



Helikil Series

H7

.30 Cal



MODEL: H7
CALIBER: 30cal
BASE WEIGHT: 20oz
OVERALL LENGTH: 6 7/8"
DIAMETER: 1.74"
MIN BARREL LENGTH: 6.5" (300blk) 16" (.308)
24" (300 WIN MAG)
TECHNOLOGY: Gas Retardation System
FIRE RATE: Full Auto Rated*
FINISH: Cerakote
MOUNTING: 1.375x24 (HUB)

The Spectrum Defense H7 is an Inconel 30 caliber suppressor. Please note that barrel length restrictions, bore concentricity, fire rate, and even projectile stability are factors that should be investigated and addressed before use. The Helikil Series suppressors are built for duty and hard use. Inconel allows the sustained use of FRT, full-auto, and high rates of fire. Inconel 718, a nickel-chromium alloy, is praised for being one of the top materials for high stress and high heat applications. Inconel 718's typical operating temperature is around 1200-1300°F. Once the operating temperature threshold is exceeded, we recommend a cool down period. It is in the users best interest to abstain from use until it returns below operating temperature. The suppressor is susceptible to particle erosion and softening past operating temperature. If the user notices discoloration on the exterior discontinue use and allow it to cool down. If use is continued beyond operational temperature, the user risks effecting structural integrity. **Do not dip the suppressor in water in an attempt to cool it down.**

Installation

Step 1: Verify the firearm is clear. Remove the magazine, visually and manually inspect the chamber. Keep the firearm unloaded during the installation process.

Step 2: Be sure your threads are clean, free from any debris. Check the threads on the firearm, muzzle device, and adapter.

Step 3: You have the choice of either running direct thread HUB mounts (1.375x24") or a variety of industry standard mounting solutions (Plan B, ASR, Dual-Lok, Xeno, Etc...) available. Whatever you chose, you need to be sure to install the mounts/adapters properly to ensure reliable and repeatable performance. Whether you choose direct thread or a QD style mount, you will have to install an adapter into the suppressor. If you chose to use a thread locker, degrease the threads beforehand and allow proper curing before use. Torque the adapter or direct thread mount to 25-30 ft/lbs onto the suppressor. If using a muzzle device, torque to manufacturers specs, or to the German spec "Guten Tight". *During extended range sessions, while avoiding burns, be sure to periodically check the snugness of the suppressor against your mount/host.

Step 4: Once the suppressor is mounted to your firearm, be sure to verify alignment before use. Use a purpose built suppressor alignment rod to verify concentricity.

Step 5: Start making noise! (Or the lack there of). After using the suppressor, be sure to allow the suppressor to cool to safe temperatures before removal or transport to prevent personal injury or damage.

Additional Information

Cleaning

Due to the nature of being an additively manufactured product (3D printed), the Helikil series of suppressors are not user serviceable. This means it is not possible to disassemble the suppressor to clean it. However, due to the increased popularity of 3D printed suppressors, the industry has multiple avenues for cleaning available.

- 1) Ultrasonic Cleaner - Suspend the suppressor in the tank via a wire through the bore and run a few cycles. Time will vary depending on round count. (Do not allow the suppressor to come in contact with the tank walls or tray as this will damage the Cerakote finish)
- 2) Breakthrough Clean Technologies®, Otis Technology, and many other companies offer chemical baths for your suppressor. Simply follow the instructions and rinse out!

Full Auto Rating

Here's a dirty secret about the silencer industry: there's no real universally agreed upon definition of what "full auto rated" really means. Some manufacturers mean one mag dump, others mean creating a convoluted firing schedule after you've spent money on a thermal heat gun, while others are truly SOCOM rated. We at Spectrum Defense are trying to make it as simple as possible for you. We've dumped belts from our M249SAW and the suppressor has held up. However, it is easier than one would think to exceed the operating temperature and effect structural integrity. It all depends on rate of fire, barrel length, ammunition type, even muzzle device. It is the users responsibility to know their platform and how it performs. Dump a few mags, but remember to keep that temperature in mind!

Warranty

At Spectrum Defense, we take pride in the engineering and craftsmanship that goes into every suppressor we build. We stand behind our products because we want you to be as confident on the range as we are in the shop.

The Spectrum Defense Limited Lifetime Warranty

We warrant our suppressors against manufacturing defects in materials and workmanship for the lifetime of the product. If we missed a step or a component doesn't meet our rigorous quality standards, we'll make it right at no cost to you.

What Isn't Covered

While we build our gear to last, we cannot cover damage resulting from:

- **Misuse or Neglect:** This includes improper installation, the use of incorrect ammunition (such as non-conforming reloads), or "torture testing" beyond intended limits.
- **Instructional Oversight:** Our manuals are there for a reason! Damage caused by failing to follow the provided mounting, maintenance, or use instructions will void the warranty.
- **Normal Wear & Tear:** Finish wear and minor erosion over thousands of rounds are signs of a life well-lived, but aren't considered defects.

The "Spectrum Standard"

Here is the bottom line: We aren't here to leave you hanging. We know that accidents happen—maybe a mount wasn't torqued quite right, or a host rifle had a concentricity issue. Even if the damage isn't covered under our formal warranty, please reach out to us anyway.

We promise to work with you to find the most honest, fair, and affordable solution to get your Spectrum suppressor back in action.

We're shooters too, and our goal is to keep you on the line, not stuck in the safe.