (measured with 16" H&K MR762A1 using MK118LR 175gr ammunition)
<b>MAXIMUM EXTERNAL TEMPERATURE:</b>	951°F / 510°C (temperature after 180 rounds of Stress Test Firing Schedule in Table 1)
<b>COATING:</b>	C-Series Cerakote™ Matte Black (color options available)
<b>MATERIALS UTILIZED:</b>	17-4 Heat Treated Stainless Steel & Grade 5 Titanium
<b>SERVICE LIFE:</b>	12,000 rounds threshold with objective of 20,000 rounds, barrel length, firing table, maintenance schedule, and ammo dependent
<b>MAINTENANCE SCHEDULE:</b>	Detailed cleaning should be performed every 2,500 rounds. Detailed cleaning will help ensure product performance and service life are not compromised.



TABLE 1: Stress Test Firing Schedule

MAG	ROUNDS	SHOT CONFIGURATION
1	10	1 ROUND / SEC (RPS)
2	20	2 RPS, 1 SEC PAUSE BTW 2-SHOT GROUPS
3	20	1 RPS
4	20	2 RPS, 1 SEC PAUSE BTW 2-SHOT GROUPS
5	20	1 RPS
Clean, lube, and cool in accordance with TABLE III		
6	10	2 RPS
7	20	1 RPS
8	20	2 RPS, 1 SEC PAUSE BTW 2-SHOT GROUPS
9	20	1 RPS
10	20	2 RPS, 1 SEC PAUSE BTW 2-SHOT GROUPS
Clean, lube, and cool in accordance with TABLE III		

•No more than 1 minute break between magazine changes  
•Follow TABLE III function and maintenance intervals as required

**PERFORMANCE:**

- The HX-QD 762 Ti provides modular and integrated signature management capabilities that reduce detection by sight, sound, and electro-optical/infrared (EO/IR) sensor systems.
- An adjustable wrench or OSS QD tool may be needed to remove the suppressor when component temperature exceeds 160 degrees Fahrenheit (71.1 Celsius).
- The attachment or removal of the sound suppressor does not degrade system precision (ammunition & rifle dependent).
- Removing and reattaching the suppressor, the center of impact shall shift no more than 1.0 MOA at 100 meters (109 yards).
- Removing the suppressor, the center of impact shift shall be repeatable and predictable within 1 MOA at 100 meters (109 yards).
- The suppressor, when attached to the rifle, shall shift the mean point of impact of rounds fired, relative to firing without the suppressor, by no more than 2.0 MOA at a range of 100 meters (109 yards).
- When attached, the suppressor will not adversely affect shot dispersion.
- The suppressor does not require any fired rounds to seat or lock before grouping.
- 10,000 round accuracy certification provided by Barrett. After firing 10,000 rounds of M118LR on a Barrett Rec 10, suppressor will be within 1/2 MOA of original accuracy test, provided, host weapon is still capable. Using the firing schedule in Table 2.

**RELIABILITY:**

- The HX-QD 762 Ti will withstand 10 cycles of the firing schedule in Table 1.
- Bolt Velocity increases +/- 5% from unsuppressed to suppressed.
- The suppressor does not require the use of an adjustable gas block or other weapon modifications.
- The suppressor is capable of withstanding impact when dropped from a minimum height of 1.5 meters without causing any structural or functional damage.
- The suppressor will withstand vibration and rough-handling requirements as defined by MIL-STD-810G, Method 514.6, and cannot come loose during transportation due to vibration or incidental contact.
- The suppressor can be removed by hand after stress test firing schedule from Table 1.
- The suppressor does not require any proprietary lubrication.

**SAFETY:**

- The suppressor will not increase toxic fume exposure to the operator.
- The suppressor will pass sub-safe off gas testing per SS800-AG-MAN-010/P-9290 Rev. A section F.4.2.
- The HX-QD 762 Ti will not present a cook-off hazard after firing M118LR 7.62 ammunition for 100 rounds of continuous automatic fire.

**ADDITIONAL NOTES:**

- The suppressor coatings provide protection from degradation in all climatic environments and weather conditions experienced in all climates and geographical areas including maritime, coastal, desert, tropical jungle, arctic, urban areas, and mountain environments.
- The suppressor is capable of being submerged in salt water to a depth of 66 feet for a minimum of 2 hours and returned to the surface, and function without degradation in capability or performance.
- The suppressor may be fitted with a Mirage Mitigation Device (MMD) that inhibits heat mirage from impacting target identification, recognition or precision when using a magnified direct view optic and clip-on night sight.
- Frangible ammunition may be used with the suppressor.
- A QD Bullet Trap, Blank Firing Adapter (QD-BTBFA) is available. The QD-BTBFA functions reliably using M82 Blanks and can safely catch one (1) M80A1 rounds.
- The suppressor will be fully functional when removed from a fully submerged position, with a drain time equal or less than 3 seconds.



TABLE 2: Barrett Accuracy Test

MAG	ROUNDS	SHOT CONFIGURATION
1	20	1 ROUND / 3 SEC
2	20	1 ROUND / 3 SEC
3	20	1 ROUND / 3 SEC
4	20	1 ROUND / 3 SEC
5	20	1 ROUND / 3 SEC
6	20	1 ROUND / 3 SEC

- After every 120 rounds let the weapon cool for 10 min
- After every 240 rounds let the weapon cool to ambient temp
- After 1250 rounds disassembler and clean
- Continue this process for 10,000 rounds

# MUZZLE DEVICE OPTIONS

## QD MUZZLE DEVICE SUMMARY

The HX-QD 762 Ti utilizes proprietary QD muzzle devices that are capable of being installed and removed at the organizational level with a standard or adjustable wrench. QD muzzle devices serve as a mount for the HX-QD suppressors. All HX-QD suppressor accessories utilize the patent pending Torque Lock System®, which is a tool-less mounting system that ensures the QD suppressor is installed in the exact same position each time it is mounted.

The Torque Lock System utilizes Flow-Through technology to effectively seal the suppressor as it seats against the tapered surface on the QD muzzle device, keeping the mounting surfaces free from carbon buildup.

### Flash Hider-QD **762**

<b>WEIGHT:</b>	3.0 oz / 105 g (5/8x24 thread pattern model weight)
<b>OVERALL LENGTH:</b>	2.3 in / 5.8 cm
<b>LENGTH ADDED TO BARREL:</b>	1.7 in / 4.3 cm
<b>MATERIALS UTILIZED:</b>	Heat treated 17-4 Stainless Steel
<b>COATING:</b>	Black nitride QPQ finish
<b>DESCRIPTION:</b>	A Flash Hider that reduces flash signature (up to 90%) and is a Quick Disconnect (QD) proprietary suppressor mount. Thread pattern: 5/8x24, other thread patterns available.



### Muzzle Brake-QD **762**

<b>WEIGHT:</b>	3.7 oz / 105 g (5/8x24 thread pattern model weight)
<b>OVERALL LENGTH:</b>	2.3 in / 5.8 cm
<b>LENGTH ADDED TO BARREL:</b>	1.7 in / 4.3 cm
<b>MATERIALS UTILIZED:</b>	Heat treated 17-4 Stainless Steel
<b>COATING:</b>	Black nitride QPQ finish
<b>DESCRIPTION:</b>	A muzzle brake that greatly reduces recoil and muzzle rise (up to 64%) and is a Quick Disconnect (QD) proprietary suppressor mount. Thread pattern: 5/8x24, other thread patterns available.

