

# C.A.T.

FEB 2024

ENTERTAINMENT FOR ADULTS

**SHORT ROUND**  
**Is Small Better?**

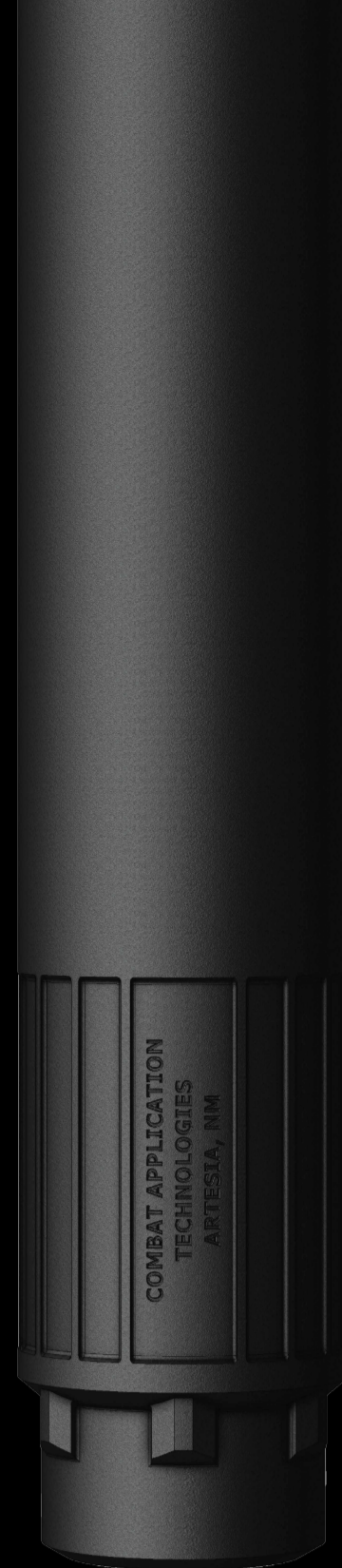
**Is The Mob back in Town?**



**POST MALONE'S NFL HI-JINX**

**JOHNNY L**  
**The Dirty Cop Made Good**

**SURGE**  
**2024's New Darling**



## Note From The Editor



Greetings, Tactical Enthusiasts, Keyboard Warriors, Larpers, and lovers of all things Combat Application Technologies (C.A.T.).

It is with a mix of pride, caffeine, and a slight twitch in the left eye, that we announce the first ever launch of the C.A.T. Quarterly Newsletter. An initiative so bold, it dared to ask, "Can we truly combine top-secret tech updates with semi naked women?" The answer, my friends, is a resounding "Yes, and it's about time!"

In this inaugural edition, we're not just crossing the line between serious tech talk and cheesy punditry; we're obliterating it with a laser pointer. Expect deep dives into the future of C.A.T. designs, launch updates that could probably (definitely) pass for "an approximate", and industry insights that are as sharp as they are sardonic. Think of it as the perfect blend of brain food and comic relief, much like pairing a vintage Bordeaux with a cheeseburger. As it would seem everyone knows someone that knows everything about C.A.T., let's agree it's easier to just hear it from the Meow's mouth.

So, whether you're here as a rival trying to gain insider knowledge on the next big thing or simply in need of a good chuckle to break up the monotony of your high-stakes, adrenaline-fueled day, we've got you covered. Remember, in the world of Combat Application Technologies, taking ourselves too seriously is the only true tactical faux pas. Here's to embracing the future of the industry with both the gravity it deserves and the levity it so desperately needs.

Your devoted editor and chief cat herder,

Mr. Ginger Nuts

P.S. - Keep an eye out for our "Letters to the Editor" section, where we answer your burning questions with a mix of wisdom and wit that only C.A.T. can deliver. Got a

### Birth of the Short Round: A Revolutionary Byproduct of MP7 4.6mm Research

In the dynamic world of C.A.T. suppressor technology, groundbreaking advancements often emerge from the most unexpected sources. A prime example of such innovation is the development of the Short Round (SR), our 22 Rimfire suppressor, a product that has its origins in a research and development project focused on the MP7 4.6mm. This development highlights the serendipitous nature of research and the potential for cross-application of technological breakthroughs.

The MP7 4.6mm, developed by Heckler & Koch, is renowned for its high velocity and armor-piercing capabilities, making it a preferred choice for Special Operations Forces (SOF) units worldwide. In an effort to enhance the MP7's operational versatility and reduce its acoustic signature, a dedicated R&D project was initiated. The goal was to develop a suppressor that could meet the rigorous demands of high-velocity, compact firearms.

During this process, TSF research engineers encountered a series of challenges, including managing the high pressure and temperature levels generated by the 4.6mm rounds. The breakthrough came when the team developed a design that efficiently mitigated noise without sacrificing performance or durability. This innovation proved to be the cornerstone of what would later become the Short Round 22 Rimfire suppressor.

Leveraging the insights gained from the MP7 suppressor project, the team realized that the technologies and materials could be adapted for use with .22 caliber firearms, which are popular for recreational shooting, small game hunting, and pest control due to their low cost and reduced noise. The .22 LR cartridge, in particular, posed its own set of challenges, such as its lower velocity and variable pressure levels.

The development of the Short Round 22 Rimfire suppressor involved scaling down and optimizing the baffle design to accommodate the specific characteristics of .22 LR ammunition. The result was a highly efficient suppressor that significantly reduces the noise footprint of .22 LR firearms, making it an ideal accessory for shooters looking to minimize disturbance and protect their hearing.

As the Short Round 22 Rimfire suppressor makes its way into the hands of shooters around the world, it stands as a testament to the unexpected benefits that can arise from dedicated research and development efforts. This suppressor not only enhances the shooting experience for .22 LR enthusiasts but also represents a significant step forward in suppressor technology, born from the challenges of



Expected launch date - February 29



Expected launch date - March 13

### The MOBSTER: Silencing the Competition with a Whisper

In the often too-serious world of tactical gear, where every piece of equipment is a grave matter of stealth and precision, there comes a disruptor that not only quiets the room but also manages to get a few laughs in the process. Enter the MOBSTER (affectionately dubbed the MOB), a 9mm submachine gun (SMG) suppressor from you guessed it, us.

Inspired by the classic gangsters of old but engineered with modern mischief in mind, the MOBSTER suppressor offers a unique blend of performance and personality. It's the kind of suppressor that suggests, "Sure, I take my shooting seriously, but I also enjoy a good spray of the streets from time to time." The advanced technology packed into this little gangster ensures that your shots are as quiet as a mobster's whisper, but its whimsical design might just make you the life of the range.

The MOBSTER doesn't just rely on its charming looks and witty name; it's backed by some of the most advanced suppressor technology available. Using proprietary "none-of-your-business" engineering, the MOB turns the loud crack of a 9mm round into something that wouldn't wake a sleeping cat.

In a market that just takes its exceptional performance but it's ability to just have a good time. And on that front, the MOBSTER delivers in spades.



Expected launch date - March 13

### Surge Bypass: Forget about Planes, Spaceships and Fluid Dynamics

In an era where technological advancements are redefining the boundaries of what's possible in suppressor or "silencer" design, C.A.T.'s Surge Bypass (SB) is a revolutionary change in direction. This system, a hybrid of high-pressure technologies inspired by the Liquid Natural Gas (LNG) industry and with internal geometry found in next-generation rocket propulsion, SB promises to significantly enhance suppressor efficiency, durability, and all-round performance. Innovation within the industry is needed, and rapidly. For far too long the silencer industry has unashamedly copied and mimicked from peers, refusing to leave "baffle" design theory in the past. When money is at play, and mainstream engineering functionality is mid-tier, the want or ability to change is seldom sought. The traditional market will always crowd about the print capability of DMLS, LPBF and SLS technologies, how print misalignment is akin to poor welding, but the material science supports that metal fusion is far greater in advanced 3D printing (aerospace quality print). This allows for more complexity, thinner wall structures and seamless construction, where metal fatigue on weld lines no longer exists.

So, what is Surge Bypass technology? It is an extremely advanced AI-driven system designed to manage the varied timed pressure dynamics within a suppressor, from caliber to caliber, and ammunition to ammunition. The system intelligently adjusts in real-time to the gas flow and pressure inside the suppressor, optimizing the path of the gases through complex internal geometries. This is akin to the precision required in LNG processes and rocket fuel pressurization, where controlling pressure and flow is critical for efficiency and safety.

The LNG industry has long mastered the art of handling high-pressure gas in a safe and efficient manner, utilizing advanced materials and engineering techniques to manage and transport natural gas in its multiple forms. Similarly, the internal geometry of next-generation rocket propulsion systems designed to pressurize fuel for maximum power output and economy, using intricate designs that ensure the optimal flow and combustion of fuel.

Surge Bypass leverages these principles, applying them to the realm of suppressors. By adopting a hybrid approach that combines the high-pressure management techniques of the LNG industry with the precision engineering of rocket propulsion systems, Surge Bypass offers a new standard in suppressor technology, one not seen by C.A.T. peers.

What sets Surge Bypass apart is its use of extremely advanced AI to dynamically control the internal pressure and gas flow within the suppressor. This AI analyses the firing sequence in microseconds, adjusting the suppressor's internal mechanisms to optimize performance for each shot. The system is designed to reduce not only the noise signature of a firearm but also the wear and tear on the suppressor itself, extending its lifespan significantly.

### Benefits of Surge Bypass Technology

**Reduced Noise and Flash Signature:** By efficiently managing the escape of gases, Surge Bypass significantly reduces the noise and flash produced by a firearm, making it ideal for military, law enforcement, and civilian use where stealth is paramount.

**Enhanced Durability:** The AI-driven system minimizes the physical stress on the suppressor by intelligently controlling gas flow, thereby reducing the risk of damage and prolonging the equipment's operational life.

**Adaptability:** The AI can adapt to various ammunition types and environmental conditions, making Surge Bypass-equipped suppressors versatile across different operational scenarios.

Surge Bypass is not just a theoretical advancement; it represents a tangible leap forward in suppressor technology. As this system becomes more widespread, it could redefine standard practices for firearms design and use, making suppressed firearms more efficient, reliable, and accessible.

As we stand on the cusp of this new era, the implications for security, defense, and sporting applications are vast. Surge Bypass technology encapsulates the spirit of innovation that drives the firearms industry forward, promising a quieter, safer, and more efficient future for shooters around the globe.