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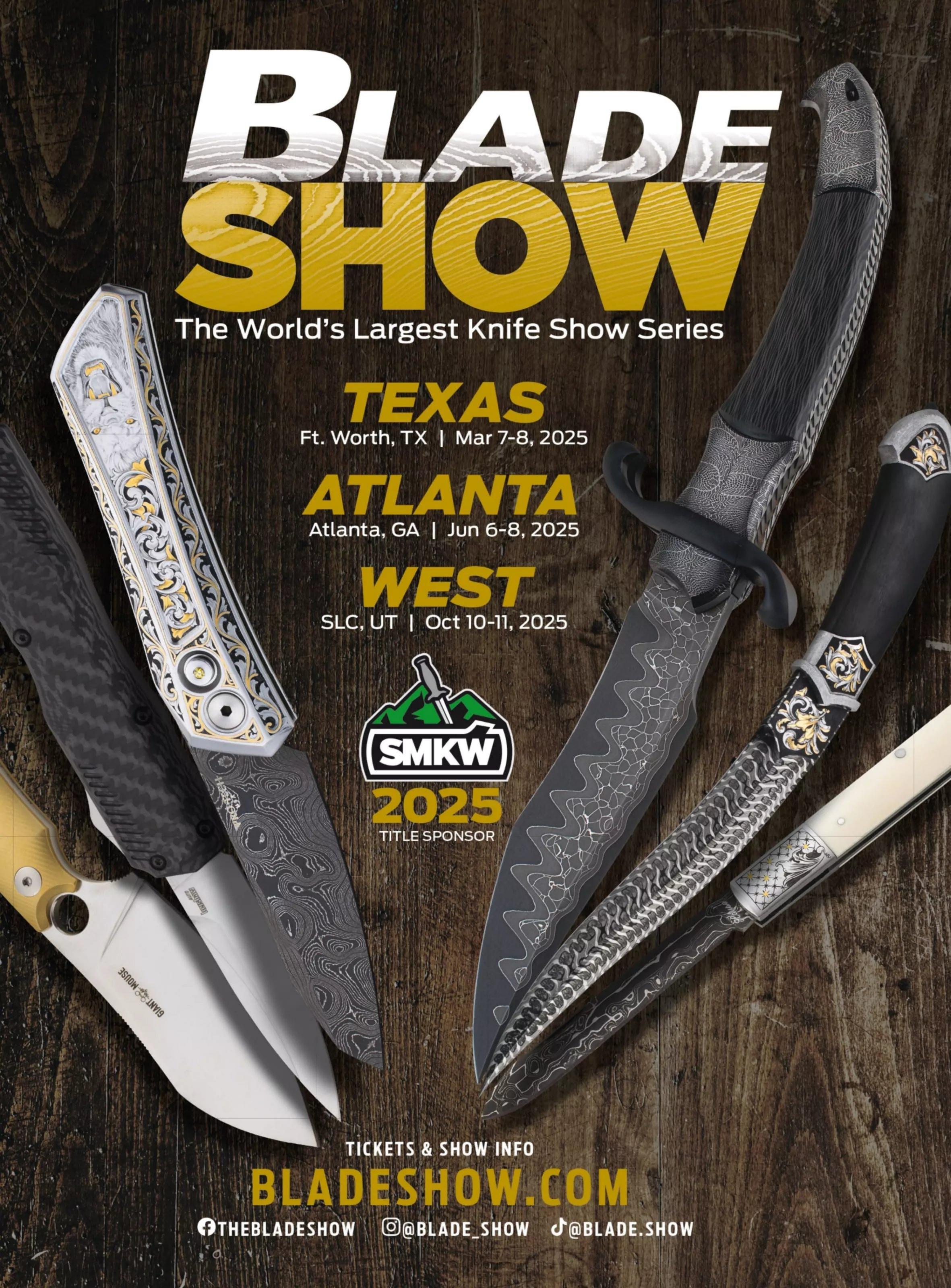
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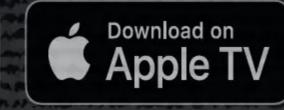


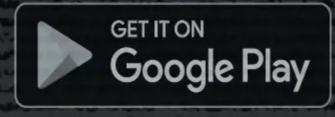
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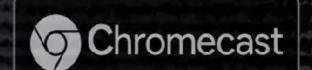












# FONEST RELEVANT UNEILER

THE PREMIER AUTHORITY FOR FIREARMS NEWS AND MEDIA THE WAY YOU WANT AND DESERVE.













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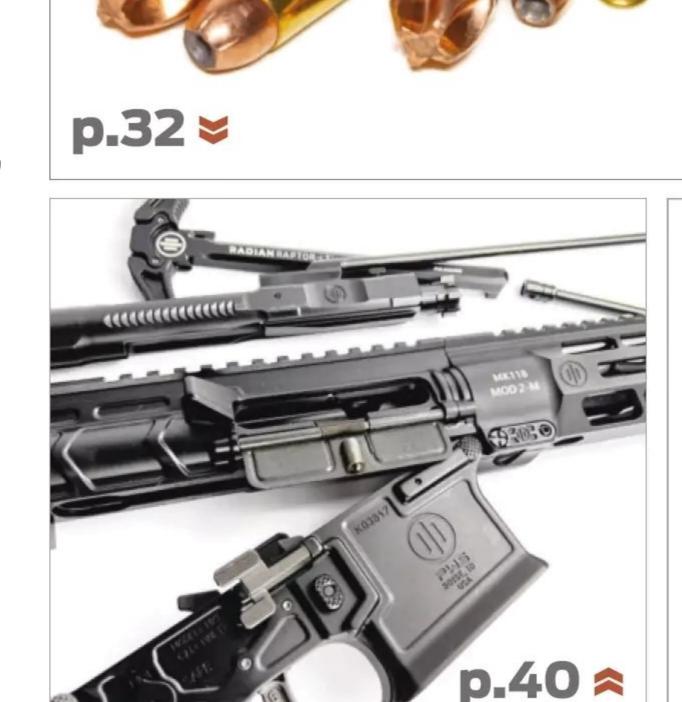
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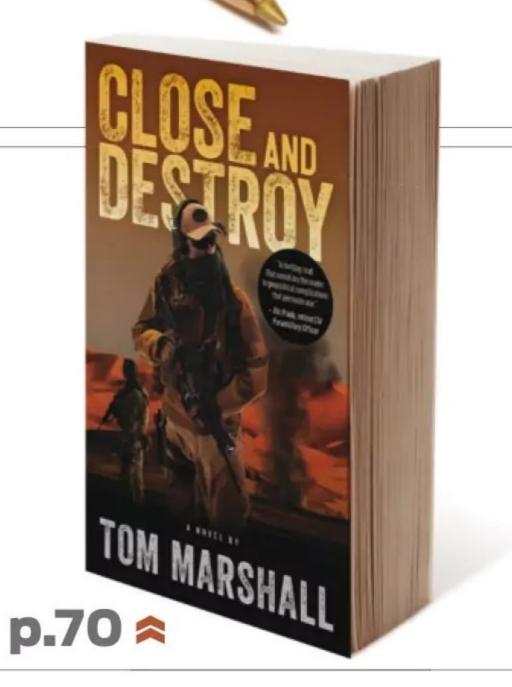
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# TO SHAKE THE HAND OF JOHN MOSES BROWNING,







When the Father of Modern Firearms was once your lead designer, you have higher standards. This is why FN meticulously engineers for reliability, tests and retests for accuracy, and rigorously analyzes every square inch of every FN pistol and rifle. We are obsessed with performance, just as John Moses Browning taught us.

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n the court of public opinion, rules are rare and logic even less so. What's popular at one moment is often gone tomorrow, and the fallout is generally hard and fast. Today, we call this nasty phenomenon "cancel culture."

In the fictional world that is social media, the cancel culture progression often blows in and out like an early May cold front. A turnover of the 24-hour news cycle and a new account can give most anyone a new start.

But when it comes to cartridges, cancel culture often lingers, developing slowly and rarely ending with any form of thunderstorm: A cartridge slowly loses popularity, and then loses the support of gun and ammo manufacturers ... until one day it's little more than a pet favorite for a little more than a few shooters.

And as far as the sentencing ... well, most of those effects seem to linger forever.

Look at the 6.5mm Creedmoor. After its inception, the cartridge watched from the bench for more than a decade before rising to No. 1 on the popularity charts. And today, less than 2 decades after birth, I bet it's the most chastised cartridge still in production ... even though it seems that nearly every rifleman has at least one in their gun safe. Go figure.

But on the other hand, both the .270 Winchester and the .300 H&H celebrate the century mark this year. There's a solid argument to be made about the magnum dying on the vine, but the .270 Winchester continues to ride hard. Thanks, Jack. Phil Massaro covers the 100th birthday of these two cartridges, beginning on page 24.

Additionally, I had Richard Mann research cartridges that are dying on the vine (page 32) and why they no longer catch the public's eye. And to compare apples to oranges, Patrick Sweeney covers the most prolific guns and platforms of all time (page 62), at least as viewed through the public opinion lens of "most guns sold."

Love it or hate it, public opinion has clout ... even when its ill-informed. Perception, as they say, is reality. **GDTM** 

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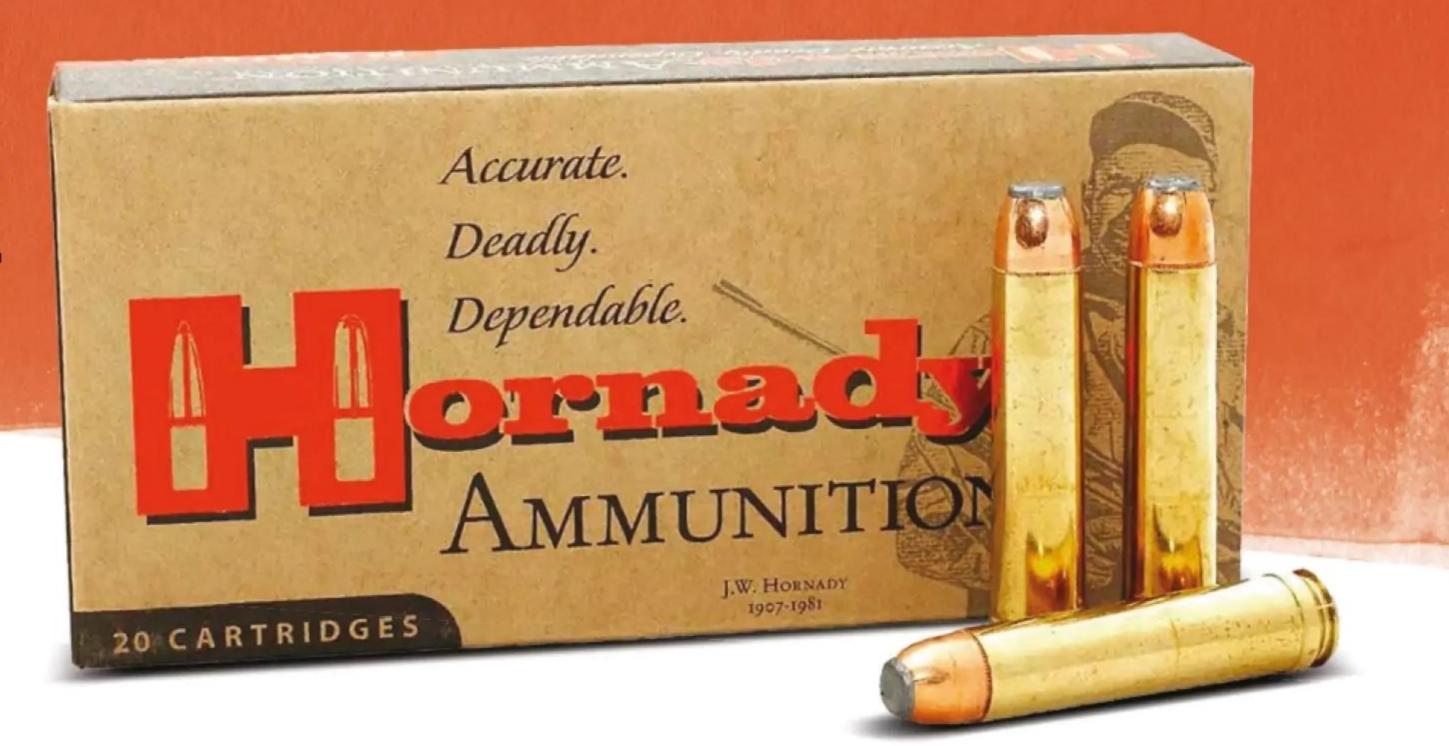
# MANUFACTURED BY MKE





# L450 MARLIN

Big and nasty:
A capable performer for any task.



## **HISTORICAL NOTES**

Hornady and Marlin announced the .450 Marlin at the 2000 SHOT Show. This was the first new chambering from Marlin since the introduction of the .444 Marlin, in mid-1964. The motivation for this cartridge is simple: Handloaders had been souping up .45-70 loads for use in Marlin's modern 1895 since the day that gun was introduced. Owing to the many weaker .45-70 rifles still in use, Marlin could not condone this practice, nor could the company stop it.

Something had to give.

Some have asked why Marlin didn't simply lengthen the .45-70 case and standardize a new higher-pressure cartridge. That alternative wasn't tenable, because such a cartridge would have chambered in older (potentially weaker) rifles designed for the .45-90, .45-110, etc.

## **GENERAL COMMENTS**

When one considers a simple approach that could have been taken, this cartridge design is a poor, second-best choice for chambering in the M-1895 Marlin. The simple adoption of an Ackley Improved version of the .45-70 would have provided a superior case

design with a cartridge that would function better through the Marlin rifle and would not chamber in any older factory firearm.

In any case, the .450 Marlin offers lever-action fans a factory chambering with significant ballistic potential. Shooters in this country have a long history of fascination with large-bore lever-action rifles. Except for caliber, Marlin's cartridge recalls Winchester's circa-1903 .50-110 Winchester High Velocity load, which originated for the same reason; muzzle energy is essentially identical. This cartridge and rifle make a fine and versatile combination for those who hunt dangerous game under the worst possible conditions.

Given correct bullet choice and shot placement, this is a capable performer for any task.

Interestingly, Lewis Potter, proprietor of Potter & Walker (Evasham, Worcestershire, UK), reports that, around the time the .450 Marlin was being introduced, he—quite coincidentally—successfully shortened and reformed .375 H&H Magnum cases to something quite similar to the new Marlin number, for use in a client's modified Ruger No. 1. Potter's wildcat, the performance of which fell somewhere between that of a high-end .45-70 and the .450 Marlin, was playfully christened the .45-70 Nitro Express.

**GDTM** 

# .450 MARLIN LOAD DATA AND FACTORY BALLISTICS

BULLET (GRAINS/TYPE)	POWDER	GRAINS	VELOCITY	ENERGY	SOURCE
250 Barnes TSX/FN	H4198	54.0	2,493	3,446	Barnes
300 Nosler PPP	H335	67.0	2,282	3,465	Nosler
350 Hornady FP	RL-7	51.5	2,000	3,105	Hornady
400 Speer JFP	H335	55.0	1,953	3,383	Hodgdon
325 FTX	FL	-	2,225	3,537	Hornady 82750
500 FMJ FN	FL	-	1,625	2,900	Buffalo Bore 22C/20



# 

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.308 (7.62), .30-06, 300WSM, 300 BLACKOUT, .284 (7MM), .277, .264 (6.5MM), .257, .243 (6MM), .224 (5.56), .223, 22LR, .204, .17 CALIBERS

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# Silencer Central's Banish 9k.

ust a few months ago I discussed pistol suppressors in this of employment as an assassin, suppressors for pistols are best suited to enhancing the enjoyment of recreational and completive range sessions or for hunting. This is mostly because, given the compact nature of a pistol, adding a suppressor mostly removes the handgun from practical selfdefense application.

For the most part, my opinion has not changed ... but I'll admit that, because of a new pistol suppressor from Silencer Central, I've had to rethink it.

The new Banish 9K is, as far as I column, and I said that short know, the smallest and lightest suppressor available for a 9mm pistol. Unlike most suppressors that manufacturers piece together with internal baffles fitted inside a welded tube, the Banish 9K is 3D printed in 100 percent high-grade titanium. Now ,3D printing is a rather new concept, and many firearms manufacturers use the process when creating prototypes. But the ability to 3D-print a complete titanium muzzle device—with a lifetime warranty—that can withstand the pressure of escaping gases—long term—is bordering on high-level sorcery. It's like something you would see in a science fiction movie.

The truth is, of course, there's no magic in play at all. In fact, 3Dprinting in titanium utilizes a process called laser powder bed fusion (LPBF). With LPBF, layers of titanium powder are melted together using a high-intensity laser to create solid parts. What makes this applicable in suppressor manufacturing is that you can create extremely complex and very lightweight shapes that are not only strong but also corrosion resistant.

As for the Banish 9K, it's only 4.1 inches long and has a diameter of 1.3 inches. Any way you measure it, that's

a very compact suppressor. But just as important as the compactness of this suppressor is its weight.

The Silencer Central Banish 9K suppressor as it compares in size to a Bear Creek Arsenal G17 clone.



Unlike most pistol suppressors, the Silencer Central Banish 9K does not need a piston to work. This is the key to its compactness and lightweight.



The Banish 9K is unbelievably light—it weighs in at only 2.7 ounces.

How light is 2.7 ounces? Well, here's one way to look at it: A single 9mm cartridge weighs about 183 grains, so the Banish 9K weighs less than seven rounds of 9mm ammunition. That means you could screw a Banish 9K on your pistol and download the magazine by seven rounds and the gun's overall weight would not change.

# **LESS IS WAY MORE**

One of the things that allows the Banish 9K to be so compact and light is that, because it is so light, it does not need a Nielsen device for proper functioning. Pistols work by transferring energy from the fired cartridge to cycle the slide. With the short recoil systems of most handguns, the barrel moves, too, and the added weight of the suppressor is usually enough to prevent the gun from properly cycling.

A Nielsen device, also known as a muzzle booster, helps suppressors work with pistols. Some refer to these devices as pistons, and most handgun suppressors are designed to work with a piston the suppressor mounts to.

Now, this is not a 100 percent guarantee that the Banish 9K will work with your pistol, especially if your pistol is a 1911 with a linked barrel. For example, the Banish 9K worked perfectly on a Bear Creek Arsenal Glock clone, but I had to reduce the recoil spring weight in a Wilson Combat EDC X9 2.0 for reliable functioning. With the heavier recoil spring, the slide would not cycle far enough to the rear for the empty case to engage the ejector.

# **BUT, HOW'S IT SOUND?**

The next thing you're probably wondering is if a suppressor this small can reduce the sound to a hearing safe level. With the 9mm Luger, the Banish 9K reduces the sound level to 132 decibels at the ear. But this suppressor is not just for 9mm pistols. It will also work with a .380 auto pistol, an FN 5.7x28mm, 9mm carbines ... and in

# Silencer Central Banish 9K

**Length:** 4.1 inches

Diameter: 1.3 inches

Baffles: 8

Weight: 2.7 ounces

**Material:** Titanium

Caliber: 9mm

Caliber/Cartridge Range: 9mm, .380 Auto,

5.7x28mm, .300 Blackout

Finish: Cerakote

Sound Reduction: 26 dB

Mount Style: Direct Thread (1/2x28 or 13.5x1LH)

Full-Auto Rated: 9mm subsonic and .300 Blackout

subsonic

Warranty: Lifetime

**Price:** \$699

300 Blackout with subsonic rounds it's even rated for full auto.

Could you everyday carry a 9mm pistol with a Banish 9K attached? Um, maybe. It would depend on how you carried, and I highly doubt you will be able to find a holster that will accept a pistol with a Banish 9K attached. However, aside from everyday carry, a pistol with a Banish 9K would clearly be practical for home defense and even for vehicle carry.

I know some folks advise against vehicle carry, but whether it makes sense or not has a great deal to do with the areas you operate in and what you use your vehicle for. The Banish 9K would be great on a pistol you keep in your ranch truck or maybe in the side-by-side you use on the farm.

For the most part, my opinion on suppressed pistols has not changed: I believe they're best suited to enhance the enjoyment of recreational and competitive range sessions, for hunting, and for training new shooters who are recoil and noise sensitive. But the new Banish 9K substantially increases the practical application of a suppressor on a personal protection pistol.

I still don't think it's optimum for concealed, everyday carry, unless maybe you wear a trench coat—you know, like a hit man. **GDTM** 



# ARMED CITIZEN INTERACTION WITH LAW ENFORCEMENT

Lessons from two experts.

Meeting in Atlanta, the intersection of armed citizenship and law enforcement took center stage in several thought-provoking conversations.

Two voices stood out for their unique insights: Jacob Paulsen, president of ConcealedCarry.com, and Glen Hoyer, director of the NRA's Law Enforcement Division. Together, they offered a compelling look at how armed citizens can better navigate encounters with law enforcement—rooted in data and training.

Paulsen's perspective is grounded in hard numbers. His recent article, "What

Over 1,600 Armed Traffic Stops Reveal About Law Enforcement Interactions," dives into a dataset from 560 survey participants who collectively reported over 1,600 armed traffic stops. What the data revealed was as surprising as it was instructive.

# FIRST KEY FINDING: DISARMAMENT IS RARE

Contrary to popular belief—and Paulsen's own frequent experiences in Utah—most traffic stops involving legally armed citizens do *not* result in the officer disarming the individual. In fact, disarmament occurred in only about 10 percent of the stops reported.

This suggests that most law enforcement officers are comfortable leaving an armed citizen's firearm in its holster—so long as the interaction is calm, professional and safe.

Interestingly, in nearly 20 percent of those rare disarmament cases, officers asked the citizen to hand over the firearm—an approach both Paulsen and law enforcement experts strongly discourage. "The safest thing you can do," Paulsen advises, "is refuse politely and say, 'Officer, I'm not comfortable handling my gun in front of you. You're welcome to retrieve it if needed." It's advice echoed by tactical trainers and police alike, who understand how eas-

"Body language and demeanor matter. Hoyer recommends turning on your dome light during nighttime stops, keeping your hands palm-up on the steering wheel, and ensuring that passengers do the same. 'It communicates cooperation. You're showing us, before we even say a word, that you mean no harm."

ily such a request could escalate into a deadly misunderstanding.

# SECOND KEY FINDING: KNOW YOUR DUTY TO INFORM—AND WHEN NOT TO

Another critical area of confusion involves whether an armed citizen is legally required to inform the officer that they are carrying. Paulsen's survey revealed that about 21 percent of respondents were incorrect about their state's laws on this matter—sometimes believing they had no duty to inform when, in fact, they did, which can carry legal consequences.

Paulsen's takeaway: Know your state's laws *cold*. But beyond legal requirements, there's also a tactical consideration. Does the officer already know? In some states, running a driver's license automatically reveals whether the person has a concealed carry permit. In such cases, failing to disclose may appear deceptive. "If the computer is going to tell them," Paulsen said, "you want it to come from you, not the screen."

# THIRD KEY FINDING: BE SMART ABOUT HOW YOU INFORM

If you do choose—or are required—to inform an officer that you're armed, Paulsen and Hoyer both stress the importance of how you do it. Reaching into your glovebox or pockets as the officer approaches is a surefire way to raise alarm. Instead, roll down your window, keep your hands on the wheel and clearly state, "Officer, I have a concealed carry permit, and I am armed. How would you like me to proceed?"

This kind of approach, Paulsen ar-

gues, is especially important because traffic stops are high-stress situations—for both parties. "Practice what you'll say before it happens," he advised. "And be very specific if asked where your firearm is—say, 'It's in a holster at my 4 o'clock position on my belt,' not 'It's back here somewhere."

# GLEN HOYER'S LAW ENFORCEMENT PERSPECTIVE

From the other side of the badge, Glen Hoyer emphasized the same principles—but added context from decades of police experience. His message was clear: law enforcement officers don't know who you are during a stop. Whether you're a good guy or not, you're a potential threat until proven otherwise.

In fact, Hoyer opens his discussion by pointing out how even uniformed officers sometimes mistakenly shoot undercover or off-duty cops. "If we can't always identify our own," he noted, "we certainly can't assume that a civilian with a gun is a good guy."

That's why body language and demeanor matter. Hoyer recommends turning on your dome light during nighttime stops, keeping your hands palm-up on the steering wheel, and ensuring that passengers do the same. "It communicates cooperation. You're showing us, before we even say a word, that you mean no harm."

# TRAINING, SCRIPTING AND RECORDING

Both experts also addressed a topic often overlooked: what to do if things

start going sideways. If you're being asked to do something that raises red flags—like handing over your gun— Hoyer and Paulsen agree: Ask for a supervisor. "Every patrol shift has one," Paulsen noted. "Don't be afraid to make that request if you feel unsafe or uncertain."

Recording the encounter is also fair game. In most states, single-party consent laws allow you to legally record interactions with law enforcement. "You don't need to announce it," Paulsen said, "but having a record could be invaluable if something goes wrong."

# FINAL TAKEAWAY: IT'S NOT ABOUT WINNING THE ENCOUNTER

Perhaps the most important lesson is this: your goal during a traffic stop—or any interaction with police—is not to "win." It's to make sure everyone goes home safe. That means thinking ahead, knowing your rights and responsibilities, and approaching the moment with humility and clarity.

As both Paulsen and Hoyer made clear at the NRA Annual Meeting, being an armed citizen comes with weighty responsibility. But with the right mindset, training and preparation, these interactions don't have to be tense or dangerous—they can be just another example of what respectful civic engagement looks like. **GDTM** 

# About the Author

Alex Ooley is an affiliate attorney with the Armed Citizen's Legal Defense Network. The views and opinions expressed in this article are his own and do not necessarily reflect those of the Network. This article is for informational purposes only and should not be considered legal advice. For specific legal guidance regarding your situation, please consult with a qualified attorney.

# KEEPINGYOUR EDCEDGE

Guns and knives go together like peas and carrots.



nives are hazardous ... and dull knives are particularly hazardous because you have to use more force to cut, and that means any error can lead to gashes.

The solution?

DMT, the maker of diamondsharpening tools, has a pocket-sized sharpener so compact that you might lose it in your gear bag or toolbag: the Glide-Pro.

It has four angled pull-through sharpeners, a carbide and ceramic 20-degree, and a carbide and ceramic 30-degree sharpener. There are medium and coarse flat sharpeners, a carbide plate that lets you free-hand the angle you need, two stones on the bottom and the two ends feature one each of flat-blade and Phillips-head screwdriver.

So, if you have a pistol grip or such that is a tad loose, the Glide-Pro can tighten it for the next job. The flatblade screwdriver end is also a lanyard loop, so you can keep it attached to the bag it rides in, and it won't get lost. That could happen, as the Glide-Pro is only a bit over 5 inches long, and 0.5 inch by 1.25 inches in size. Yes, it fits into a pocket.

Now, if you're resurrecting a dulled edge on a knife or an axe, this clearly isn't the tool for the job. Oh, you can get it done, but DMT offers much better

tools for those tasks. No, the Glide-Pro is the tool you have handy in your toolbag for when you realize the knife, axe or whatever you're using is getting dull and needs a bit of tuning up.

While DMT makes a whole series of bench-mount and much larger tools, I can see the Glide-Pro being a lot more useful in the workshop. Yes, it's a "hold with one hand, sharpen with the other" design, but it's tough enough that you could gently clamp it in a bench vise and then use it to sharpen with.

A word about technique: pull.

You do not sharpen with a setup like this by sawing the knife blade back and forth across the V-gap. Set the cutting edge closest to the handle in the V. Draw it back in one smooth motion. As you do so, listen to the rasp of the cutting. (You can even use a Sharpie to darken the edge, and after the first pull,



look at where the ink has been rubbed off.) You can hear the change in tone of the rasp as you cut more steel on each pass. When the tone doesn't change, you have gotten to an equal edge along the blade.

You can also see sharpness. No, I'm not kidding. If you're in good light (and have good eyesight), hold the blade point up with the edge pointing directly

at you (not the point—the edge). You'll then be able to see a flat on the edge where it's dull. Where it's still sharp (blades get dull where used and are still sharp where less used), you won't see an edge. As you sharpen the blade, the flat will get shorter and shorter, or narrower and narrower.

To use the Glide-Pro, look at the edge before you start and then after each

pull. With a bit of experience, you'll be able to see the progression and know when it is sharp. None of this licking a thumb and rubbing it across the edge Hollywood nonsense. Use your eyes. Use the Glide-Pro.

And ... you can get this for a list price of 18 bucks (and I've seen them online for \$15). It's inexpensive enough that when you lose the first one (or one of your buddies heists it), it isn't a big deal to buy the replacement. **GDTM** 







a red-dot sight to your factory non-MOS Glock is to just buy an aftermarket slide for

robably the easiest way to add it. Plenty of companies make these, but SilencerCo has just thrown its hat into the ring as well with the SCO Slide.

> Designed for Gen 1-3 Glock 19s, the SCO Slide is being launched with three variants available each with a different optic footprint—RMR, ACRO and 509T. The best part is the SCO Slide allows for direct-mounting red dots, so there's no need for an optics plate. The machined slides are made from corrosion-resistant 17-4 stainless-steel

integrally suppressed Maxim 9 pistol for the slide serrations. The deep, aggressive cuts should make the slide easy to rack, and it features side-cutout windows too. It's worth noting, however, that the SCO Slide does not ship with a



# **01** Military Armament Corporation MAC IX

Military Armament Corp (MAC) just unveiled the MAC IX—a sleek, no-nonsense 9mm PCC designed in Knoxville, Tennessee. This direct blowback semi-auto runs an AR-style pistol grip, full-length Picatinny rail, M-Lok forearm and accepts MP5 mags. It's compact (15.97 inches overall), light-weight (5 pounds) and tough, with a 7075-T6 aluminum build and black anodized finish. Features include ambi charging handle, adjustable sights, tri-lug + ½-28 threading and AR-style takedown pins. Bonus: It ships with two metal mags, a hard case and cleaning gear. It's a modern, modular pistol-caliber carbine that's ready to run right out of the box.

# **02** Apex Predator TSS

Apex Ammunition is now shipping its hard-hitting Predator line, loaded with ultra-dense Tungsten Super Shot (TSS). Handloaded with care and trusted by top predator hunters, these shells are built to drop tough game like coyotes and hogs with authority. Available in 12-gauge (3 and 3½ inches) and 20-gauge (2¾ inches) with shot sizes 2, 4 and BB, they deliver tight patterns and serious downrange punch.

MSRP: Starting at \$50, box of 5

# 03 MDT Send It Gen2

Meet the Send It Gen2 Electronic Level—an ultra-compact, high-tech upgrade to precision rifle leveling. Nearly 50 percent smaller than the original, the Gen2 delivers fast, LED-based feedback so you can stay locked on target without glancing away or second-guessing your cant. Designed for competitive and precision shooters, it mounts directly to your optic and lights up when you're level—no bubbles, no guesswork. With a 200-hour battery life, customizable LED modes and flexible mounting options, the Send It Gen2 is built to perform in any condition. If you're serious about precision, this little device could be a game-changer.

MSRP: \$230



# 04 Rossi R95 TBP Series

Rossi USA just expanded its popular R95 lineup with the new R95 TBP (Triple Black Pistol)—a compact, hard-hitting lever-action pistol built for those who demand portability without sacrificing power. Carrying over the rugged features of the full-sized Triple Black rifle, the TBP version adds enhanced maneuverability for use in the field, truck or tight quarters. Available in potent calibers like .454 Casull, .45-70 Govt., .44 Mag. and .357 Mag., the R95 TBP includes a paracord-wrapped lever, threaded barrel, black Cerakote finish and a Picatinny rail with peep sight. It's a versatile, tacticalready platform that delivers serious performance in a compact, eye-catching package.

MSRP: Starting at \$1,274

# 05 Dead Air/Ruger RXD22Ti

Dead Air Silencers and Ruger Firearms have teamed up to launch the all-new RXD Series of suppressors. Leading the charge is the RXD22Ti, a compact, lightweight suppressor built for rimfire and small-caliber centerfire platforms like .22 LR, 5.7x28mm and .17 HMR. Made using additive manufacturing and featuring Dead Air's Triskelion mono-core, the RXD22Ti offers elite suppression with minimal backpressure and ejection port noise. It's also user-friendly, with tool-free disassembly and the new XRF muzzle brake for multi-platform compatibility and easy cleaning. With no barrel length limits and full-auto ratings in .22 LR, the RXD22Ti sets a new standard.

MSRP: \$499

# **06 Primary Arms**PLxC with ACSS NOVA 5.56/.308 Fiber Wire Reticle

Primary Arms' made its classic PLxC 1-8x24mm SFP Compact Rifle Scope a little better, now offering it with its illuminated ACSS NOVA 5.56/.308 Fiber Wire Reticle. Available in black or FDE, it's compact, tough and packed with smart features like built-in BDC holds, auto-ranging and red-dot bright illumination. The reticle's fiber wire system is paired with Japanese ED glass for stunning clarity and precision, while AutoLive tech helps stretch battery life. At just 9.2 inches long and 16.8 ounces, it's tailor-made for fast, accurate shooting. This scope is ready to ride on your favorite carbine.

MSRP: \$1,500

# **07** Reptilia Puller AR15 Charging Handle

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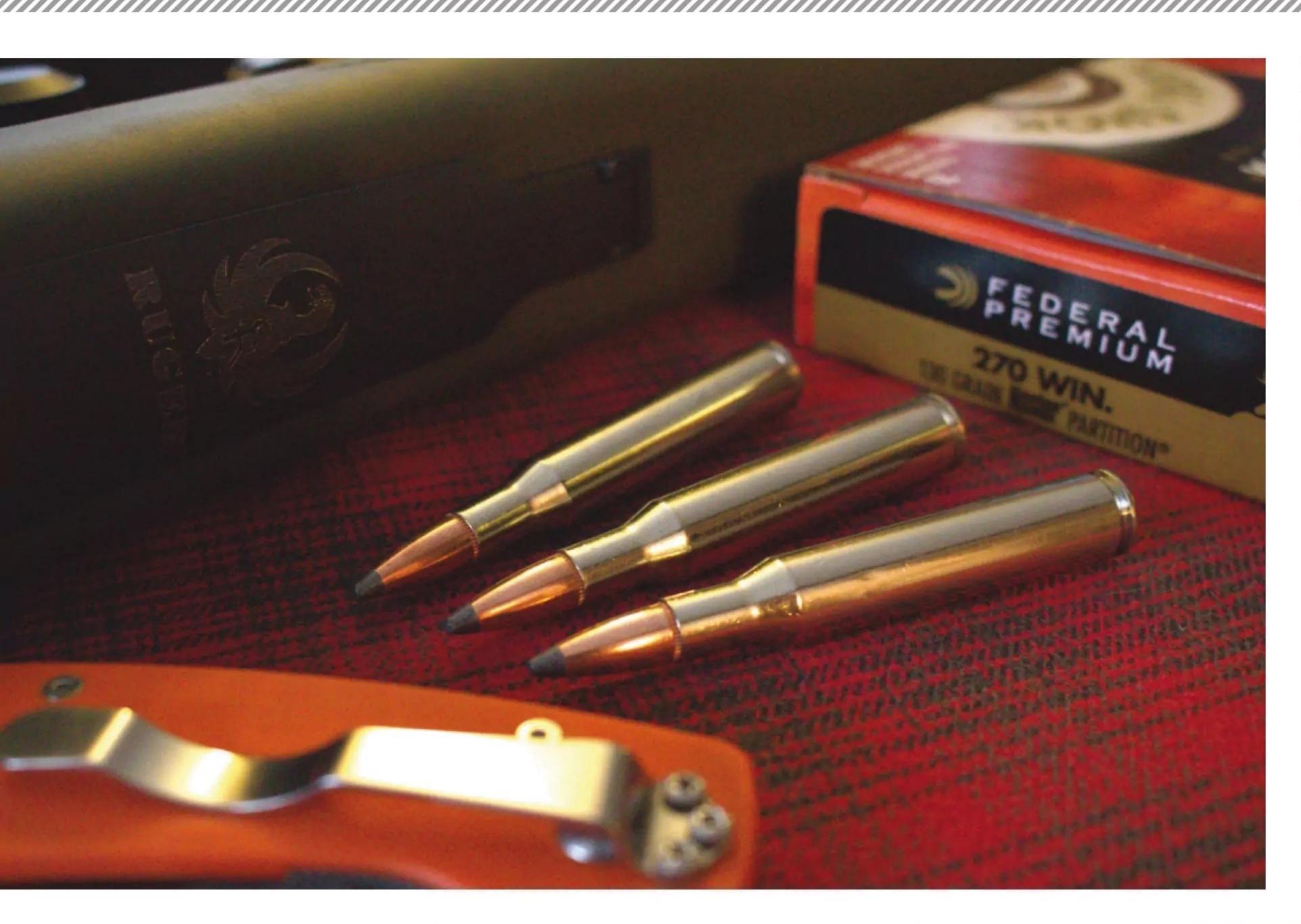








The .270 Winchester and .300 Holland & Holland Magnum celebrate their 100th birthdays in 2025.



The .270 Winchester was a great choice a century ago, but premium bullets like the Nosler Partition make its performance even better.

for more than a century is quite the accomplishment in the cartridge world. For every one of the "classics" that have made that mark, there are several that fell out of vogue, and many others that have disappeared altogether.

Sure, the .30-06 Springfield, .45-70 Government, .45 ACP, 9mm Luger, .22 Long Rifle and .30-30 Winchester have all made that mark, but the .30-40 Krag, .38-55 Winchester, .300 Savage and .22 Short have lost much of their following of late. And while much of the cartridge market seems to be a popularity contest, a cartridge has to have something substantial to offer to maintain any sort of popularity for more than a century ... especially considering the recent advancements in powder and bullet technologies.

Celebrating their 100th trip around the sun this year are two classic cartridges: the .270 Winchester and the .300 Holland & Holland Magnum. One is an undeniable success story that remains a highly popular choice among big game hunters, and the other has a

Whether on the African plains, the deep woods of the Northeast or the Rocky Mountains, the .300 H&H is right at home. It makes a great all-around rifle chambering.

With factory ammunition choices quite
limited these days,
handloading for the
.300 H&H sure makes
sense. The author's
rifle is fond of these
Northern Precision
200-grain spitzer
boat-tails.





provenance that cannot be denied, even if other cartridges have pushed it out of the limelight.

## .270 WINCHESTER

Starting with the more popular of the two—Winchester's famous .270—you'll find the most popular of the offspring of the .30-06 Springfield. Or, since we are delving into the history of the birthday cartridges, we might more properly say the offspring of the .30-03 Springfield, which came a bit earlier and has a case length just a bit longer than its much more popular sibling.

The .270 Winchester retains the .30-03 Springfield's 2.54-inch case length, and the 17½-degree shoulder to handle the head-spacing. It has the 0.473-inch case head diameter, which was carried over from the Mauser cartridges and fits perfectly in any long-action receiver.

Exactly where the .277-inch bore diameter came from is, sadly, lost to history. Some say it was an attempt to bridge the gap between the 6.5mm and 7mm bores, without using a metric denomination; others feel it might have been adopted from the groove diameter of the 7mm/275 Rigby. But, as far as I know, there is no definitive answer. In all my research, it seems that Winchester pulled 0.277 inch out of the air, much like they did with the 0.338-inch bullets of the .33 Winchester, and as Rigby did with their now-famous 0.416-inch bore.

Nonetheless, 1925 saw the release of the new Winchester Model 54 bolt-action rifle, chambered for the newfangled .270 Winchester. While it certainly possessed the velocity that would become so popular over the coming decades, rifle optics weren't in vogue in that era, and the Model 54 was designed and stocked for iron sights.

Offering an enhanced velocity level in comparison to the majority of the most popular cartridges in 1925, the .270 Winchester offered bullet weights between 100 grains—a sound choice for the larger furbearers and all varmints—and 150 grains, which was considered suitable for an all-around big-game bullet. The 130-grain bullets performed wonderfully on white-





(above) It might be difficult to come up with a better combination for whitetail deer than a Nosler Ballistic Tip and the .270 Winchester.

For the handloaders, a .270 Winchester and a 130-grain Nosler Ballistic Tip makes affordable and highly potent whitetail medicine.

tail deer, wild sheep, pronghorn antelope and black bear, while those 140- and 150-grain slugs were employed against moose, elk and other large game.

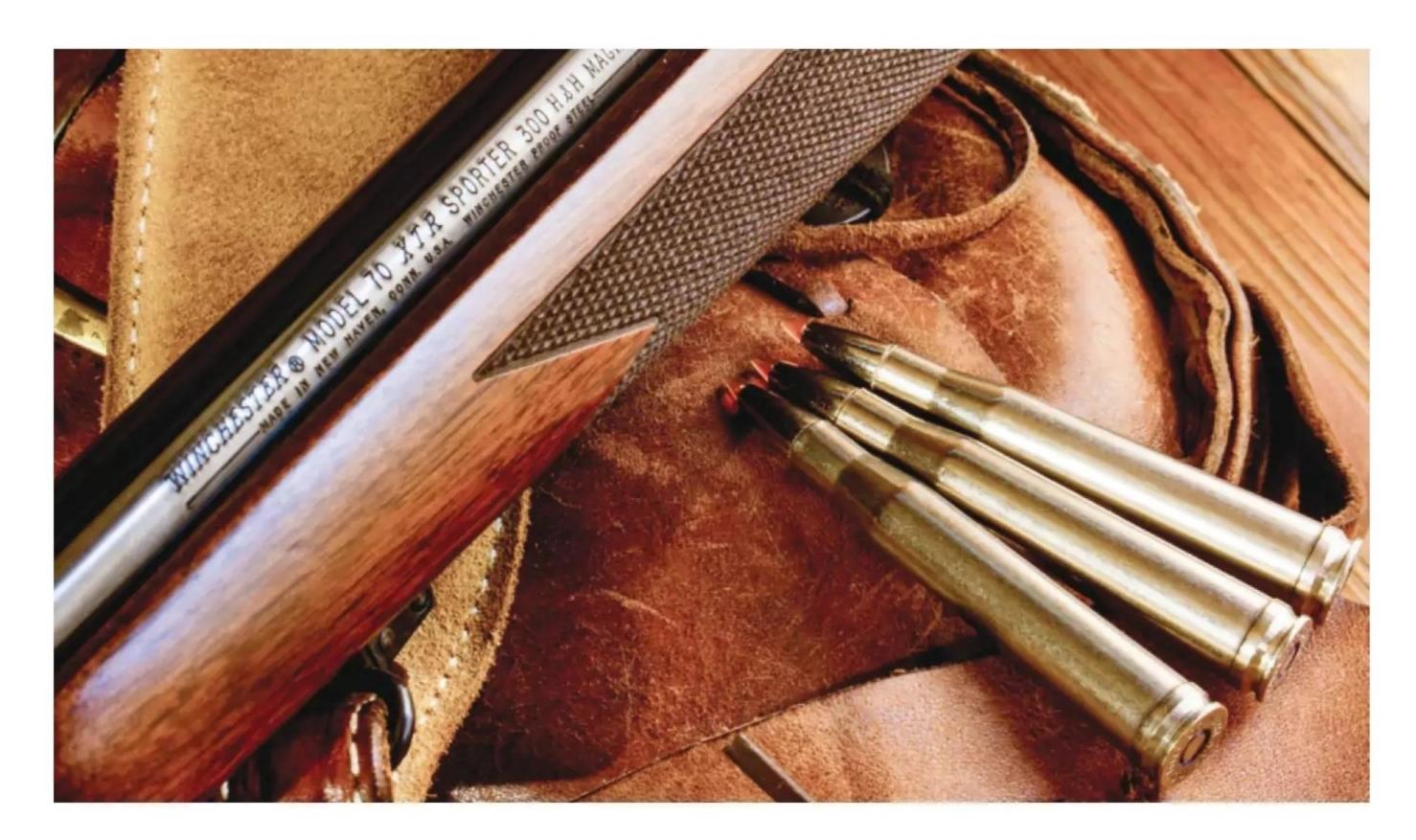
# THE .270 WIN. GOT JACKED

One would think that the flexibility and popularity of the .30-06 Springfield might have killed the .270 Winchester before it even got out of the gate, as the 150-grain ammo was stellar on lighter big- game species, and those massive 220-grain round-nose bullets would neatly handle even the heavyweight coastal bears of Alaska. But Professor Jack O'Connor embraced the fledgling cartridge, taking in from the deserts of Arizona and Mexico to the wilds of Canada, and most places in between. His writings in *Outdoor Life*—in an era where the opinion of a gun writer carried more weight than it seems to

today—propelled Winchester's cartridge into the annals of history, and O'Connor seemed to guarantee the future success of the cartridge.

Making good use of the original 130-grain load—with a muzzle velocity of 3,160 fps—O'Connor waxed poetically about the cartridge, ushering in the era of speed, in complete opposition to the heavy-and-slow mentality of the era. Readers followed suit, and it turned out that the .270 Winchester made one helluva whitetail cartridge. The rest is essentially history, because the generation of O'Connor readers took the torch and ran with it. Because it was so popular, it was readily available, and because it was readily available, it remained highly popular.

Truth is, the cartridge is a sound balance of velocity, striking energy and manageable recoil. The .270 Winchester has



the attributes desirable for both Eastern deer hunters and Western hunters after mule deer, pronghorn and, yes, despite so many arguments, bull elk. As the cartridge aged, bullet technology only improved the capabilities of the cartridge, and today—in spite of the developments in cartridge, bullet, and optic technology—it still works just fine.

Despite a couple attempts at dethroning the king—namely in the .270 Weatherby Magnum and .270 Winchester Short Magnum—the only real threat to the .270 Winchester is the 6.8 Western, which employs a faster twist rate to utilize bullets heavier than those normally associated with the .277-inch bore.

And, although I'm a big fan of new cartridges, I don't think the .270 Winchester will ever be unseated.

# .300 H&H MAGNUM

Crossing the "pond," the prestigious London firm of Holland & Holland announced the arrival of the .300 Holland & Holland Belted Magnum—the Super 30—in 1925. The fourth in the H&H line of belted cases—following the .375 Velopex, the .375 H&H Belted Magnum and the .275 H&H Belted Magnum—it mated the successful .375 H&H Magnum case with the .30-caliber bullets of the .30-40 Krag and .30-06 Springfield.

The first commercially successful .300 Magnum, H&H's cartridge used the 2.85-inch case and 3.60-inch overall length of the .375 H&H Magnum, best housed in a magnum-length receiver. Factory am-

munition saw a 180-grain bullet sent at a muzzle velocity of right around 2,700 fps—seemingly loaded down to the level of the .30-06 Springfield in anticipation of the effects of the heat of the tropics on Cordite—but handloaders could easily beat that figure.

The .300 H&H, like the .375 H&H, was picked up by Winchester, Western, Peters and other ammunition companies, with Winchester and Remington offering American-made rifles. In fact, in 1936 Winchester offered the .300 H&H Magnum in the initial release of the Model

70, and Remington's 722 was embraced by many hunters as well. Ben Comfort used the cartridge to win the Wimbledon Cup—the Camp Perry 1,000-yard shooting competition—with a custom Griffin & Howe Remington 30-S rifle, proving the capabilities of the belted beast.

In the hunting fields, many successful reports drew attention to the magnum whether or not that was a placebo effect—and the three initial loads featuring 150-, 180- and 220-grain bullets covered nearly all the bases in the big-game world, save the true heavyweights. As powder technology improved, the .300 H&H just got better, with ammunition seeing the 180-grain slugs pushed to a muzzle velocity between 2,850 fps and 2,950 fps in modern ammo. The slight 8½-degree shoulder allows the cartridge to feed ever so smoothly, while the belt of brass just north of the extractor groove handles the headspacing duties.

For those who might be recoil sensitive, yet are interested in magnum-level performance, the .300 H&H makes a fantastic choice for a hunting cartridge. I have found that, among the myriad choices of .300 magnums, the ,300 H&H is among the easiest on the shoulder, yet offers solid



(above) The author's current .300 H&H rifle: a mid-1980s Winchester push-feed Model 70, gifted to him by a friend, and it's become one of his favorites.

Holland's Super 30 is immediately recognizable, with its signature belt of brass and slight, sloping shoulder.



The author took this respectable red hartebeest bull at 250 yards in central Namibia, putting him down with a single shot from the .300 H&H Magnum.



field performance. Yes, John Nosler was carrying this cartridge when the 1940s bullet technology let him down hard on a Canadian bull moose, but modern bullets have done nothing but help the century-old cartridge. I have taken the .300 H&H Magnum across the pond on a couple of safaris, not to mention hunting here in the United States; it has been good to me in a number of different scenarios. From whitetail deer in my native New York, to Hartmann's mountain zebra, red hartebeest and eland in Africa, the cartridge has yet to let me down.

I've had a couple of rifles chambered for the excellent cartridge, including a 1959-vintage Colt Coltsman bolt gun, which my wife used to take a great blue wildebeest bull, and my current love, a mid-1980s Winchester 70 push-feed with one of the most beautiful pieces of flamed walnut I've ever encountered in a factory stock. The latter rifle prefers bullets with lots of bearing surface and will put three Nosler AccuBond 200-grain bullets into ¾-inch groups all the livelong day.

## THE ATHLETIC YOUNGER BROTHER

Marketing being a funny thing, Winchester's own .300 Magnum is what pushed the H&H design out of the limelight. The shorter case of the .300 Winchester Magnum allowed it to be housed in a budget-friendly long-action receiver, while the ballistics of the younger case ac-

tually bettered those of the .300 H&H.

In spite of the large number of modern .300 magnums that have come to light in the past quarter century, the .300 H&H Magnum still has that "cool" factor; whenever I pull mine out at a range session or on a hunt, guys look on wide-eyed. I've had more than one African Professional Hunter ask to shoot my rifle or beg a cartridge for their collection. Does it make financial sense, being a rarity these days? Probably not, but there are no flies on the ballistic formula, and I will happily attest to the fact that no animal has ever been able to determine whether I was carrying a .300 H&H or a .300 Winchester.

The slight shoulder, the long, tapered case and the history that comes attached to Holland's little gem all combine to offer an undeniable classic rifle experience, harkening back to an era when "300 Magnum" was inscribed on the barrel, and shooters knew it was a .300 H&H Magnum, as there was no commercial offering before 1963.

Whether loaded with modern polymertipped boat-tails or a good old roundnosed thumper of a bullet, the .300 H&H is equally at home in the woods of the East in pursuit of whitetails or black bear, as it is on an elk hunt in the Rockies, or in a leopard blind in the Zimbabwean lowveld.

With modern factory ammunition choices being limited, handloading is assuredly the way to keep your .300 H&H

properly fed. It seems to be a forgiving cartridge, as you can use a good number of common propellants, and the choices of component bullets are nearly limitless. Grab a good set of dies and source enough brass to keep yourself in business, and you can hunt the rest of your days with a .300 H&H Magnum. I like a 180- or 200-grain bullet for most applications, though the .300 H&H Magnum will handle the 150-grain bullets very well, unlike many other .300 magnum cases.

# TIME MARCHES ON

So, with all the progress we've made over the last century in case, powder and bullet technology, why in the world would a new hunter even consider one of these centennial cartridges? Well, both possess the attributes that any hunter would appreciate, giving a blend of usable features, and both have the pedigree to create that inexorable tie to the past that hunters crave so much.

And, frankly, both of these work—at normal hunting ranges—just as well as anything that has come along in the century since they were introduced. Neither was designed for dedicated target cartridge, though both have the capability to deliver fine accuracy.

Happy 100th birthday to the .270 Winchester and .300 H&H Magnum ... and to many happy returns. **GDTM** 





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"The Axcess trigger exceeded my expectations. It has a crisp and consistent feel and seems very durable and reliable. Great for building or upgrading on a budget!"

## Drew

- Early beta tester

# DYING ON THE VINE

Dead or dying cartridges of the modern era.



little more than a decade ago, I edited Gun Digest's 13th Edition of Cartridges of the World. If you're unfamiliar with that book, it's essentially an encyclopedia of metallic cartridges. I'm not sure how many cartridges the latest volume covers, but the 13th Edition contained the history and specifics for more than 800. Some of those cartridges were, by at least some measure, failures.

What makes a metallic cartridge a

failure? It could be because shooters failed to grasp the cartridge's intended application, or it could be that the manufacturer failed to effectively convey that message. Sometimes manufacturers fail to divine what the shooting public really wants, or they gambled on

past successes with a similar cartridge. On occasion, a cartridge might be too much of a good thing or possibly competitive rules change and neutralize an edge a new cartridge might have had. There are a lot of reasons for a cartridge to be a commercial failure, but that alone does not mean they are a ballistic failure.

Here's a look at 10 cartridges that, for various reasons, failed to become popular. It does not mean these are bad cartridges, so if your favorite is on the list, don't waste your time sending hate mail. The truth is that all these cartridges are very good at their intended purpose; it's just that most folks could care less.

# .307 WINCHESTER

The .307 Winchester is just a .308 Winchester with a rim to better work in Winchester's 1894 lever-action rifle. Winchester created a special Angle Eject version of their 94 to house the .307, and with it you could mount a riflescope directly over the action. I bought the first one I saw, hunted with it and handloaded for it. The .307 will push a 150-grain bullet to 2,700 equaling the ballistics of the original 30-06 Springfield load. The problem was that as good as these ballistics are, they were still from a traditional leveraction rifle. Most of what everyone wants to do with a traditional leveraction rifle, you can do with the 30-30 Winchester.

Year of Introduction: 1982

Reason for Failure: Ballistically outperformed the practical application of the rifle Winchester created it for.

## .45 SUPER

Gun World magazine editor Dean Grennell developed the .45 Super as a more powerful version of the .45 Auto. Because it's loaded to a maximum pressure that's 5,000 psi more than .45 Auto +P ammunition, it has about a 250-fps velocity advantage. You can convert most .45 Auto pistols to .45 Super with a new barrel that has a fully supported chamber and a stiffer recoil spring. But the additional velocity comes with about 40 percent more recoil. Buffalo Bore and Underwood Ammunition still load for the .45 Super. Interestingly, it is a shortened 451 Detonics case, which was based on the .45 Winchester Magnum case, which is almost identical to the .45 NAACO cartridge case. North American Arms Corporation's created the .45 NAACO for the Brigadier pistol they designed to meet Canadian service handgun requirements. Talk about a family of failures.

**Reason for Failure:** Too much of a good thing.

# .356 WINCHESTER

As a companion to their .307, Winchester introduced the .356 Winchester, which offered ballistics almost identical to the .358 Winchester. I thought it would become fantastically popular. After all, it's suitable for anything walking around in North America. But, apparently, hunters looking for a large-caliber traditional lever action with more power than a .35 Remington, wanted larger caliber bullets too. The .356 could never compete with the .444 Marlin, .45-70 Government or even the much older and ballistically similar .348 Winchester.

Year of Introduction: 1982
Reason for Failure: Hunters wanted a larger caliber to hunt big critters with a traditional lever gun.

## .32 H&R MAGNUM

With some help from Federal, Harrington & Richards introduced the .32 H&R Magnum, which is a .32 Smith & Wesson Long with a slightly longer case that's loaded to a slightly higher pressure. It was marketed as a lighter-recoiling replacement for the .38 Special. It recoiled less, but its terminal













In one way or another, these five handgun cartridges are failures, too. (Left to right: .32 H&R Magnum, .45 Super, .356 TSW, .45 GAP and .30 Super Carry.)

performance did not measure up. In truth, the .32 H&R is a great trail/hunting cartridge for revolvers, with more *umph* than a .22 Magnum but less recoil than the .38 Special. I've owned at least one .32 H&R revolver since 1984, and I've used them a lot. The cartridge has always had a cult following and is probably the most successful cartridge on this list. Fortunately, Federal has not forgotten it; they just introduced two new loads for it. If you love this failure as much as I do, understand it's just hanging on by its cartridge rim.

Year of Introduction: 1984
Reason for Failure: Initial bad marketing and niche application.

# .356 TSW

Smith & Wesson designed this cartridge for IPSC competition. It's really nothing more than a 9mm Luger cartridge loaded in a stronger case that is 21.5mm long as opposed to 19mm. The .356 TSW is also loaded to 50,000 psi, but since the cartridge has an overall length similar to the 9mm Luger, it will still work in 9mm magazines. IPSC changed their rules, arguably because of the .356 TSW, and this threw a wrench in the works. Smith & Wesson then tried to rebrand it for personal protection, sort of changing the meaning of TSW from "Team Smith & Wesson" to "Tactical Smith & Wesson." It didn't work. Regardless, this cartridge is a screamer, and you can still get ammo from Underwood Ammunition.

Year of Introduction: 1994
Reason for Failure: Ruled out of contention.

# .45 GAP 2003

The Glock pistol changed everything. It took some time for shooters to trust a plastic pistol, but with almost coast to coast adoption by law enforcement, it rose to stardom. With law enforcement being a large portion of Glock sales and a tremendous part of their marketing, Glock thought it a great idea to offer their own cartridge—one that would provide .45 Auto performance from a pistol with a smaller grip, so more cops could properly interface with it. Initially, the 45 GAP—Glock Automatic Pistol—received tremendous fanfare. A year later, hardly anyone cared, and a decade later, no one did. Oddly, Glock still offers three pistols in .45 GAP, possibly only because they do not want to admit it was a mistake.









Year of Introduction: 2003
Reason for Failure: Apparently,
shooters and cops with little hands did
not want to shoot a .45.

## .17 MACH 2

In 2002, Hornady introduced the .17 HMR cartridge, which was based on the .22 Magnum cartridge case. It was an instant success and so popular that two years later Hornady introduced the .17 Mach 2 rimfire cartridge based on of the .22 Long Rifle case. Ballistically, the 17 Mach 2 fell right between the .22 LR and the .17 HMR/22 Magnum, and while compromising ballistics can sometimes be a good thing, apparently this was a level of performance no one wanted. Currently, a major online retailer only lists two loads for the .17 Mach 2, and no one cares unless you were silly enough to buy one back in the day.



Year of Introduction: 2004
Reason for Failure: Too much and too little in the same package.

#### .25-45 SHARPS

There have been many attempts to create an AR-15 compatible cartridge that offered a ballistic advantage over the .223 Remington for deer hunting. That's why the .25-45 Sharps was created, and it uses a .223 Remington case necked up to accept a 0.257-caliber bullet. The goal was to duplicate the ballistics of the .250 Savage, and the .25-45 Sharps would do that with 87-grain bullets. However, the case was too long to work with the heavier-more-popular 0.257-caliber bullets most deer hunters preferred. I worked with the cartridge a good bit and even

took it to Africa. But limited bullet options combined with the fact most modern shooters did not give a damn about the .250 Savage, The .356 TSW was created for competition but was ruled into obscurity

doomed its success.

Year of Introduction: 2008

Reason for Failure: Had to compete with the .300 Blackout and was not supported by ammo and firearms manufacturers.

#### .30 REMINGTON AR

At a time when the media was crucifying the AR-15 rifle for not being suitable for big-game hunting, Remington countered that argument with the .30 Remington AR. It would push a 125-grain bullet to 2,800 fps and a 150-grain bullet to almost 2,600 fps. However, Remington

screwed up the introduction of this cartridge so bad it looked like it was intentional. It took two years to get guns to market, and during that time Remington introduced the .300 AAC Blackout with a much better marketing

The .17 Mach 2 is a very cute and

zippy little rimfire cartridge, but

it was not fast enough to outrun

its lack of appeal.









The .30 Super Carry (left) is just as terminally effective as the 9mm Luger (right), but gun manufacturers have not supported it.

The .30 Super Carry is a far better cartridge than sales suggest, partly because shooters don't understand it, but mostly because of lack of support from gun manufacturers.



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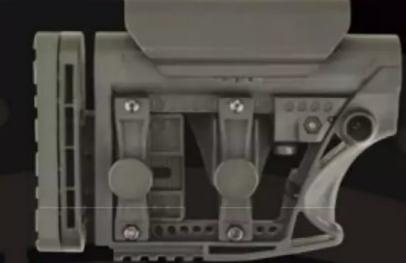
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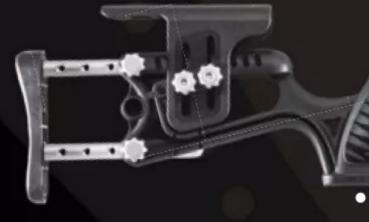
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Though marketed primarily as a self-defense round, the real appeal of the .32 H&R Magnum is as a field/hunting cartridge

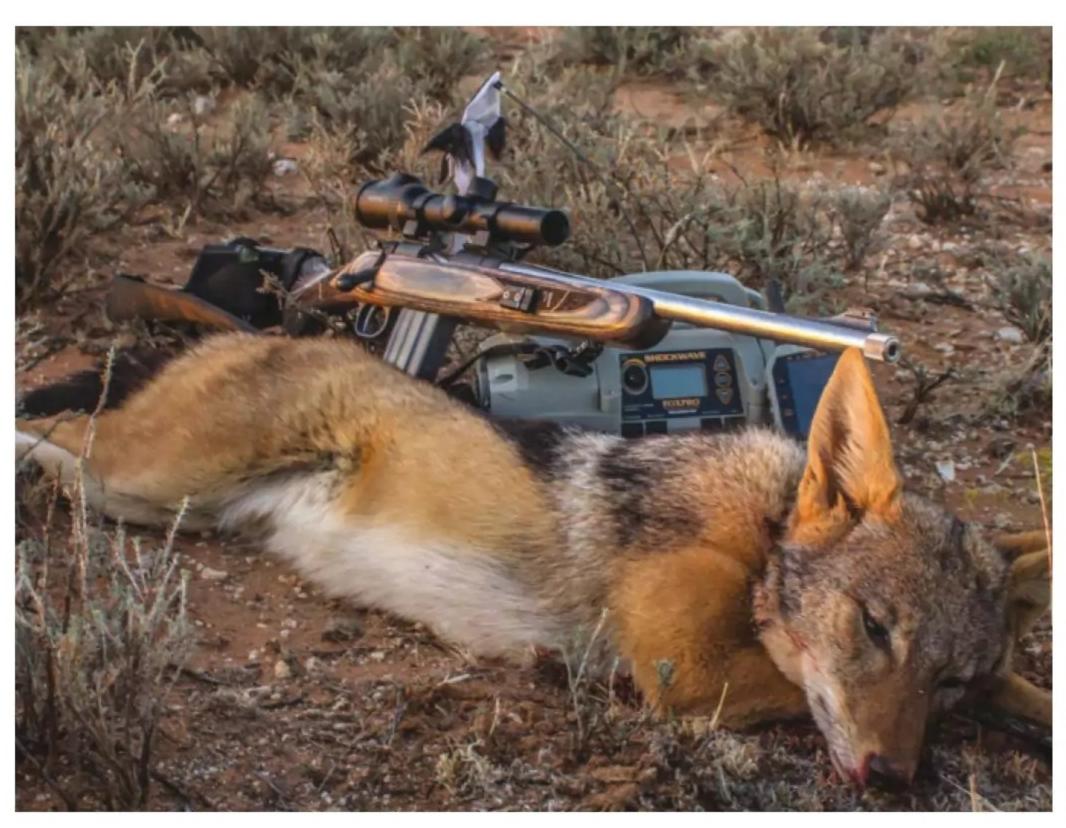
#### .30 SUPER CARRY (2022)

This may be the most misunderstood pistol cartridge. It makes perfect sense because it offers 9mm performance with a 20 percent increase in capacity. Its ballistics are so good because Federal created great bullets for it, and they loaded it to 52,000 psi, which is 20 percent more than 9mm Luger +P ammo is loaded to. When tested in 10 percent ordnance gelatin, the .30 Super Carry performs almost identically to the 9mm. So, why is it not the most popular self-defense pistol cartridge in the world? One reason really: Glock. The .30 Super Carry has been around for three years, but Glock has yet to offer a pistol chambered for it. In fact, Sig Sauer, Springfield Armory and Ruger haven't either. Why? Maybe 52,000 psi is just too much pressure for those guns.

Year of Introduction: 2022 Reason for Failure: No Glock, Ruger or Springfield Armory pistols and consumer misunderstanding. **GDTM** 

Though the .25-45 Sharps offered great ballistics for predator and deer hunting from an AR-15, shooters have mostly forgotten it, and many have never heard of it.

Of all the hunting cartridges designed for the AR-15, the .30 Remington AR offers the best ballistics. Remington failed to market and support it, and it's headed to obsolescence.







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t's fair to assume that most shooters have at least a general understanding of how their guns work on a technical level. The ins and outs of specific designs can be a fairly specialized knowledge set, but I'd wager that most people using common semi-autos know they are, in large part, gas operated.

However, there is quite a bit of nuance that we're going to dive into here talking about the various gas systems and how they work, especially with suppressors and how things like gas flow and bleed-offs work. This is a technical topic, but I'll spare the jargon and try to relay as much of this as possible in layman's terms so everyone ends on the same page.

#### **GAS SYSTEM TYPES**

For what we're talking about here, we're going to be discounting such rifles as bolt actions and anything manually operated. There are, of course, ways that gas interacts with these guns and suppressors, but those are their own topic. Specifically, we're going to look at direct gas and piston-operated rifles, each with its own problems and advantages.

The baseline situation with these guns is that the rifle operates using a port in the barrel that acts as an avenue for gas pressure to be directed. If you are new to this topic, yes, there is in fact a hole in the barrel that is drilled through into the bore itself. This hole is typically called the gas port. A gas block is mounted to this—a fixture that is the interaction point between the barrel and whatever gas system is in use. The shape and style of the gas block varies depending on what is being asked of it, but for our purposes we're going to look at it as a very important piece of this equation.

Before we go too far into gas blocks, we need to look at operating systems. At a point, their function is well-established, and I'll only go into a brief discussion on their designs to save space here. The two basic forms mentioned above are both in common use, with direct gas being the more common today in the AR platform.

Direct-gas guns take the gas pressure from the firing cycle and vent it through the gas block into a thin metal tube, of course called a gas tube. This little tube takes the gas pressure built up in it and blasts it directly into the gas key, a hollow structure atop the bolt carrier group. This gas pressure forces the bolt carrier group rearward, thus unlocking the bolt, ejecting the spent cartridge, and then, by spring power, travels forward to strip a fresh round off the magazine, thus starting the cycle again.

The downside of this otherwise reliable method of gas operation is that it is, comparatively, very dirty. When firing suppressed, the average AR becomes a mess very quickly. I have been firing all my AR rifles suppressed now for years, and fouling in the guns is about 10 times worse than firing unsuppressed. Your mileage may vary ... but be prepared to do a lot of cleaning. I'm not above just blasting out an AR with a hose and Dawn soap in the backyard.

Piston rifles, by design, are much cleaner in operation. There are endless debates about the reliability of piston guns over direct-gas guns. But the jury is permanently out, as the entire world uses variations of both systems with many nations, including our own, using both in various capacities.

Piston rifles vary a lot in terms of design; some use a fixed piston, such as the AK series rifles, and others have a push rod system where the bolt group is separate from the piston. A rod in the gas tube will push the carrier back. Some argue this is better from the standpoint of maintenance and reduced bolt carrier mass for softer cycling, but



again, the jury is out.

There are too many successful designs out there that use fixed pistons or push rods, and all of them are pretty good ... just different. In either case, the vented gas is used to actuate the piston in what amounts to a closed system, thus keeping propellant gas out of the receiver. Wisdom says that this is more ideal for suppressor use in that it keeps the interior of the gun very clean. In my personal experience, I have found this to be largely true and have come to enjoy the lack of cleaning piston guns offer.

#### **STAYING IN TUNE**

The commonality among these systems, aside from being gas operated, is how we can alter the flow of this gas to change the internal pressure in the gun. It works in largely the same way regardless of a rifle being direct gas or piston.

That said, piston guns are somewhat less flexible in how they interact with the gas cycle. While not the rule entirely, rare is a single piston system that's as modular as the direct gas system on the AR platform. Most piston guns are designed to work only as their set specs allow and are often from a single manufacturer.

For instance, the BRN 180 is a piston gun, and so is the FN SCAR. They are in no way compatible, and there isn't anything that can be done on a real level to affect the way these guns work in terms of reliable cycling. You pretty much get what you get; you can regulate the system by reducing the amount of gas ... and therefore pressure in the system.

The AR series is quite the opposite.



There are many distinct gas system lengths that are quite modular, and you can select the type of gas system you need for your individual build. The shorter the gas system, the higher the initial operating pressure. This is why many shorty builds feel snappy compared to a 20-inch barrel with a rifle-length gas system, a combination most regard as very smooth and easy to shoot.

The AR can also be adjusted by using a lightweight bolt carrier and various weights of buffer to achieve the desired balance in the gun. Depending on the car-

tridge you're using, you will want to pick a gas system based on what kind of pressure it uses, such as .300 Blackout, which is best with a very short gas system due to its sometimes very minimal powder charges in subsonic form. It often won't generate enough pressure to cycle the action without a suppressor to help.

A problem that can exist in some cases is over-gassing, especially with suppressor use. What we don't want is to take a rifle that has a gas system regulated for unsuppressed use and then create a situation where the gun is beating the hell out of



itself. Bleeding off gas is the way to solve this, and in some cases with more modular platforms like the AR, you can select different internal parts to help slow the bolt travel, making it less violent.

While most guns won't be horribly damaged by over-gassing, it isn't a great idea and can pretty easily result in parts wearing out quickly. Now, of note if you are using a suppressor, this means that in some cases your rifle will need the suppressor installed to cycle properly. Ideally, your adjusted gas system will kick all your brass out nicely in the same spot. A symptom of over-gassing is erratic brass ejection. When I tune my gas systems, I can expect the rifle to be very gentle in the firing cycle and drop brass consistently in the same area.

It's surprising how little gas you need to cycle a suppressed semi-auto. Some of my rifles will still cycle unsuppressed, but ejections are weak, and the bolt may not lock back. Many rifles have a factory installed gas selector that lets you switch essentially between "suppressed" and "unsuppressed." In reality, this is a basic gas bleed-off that keeps it simple for the causal shooter.

If you are a dedicated suppressor shooter, you'll want a more finely adjustable gas block that allows you to really dial in your pressure curve inside the gun for best handling and therefore function. A suppressed semi-auto rifle with a properly adjusted gas system should feel smooth and run like a sewing machine with no "thumping" as the bolt moves. In calibers like 5.56 NATO, you can work this to make your rifle have virtually no felt recoil, sometimes to the point of it not moving at all. This is especially great when hunting smaller game at longer ranges and with thermal optics.

Tuning gas systems on unsuppressed rifles can offer a number of benefits—not so much on direct gas rifles, but on piston guns especially. Many piston rifles are almost over-gassed from the factory and could do for a calming down. Militarybased piston rifles are known to cycle hard and for good reason, they are often asked to work with whatever 5.56 or 7.62 NATO is laying around, and it's better to err on the side of function.

The M14 rifle is one that strongly benefits from an adjustable gas plug (note that the M14 has a separate screw-in plug that caps off its gas system), and it can be regulated to be very smooth, especially for match shooting. On these types of rifles, you can really extend the life of parts by smoothing out the system pressure. In the M14 especially, which can be an extremely accurate rifle in defiance of many known accuracy trends, a smoother cycling action just makes it that much more able to compete and shoot with.

My own M14 is a Fulton Armory rifle. They recently sent me their brand-new muzzle thread adapter and an adjustable gas plug to allow suppressed use with the rifle, itself featured in many of my Gun Digest topics. When I started to use the rifle suppressed, I was immediately impressed with the difference the upgrades made. The M14 is already





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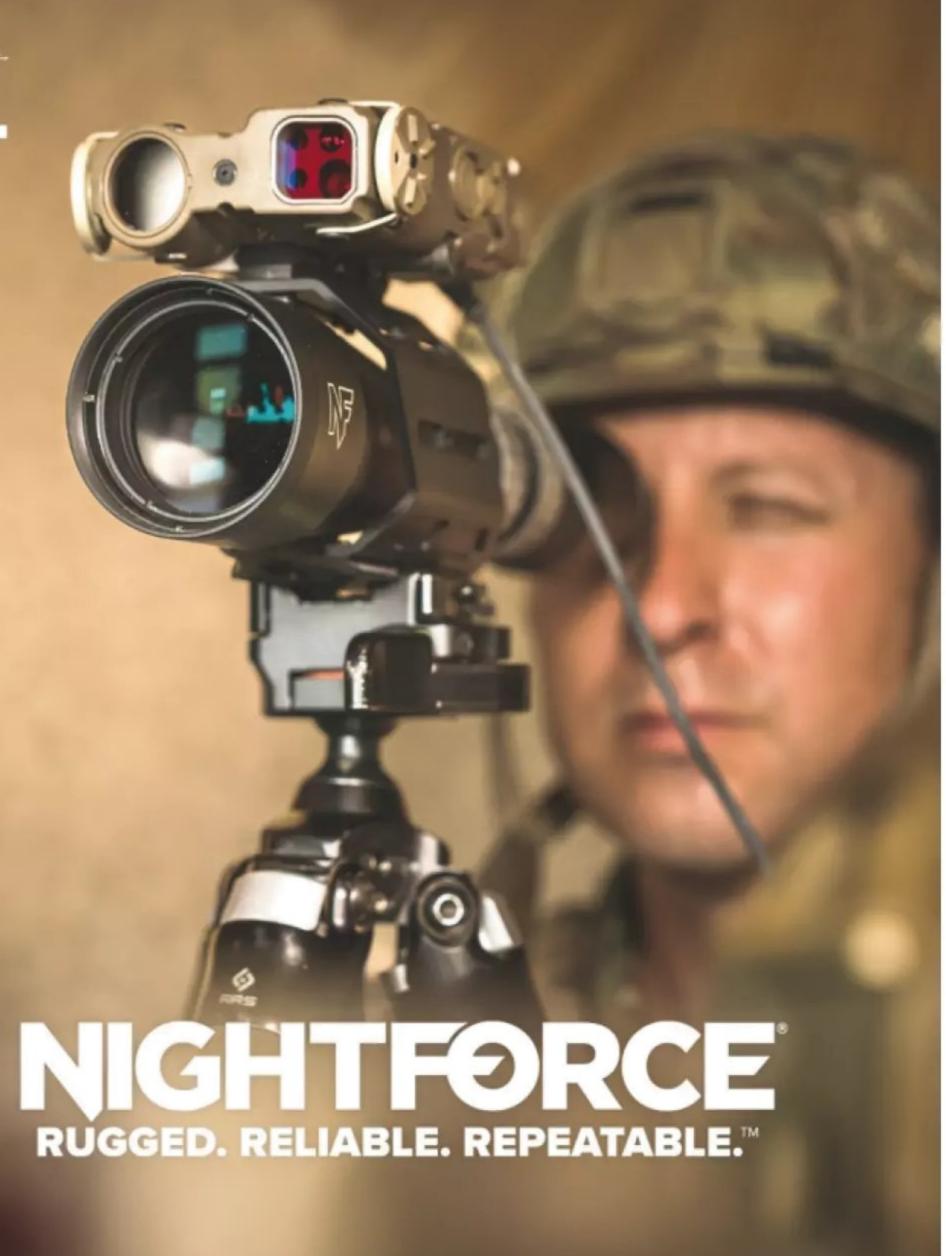




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the suppressor and FA adjustable plug, it was easy to get it down to nearly unnoticeable levels of recoil. Having shot CMP sports for most of my life locally and at Camp Perry, I can't imagine a better match-shooting machine than this.

#### NOTABLE AFTERMARKET GAS SYSTEM PARTS

I have a lot of miles on the suppressed SCAR system. The SCAR has a reputation for being hard on optics, and a good amount of this lore comes from the early days it was in use. A cursory internet search shows hundreds of forum posts about SCAR owners breaking scopes. The SCAR 20S that has appeared on these pages boasts a small but necessary part—an adjustable gas plug called the SCAR-burator from Mototech Engineering. This little part absolutely changes the SCAR for the better and is arguably a must for shooting the SCAR suppressed.

The SCAR is a very modular platform but isn't widely owned by comparison to the AR-15 and AR-10 class rifles. I really like it in general ... if I can adapt the lower for SR25 mags in .308. This single part is a must for any SCAR owner in my opinion, on the merit of how these guns handle their gas pressure. While not exactly cheap at \$149, these aren't cheap guns anyway. Just get one.

Superlative Arms might be the biggest player on the block when it comes to blocks ... of the gas variety. When I get guns from the factory, I typically don't

mess with them much, but most guns you see in my photography on these pages I put together myself. I not only build them for photos, but I really do also use them in the field. Range use only does so much, and I believe in only featuring parts and guns that I would personally trust if I was in adverse conditions.

Superlative gas blocks are very easy to use and install, and they come in a variety of finishes. All my direct-gas guns, aside from historical and military builds, have them installed. They operate simply and have a "click" adjustable plug that allows you to repeatably tune your gas system. When bottomed out, the gas is off, and basically you'd have a straight-pull bolt action.

I typically bottom them out as a starting point, and then I open it five clicks to start. You can go one at a time, but in my use of these blocks, five is the minimum to cycle with a rifle-length gas tube and suppressor.

Of note is that Superlative also makes some very smart parts. Their bolt carrier has an internal chrome lining, which is incredible for suppressed use. I hate cleaning my bolt carriers, but it's a must for good operation, and the fact that they hard chromed the inside of it makes my work so much faster and easier. It's honestly a

great feature across the board that I don't know why it isn't standard.

#### **GASSED OUT**

As we march forward in terms of technology and knowledge in our industry, the pioneers will always be somewhat alone on the frontier ... waiting for the rest to catch up. We are in a good place now when it comes to our understanding of gas-operated rifles, but the future will undoubtedly hold a much higher degree of standardization for use to perfect and then continue to expand upon.

The products in this article are decidedly aftermarket and will need to be worked on by you, the home builder. The sheer number of products out there, combined with the endless variety of suppressors and ammunition types, makes it so that this discussion is somewhat personal and truly up to you for the time being. Your mileage will vary depending on your chosen end use, but if you are in the business of playing with suppressors and getting your rifles cycling smooth, you need the ability to alter your gas flow—that much is certain. **GDTM** 



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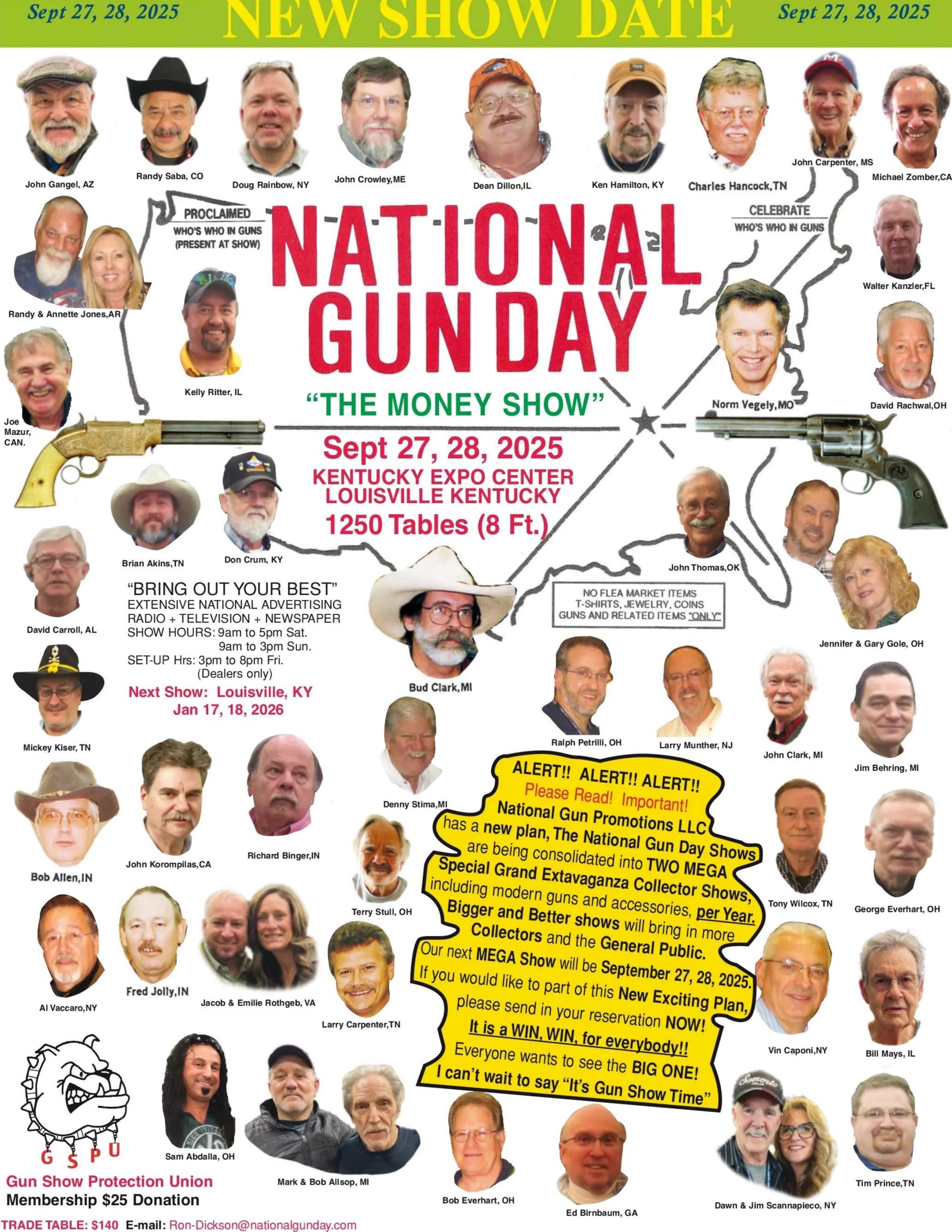
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Jul 26-27 MO, Kansas City. The M.V.A.C.A. 54th Annual National Summer Arms Show. KCI EXPO Center, 11730 N. Ambassador. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: Adults: \$15 A Day / \$20 Weekend Pass Children under 15: Free - must be accompanied by adult. T: 800. F: \$135 Sales Table / \$35 Display Table. Missouri Valley Arms Collectors Association. PO Box 6013, Leawood, KS 66206. PH: 816-559-7469. http://www.mvaca.org.

#### **AUGUST**

Aug 2-3 TN, crossville. Cumberland County Gun & Knife Show. Cumberland County Community Complex, 1398 Livingston Road. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: Saturday: Adult \$5.00, Youth (under 16) FREE Sunday: FREE admission. T: 200. F: \$40 for 6' table with multi table discounts. Cumberland County, TN, contact: Donnie Moody, Phone (931) 250-1981, email: gkshow@charter.net. 1398 Livingdston Road, Crossville, TN 38571. PH: 931-484-5028. www.gkshow.org.

#### **SEPTEMBER**

Sep 5-6 ND, West Fargo. Red River Range Gun Show. Red River Regional Marksmanship Center, 640 16th St NE. SH: Fri. 4pm-8pm, Sat. 8am-4pm. A: \$5.00 per day; 12 years and older. 11 and under free with adult. T: 160. F: \$40. Red River Regional Marksmanship Center. 640 16th St NE, West Fargo, ND 58078. PH: 701-356-0677. rrrmc.com.

#### **OCTOBER**

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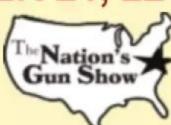
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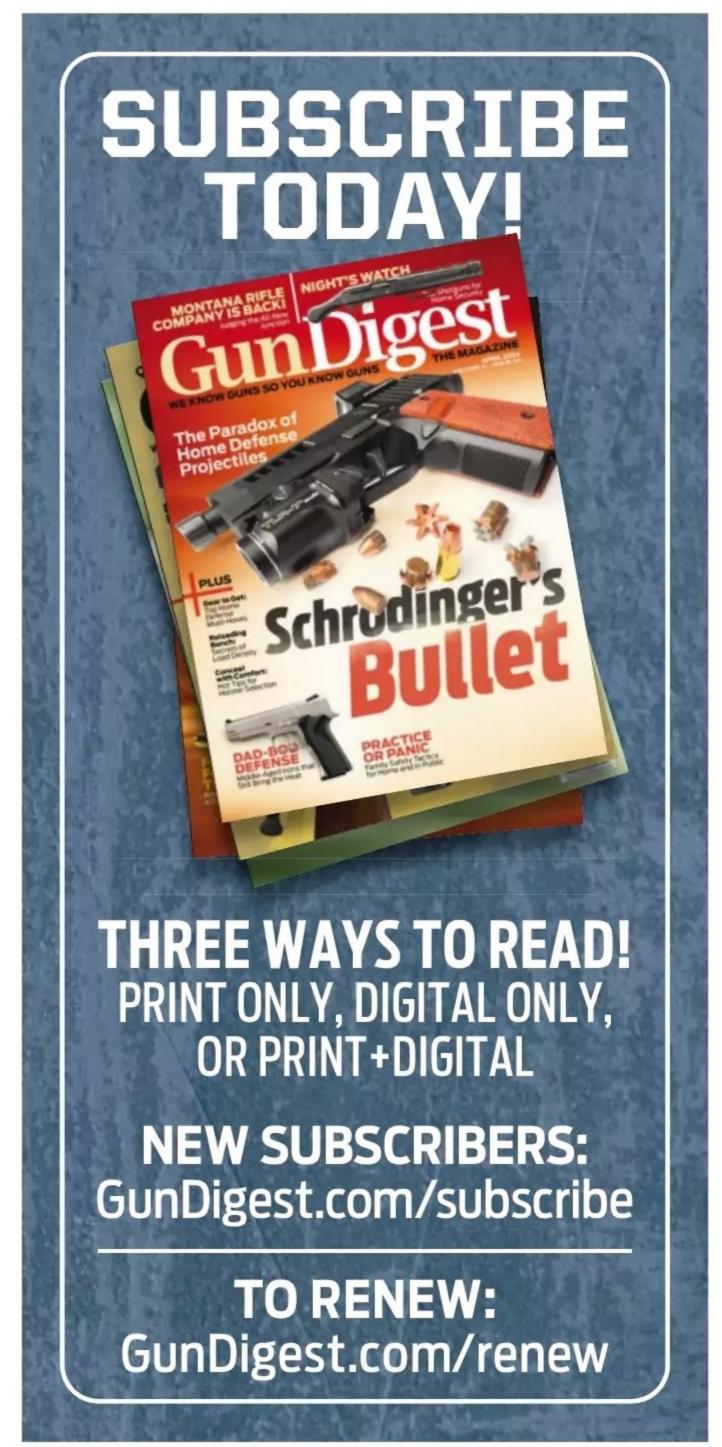
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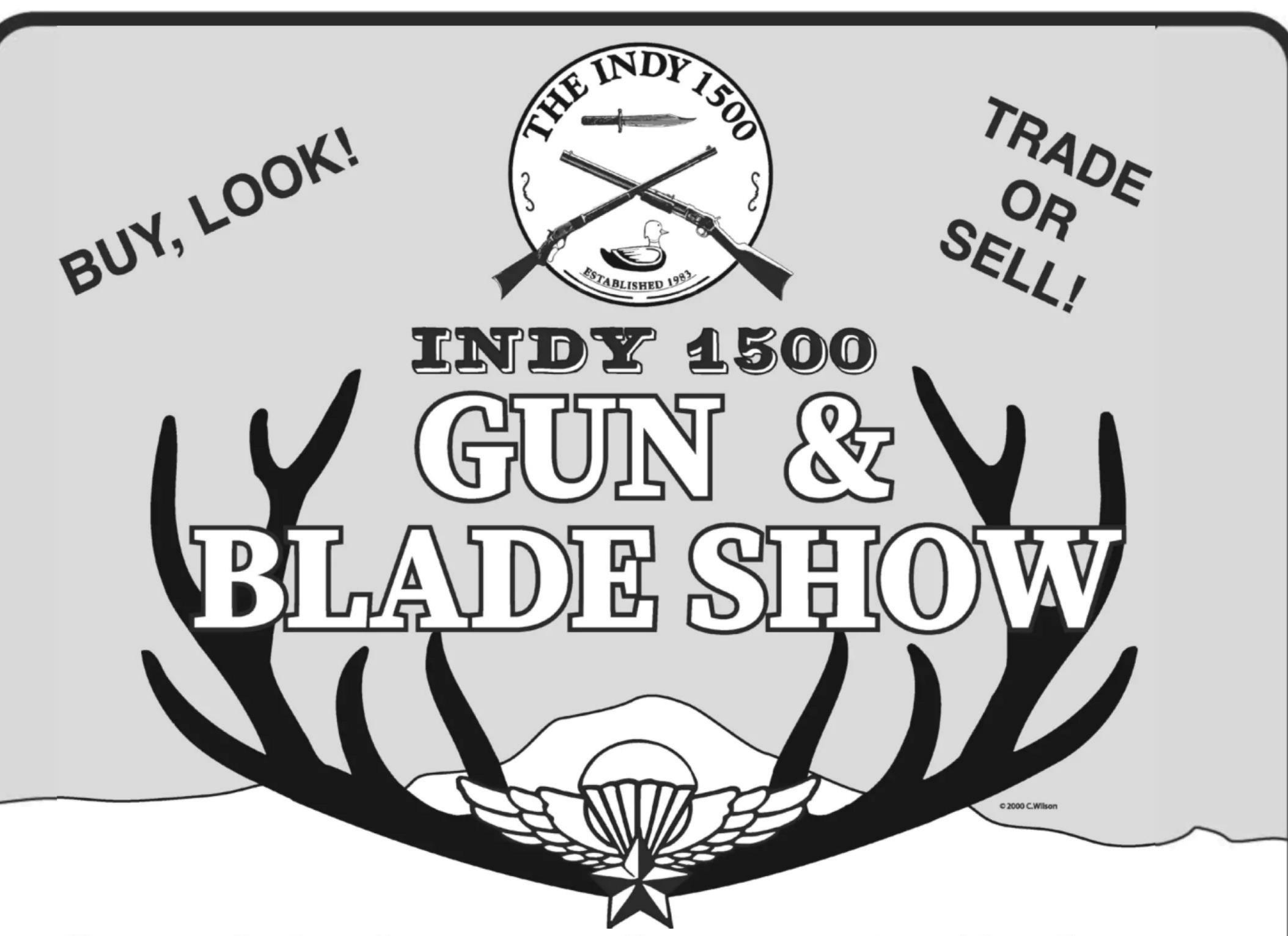
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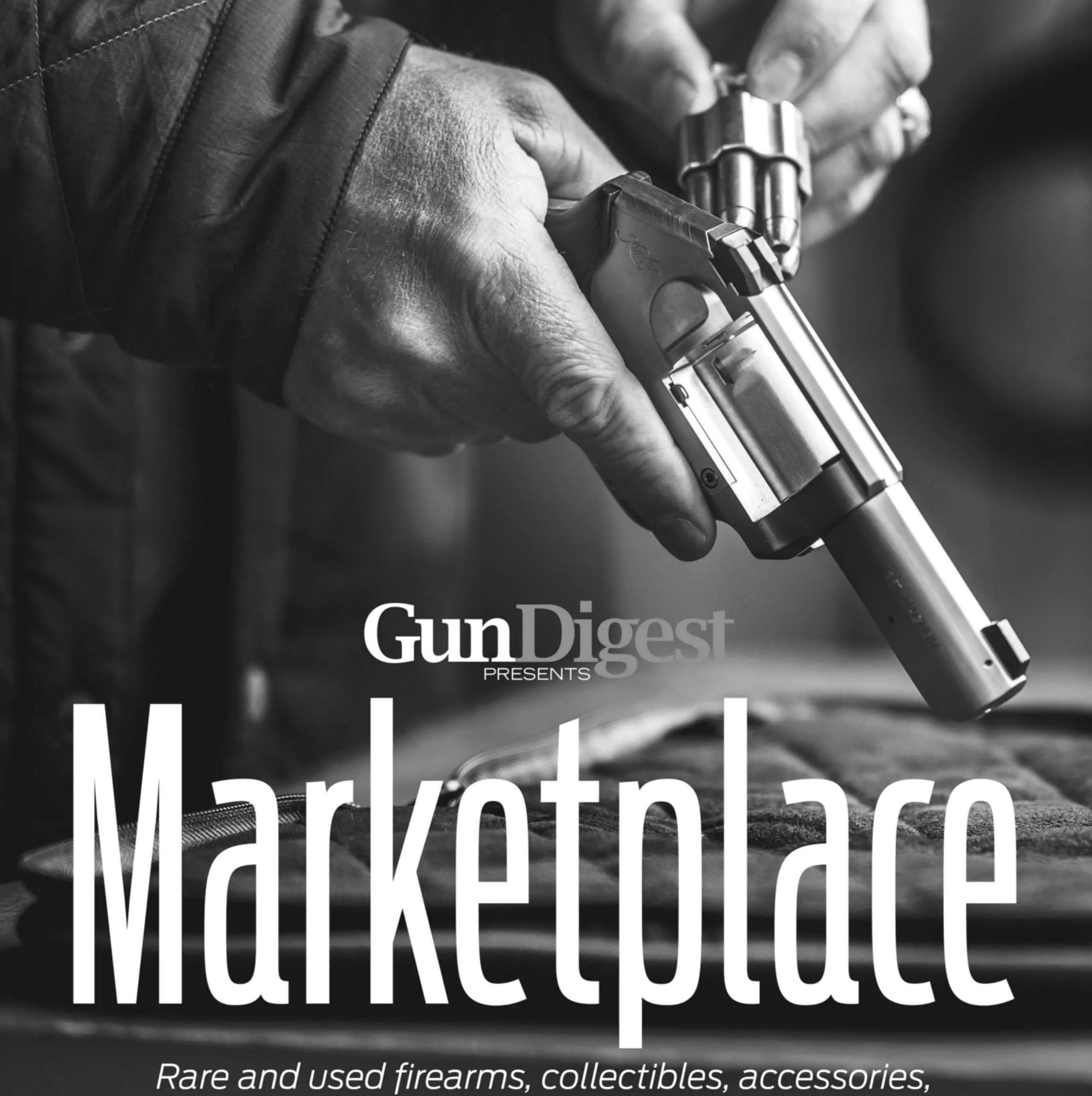
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- 65-X Enfield .303 British "No. 1 MK IV" WW-II Bolt Rifle 25 ¼" barrel with very good bright bore with a counter bore of approximately 1 ½" to improve accuracy, 90%+ arsenal rebuild blue, late style flip up (2) position rear sight and wing protected blade front sight, good rebuilt wood with brass buttplate, right side disk and sling swivels, missing stacking swivel un-numbered bolt, excellent function with parkerized 10 shot magazine (C&R) ................................\$365

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- 70-X Finnish 7.62x54R "Model 91/24 Civil Guard Mosin Nagant Bolt Rifle 32" barrel with good lightly pitted bore, 90%+ arsenal blue showing thinning to gray at muzzle, high edge wear along receiver, pinned front blade with tangent rear sight, barrel has early Civil guard marking "Lotta" and "SA" in a rectangular cartouche, hardwood straight grip stock shows scratches, dings and dents but otherwise in very good serviceable condition, bolt and internal magazine base is not serialized to rifle, excellent function and very nice looking early Mosin Nagant (C&R) .......\$645
- 71-X French / St. Etienne 8mm "Model 1892" Double Action Revolver 4 ½" barrel with good bright bore showing light pitting, fixed sights, 85% original blue thinning to gray with some silvering along high edges and peppery pin prick pitting throughout, checkered Walnut grips, 6 round fluted swing out cylinder, excellent function, manufactured 1892-1970 (C&R) .......\$525

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- 77-X Russian 7.62x54R "Model 91/30" Mosin Nagant Bolt Rifle 29" barrel with fair bore, 75% original blue thinning to gray, barrel shows "Tula Arsenal" over "1937/N", receiver marked "Made/USSR", protected front post, tangent rear sight, smooth hardwood stock and forend handguard, excellent function, comes with canvas sling and cleaning rod (C&R) ............\$450
- 79-X Springfield Armory 30/40 Krag "Model 1898" Philippine Constabulary Bolt Carbine 22" barrel with correctly turned down barrel end to accommodate the issue bayonet of the era, fair bore, metal surfaces are blue to brown throughout, front blade sight, tangent 5th type rear sight, Walnut straight grip stock with "JLA" cartouche on right side, steel buttplate, sling swivels, (missing front stacking swivel), excellent function, manufactured / modified at Springfield Armory around 1899 for use by Philippine constabulary soldiers due to their slight build( C&R) .....\$965

- 82-X Winchester 38/40 "Model 1892" Lever Rifle 24" octagon barrel with very good bright bore, factory open sporting sights, 70% of an old non factory refinish blue with scattered light pitting (mostly on receiver), full magazine, dark Walnut straight grip stock with steel crescent buttplate and very well done period repair of wood with (2) brass washers and pins at wrist, excellent function, made in 1904, excellent smooth action and nice "old west" look (C&R) ............\$985

#### RIMFIRE RIFLES

- 88-X J. C. Higgins .22 LR "Model 29" Tube Feed Auto Rifle 24" barrel with mint bore, front raised blade sight, rear sight missing, open dovetail on barrel, grooved receiver with "RWS model 200" 3-7x20mm scope, with duplex reticle and slightly foggy optics, 90% original blue on metal, wood shows scattered flaking of old lacquer that was applied over two piece Walnut pistol grip stock, J.C. Higgins logo black plastic buttplate, excellent function (C&R) ........\$195

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*

- 99-X Remington .22 Short "Model 241-SA" Butt Tube Feed Takedown Auto Rifle 24" barrel with good lightly pitted bore, all metal surfaces are gray to brown with signs of heavy cleaning, peppery pin prick pitting and traces of original blue, factory open sights, push button takedown on left side of receiver is missing, smooth Walnut pistol grip stock and forend wood, wood looks to be refinished with high shine lacquer, still has excellent function, made in 1946 (C&R) .\$295

- 102-X Remington .22 S, L, & LR "Model 341-P / Sportmaster" Tube Feed Target Bolt Rifle 24" barrel with mint bore, hooded ramp replaceable insert front sight and factory installed fully adjustable "peep" rear sight (no rear dovetail on barrel), 98% original blue, bright finished bolt shows some factory case color on body, very good+ Walnut pistol grip stock with checkered logo hard rubber buttplate, excellent function, made in 1937 (first year) (C&R) ..............\$375

- 106-X Savage .22 S, L, & LR "Model 25" Pump Rifle 24" octagon barrel with very good bore, 95% original blue just thinning a bit, Rocky Mountain silver blade front and sporting open rear sights, good serviceable Walnut pistol grip stock that was broken at wrist and hastily repaired, logo smooth steel buttplate, excellent circular grooved pump handle, excellent function (C&R) .... \$235
- 107-X Sears / Roebuck .22 LR "Model 6C" Sears number /273.528132" Clip Feed Auto Rifle 20" barrel with bright excellent bore, 98% original blue, factory sporting open sights plus grooved receiver, smooth Walnut pistol grip stock with serrated plastic buttplate, plastic triggerguard, stock shows dings, dents and normal wear, missing magazine, manufactured in Canada, by Winchester / Cooey 64B rifle for Sears sales, manufactured in 1975-1977 .....\$150

- 113-X Winchester .22 LR "Model 74" Butt Tube Feed Auto Rifle 22" barrel with mint bore, 98%+ original bright blue, factory open sporting sights, "pop out" bolt, minty lightly figured dark Walnut pistol grip stock with checkered blued steel buttplate, near new overall, collector quality, made in 1953 (C&R) ......\$395

- 114-X Winchester .22 LR "Model 77" Clip Feed Auto Rifle 22" barrel with mint bore, 99%+ original bright blue, factory open sporting sights plus grooved receiver with period Weaver "J4" scope in Weaver mount, minty dark figured Walnut pistol grip stock with logo plastic buttplate, 7 shot magazine, looks and functions as new, collector quality, made around 1958 (C&R) \$365
- 116-X Winchester .22 Short "Model 1890" Pump Rifle 24" octagon barrel with very good lightly pitted bore, original open sporting sights, 95% original barrel blue with nice crisp clear markings, receiver shows about 60% scratchy blue with bolt and tangs going a gray/brown, very good dark nicely grained Walnut straight grip stock with steel crescent buttplate, excellent small circular ribbed slide hammer, excellent function, made in 1920 (C&R) ................................\$695

#### **SHOTGUNS**

- 125-X Sears / Mossberg 12 Gauge "Model 446.511761 (Mossberg 500 ALS)" 2 Barrel Pump Shotgun 18" smooth bore slug barrel with fixed cylinder bore, 2 3/4" chamber with excellent bore, spare 28" plain barrel with fixed modified choke, 2 3/4" chamber with excellent bore, 99% original blue, raised front sight, folding leaf rear sight, top of receiver is factory drilled and taped for scope bases, smooth Walnut pistol grip stock with rubber recoil pad, grooved forend wood, excellent function, manufactured 1977-1980..................\$285

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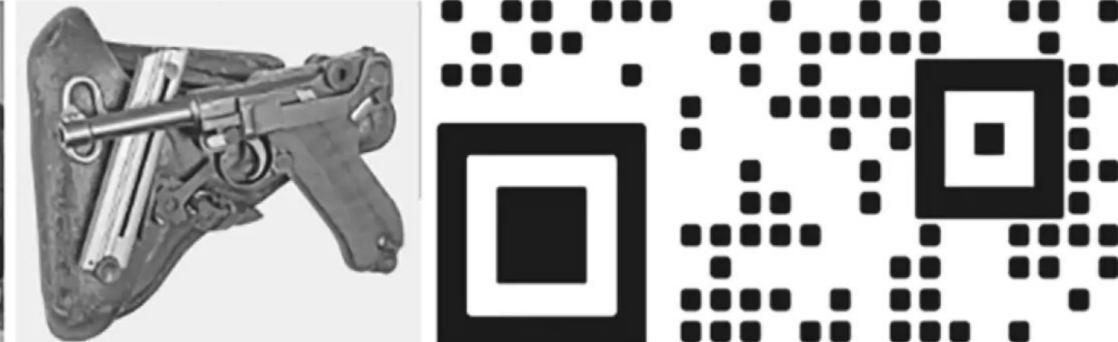
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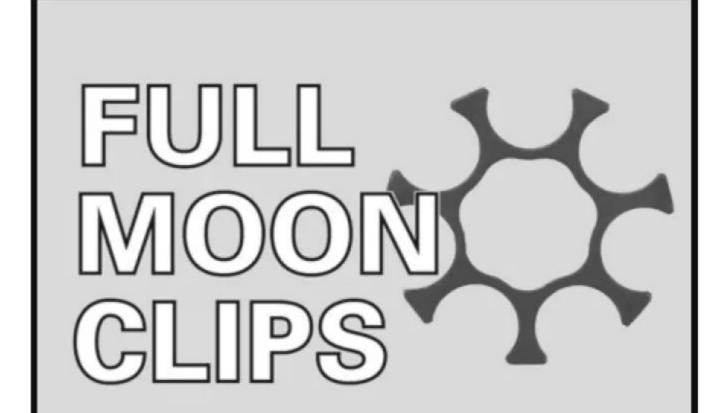
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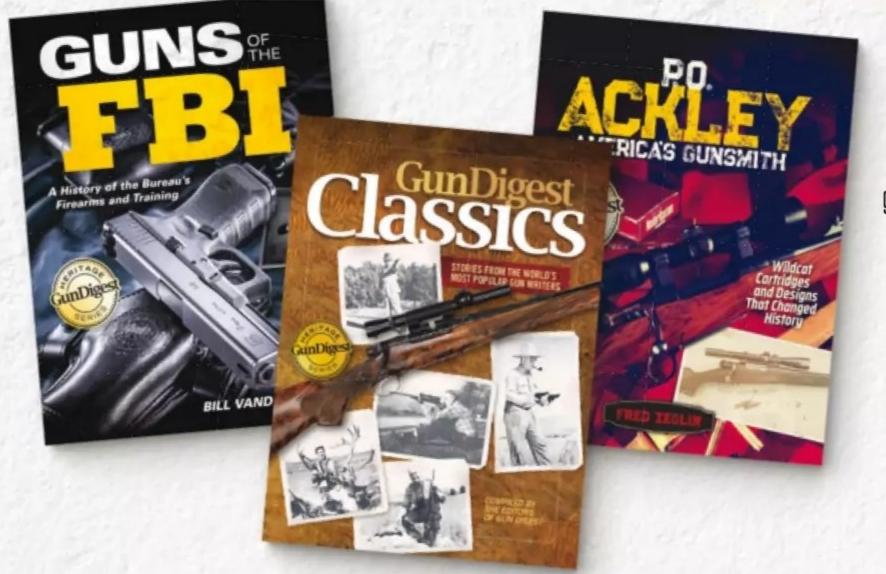
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The Remington 870 is ultra-reliable. The author has won more than his fair share of loot in various competitions in the decades since he acquired it.

40 SW

The Glock, in all its variants, has been made for 45 years, and more than 20 million of them are to be found.



about a musing on the most popular firearms of all time?
Or the past century?"
OK, I'm game ... but we have to have

OK, I'm game ... but we have to have some rules here.

I mean, if we're going to go simply by the number made, then the 1898 Mauser and the AK-47 are the tops of the top. But they were made in such volume because governments bought them. Popular had little to do with it.

So, "popular" in that they were something that people reached into their pockets and pulled out their own cash to buy is what we're looking for here.

I used to work on radio broadcasting, where I first heard the "went platinum" term. That meant 1 million albums and 2 million singles. (There were other limits back in the old days, but the first million-seller was Glenn Miller. Yes, that Glenn Miller.)

So, million-selling firearms that people paid for with their own money. And if not a million, then a whole heck of a lot.

#### **REMINGTON 700**

The 700 was an engineering marvel when it came out. Gone was the forged receiver that required a day's worth of machining operations to craft—instead, a seamless steel tube, broached for rails and locking lugs, and threaded for a barrel. The recoil lug is simply a plate trapped between the screwed-in barrel

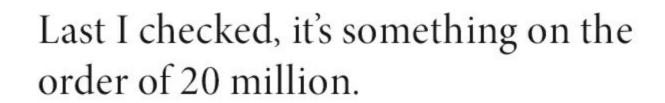
and the receiver. Not only was it inexpensive to manufacture, but it proved to be eminently suited to "blueprinting." This is where someone with precision machine tools makes butting shoulders square, threads concentric, locking lugs perfectly mating and everything that moves, smooth.

Made in the millions (5 at last count), it's so popular that new, ultra-precision rifles are quick to mention "700 pattern" in the bolt and receiver.

#### GLOCK

The G17 started it, and the ease of production and low cost meant the Glock was going to be popular—so popular that it seems there is an entire industry devoted to making a close that is better. (And some, perhaps many, are.) Fiercely opaque about many things, the Glock company doesn't shout out sales figures, but the import numbers have to be recorded by Federal regulation, and the serial numbers give a lot a way as well.

Starting with AAA001, that pattern alone meant they had made 1.7 million by the time they had to change the serial number pattern. Travel anywhere in the world, see a holstered pistol on a police officer, and it's likely a Glock.



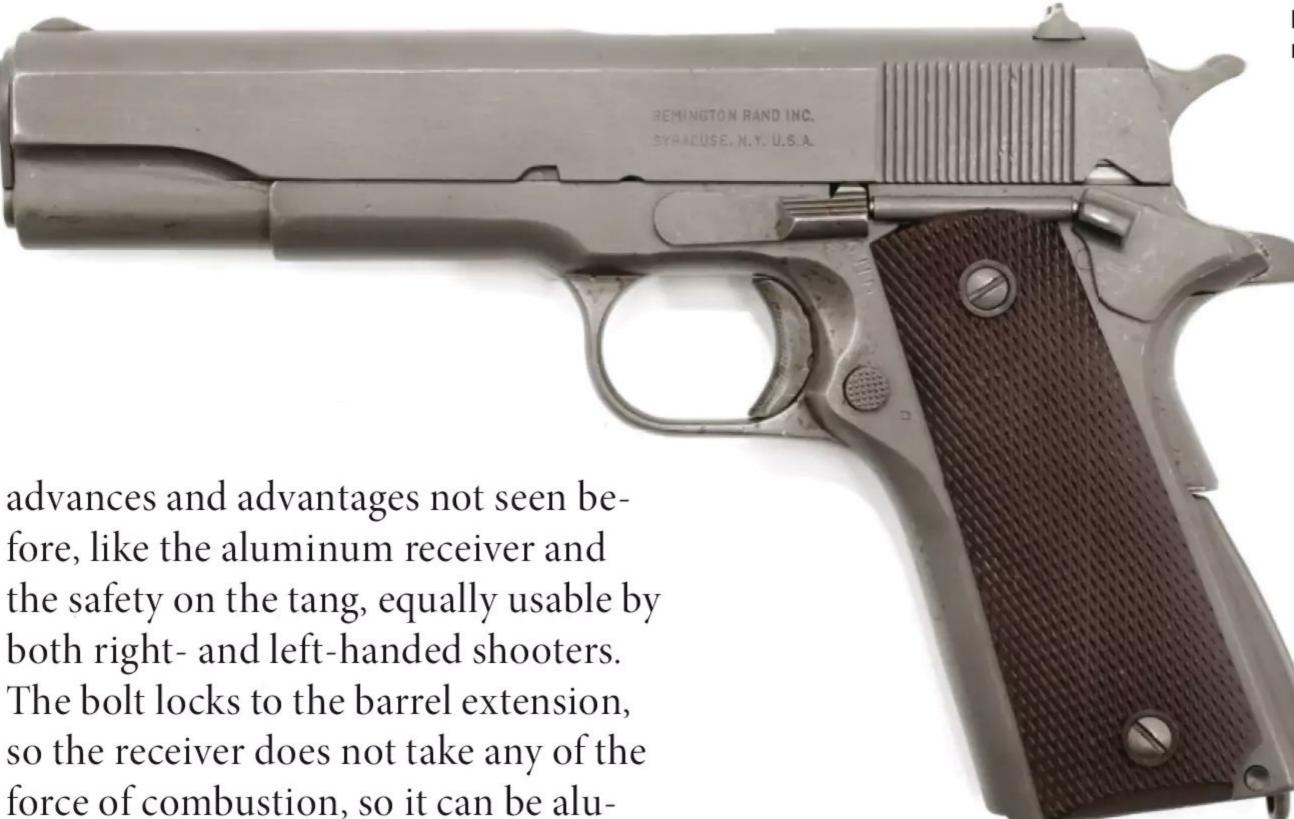
#### 1911

Yes, the government bought a bunch, but then we bought those from the government. The 1911 has been in continual production since it was adopted in 1911, and in the past few decades, there have been more makers of this design than ever before.

So great is the demand that there are manufacturers in Turkey, the Philippines and elsewhere that are making and shipping them to the United States. If you can find a gun shop that doesn't have a 1911 in the display case made by someone, you have to wonder what they do sell. Ten million? Not unreasonable.

#### **MOSSBERG 500**

Starting in 1961, the Mossberg offered



And barrels can readily be swapped. Add in the lower cost than the competitors of the time, and it is no wonder Mossberg was a hit, then and now. Then, they were adopted by the U.S. military, and the 500 just kept evolving. Last I heard, more than 12 million have been made ... and more are pouring out.

#### **RUGER 10/22**

minum.

Before, 10/22 .22 LR semi-autos were finicky, hard to clean, not particularly accurate, and could not be serviced by

ability. And once aftermarket makers figured things out, swapping stocks, barrels and triggers became a winter hobby.

From a short-range plinker, the .22 LR rifle could become a long-range target rifle. I've spent more than one afternoon tagging steel plates at 200 and 300 yards. The platform is so popular that you can now buy all of the parts, none made by Ruger, and assemble your own 10/22. Over 6 million served.

The 1911 and the 1911A1 have been so popular that the production lines have never stopped. And the number of makers has only increased. A 1911 is a forever tool.



#### **REMINGTON 870**

There was a time when "pump shotgun" meant "Remington 870." Before the 870, a spare barrel also had to have the hardware for attaching it to the receiver as part of the swap. That meant extra expense. By locking the bolt to the barrel extension, Remington took forces off of the receiver and could make the barrel swap easier and less expensive.

From riot to Trap, with rib and bead or rifle sights, you could change your 870 almost daily. No wonder they've sold (well before bankruptcy, anyway) 11 million of them.





Now up to the Mk IV, the Ruger pistol was the firearm that made Ruger. Another marvel of engineering efficiency and insight, the Standard was a Colt killer, a High Standard replacement, and a high-enough bar to future competitors that trying to compete is not an easy task. You can't just offer up your take on a .22 LR pistol, and expect prospective buyers to not compare it to the Ruger MkIV next to it in the case. Now, the earlier models had a reassembly trick that was aggravating, but the MkIV solved that. And since it was introduced in 1949, Ruger has made over 3 million of them.

The K Frame has been with us since 1898, when S&W unveiled it in .32-20. The next year they added their own cartridge, the .38 S&W Special. The pair have been with us ever since. A K Frame made today, while some parts won't fully interchange, is so much so the same as the first ones made that a pistolsmith who was working in the first Roosevelt era could work on one made yesterday and not be at all out of sync.

The K Frame is perfectly sized for the .38, and it's an ergonomic marvel. If someone has the hand size big enough to handle a firearm at all, and the strength to handle a cartridge at all, they can handle the K Frame in .38 Special. Once fully adopted by police



Before the 1100, auto shotguns were not common. Oh, the Browning Auto 5 was well-known, but it was expensive, it still hammered you in use, and it required some special maintenance in order to work well and not beat itself up. The 1100? Soft-shooting. And, like the 870, it was easy to swap barrels. The 1100 soon ruled the skeet and trap fields, and it was so common in duck and geese blinds that to show up with something else was to require explanations.

As a gunsmith, I could count on the time between Labor Day and Opening Day as "1100 time." They would pour in, needing cleaning, rust removal, parts replacement and cracked wood repairs. Not because they were particularly fragile, but because there were so many, and they often led hard lives. Many were simply stashed away in the closet after duck season, and the next summer emerged needing work.

As to the volume, Remington made



The Mossberg 500 has evolved into the 590, and has been bought by the military because a good shotgun is always a useful tool.

officers and departments (right after The Great War) it went on to serve for the next 7 decades without being seriously challenged. As a result, there have been some 6 million of them made ... and S&W is still making them.

The Luger, while iconic, is an almost all a military-made product, and while there is lust, it isn't a big seller.

more than 4 million of them, and none of them seemed to ever be kept as safe queens. They all got used, and I felt at times as if I had worked on half of them.

#### **AR-15**

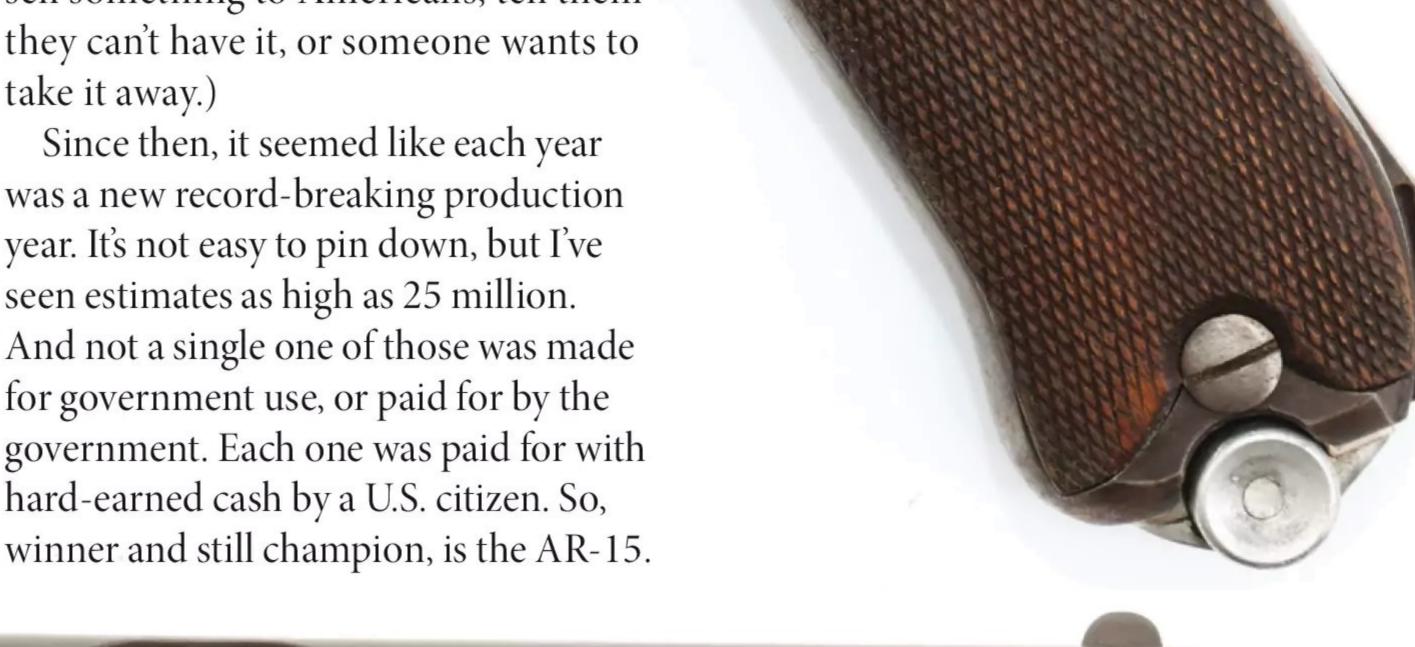
You thought I had forgotten this one, didn't you?

Before the end of the 20th century, production wasn't all that great, because we were still in the blued steel and walnut era ... and not yet fully into the "ban all gun" era. Once it became clear that those who wanted guns gone wanted them all gone, starting with the

AR-15, sales took off. (If you want to sell something to Americans, tell them they can't have it, or someone wants to take it away.)

was a new record-breaking production year. It's not easy to pin down, but I've seen estimates as high as 25 million. And not a single one of those was made for government use, or paid for by the government. Each one was paid for with hard-earned cash by a U.S. citizen. So,

GVB 878 84



The Browning Hi Power is soughtafter, but hasn't quite gotten the love that so many other firearms received.

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#### **OTHERS**

Now there are some that deserve to be mentioned even though they don't quite meet our rules. (Hey, I have to draw the line someplace.)

#### LUGER

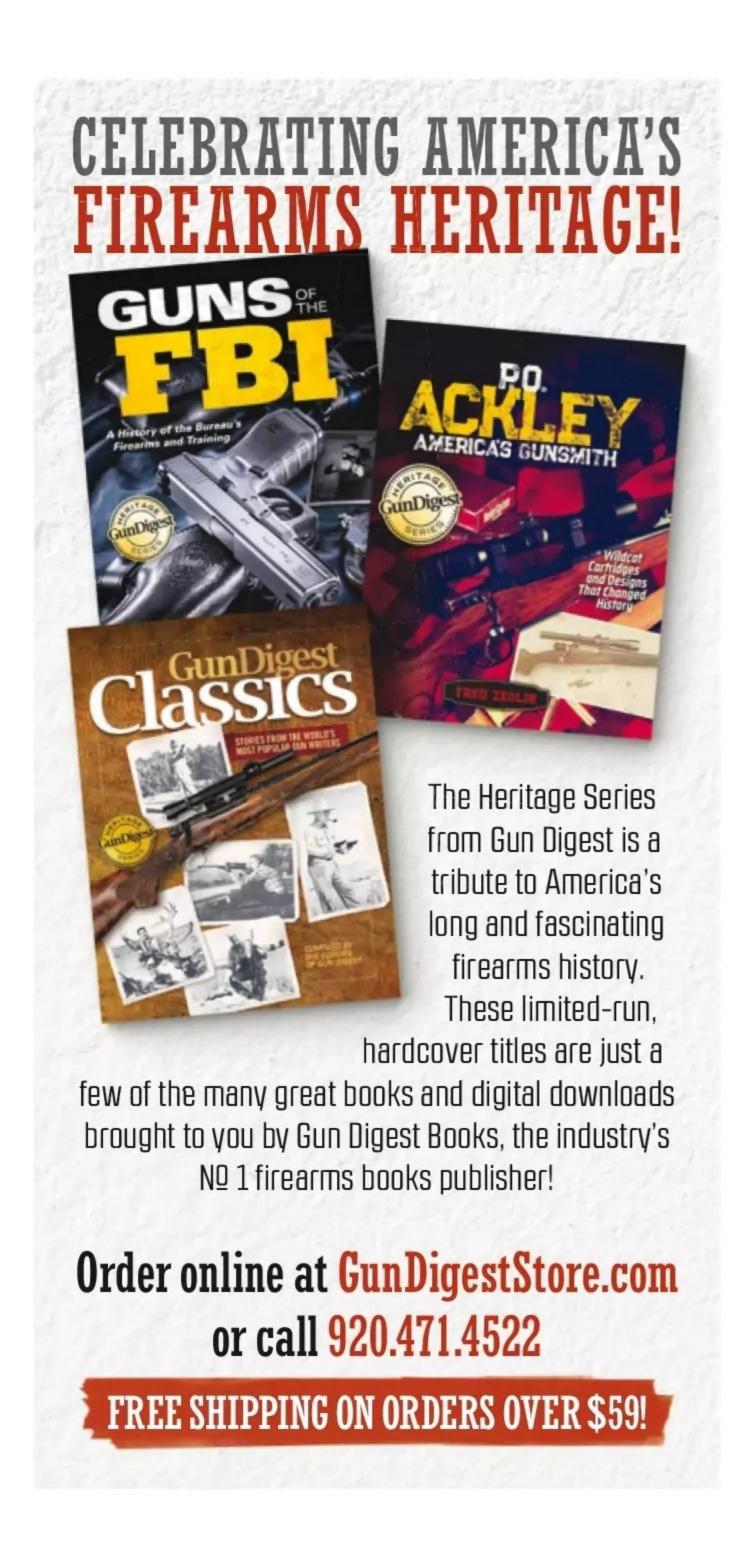
Yes, this is iconic. There were 3 million

made, but the vast majority of them were made for military use. Those that shooters here own were bring-backs, souvenirs and collectibles. No one uses them in target competition. No one uses them in practical shooting matches. No one selects a Luger to use as a daily-carry pistol, or as a homedefense pistol. Oh, I'm sure there are some being used that way, but that's not the norm.

Many look longingly at a Luger, perhaps even lustfully. But few break out their wallet and buy one.

#### **BROWNING HI POWER**

Another lustfully desired pistol, but







## THE MILITARY EFFECT

And what about the military-production firearms? The numbers are impressive, even a bit staggering. And also broad estimates, due to secrecy and wartime losses.

So, the 1898 Mauser, in all its variants, numbers something like 30 to 40 million.

The AK-47, depending on who you believe, numbers more than 40 million, and perhaps more than 100 million. (No wonder you can't turn over a rock without finding an AK buried under it.)

Mosin-Nagant? Easily more than 30 million.

The M16 lifetime production run is closing in on 20 million, and that doesn't include the AR-15.

Also: Lee-Enfield, FAL, G3, Arisakas and Garands ... all in the millions each.

not one that has been all that common, actually. The last of the John Browning designs, brought to fruition by Saive, suffered by comparison to the 1911. For a long time 9mm ammo wasn't a first choice, and the BHP was only a 9mm.

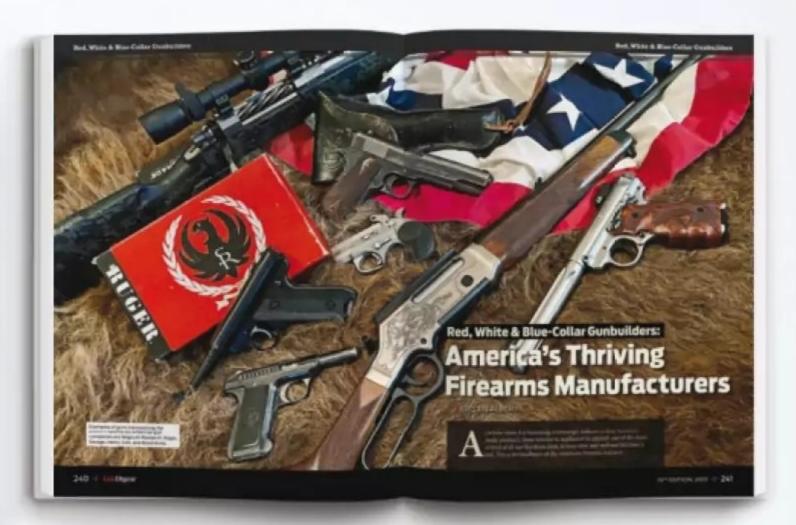
Estimates of production are all over the map: A million-plus by FN in Belgium. But then there were the Inglis pistols, and the Indian Army made truckloads of them. Now, the Turkish firearms makers are offering better-than-ever BHPs, with harder steel and tighter tolerances than the classic FNs. This one is in an in-between status. Classic like the Luger, but with increased production and interest, it could make the leap up to the big list with the others. **GDTM** 



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## CLOSE AND DESTROY



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arlier this year, *Gun Digest's* parent publisher Caribou Media, LLC released its debut foray into commercial fiction, penned by former staff editor Tom Marshall. Some of you may know his byline from his Vets Vices column in RECOIL, or from his time as editor of RECOIL OFFGRID, but he's also been harboring a lifelong passion for military thriller fiction that has manifested in his first full-length novel: *Close and Destroy*.

Close and Destroy follows the men and women of Windsor Kraft Strategies, a well-heeled private military company combating a thriving insurgency in the (mostly) fictitious failing nation state of Daristan. If the premise sounds ripped-from-the-headlines, that's because it's informed directly by Tom's own experience in Iraq and Afghanistan where he logged 14 separate deployments between the two theaters as both a U.S. Army officer and a private military contractor.

What follows are two separate excerpts from the novel, as well as photos depicting the realworld guns and gear featured throughout. Stay tuned for more detailed coverage of the topnotch kit shown here.



### **HILTON PIERCE**

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STRATEGIES

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AIRPORT

TARKENT, DARISTAN

1540 HOURS, LOCAL

Through the darkness, Hilton felt the afternoon sun against his face, bright and brutal. The sour, peaty stench of unwashed people— punctuated by the sweet chemical tinge of burnt explosives—filled the front of his skull. It wasn't until someone stepped on his ankle that his eyes snapped open in a bolt of pain. That's when he realized his ears were ringing—again—and the world was sideways. All he could see were smears of pasty gray muck and brown, sandal-clad feet.

Still in the fetal position, Hilton's hands clawed for the hem of his button-down, plaid shirt. In a motion rehearsed thousands of times over the last decade, his left hand hiked the shirt up as his right snatched a Staccato HD pistol out of the holster tucked into his jeans just behind the zipper. A chorus of screams and the intermittent popping of AK-47 fire overtook the ringing in his ears.

Holding the pistol tight to his chest, Hilton rolled to all fours, then reared back on his heels before clamoring to his feet in a low crouch. He craned his head to look over one shoulder. Behind him was the airport's pedestrian gate—an earthen wall interrupted by chain-link fence, shielded by a line of American paratroopers from the 82nd Airborne. A herd of Daristani civilians crashed against their riot line like waves on the shore. Already desperate to flee their collapsing country, the explosion in the crowd rocked them forward en masse against the group of young soldiers. On the walls above them, more paratroopers huddled behind their M4 carbines and M240 machine guns. Some fired short strings over top of the crowd while others swept their muzzles frantically back and forth, unable to shoot without killing innocents.

Hilton's head whipped forward, following the gunfire. At the back edge of the crowd was a shallow, scorched crater where the suicide bomber had detonated. A macabre confetti of blood and viscera scattered around the charred cement. Further back, across the street, a squad of black-clad insurgents with AKs fired wildly toward the gate.

Hilton pushed his way through the crowd, stepping over fallen bodies shot or trampled in the panic. Once he was on the edge of the chaos, Hilton leveled the Staccato, placing its red-dot sight over an insurgent fumbling to reload his AK. He let out a slow breath and pressed the trigger four times in a row. Just as the insurgent started to collapse, someone burst out of the crowd and grabbed Hilton's pistol, wrenching it out of his grip. As Hilton scrambled to put space between them, the man raised a large screwdriver, its slotted head sharpened to a crude point. Hilton shoved the man away from him and backpedaled, hands digging under his shirt once more. The man regained his balance and charged Hilton with the screwdriver, but Hilton's hand came back up with a double-edged Contingency dagger just as the two collided like linebackers. Hilton went down on

his back, and the insurgent plunged the screwdriver down into his chest. The point of the screwdriver skipped off the front plate of Hilton's body armor—hidden under his shirt—and sank an inch deep into the edge of his pectoral muscle.

Hilton rolled into the stab wound, then back the other way, burying his knife deep into the man's armpit in a backhanded stabbing motion. The angled point of Hilton's dagger severed the man's brachial artery. Hilton pulled the knife out and stabbed again, this time slamming his blade into the side of the man's neck. Instinctively, the man grabbed Hilton's forearm with both hands and pushed the blade out. A pulse of bright, red blood sprayed across Hilton's face as the man collapsed on top of him, gurgling and wheezing frantically as blood from the severed vessels poured into his lungs. Hilton bear-hugged the man and rolled them both over.

Now on top of his attacker, Hilton stabbed him directly through one eye, dropping his full bodyweight onto the pommel of the knife. The man let out a feral wet scream. Hilton heaved downward again, using his armor plate to hammer the knife through the man's orbital socket. The scream stopped short, like shutting off a light switch.

Hilton leaned back, placed a knee on the man's chest, and pried the knife free. He sheathed the blade on his belt and climbed off the corpse, scrabbling around on all fours to find his handgun as more bullets snapped overhead ...

### **JIMMY TOOMS**

CALLSIGN "JAMESON"

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WINDSOR KRAFT STRATEGIES

HAFIZA, DARISTAN (350KM WEST

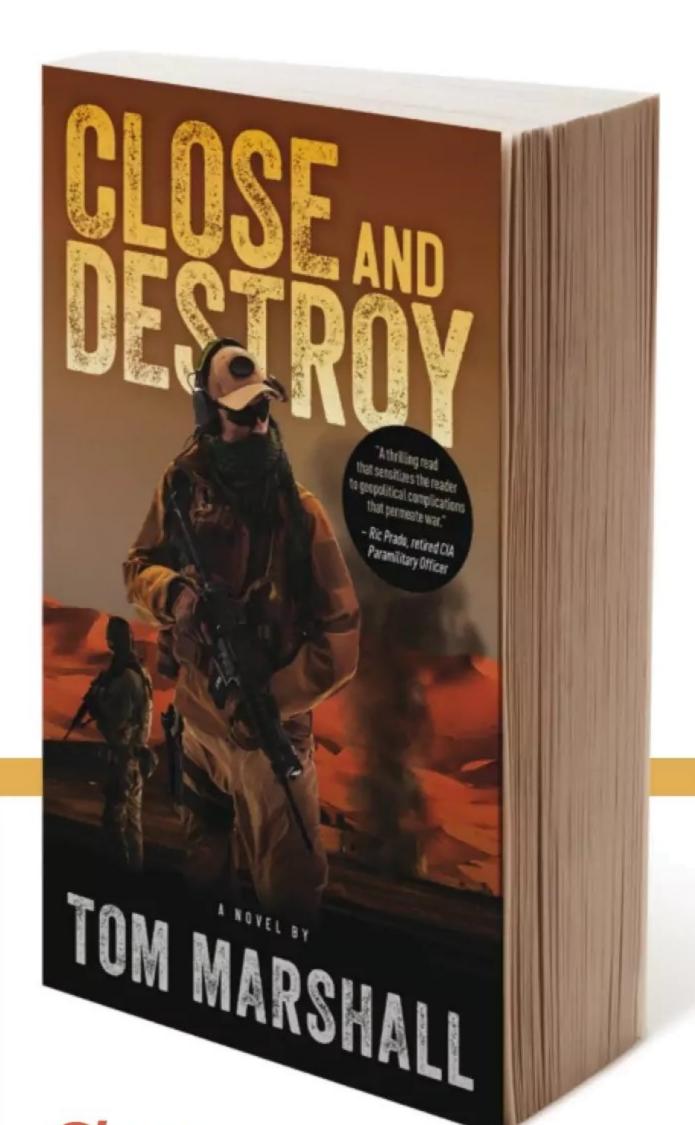
OF TARKENT)

0618 HOURS, LOCAL

Jimmy chugged half the lukewarm water bottle, then poured the rest over his head, blowing out a long breath as the water cascaded over his nose and mouth. Tossing the bottle into the dirt behind him, he picked up the garden hose draped over the Hilux's tailgate. He squeezed the pistol grip in a quick double-tap to test water pressure. Then, he put one foot on the truck's back tire and hoisted himself over the sidewall into the truck bed. He squatted down on his heels and started spraying.

Swirling eddies of water, the color and consistency of grapefruit juice, sluiced back and forth across the truck bed, and the tops of Jimmy's boots. He angled the hose nozzle, using water pressure to push bits of flesh and fragments of bone off the tailgate, onto the dirt behind the truck. Several skull fragments still had hair stuck to them.

Four dead, out of his 15-man team of Daristani commandos. The locals called them Owls, because they were cunning, moved quietly and hunted at night. Also, the night-vision goggles they wore gave them the appearance



### Close and Destroy

Close and Destroy is available on Gun Digest Store (GunDigestStore.com) in paperback, and Amazon in paperback and eBook, with Audible coming soon.



nine of his 15 had been shot over the course of the two-hour firefight with Al Badari's insurgents.

Jimmy shook his head, shrugging off the help. "I got it," he said.

One corner of Ben's mouth turned up. He understood the reluctance. But he persisted. "C'mon, Jameson. You don't clean up your own dead."

Jimmy turned back to the truck and started spraying again. Ben put a hand on his shoulder. Jimmy tensed for a moment but stopped spraying. He looked over his shoulder at Ben. "I don't need a hug, doc."

"Good, 'cause I'm out of those. What I do have is empty mags. You pull ammo out of the connex, I'll finish cleaning the trucks."

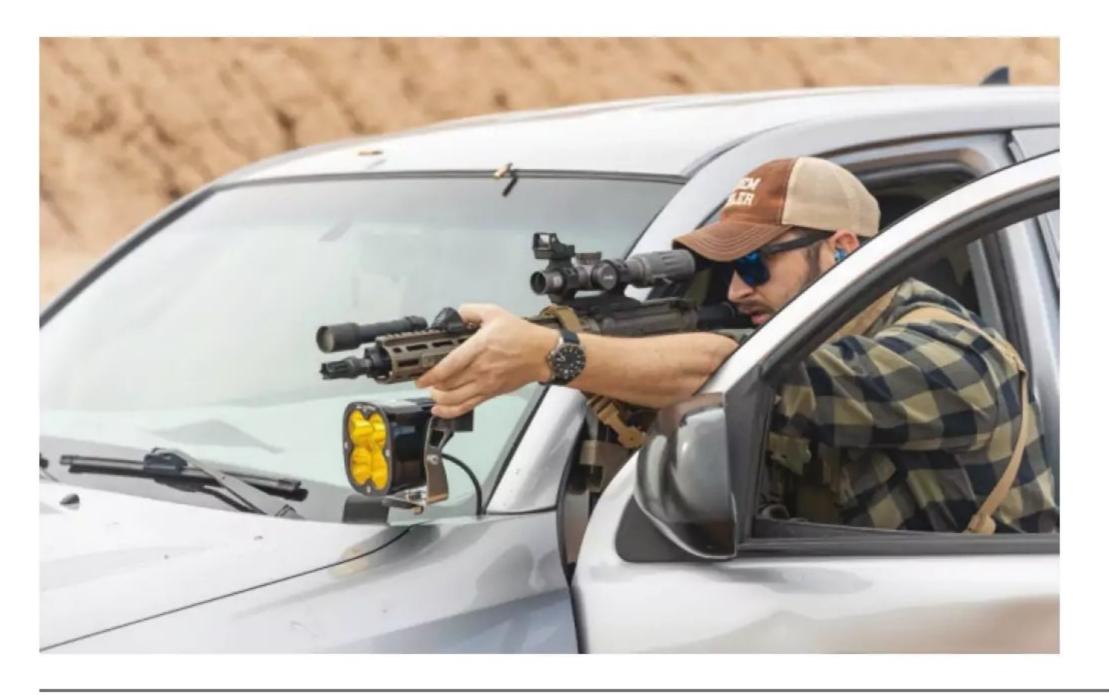
"I know what you're doing," Jimmy said.

"While you're at it, we need 40 mikemike, flash-bangs, and two thermite grenades. I tossed both of mine in the police station."

"On it," Jimmy said, holding out the hose. Ben took it, and Jimmy walked away to the half-dozen shipping containers full of ordnance a hundred meters behind them.

Al Badari's forces had overrun the Hafiza regional police precinct. Ben and Jimmy, with their Owl commando teams, had helped local police officers repel the initial assault. But Al Badari returned with a larger wave of attackers, this time using trucks, RPGs, recoilless rifles and one mortar. When it became clear they couldn't hold the ground, Ben set the precinct on fire with incendiary grenades and left the compound burning behind them as they broke contact.

When Jimmy was out of sight, Ben looked over the truck, front to back. Under the rear bumper was a mud puddle, mired with thick strings of red runoff and ivory-colored flecks. Ben clenched his teeth and punched the side of the Hilux hard enough to dent the door panel. After two deep, sucking breaths, he wiggled his fingers to check for broken bones. Then, he went back to spraying ... **GDTM** 



Close and Destroy
follows the men and
women of Windsor
Kraft Strategies, a wellheeled private military
company combating a
thriving insurgency in
the (mostly) fictitious
failing nation state of
Daristan.



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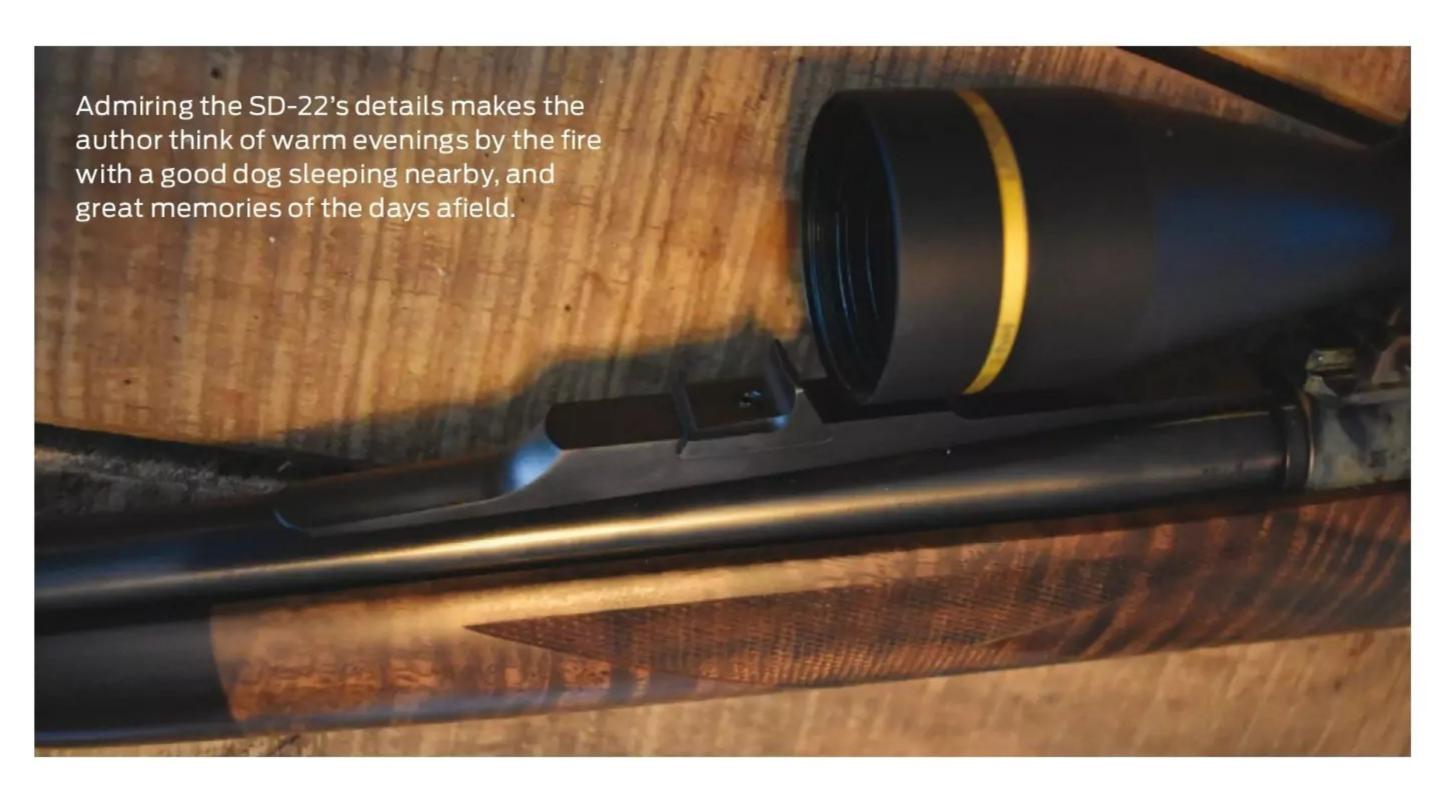
y buddy Frank writes with a Montblanc pen. I once asked him why. "First and foremost, I like nice things," he said, "Second, I do sales, and when you hand a client a nice pen to sign the contract with, it helps them feel good about the decision because the act of signing is made into a pleasure and a feeling of success."

There is no limit on who can enjoy luxury items. That's how I see Parkwest Arms and, in particular, the SD-22 we are looking at in this article. Parkwest's guns delight the senses. When the new owners started up the company, they hired as many of the experienced craftsmen as they could from the old Dakota Arms. They have since added even more talented people to their team who have the specialized skills to build heirloom-quality guns.

I think most people can sense the value and quality of any product the minute they handle it for the first time. Certainly, when you handle a nice gun, there are things that jump out at you. Beauty tops my list, then the sounds emanating from the gun when you work its solid action. Custom guns should have clean, crisp lines, pleasing to the eye and hand. These are unlike off-the-shelf guns that must be built with an eye toward minimizing costs. There is nothing wrong with that, it is simply a function of the marketplace that some products must be utilitarian. At the same time, the market demands products for the luxury segment.

If the quality of a firearm alone caused small game to drop dead, the SD-22 would be illegal in all 50 States. This rimfire model was new in 2024. Parkwest treats it with all the love, attention to detail, and care that goes into any of its custom hand-built big game rifles.

Steve Rabakoff, one of the owners at Parkwest, tells me that this model is selling even better than they had hoped. It turns out that gun-lovers like to shoot a lot, and this little 22 LR gives them a premium gun that they can shoot everyday if they desire. Ammo



is relatively cheap and available, as opposed to some centerfire ammunition. Plus, it's quiet, easy to share with the kids or grandkids, and has no recoil. I love the idea of introducing the next generation to the sport with a classic rifle design.

Rabakoff wanted me to see one of the new rimfire rifles they were releasing. He was clearly enthused by this project, not just because it's his company, but because they are offering something unique. The SD-22 is not your grandpa's .22; unless grandpa had a professional gunmaker for a buddy and got him to build a rifle to match his favorite hunting rifle. We are talking about an adult-sized gun, weighing 7.5 pounds, 41 inches in overall length, with a 23-inch barrel standard.

An alternative is to switch from a wood stock to synthetic, this drops about one pound from the rifle's weight. If you are getting ready for a sheep hunt and want a training rifle, this lighter version could be your ticket. Personally, I will not be doing any mountain climbing, so I prefer the beauty of a wood stock.

My grumpy old gunsmith friend Mike Harmon saw this rifle when it came out of the case, and said, "I want to shoot that!" Gunsmiths are notorious for being jaded. They get to handle a wide variety of guns while they ply their trade. So, when gunsmiths get excited about a gun, you know it is something special.

Grumpy and I are both suckers for

a nice piece of walnut, and the SD-22 that I received for testing played directly to our weakness—beautiful contrasting colors and copious fiddle-back figure. The hand-rubbed oil finish enhanced the figure nicely, giving it the depth it deserves. We stepped out into the sunlight to get the full effect. The light reflecting from the wood provides quite a show, giving the stock depth and character. There is a warmth to wood that no synthetic stock can ever provide (sorry, you will never change my mind). This was a gun I knew would be a pleasure to take to the range or the field.

Not all that far in the past, we shooters were all hoarding 22 LR ammunition. At least one good thing came about from that shortage: I now have a broad collection of different brands of .22 LR. Where I live in Northwest Montana, ammunition availability during the shortage was totally random. As a result, I have a little bit of many different brands in my reserves. I went to the cupboard and pulled out a selection of ammo for our accuracy tests.

With my arbitrary collection of ammo, it was off to the range to see what this fine rifle was capable of. I'm lucky to have an indoor range in my locale, membership gets you a security code and 24-hour a day shooting privileges. Uniform temperatures and an utter lack of wind make shooting for accuracy a much easier process. I set up on the 50-foot range to do my testing. Each group shown here is five shots.

First, I loaded the magazine with

five rounds and shot a group just to see where the scope was hitting and to foul the barrel. With that warm-up group out of the way, I set about collecting groups for the assorted ammunition that I had brought to the bench. All brands produced good minute-ofsquirrel accuracy, some much better. The Winchester Wildcat ammo has a 40-grain lead round-nose bullet. The Standard velocity I had is some old "white box" Olin/Winchester and for all the world looks like the same bullet that was loaded in the Wildcat ammo. CCI Mini-Mags use a 36-grain hollow-point with a copper wash.

Parkwest shipped the rifle to me with a Leupold VX Freedom 3-9x40 Rimfire MOA mounted and bore-sighted—an excellent choice for a gun that is intended to have the profile of an American classic hunting rifle. It provided plenty of magnification for a .22 and the glass was clear as you would expect from Leupold. Of course, Parkwest will help you with any optic you prefer on your rifle.

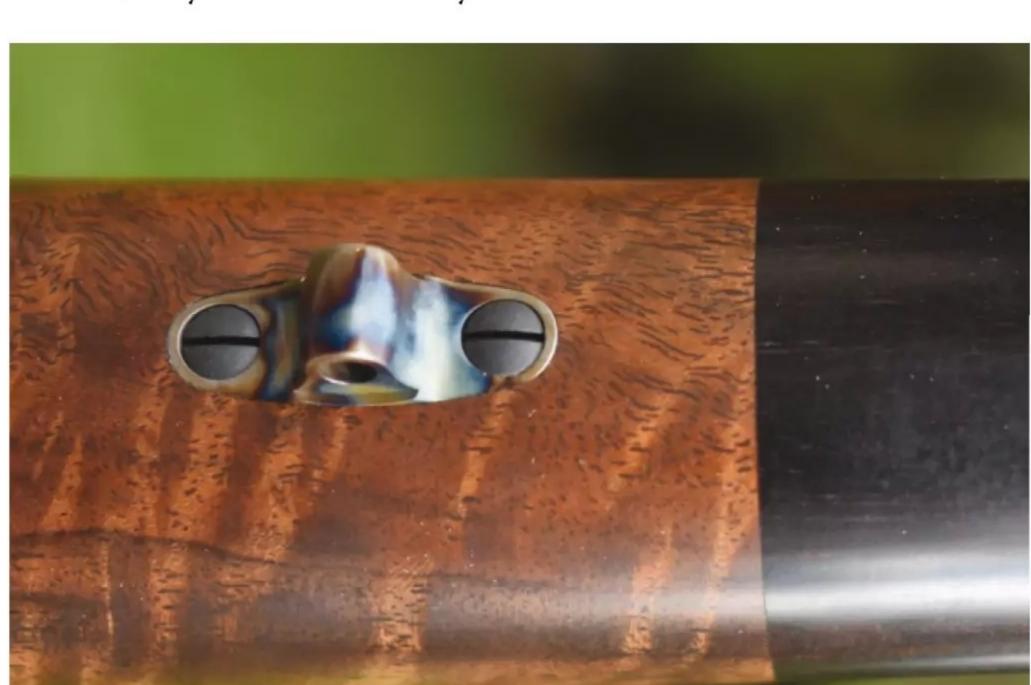
The Armscor ammo was a 36-grain hollow-point coated bullet. Aguila is loaded with a 40-grain round-nose copper-plated projectile. Finally, the Federal Champion bulk ammo bullet was a 36-grain hollow-point, copper-plated. To be fair, the flyer from the Federal ammo could easily have been a result of switching ammo without a fouling shot, as it was the first shot fired with that load. Or it could be old eyes. Either way, the squirrel would still be dead.

### IMPRESSIONS FROM THE RANGE

A pleasant surprise, it was better than expected; yes, I am gushing. Fun, enjoyable and satisfying. I have shot an untold number of rimfire rifles over the years. I couldn't even guess at how much .22 ammo I have burned over the decades. This rifle ranks as one of the most accurate sporting .22s I have ever shot. More than that, it was special, and memorable; I don't say that sort of thing about guns very often.

Hand checkering on the stock is

clean and sharp with two panels on the grip and a wraparound pattern on the forend. The wood color and figure shows through the checkering so that the checkering only adds to the rifle's attractive look—as well-executed checkering should do. In addition, the bolt handle had a nice three-panel metal checkering to match the stock, and yes, there are other options for the bolt handle, so you can make it your own.



Howell-style sling swivels and a contrasting tip are two options you can choose on Parkwest's SD-22 rimfire.

Parkwest lists the chamber for the

SD-22 as a Bentz, this is typically a pop-

ular match chamber for semi-auto guns.

Over time, it has become popular in

falls between the SAAMI Match and

other guns as well. The Bentz chamber

SAAMI Sporting chambers for .22 LR.

I suspect that Parkwest selected it be-

cause it is more versatile than a match

chamber and will work with a broader

selection of ammo. Match chambers



Several of the custom touches include a steel buttplate, skeleton grip cap, Howell swivels, and the cheekpiece and checkering.



Note the nicely executed skeleton buttplate with a widow's peak. It looks like the wood grew around it.



are shorter than the average sporting chamber for .22 LR, but the Bentz chamber features a long-tapered throat compared to most rimfire ones. This chamber is well known for producing excellent accuracy with a wide range of ammunition brands and types. Obviously, Parkwest made a good choice based on our results.

The SD-22 comes with a ½-MOA guarantee for accuracy and is delivered

with a target from the factory. Clearly, all my groups met that standard, some by a large margin. Several of my groups were just over 0.250 inch or 50 percent better than promised. I'm betting there is an even better ammo out there; I just ran out of time at the range.

Actions for the SD-22 are available for right- or left-handed shooters. Standard in chromoly (blue) steel, each rifle is supplied with two five-round

Armscorp Aguila Federal Bulk

Parkwest SD-22, 50 faot indopr, 9-20-24

Winchester

Wildcat

Winchester CCI Mini Mag

Standard Vel.

Parkwest SD-22, 50 foot

magazines. That second magazine is a nice thing to have with any gun. For reliable feeding and ejection, the bolt is designed with dual extractors. The gun fed flawlessly with all the ammo we tried. The standard rifle comes with a XXX Claro walnut stock, solid steel grip cap, and ½-inch recoil pad to add to the classic look of the rifle.

Avid shooters will tell you that much of the accuracy potential in a rifle comes from a quality trigger, so Parkwest added a TriggerTech adjustable trigger standard, as well. I appreciated the fine single-stage trigger on the test gun set to about 2 pounds. The release was crisp and repeatable with no perceptible creep.

That seems like an extensive list of features, and it is. Still, Parkwest offers a long list of custom options so you can have exactly what you desire. It's not likely you will ever see two SD-22 rifles that look alike, unless of course you ordered them to match.

The rifle I tested had many optional features and did a great job of showing off what the experts at Parkwest Arms are capable of. The metal is all hand polished, the standard model is blued, but can be ordered in numerous finish types, including Cerakote or slow rust blue. Note that our test gun had a color-cased receiver and scope mounts

The SD-22 offers the same silhouette as the SD-76 centerfire rifles, so you can practice like you play. Color casehardening is a classy touch.



along with premium polished bluing on the rest of the gun. The color case is well done; preparation is the key when performing color casehardening. The degree of polish applied to the metal can greatly enhance the resulting colors from the process. The iron sights on my test gun were also upgraded. The rear sight was mounted on a quarter-rib and a banded front sight completed the set. "Practice like you play." If I was getting ready for a plains game hunt, practicing with the same sights on my .22

The banded ramp front sight matches up with the express rear sight mounted on a quarter rib.



would not be a bad thing.

Parkwest Arms offers you a particular touch that only a true custom gunmaker can offer, a personalized serial number to make your rifle fully unique. FDZ are my initials; I am thinking of ordering "Fudzy" as my serial number, it's a nickname of sorts. That way I can tell my grandson, "Shhh, be werwy, werwy quiet, we are hunting wabbits." It would be worth it just to see the eye roll.

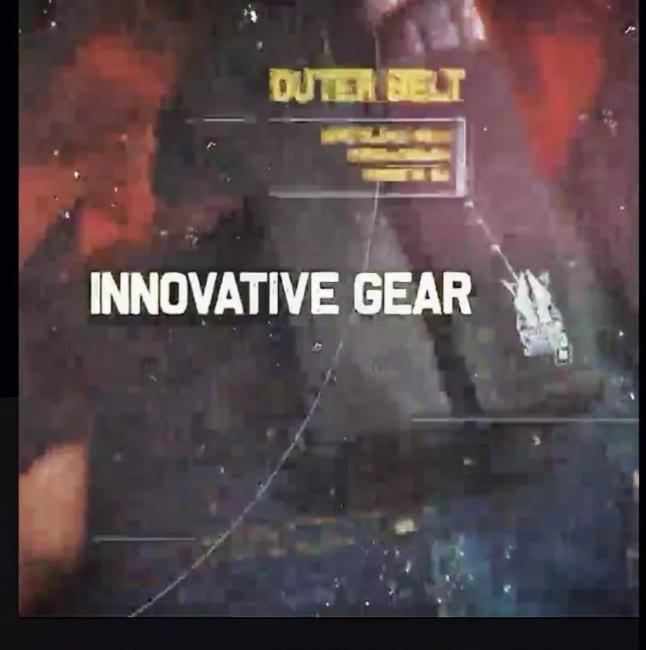
On its website, Parkwest has a build-your-own-rifle feature that allows you to stroll through all the options. Items you can customize include the wood grade, contrasting forend tip, checkering, different types of sling swivels, or cross bolts. We are not done yet; recoil pads, buttplates (solid or skeleton), tip and toe plates, and just as many choices for grip caps. On top of that, you can add engraving, as simple or extensive as you like. In short, you can make it a dream rifle with the features that you want.

Why?

If you must ask ... I guess I did a poor job of explaining what the experience of handling a well-executed product like the SD-22 is really like. To be as direct as possible, it is a beautiful handmade rifle of the highest quality, and completely tailored to your personal taste. So, why not? **GDTM** 













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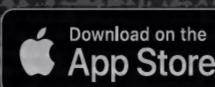


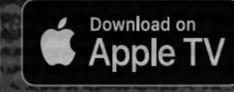


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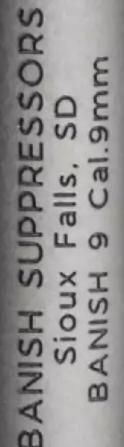
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