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# Gun Digest

WE KNOW GUNS SO YOU KNOW GUNS THE MAGAZINE

NOVEMBER 2020  
VOLUME 37 • ISSUE 14

## LIGHT 'EM UP!

PLUS

BEST DEAL IN RIMFIRE: CZ 457

BEHIND THE BRAND: SKINNER SIGHTS

REVIEW: SHIELD SMS MICRO RED DOT

TESTED: REAL AVID AMP GUN TOOLS

RELOADING: WHEN TO SAY WHEN

KNOW YOUR CARTRIDGE: THE 7-30 WATERS

TRIJICON RMR REVIEW: PISTOLS TO BIG BORES

A Guide to Defensive Lights: Pistol, Rifle, Shotgun & Handheld

10 TOP RIFLESCOPES

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“Well, you can try, but it’s a shot in the dark.” You’ve undoubtedly heard that saying before, and you’ve likely even used it a time or two. I know I have. In fact, my buddies overused it during our college years while seeking out members of the fairer gender. In most cases, they were right.

But in the literal sense, taking a shot in the dark is wrong on so many levels that I don’t hardly know where to begin. In addition to that, it’s a terrible defensive strategy.

So, with a motherload of statistics to prove that most violent encounters happen in the dark (or, just watch the news ... all the really bad stuff takes place at night), what’s your plan? The invention of night sights on defensive pistols was a huge step forward, but those only help you identify the sights—not the threat. And have you actually taken the time to practice shooting in the dark? The muzzle flash from that first round going off changes *everything*.

Luckily for those of us dedicated to protecting ourselves with a firearm, the lighting options designed for aiding such a situation are as countless these days as the various makes and models of polymer pistols available.

This issue is largely dedicated to the accoutrements and tactics to help you better defend yourself in low-light

situations. Sure, there’s a bunch of other reviews and such (just as there always is), but take a close look at the guide to handheld and weapon-mounted lights, beginning on page 24. That covers pistols, rifles and defensive shotguns. In a similar vein, gun expert Patrick Sweeney covers how best to use a weapon-mounted laser to your advantage. That piece starts on page 46.

If you’re Jonesing for new glass, page 40 begins a six-page feature dedicated to 10 exceptional rimfire scopes—several of which will fit perfectly on nearly any rifle, not just the rimfires. Or, for something a bit different, regular contributor Richard Mann set out on a mission to find three guns, in various platforms, that would all shoot one cartridge. It’s a unique concept for everything from self-defense to survival. Those three amigos are hiding on page 32.

So, I won’t say that carrying a light—either handheld or weapon-mounted—is as important as your gun, but I will say that it’s as important as your backup magazine. Without a light, you might have no other option than to take a shot in the dark ... and that’s *not* an option.

**GDTM**

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# 7-30 WATERS

The .30-30 Winchester's little brother.



## HISTORICAL NOTES

The 7-30 Waters was introduced in 1984 for the U.S. Repeating Arms Model 94XTR Angle Eject rifle and carbine. The cartridge was the work of Ken Waters, a well-known gun writer and ballistics expert. He began planning the cartridge in 1976 as a high-velocity, flat-trajectory round for short, handy, lever-action carbines.

There are many problems to be overcome by those who'd improve on the performance of the .30-30 cartridge class in lever-action rifles. Severe restrictions are imposed by tubular magazines, the length of the action and permissible working

pressures. However, by 1982, Waters had developed a cartridge that'd push the 139-grain 7mm bullet at 2,600 fps.

At this point, U.S. Repeating Arms Co. became interested in the project and decided in 1983 to produce Model 94 lever-action rifles in this new cartridge. Federal Cartridge Co. then completed the final version of the cartridge by making various dimensional changes and opting for a lighter 120-grain bullet to achieve higher velocity at less pressure. The current commercial loading uses a 120-grain Nosler Partition bullet that develops a muzzle velocity of 2,700

fps when fired from a 24-inch barrel.

## GENERAL COMMENTS

The 7-30 Waters does offer improved performance for those who like lever-action carbines or rifles. This should make a good deer- and black bear-class cartridge. However, the majority of .30-30 lever-action shooters prefer the short carbine, since most are woods hunters. The 7-30, with its light 120-grain bullet, is unlikely to best the .30-30, .32 Special, .38-55, etc., with shots at close range.

Also, it's not going to be the answer for the long-range plains or mountain hunter. When fired from a 20-inch barrel, its performance is considerably reduced. So, anyone interested in this cartridge will be better served if they buy the rifle rather than the carbine. The light recoil of this cartridge makes it an excellent choice for anyone sensitive to recoil. The 7-30 is at its best in broken country, with shots varying from patches of brush and trees to open areas, with shots ranging from 75 to 175 yards. **GDTM**

## 7-30 WATERS LOADING DATA AND FACTORY BALLISTICS

BULLET	POWDER	GRAINS	VELOCITY	ENERGY	SOURCE
120 NOSLER FP PART.	H414	42.0	2,757	2,025	HODGDON
120 SP	H335	28.5	2,500	1,666	NOSLER
130 SP	H335	33	2,600	1,952	SPEER
139 HORNADY FP	RL-15	34.7	2,540	1,990	HODGDON
140 SP	W748	35	2,500	1,943	HORNADY
140 SP	H335	34	2,600	2,102	HORNADY
145 SP	748	34	2,400	1,855	SPEER
154 HORNADY NR	H414	37.0	2,347	1,835	HODGDON
120 JSP GAMEKING	FL	-	2,700	1,942	FEDERAL P730A



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# A DREAMER WITH GRIT

A behind-the-post view into Skinner Sights.

**T**he finest man I've ever met makes peep sights, and his name is Andy Larsson. How good of a man is Larsson? He makes arguably the finest peep sights in the world; yet, more often than not, it's for life advice that I call him.

What's a man's character have to do with making peep sights? If you want the very best sights, you need them to be made by a man who can see himself, you and your targets clearly. Mental clarity has and always will be more critical to good marksmanship than how well you can run a lathe.

"I've always been an outdoors person, hunter, shooter and reloader ... almost from birth," Larsson says. "During high school, I had access to a lathe, mill, shaper and welding equipment, and I applied the training to gunsmithing immediately by re-barreling rifles and pistols in school shop class. During college, I worked at a sporting goods store as the 'in-house' gunsmith. After college, I continued gunsmithing as a hobby while serving as a Christian minister. I also opened, owned and operated an archery shop for a few years."

As Larsson grew more experienced with firearms and life, he adjusted his sights on some new goals.

"I first worked for Buffalo Bore Ammunition, then had a chance to purchase Skinner Sights from my friend



Skinner Sights also makes a 1-6x24mm optic, which is a great tool for turkey hunters.

of 30 years, Dr. Tim Skinner,” Larsson says. “I bought the business in August of 2010 and never looked back.”

Larsson’s purchase of Skinner Sights wasn’t an impulse. Skinner and Larsson had known each other for years because of the work Larsson did for him. Skinner certainly saw what Skinner Sights could be now because of who Larsson was then.

### **FORGING THE BUSINESS**

As any successful entrepreneur will tell you, talent alone isn’t enough to win: It takes an enormous amount of hard work as well.

“My goal at first was just to make the first payment to Dr. Skinner,” Larsson says. “The next level was a desire to grow the six basic products he had been

offering and expand our line of proven, durable, aesthetically pleasing, rugged and accurate sights. I was a one-person band, doing all the marketing, machining, assembly, packaging and shipping. It was a quick learning curve, and by January 2011, I hired two employees.”

As much of a realist as any straight-shooting man ought to be, Larsson was a dreamer. He’s just a dreamer who has enough grit to make his come true.

“I’m passionate about bringing new products to the market,” Larsson says. “It’s very satisfying to have an idea, lay awake at night figuring out the details on how to hold the part, cut the part, finish and apply the results in a way that will help shooters. To see that come to fruition when the first orders come in is very motivating.”

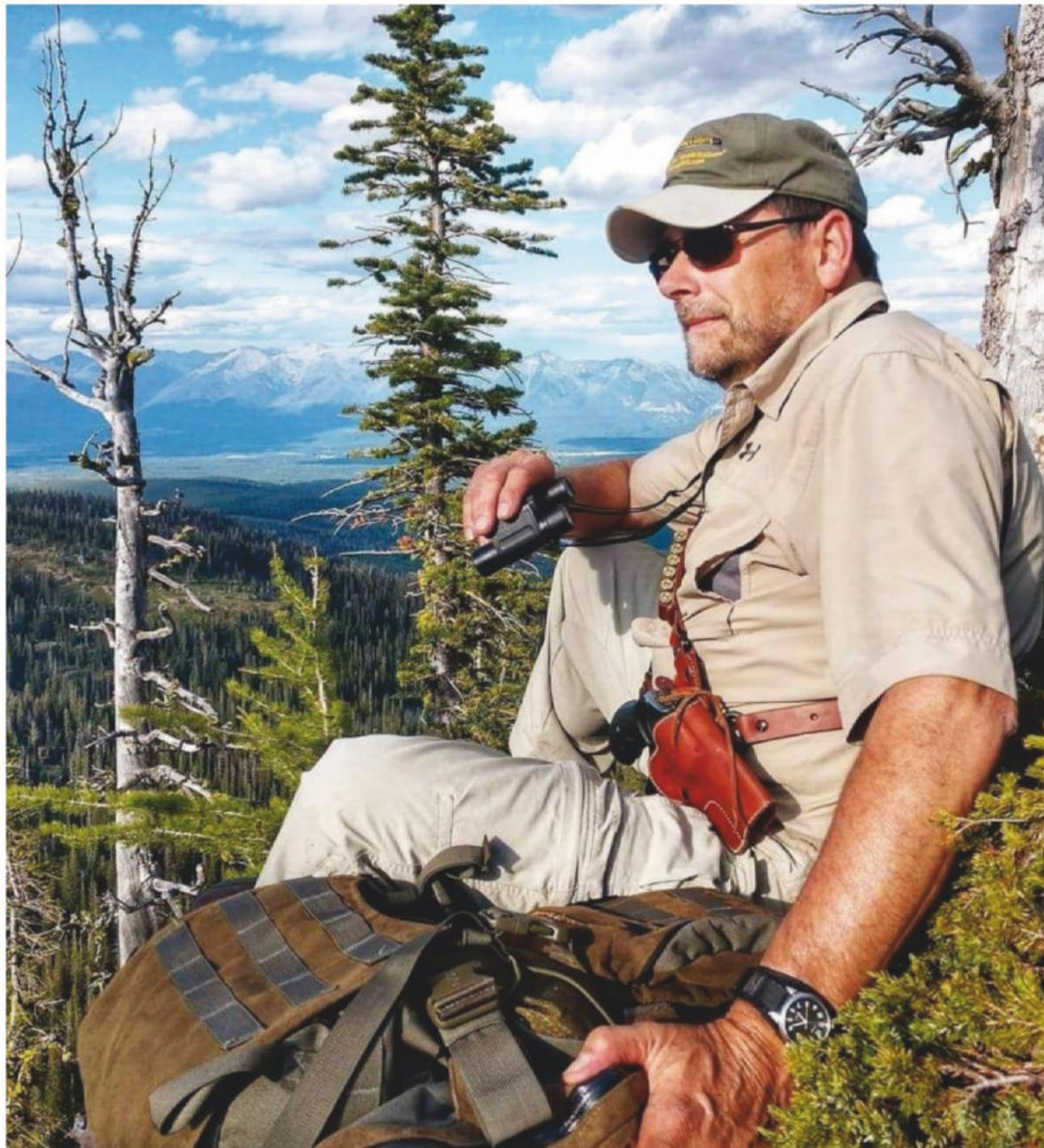
Larsson’s mechanical aptitude was machine-matched to a work ethic and moral values with very high expectations.

“My core value is first to follow the golden rule,” Larsson says. “We treat our customers the way we want to be treated. Customer service is paramount. Don’t sell gimmicks. Never steal anything from another company. Be honorable. Always leave something on the table. A business will reap what you sow. Appreciate your customers and listen to them. Don’t borrow against the company. Make it profitable. Invest in people and infrastructure. Bring everyone forward with you that you can. Help others. Be loyal to those who have been loyal to you.”

A good idea matched with a great

Andy Larsson creates sights for hunters that work because he does most of his product development where hunters are—in the woods. A constant tinkerer, Larsson often solves big problems with small solutions because of his ability to see the needs of the shooter so clearly.

Larsson has grown Skinner Sights into a brand trusted by the world’s best firearms manufacturers, such as Marlin and Henry.





Larsson is a deep, devoted family man and is rarely found far away from Sheila, his wife, who has grown into a successful world-class hunter herself.

of real users, gun writers and shooters around the world was important," added Larsson. "I love people, especially shooters and hunters, so we quickly developed lasting relationships in the firearm industry. These folks are now our family."

#### WHAT'S A SKINNER?

So, what exactly are Skinner Sights? According to Larsson, his sights are machined from solid steel, stainless steel or brass bar stock. "No aluminum, except on our Picatinny rail products," Larsson proudly said. "A Skinner Sight looks like it grew on your rifle. It is designed to enhance your firearm's beauty, be rugged as the gun itself, accurate, reliable and comes with a lifetime warranty. We use our products daily in the field and on the range. Our customer service is among the best in the industry. Our goal is your success. These are products I've developed based on a lifetime spent in the outdoors and shooting world. I stake my life on them, and so can you."

Larsson's plan, ethics, skill and vision have rewarded his customers and his employees and family as well. Skinner Sights has grown significantly since 2010, with some of Larsson's most authentic validation to his business acu-

work ethic still isn't enough to succeed in today's ultra-competitive outdoor industry marketplace. Larsson also needed to know how to market Skinner Sights—and he did just that.

"Everything now has our name on it," Larsson says. "Dr. Skinner had not been marking any of his products. After registering the name, Skinner's exclusive use in the firearms market, I bought a small Pantograph engraver and put Skinner on everything I built."

Larsson knew then what his goals would be. "I want the brand Skinner to continue to be relevant in the market, appearing on other manufacturers' OEM products, and branch out to other outdoor products. I'm working on some products for ORV machines,

the fishing/boating industry and perhaps something for the adult air gun market."

Once the Skinner Sights name was known, he added value to the brand's identity.

"Whenever responding to a customer, I would link our website," Larsson says. "Using online blogging and forums, we got the name out there. I'm very visual, so photos were included everywhere. Our unique shape and design stand out. In late 2010, I introduced the Black Gold line, and they were an instant hit. Today, more than half our sales include the Black Gold option, and we incorporate the colors into our logos and advertising.

"Getting our sights into the hands

Skinner Sights' 1895/336 7-inch rail.



Skinner Sights makes a variety of systems for many different manufacturers.



men coming by word of mouth.

“We just celebrated our 10th anniversary and still love our association with the industry, the friends we have made here, and bringing my ideas and dreams to the market to help other shooters and companies be successful.”

What’s one of Larsson’s main battle cries as a business owner?

“Never get in too deep that you can’t keep your head up,” Larsson explains. “I work with manufacturers I trust. I’m also very trusting until we have been given reason to do otherwise. Remember, we reap what we sow. If a company is shady in their business deals, steals product ideas or sells you out for their profits, it will come back to bite them later.”

The most telling thing about Larsson was revealed when I asked him who his best and most influential mentors in hunting, shooting and business are:

“My father, who introduced me to the love of shooting, hunting and reloading,” Larsson says. “My boss during college days: He trusted me with his customers. Various friends who share outdoor passions. Tim Sundles from Buffalo Bore Ammo has been an employer, friend, mentor and encourager.

“Dr. Skinner for his trust, innovation and vision,” Larsson added. “Coni and

Need to front mount something on a Ruger Mini14? Skinner Sights has you covered.



Randy Brooks, who built Barnes Bullets into an amazing, world-recognized, standard-setting business. Their ethics, inspiration and innovation witness what can be done with the right business model. Coni also inspired Sheila to engage fully in the outdoors and the firearm industry.

“Anthony Imperato (and crew) of Henry Repeating arms reached out to us early on, trusted us to develop some sight solutions for Henry Rifles, set a standard in customer service, generosity and made-in-USA loyalty. Eric Lundgren of Remington/Marlin is innovative, level-headed and communicates clearly how Skinner Sights can help their product line. My staff and employees: They are the backbone of

production, and customer fulfillment and service. My crew helps the business grow every day. And my wife, Sheila: Every day we wake up ready to embrace whatever adventure awaits. My respect for and relationship with Sheila inspires me to do better, reach higher and be successful.”

Skinner Sights continues to hit where it’s aiming, both with its customers and its future. We continue to grow.

“I have some cool new ideas to bring forward this fall, and we continue to stay relevant in the marketplace without chasing the current ‘fads,’” said Larsson. “We’re not just another company with a CNC machine and a can of spray paint. Our products and designs should endure the tests of time.” **GDTM**

# SOMETHING'S MISSING



## The Hellcat, and something maybe even better.

**N**o doubt you've seen articles or videos, or at least heard conversations at your local firearms emporium, about the Springfield Hellcat. If, by some inexplicable reason, this

is your first-ever gun magazine, or if you've been living the bunker life trying to hide from the election flu or rioters, here's a brief recap.

The Springfield Hellcat is an ultra-compact, polymer-framed, semi-auto-

matic pistol that's only 6 inches long and weighs only 18 ounces. It comes with one 11-round magazine and one extended 13-round magazine. It also has a Tritium front sight and a tactical Rack U-Notch rear sight. Depending on the variation, the suggested retail price ranges from \$569 to \$643.

I've spent a couple months working with this pistol and, after more than 500 rounds, I'm impressed. For an ultra-compact 9mm, it's reasonably comfortable to shoot, plenty accurate for any type of problem you'd ever need to solve with a defensive handgun, and it has proven very reliable. One of the pistol's most notable features is that it can be had as an optics-ready version, where the rear slide is precut to accept a micro reflex sight.

So there, I've given my thumbs up to the Hellcat. In fact, a friend of mine



This Crucible Concealment holster for the Springfield Hellcat fits the pistol even with the Shield SMSc reflex sight installed. Paired together, the three make a great IWB concealed carry package.

A compact handgun like the Hellcat deserves a compact reflex sight, and you won't find one smaller or lighter than the Shield SMSc.

Reflex sights are becoming popular on defensive handguns. They're also getting lighter and more trustworthy all the time.



was looking for a compact defensive handgun, and, after some discussion and range time with the Hellcat, it's the handgun I recommended he purchase. However, as much as I like the Hellcat, it was during my time working with that pistol that I found something I liked even better: the Shield SMSc Micro Red Dot 4 MOA sight.

### SEEING RED

You can purchase this sight, which attaches directly to the slide of the Hellcat after the plate has been removed, from Springfield for \$299. It's unbelievably small and weighs less than a half-ounce with the battery installed. And, unlike some of the mini-reflex sights, the SMSc doesn't have a base plate to hold the battery in place.

The top of the slide serves as the base for the sight. This allows the sight to be mounted very low—low enough that you can still see the pistol's sights through the sight window. This is an exceptional idea: In case the battery is dead or the electronics fail, you can still effectively engage targets. But get this: This sight has a battery life of between three and four years!

We've come a tremendously long way from when the first red-dot sights were used on handguns for competition. In fact, while some thought that one day red-dot or reflex sights would be common on defensive handguns, I seriously doubt anyone imagined they'd be this compact. With an IWB holster like the Crucial Concealment Covert IWB (\$59.99), you can very comfortably carry the Hellcat with the SMSc installed, even in the appendix location.

In my 2013 book *Handgun Training for Personal Protection*, I dedicated a chapter to red-dot-style sights. There, I described their primary advantage—you can engage targets with a target/threat focus. What's meant by that is that you never have to shift your focus from the threat to your sights; you simply put the dot on the target and pull the trigger, just as you would with a red-dot sight on a carbine. It's the most intuitive sight system available. With not a tremendous amount of practice, I've seen shooters reduce engagement times by as much as 10 percent compared to conventional sights. That is, indeed, something of value.



### HILLBILLY WISDOM

Never pull a string on your favorite shirt or a hair on an unfamiliar dog's tail; both can lead to a situation that unravels quickly.

Like laser sights, reflex sights also allow you to keep both eyes open when you shoot. This helps your peripheral vision keep track of things going on around you. However, unlike a laser sight, to accurately shoot a reflex sight you must still bring the pistol—and the sight—up in front of your eyes. The downside of reflex sight systems is that they're an electrical system that might fail. At least with the SMSc on the Hellcat, if it does fail you can still see your pistol sights.

Obviously, there are some other considerations with a reflex sight. Light directed at the sight from the front or rear can inhibit your ability to see through the sight window clearly. Your own blood, dirt, or other debris can also get on the lens and do the same thing. Still, like I said in my book, "The future is coming. When it gets here, we will all shoot better and faster." With advancements in engineering, we're getting closer to that—reflex sights on handguns—future every day. **GDTM**





# MULTI-NEED, MEET MULTIUSE

## Real Avid AMP Gun Tools.

**T**he world was clearer in the past. You were a Windows user or a Mac user. Your pickup was a Ford, Chevy or Dodge. Coffee came black, or with cream and sugar. Now? PC, laptop, tablet, phone. Windows, Mac, Android, U.S. or import. And coffee? Don't get me started. Gun choices and the tools for them have undergone a similar process.

OK, you need to scrape some carbon off of your AR-15. And you need to cut some 550 cord to fit your sling. Or you need to check the tightness of the laser or your trigger settings on your striker-fired pistol. You're a 1911 user (good choice), and you need to take it apart to clean it. You grumble because the pistolsmith who fitted it made the bushing a bit tight, and you need some help. You have a toolbox full of the gun tools you've accumulated through the years, for all the various systems you own. As you paw through them, looking for just the right



#### AMP 1911

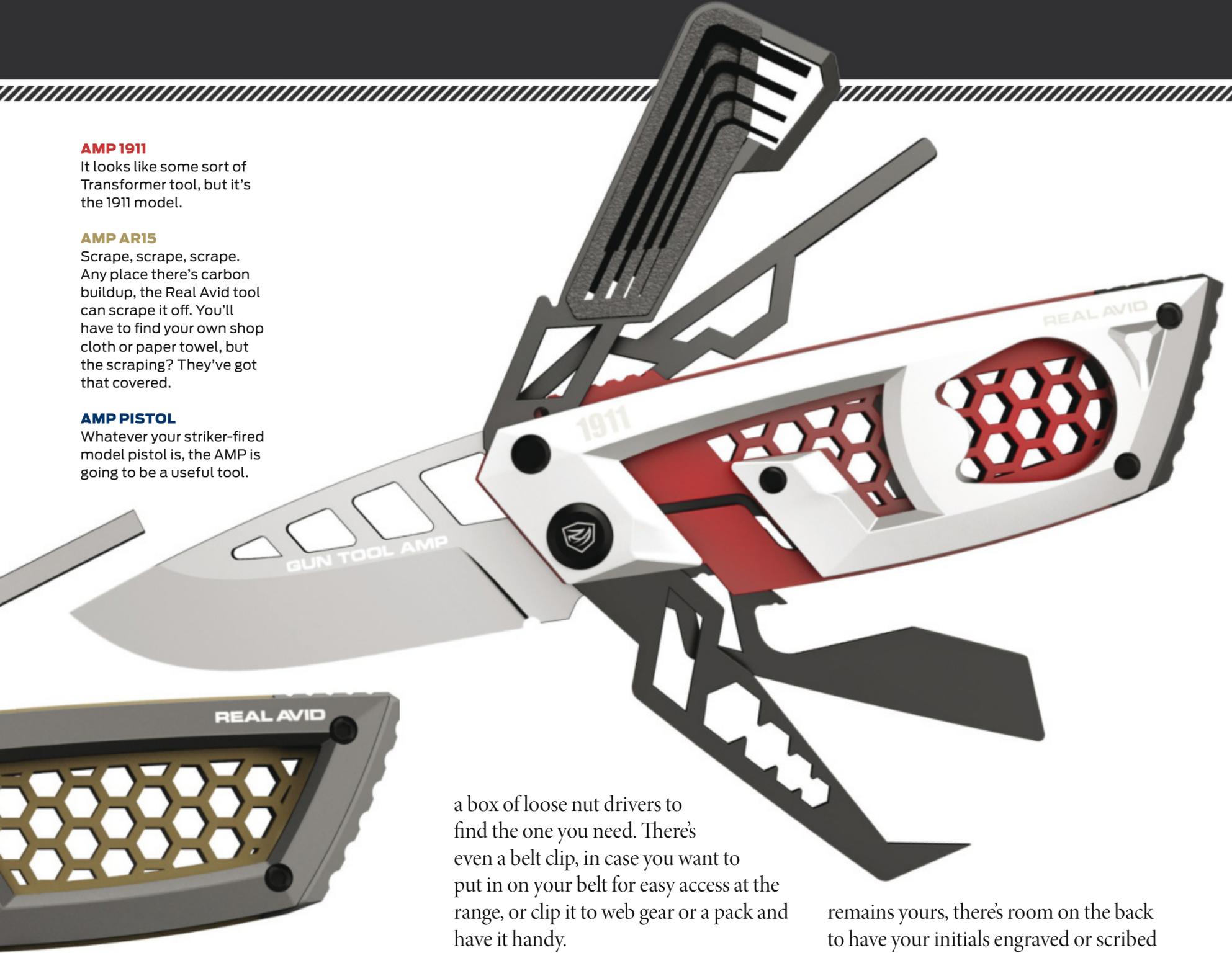
It looks like some sort of Transformer tool, but it's the 1911 model.

#### AMP AR15

Scrape, scrape, scrape. Any place there's carbon buildup, the Real Avid tool can scrape it off. You'll have to find your own shop cloth or paper towel, but the scraping? They've got that covered.

#### AMP PISTOL

Whatever your striker-fired model pistol is, the AMP is going to be a useful tool.



one, you think *I gotta get this organized ... someday.*

I'd like to say, "one tool to rule them all," but you have to settle for three. Still, one

with each system isn't a burden, because they're Real Avid Gun Tool AMP tools: AR15, Pistol and 1911.

Each has a blade, because, well, you just need to have a blade with you at all times except when discussing the weather with TSA. The AR tool has all the scrapers you need to keep things clean. The striker pistol and 1911 have the adjustment tools to make sure the small parts are tight, and disassembly tools to take them apart for cleaning.

And they all fold up into a compact package that fits into the provided carry case. Each one has a tool driver and a set of adjustment tools fitted into the shell, so you don't have to go pawing through

a box of loose nut drivers to find the one you need. There's even a belt clip, in case you want to put in on your belt for easy access at the range, or clip it to web gear or a pack and have it handy.

On some, there's even a bottle opener for those occasions when a bottle needs to be opened. The price? \$70. When you consider that you're getting around 15 tools for that, all in one package, then the \$4.50 each becomes the deal of the century. I mean, a sharp knife right there when you need it for just over four bucks? That's a deal. And you sure as heck can't get all these individual tools for less than the \$70 Real Avid is asking for the package.

#### THE REAL AVID TOUCH

As with all Real Avid products, there's no mistaking the look of the tools. You can see one, even one unfamiliar to you, on a table across a room, and think *whatever that is, it was made by Real Avid.* As far as identification goes, each one is clearly marked by Real Avid, "AR15," "Pistol" and "1911," so you know which is which once you recall the location. And it isn't hard to find the location.

Also, if you want to make sure yours

remains yours, there's room on the back to have your initials engraved or scribed with an electric pencil. Trust me, once it gets known at the gun club that your range bag has the tool to fix what ails firearms, someone is going to ask, "Can I use that?" Having your name on something universally useful isn't just an affectation practiced by Sheldon Cooper.

So, your rifle case, with the AR-15 you built, and its magazines, should have a Real Avid Gun Tool AMP AR15 in one of the pockets. And similarly, your range bag should have one each of the AMPs with it, depending on what system you subscribe to.

I know I've said lots of good things about Real Avid in the past, and I'm going to keep doing it in the future. They make useful, clever, good-looking products that I wish I had invented. Yes, I'm a bit envious, but if I neglected everything that I envied, I'd have very little to write about. This is America, and those who come up with good products should be recognized and encouraged. **GDTM**

# RETHINKING GOALS

Knowing when to say, “When!”

I’ve seen it happen to a good number of avid reloaders—and I’ve had it happen to me. You get so wrapped up in the numbers, and you go so far down the rabbit hole, that the goal of what you’re doing gets lost in the mix.

Our goal as reloaders is to produce the best ammunition available, but I’ve seen so many guys become completely obsessed by velocities, bullet runout, standard deviation or extreme spread. Yes, we need to have good information regarding the ammunition we create, but for those of us who load our ammunition for hunting, there’s a different set of tolerances that apply.

What’s acceptable hunting accuracy? Well, we’ve got an impressive lineup of hunting rifles that offer a guarantee of sub-MOA accuracy. Is sub-MOA accuracy required for all hunting rifles, or can it be a deal breaker?

## RECALIBRATING GOALS

As a younger man, when a hunting rifle or handload printed a three-shot group

at or under an inch, it was noteworthy. Many rifles—especially with the factory ammo of yesteryear—would hover around 1.5 to 2 MOA. In spite of those numbers, a whole lot of game animals were put in the freezer. Looking at the numbers, a rifle that steadily prints 2-MOA groups will—*theoretically, and wind deflection values aside*—keep all of its shots in a 6-inch circle at 300 yards; lower that number to 1.5 MOA and you’ll keep the shots in a 6-inch circle at 400 yards.

This probably works for the average hunter’s situation, considering that in spite of modern equipment and trends, I’d comfortably wager the predominant shot distance at game animals, country-wide, remains inside of 250 yards. Should your rifle print 1-MOA groups, or any fraction thereof, all the better, but a rifle printing 1.5 MOA isn’t a cause for concern or disappointment.

Apply this theory to reloading, and you can easily see the problem areas at the end of the spectrum.

First, we have the “worry wart,” who constantly strives for the last few fps and the most consistent velocities or turns his nose up at a 1-inch group. There’ll be pounds of varying powders, boxes of different primer types and more equipment cast aside because it was deemed unsatisfactory. For a hunter, it may very well be excessive.

Second, we have “Mr. Good Enough.” He’ll cobble together a handload, and so long as it goes bang and gives some modicum of accuracy, call it a day and go hunting—having no idea of the actual velocities or other parameters. Somewhere in the middle is where I feel the blend of results and sanity exists. Remember, the goal is to actually go hunting with the ammunition at some point.

I like my guns to shoot well, and I won’t deny the fact that I’m proud when my .300 Winchester or .280 Ackley Improved puts three shots into a ½-inch group.

Who wouldn't be? But I don't lose sleep when my .308 Winchester—in a Ruger 77 MKII—prints those same 1¼-inch groups it's been printing for a quarter century. I'm comfortable with that, as it's truly enough accuracy for a hunting rifle.

I firmly believe that every reloader should own a good chronograph, or some means of accurately measuring velocity, in order to know how to predict trajectories, but so many people become obsessed with the numbers registered on that machine. I understand that you wouldn't want a Magnum cartridge to run 300-fps slower than the norm—after all, you bought the cartridge for its speed—but I wouldn't lose sleep over 100 fps.

Instead, find that classic blend of velocity and accuracy that, as a hunter, serves well and makes you happy without stressing to the point where the magic of the wilderness is being obscured by the data of your handload.

One area I feel should certainly become a focal point for the hunter who handloads is the premium bullet market. It's true that mankind nearly wiped a good number of species out of existence with pure lead bullets, but as hunters, we owe it to our game animals to deliver the quickest, most humane kill possible, and there are a good number of premium projectiles that deliver exactly that.

## NEW PROJECTILES FOR THE HUNTING RELOADER

**1. Federal Terminal Ascent:** The new Terminal Ascent from Federal gives the reloader a high B.C. bullet with a bonded core and a long copper shank at the rear. You can look at this as the great-grandson of the Trophy Bonded Bear Claw, giving a flat trajectory, great wind deflection values and excellent terminal performance. The Terminal Ascent offers reliable expansion down to 1,400 fps, yet the bonded core will handle high-velocity impact.

**2. Barnes LRX:** Barnes has extended their LRX (Long Range X bullet) line to include three new bullets: a .22-caliber 77-grain, a 6mm 95-grain and a .30-caliber 190-grain. The LRX line has the

best B.C. values of the Barnes lead-free bullets, using a longer ogive and an alloy designed to expand reliably at a lower velocity. I've found them to be the most accurate of the Barnes lineup and can attest to the terminal performance. For those who enjoy the .224 Valkyrie, 6mm Creedmoor and .243 Winchester, and .300 Winchester Magnum and .300 PRC, these new offerings will help take advantage of the trajectories those cases (and their like) can generate.

**3. Nosler AccuBond Long Range:** Nosler has announced their .27 Nosler cartridge, and in addition to their excellent loaded ammunition, they're offering component brass and the new .277-inch-diameter 165-grain AccuBond Long Range bullet designed for this exact application. The Expansion Tip (E-Tip) lead-free polymer tipped boat-tail line now includes a 250-grain offering in .338-inch-caliber, a great choice for the bears of the

north, and moose and elk alike.

**4. Federal Fusion Components:** As popular as the Fusion line of ammunition is, I'm surprised to see how many reloaders are unaware that Federal now offers the bullet in component form. The Fusion offers excellent terminal performance on thin-skinned game; its bonded core controls the expansion, resulting in deep penetration.

**5. Berger Elite Hunter:** Berger has expanded their line of Elite Hunter bullets this year to include the 6mm-caliber 108-grain and .30-caliber 205-grain bullets. While Berger has a stellar reputation for its lineup of uber-accurate match bullets—built around the J4 jacket—I like their cup-and-core hunting bullets when they're of sufficient sectional density, and both of these are. Blending a tangent and secant ogive curve to maximize both internal and external ballistics, the Elite Hunter gives a flat trajectory and resists wind deflection nicely. **GDTM**



(Above) The author's .308 Winchester and a 1.5-MOA group. This rifle has taken many different species, even though it isn't the most accurate.

A five-shot group from handloaded .270 ammo. While it measures 1.4 MOA and might not be inspiring, it'll suffice for nearly all hunting situations.

### 01 Aimpoint CompM5b

It's no secret that Aimpoint delivers the goods. But the respected optics maker might've outdone itself with the CompM5b. The red dot offers a truly tactical system, not only delivering outstanding accuracy, but also quick calibration. This, in part, is thanks to an interchangeable turret system adapted for different calibers at different target ranges. It's also compatible with an array of Aimpoint magnifiers, including the 3XMag-1 and 6XMag-1 magnifiers, as well as all generations of Night Vision Devices. Its 2-MOA dot is excellent for precise close-quarters engagements, but fine enough to handle midrange work. And, as expected from Aimpoint, the 6.3 unit is tough.

**MSRP: \$1,124**

### 02 Viridian HS1 Laser-Sight Hand Stop

Simple concepts oftentimes prove the most useful. That perfectly pegs Viridian's new additions. Pulling double duty, the HS1 is the first and only hand stop laser sighting device on the market. Hard to believe it's taken this long for someone to cook up this concept, given the AR-15 is more than a half-century old. As to the particulars of the Viridian HS1, it uses a highly visible green laser, which extends its use to some daylight applications. M-Lok mounts make it compatible with a wide spectrum of handguards. And, it has a simple operating system, powering on via a pressure pad on the stop. There might not a more practical addition for a close-quarters AR.

**MSRP: \$179**

### 03 Maven CS.1 15-45x65mm

Compromise isn't part of the game with once-in-a-lifetime hunts. From rifle to boots, you've got to have equipment up to the job. Maven gets this, which is why they've designed the CS.1 spotting scope. At once, the precision optic is lightweight and unimposing, while delivering pristine details at ranges most other scopes only dream of. Boasting the same extra-low dispersion, multi-coated glass found in Maven's C Series binos, the CS.1 has impeccable light-gathering capabilities, producing bright, high-contrast images. And with an aluminum/magnesium frame, the 40-ounce optic is next to nothing in a rucksack with the durability to stand up to the toughest hunt.

**MSRP: \$650**

### 04 Sightmark Wraith HD 2-16x28mm

Lack of light is no excuse to head home from the field. Not with the Wraith HD 2-16x28mm digital riflescope on your rifle. Boasting a 1920x1080 CMOS sensor that delivers pristine images on a 1280x720 FLCOS display, the day/night optic is the perfect option to fill your bag, no matter the hour. The dandy optic is easy to use, too. Switching from full-color daytime mode to green or black-and-white night IR is push-button simple. Additionally, the Wraith comes with a removable 850nm IR illuminator to enhance nighttime images for accurate target acquisition out to 200 yards. If that's not enough, the scope's built-in video recording system comes with seven hours of memory.

**MSRP: \$600**



## 05 Bushnell AR Optics 4.5-18x40mm Multi-Turret Riflescope

Next to surgical-like precision, long-range shooting pursuits are known for one thing—a hefty price tag. However, Bushnell has done a dynamite job moderating the expense of adding a quality optic and continues the trend with the AR Optics 4.5-18x40mm Multi-Turret. The scope's defining feature is its quick-swap elevation caps. Simply choose from four popular calibers—.6.5 CM, .224 Valkyrie, .308 Win. and .223 Rem—and you're ready to dial in at any range. Large controls, from magnification ring lever to turrets, make this tactical marvel easy to adjust on the fly. And with a large 40mm objective and magnification to spare, it's certain to get you on target no matter the distance.

**MSRP: \$270**

## 06 Meprolight R4E Tru-Dot

While suppressors have taken the shooting world by storm, it takes more than just a threaded muzzle to make one compatible with most handguns. Given the diameter of some cans, sights are a concern. Meprolight solves this dilemma with the introduction of the R4E Tru-Dot day/night sights. Tailored for Glock and H&K VP9 pistols, the upgraded sights stand taller, allowing for a clear sight picture over a suppressor. The sights also boast three vertical and two horizontal lines that produce a reticle-type sight picture that improves target acquisition time. Furthermore, the lines are tritium enhanced on the rear sight to help improve target acquisition in low-light conditions. Available in orange, yellow or green, the sights are ideal to get on target with your suppressed handgun.

**MSRP: \$129**

## 07 Swampfox Liberty and Justice Red-Dot Sights

What? You aren't shooting with a red dot yet? As far as modern accessories go, there are few that do more for your accuracy behind a handgun. Swampfox makes red dots an easy, not to mention effective, addition to your target or defensive pistol with the introduction of the Liberty and Justice red-dots. The next-generation optics are optimized for concealed carry, robust enough to take everyday knocks, and adequately low-profile to keep under wraps. Liberty is Swampfox's standard-window model, measuring 22mm wide, while the Justice is the big-window 27mm variant. Whichever you choose, you'll get a 3 MOA dot, shake-and-wake power system and incredibly long battery life.

**MSRP: Liberty: \$249 / Justice: \$259**

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# FLASH 'EM!

## A guide to handheld & weapon-mounted lights.



**W**ith current events turning everyday life more unpredictable, making good decisions with your personal protection has never been more important. But how do we ensure that we make good decisions when our safety is on the line? Being an effective defender isn't

as simple as strapping a big iron on your hip and maintaining awareness.

Firearm proficiency and maintaining a high degree of vigilance is only a piece of the puzzle: You should have *several* options available—beyond harsh words but before switching to guns. Some of the popular less-lethal options include pepper spray, hand-to-hand training or Tasers. I'm an advocate for carrying at least a spicy treat (OC spray, such as Sabre Red), as well as getting some hand-to-hand training.

But there's one non-lethal option that's often overlooked: bright—*really bright*—flashlights.

### A LIGHT IS ESSENTIAL

With roughly half of every day being dark, it makes sense to practice shooting in low-light conditions as often as possible, since it presents unique challenges that are often made worse by low-output lights. Sadly, most gun owners don't get an opportunity to hone this vital skill, leaving the importance of a good light paired to a defensive firearm a mystery.

The majority of the blame for this giant gap in training lies with gun ranges that are forced to write range rules around the strict insurance policies available to them. That isn't an excuse to not be proficient shooting your defensive firearms in the dark. There's undoubtedly a training class in your area that should teach you some of the basics and give you some valuable time on a dark range.

### PHOTONIC BARRIERS

Positively identifying what someone is holding when they're standing in front of or next to another light source at distances beyond 15 yards can be an eye-opening moment. Your 600-lumen light might be bright, but it might not mean

“usable” depending on how those lumens are projected.

Even though most of my low-light students bring a light with 300 lumens or more, more than half quickly find that the light they brought to class won't overcome the unique challenges faced when shooting in the dark. Photonic barriers like car headlights, bright windows, back lighting, side lighting and gun smoke affect a light's effectiveness and can prevent you from getting enough information to make a good decision.

Try putting accurate shots on a target at 7 yards away in quick succession in low light and you'll quickly realize that a 600-lumen Olight PL-MINI 2 lacks the candela needed to cut through that gun smoke.

### NOT ALL LUMENS ARE EQUAL

Comparing light output is a lot easier than it used to be thanks to the ANSI FL1 standard introduced in 2009. Prior to the FL1 rating system, flashlights were marketed with claimed candlepower and LED power consumption ratings. ANSI's FL1 rating means that when you're shopping for a new light, you can compare apples to apples instead of trying to figure out how many watts an LED has to be rated for it to equal the candlepower rating of another flashlight.

### LUMENS

The number of lumens a light produces is a cumulative measure of all light being produced by your light. In the case of the ANSI FL1 standard, this is measured with an expensive testing apparatus called an integrating sphere.

While the quality of reflector and lens in your light has a small effect on the lumen rating, it's almost entirely dependent on the amount of light generated by the LED emitter or bulb. Remember that lumen output is only part of the equation, it does *not* measure how effective the flashlight is at focusing those lumens.

### CANDELA

In order to figure out how well those lumens are projected, you need to know what the candela rating of the light is.

Candela is the measure of the amount of light at a particular point in the flashlight beam, which can be measured out to a distance rating.

Candela is most impacted by reflector shape, finish and the placement of the light source in relation to the reflector. At the risk of oversimplifying the complexities of reflector design, the larger in diameter and deeper that reflector is, the more potential it has to produce big candela numbers.

### A LIGHT IN THE HAND

Having a light on your gun is dandy, but don't think that means a great handheld light is no longer something you should have. Not only does this mean that the temptation to use your weapon-mounted light as a task light is removed, but a high-output handheld light gives you a lot of flexibility when integrating it into your use of force continuum.

### WHAT FEATURES SHOULD IT HAVE?

The single, most important aspect in selecting a handheld light is the physical size of the light. If it isn't something you're going to reliably put in your pocket or purse, that high-octane light saber isn't much help.

When looking at output ratings, select



From left to right: Modlite Clicky Tailcap, Modlite Modbutton Lite, Streamlight Tape Switch, Modlite Modbutton, Cloud Defensive, Modlite Modbutton Lite and Streamlight Tape Switch.

a light rated to at least 500 lumens and 2,000 candela. While more candela is better, ideally the handheld will be paired with a weapon-mounted light, making its ability to cut through difficult photonic barriers less important for most cases.

Also, look for something that takes a rechargeable battery, because you'll be using this light a lot. Some form of replaceable rechargeable like an 18350, 18650, or even some of the smaller replaceable cells are recommended. Avoid lights with an integrated battery, since rechargeable cells have a finite lifespan.

### COMPACT HANDHELDS TO CONSIDER

If you prefer a more lightweight EDC, the Streamlight Macrostream USB is a fantastic light for reasonable money with few downsides. Make sure to keep the Macrostream charged; when the battery is discharged, the light shuts off entirely rather than giving you warning by stepping down brightness.

Still want a small light but need more output? I've been most impressed with Modlite's 18350 PLHv2 handheld. With

Being convenient to carry relies on a good pocket clip.





1,350 lumens and 54,000 candela, the Modlite handheld is a powerhouse. Make sure to have spare batteries on hand; this light has a 35-minute run time.

**FULL-SIZE HANDHELDS TO CONSIDER**

Anything that takes a 18650 rechargeable is a good place to start when looking at a full-size tac light, since they generally have a solid runtime and output.

On the budget side, Streamlight's PolytacX is a great light that'll do almost anything you could ask it to do. For a bit more money, the Streamlight Pro Tac HL-X is a well-rounded light that accepts Thyrn's excellent SwitchBack pocket clip.

In the over \$200 category, you can get a SureFire Duel Fuel handheld or a Modlite PLHv2 handheld. Both are a good choice, but Modlite has significantly more output from the same size light.

**PISTOL-MOUNTED LIGHTS**

Shooting with a light is a lot easier with both hands on the gun. You can use a handheld effectively with a pistol, but you

need to practice the skill. Like the handheld light, we want at least 500 lumens and 5,000 candela for a pistol light. Ideally, you'll buy one that's 600 lumens or more and over 15,000 candela to help defeat those photonic barriers with greater ease.

Also, take into consideration the switches on the light. Rotating switches, like the ones found on the SureFire X300 Ultra or Streamlight TLR-1 HL, are a good bet. Compact lights mean that we have to use a slightly different switch—the Streamlight

TLR-7A is the current king in that realm.

And remember this: You're going to need a holster capable of accommodating the gun and the light.

**FULL-SIZE PISTOL-MOUNTED LIGHTS**

When looking for a full-sized pistol light, there are two options you should be seriously considering at the time this is being written, SureFire's X300 Ultra and the Streamlight TLR-1 HL. No other lights



The PHLster ARC switches for SureFire X300, and Streamlight TLR-1 HL lights make activating the light a cinch.



Streamlight's TLR-7 and TLR-7A are the only compact pistol lights with enough candela to defeat a rapid string of fire.

on the market have been proven to the level that these have.

Both lights have 1,000 lumens, and both have great candela ratings as well, but they run on the CR123 batteries still. Modlite will be introducing a pistol light that's powered by an 18350 battery, uses their modular head design and will have

a good switching arrangement.

### COMPACT LIGHTS

Not down with the idea of shoving a giant light into your pants? There's one compact pistol light on the market worth looking at that still meets the requirements for a usable pistol light: the Streamlight TLR-7 series. There are other lights on the market that hit the mark in lumen rating but fall flat when you look at the candela rating. Only one comes close—the Olight Baldr Mini—but since it has an integrated battery with a finite lifespan it might be ideal to stick to lights that allow you to maintain the power source.

### RIFLE-MOUNTED LIGHTS

What does a good rifle light need to do? That really depends on your application. The needs of an armed professional are very different than the needs of a suburban homeowner.

Again, look for a light that uses a 18650 or 18350 rechargeable battery, since that'll keep you in the output range we want to see out of a rifle light. It should have at least 1,000 lumens and a candela rating of 10,000 at the minimum. Preferably, get a light with 1,300 lumens or more and north of 25,000 candela to be able to take advantage of the rifle's longer engagement range.

There are some outliers to what I consider to be the minimum, such as the Modlite OKW with only 680 lumens. Yes, that's less than the 1,000-lumen requirement, but the 69,000 candela pairs well with a magnified optic.

### SWITCHING

Pressure pads are the most ergonomic and useful methods of activation, but what pressure pad should you choose? If you choose a Streamlight rifle light, you're stuck with the OEM tape switch unless you convert it to take the SureFire plug

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## RECOMMENDED LIGHTS

### HANDHELD

Modlite PLHv2  
Modlite OKW  
SureFire Stiletto Pro  
SureFire Fury DFT  
Streamlight Macrostream USB  
Streamlight ProTac HL-X USB  
Streamlight ProTac HL USB  
Streamlight Polytac X USB

### PISTOL-MOUNTED

SureFire X300 Ultra 1,000 Lumen  
SureFire X300 Ultra 600 Lumen  
Streamlight TLR-1 HL 1,000 Lumen  
Streamlight TLR-1 HL 800 Lumen  
Streamlight TLR-7 and TLR-7A

### RIFLE-MOUNTED

Cloud Defensive OWL  
Modlite PLHv2 (18650 Preferred)  
Modlite OKW (18650 Preferred)  
Streamlight ProTac Rail Mount HL-X  
Streamlight TLR RM 2  
SureFire Scout Light Pro Dual Fuel  
SureFire Scout Light



with a tailcap adapter from Arisaka.

SureFire ecosystem lights have an advantage in that there are several great switch options in addition to the choice of plug only, or a plug and button combo tailcap. Opt for switch like the brand-new Modlite ModButton Lite, the original ModButton or the Unity Hot Button and get 10 to 15 percent more light output. Choose the option that works best with your rifle and use case.

### MOUNTING

Generally, it's recommended to mount the light on the same side as your dominant hand, as close to the rifle as you possibly can. Mounting the light like this gives you the most real estate and prevents the light from getting tangles in a sling. Arisaka's inline scout mount is a great option; also consider mounts from Railscales, Bobro, Impact Weapon Components and Magpul.

### CABLE MANAGEMENT

Secure the pressure pad cable with something to prevent it from being pulled out of the endcap. Low-tech solutions like rubber bands or bicycle inner tube are great, or try a purpose-built solution like LaRue index clips.

### HOME DEFENSE

Nearly every rifle-specific light from most of the reputable manufacturers is going to do the trick with the exception of Streamlight's TLR RM1, the rifle adaptation of the TLR-7A. Since we're specifically talking about a gun built around short-range defensive uses, I might select a light with more of a flood-style beam pattern rather than the pinpoint beam of a Modlite OKW.

Even though the light had some teething issues, the Streamlight ProTac HLX Rail Mount appears to be bug-free now and is a solid budget option with impressive output numbers. Just a few more dollars and you can move to the SureFire Scout Light Pro Dual Fuel with the integrated M-lok mount.

### SHOTGUN LIGHTS

Putting a light on your shotgun is a bit more challenging than other firearms, but it's just as advantageous. Two good dedicated options for a shotgun are the Streamlight TL-Racker or the more expensive SureFire-dedicated forend lights. There are ways to mount handheld and rifle lights to a shotgun, but they don't work as well as a dedicated forend light.

### GET A DANG LIGHT

There's no reason that you're carrying a gun and not at least carrying a handheld light in 2020. There are just too many reasons that a high-quality flashlight can be a defensive tool.

Give me all the lumens, but remember that candela is king.

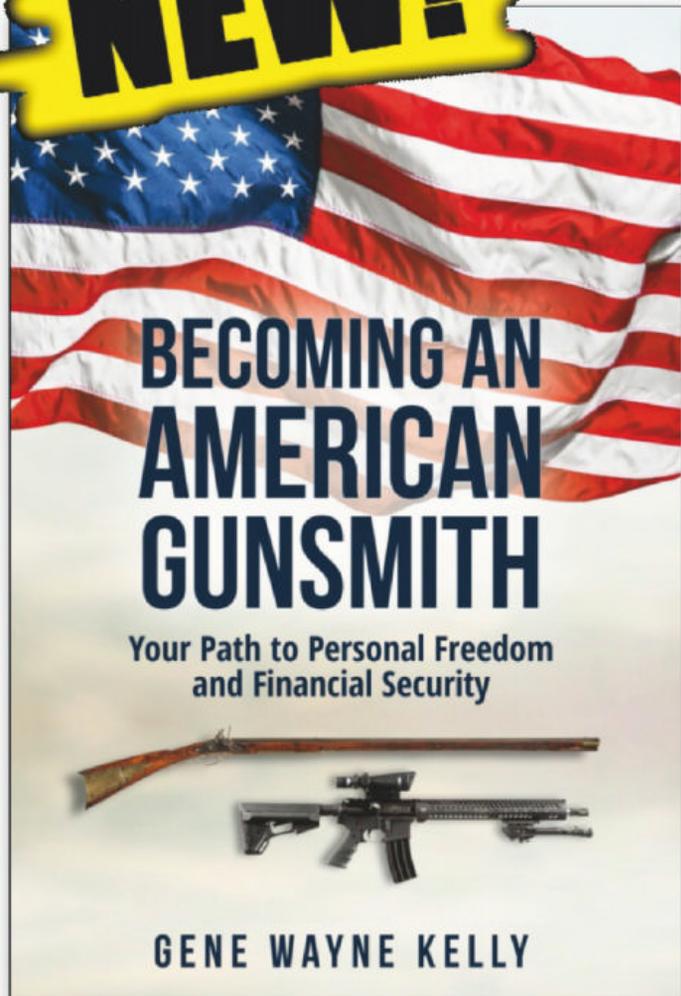
### GDTM

Streamlight and SureFire dedicated forend lights are best for a shotgun, but you can make a rifle light work.



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# THREE AMIGOS

One cartridge, three guns: the versatile .357 Magnum.

The idea of having one gun you could trust to sort out all your problems is appealing and has merit. Like grandpa said, “Beware the man with one gun.” However, unless you only have a limited assortment of problems to solve, a one-gun answer will be, at best, a compromise. I don’t believe there’s a one-gun answer for everything—or even most things. But what if we took a different approach and instead of relying on one gun, we relied on one cartridge?

This drastically changes the conversation, because by settling on a single cartridge we can rely on multiple guns to shoot it. Of course, it also limits possibilities. For a serious one-cartridge solution, we have to turn to a revolver cartridge that can serve triple duty in a concealed handgun, a general-purpose sidearm and a rifle. In a perfect world, you’d be able to carry all three at the same time without undue discomfort.

There are really only three options to choose from: the .327 Federal Mag-

num, the .357 Magnum and the .44 Magnum. The .327 would give you an edge in a concealed-carry revolver because it offers six shots instead of five. The .44 Magnum would reign supreme in a rifle because of the power it can deliver. The problem with the .327 is that Henry is the only company making rifles for it, and the problem with the .44 is that even compact revolvers aren’t all that compact ... and they hurt on both ends.

That leaves the .357 Magnum. And quite frankly, while it might seem like a compromise or that you’re *settling*, it’s a fine choice. From a self-defense standpoint, the .357 Magnum has a stellar reputation for stopping fights. As an everyday sidearm or as a predator defense gun, with the right ammo it can deal with small and large four- or two-legged critters, and even big bears. And in a rifle, the .357 Magnum is surprisingly effective.

The guns chosen would be important, but the key to versatility and success with this one cartridge approach is the ammunition.

Speer's Short Barrel Gold Dot .38 Special +P load has long been a top performer out of short-barrel .38 Special and .357 Magnum revolvers. It still is.



Buffalo Bore's Heavy .38 Special +P 125-grain Low Velocity Jacketed Hollow Point load performed exceptionally well out of the little LCR and wasn't overly offensive to shoot.



The Barnes TAC XPD .357 Magnum load delivered ideal terminal performance from the Blackhawk (center), but for the LCR (left) there was barely enough velocity, and out of the rifle (right) there was too much.



**RUGER LCR**

The Ruger LCR is a magnificent little creation of steel, aluminum and polymer. Ruger offers a version with a hammer and one without. With its 1.87-inch barrel, the LCR weighs only 17.1 ounces. A soft rubber Hogue grip is standard, and the suggested retail price is \$669. This little revolver is as comfortable to carry as it is to conceal.

You could argue that the trigger is a little on the heavy side, but the primary problem with such a lightweight, compact, .357 Magnum revolver is holding onto it when shooting full-power loads. For this reason, many who carry .357 LCR opt for .38 Special +P ammunition.

The use of .38 Special ammunition in the LCR is actually a really smart choice, if—and that's a big if—the right



For the optimum trail load out a revolver like the Ruger Blackhawk, the Buffalo Bore Outdoorsman load is hard to beat. No other .357 Magnum load can penetrate as deeply.

ammunition is chosen. After a good bit of terminal performance testing, the two standout loads for this little revolver are the Buffalo Bore Heavy .38 Special +P 125-grain LV (low velocity) JHP and the 135-grain, Speer Gold Dot .38 Special +P. Both penetrate between 11 and 12 inches and expand to just a shade more than a half-inch. This revolver/ammunition combination fills the everyday carry, defensive handgun need.

**RUGER BLACKHAWK CONVERTIBLE**

The next slot we need to fill is a general-purpose handgun—one that you can use for hunting, predator defense and even protection. Single-action revolvers are often looked at as antiques or curios more suited for recreational shooting.



One of the best features of the Ruger 77/357 is how light, compact and quick handling it is.



The truth is that a high-quality, single action is rather versatile, and short of high-end custom creations, no single-action revolver has a better reputation than the Ruger Blackhawk. The standard Blackhawk with a 4.62-inch barrel retails for the same price as the LCR, but a better option is the .357 Magnum/9mm Luger convertible model, which costs about \$100 more.

In this modern world of high-tech controlled-expansion projectiles, hardcast bullets get overlooked. They'll out-penetrate every other style handgun bullet and, with their flat meplat, they do a terrific job of damaging tissue. For the best hardcast ammunition out there, turn to Buffalo Bore. Their Heavy Outdoorsman 180-grain load will generate 1,379 fps and 759 ft-lb of energy from a 4.62-inch barreled Blackhawk. I'd like to be able to tell you how deep one of these bullets will penetrate, but after stacking gel blocks 36 inches deep and failing to stop one, I gave up.

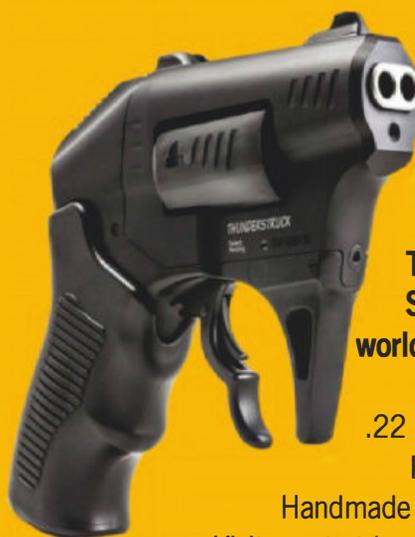
This revolver, paired with a Galco 1880's holster and cartridge belt, is

Even though the Ruger 77/357 utilizes a detachable magazine, an accessory like the Versacarry AmmoCaddy keeps more ammo—or ammo of a different load—close at hand.

# S333

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Pairing up a Ruger 77/357 and a Ruger Blackhawk in .357 Magnum, makes for a potent field-ready arsenal.

scope only adds 9.3 ounces to this rifle and provides plenty of magnification to take the .357 Magnum cartridge to its maximum practical range. And, these rifles will shoot; 1 to 1½-inch 100-yard groups are common. The trick is finding a load that can stand up to the added velocity you'll get from the 18.5-inch barrel.

For serious business—like defense against beastly predators—Buffalo Bore's .357 Magnum Outdoorsman load is at the top of the charts.

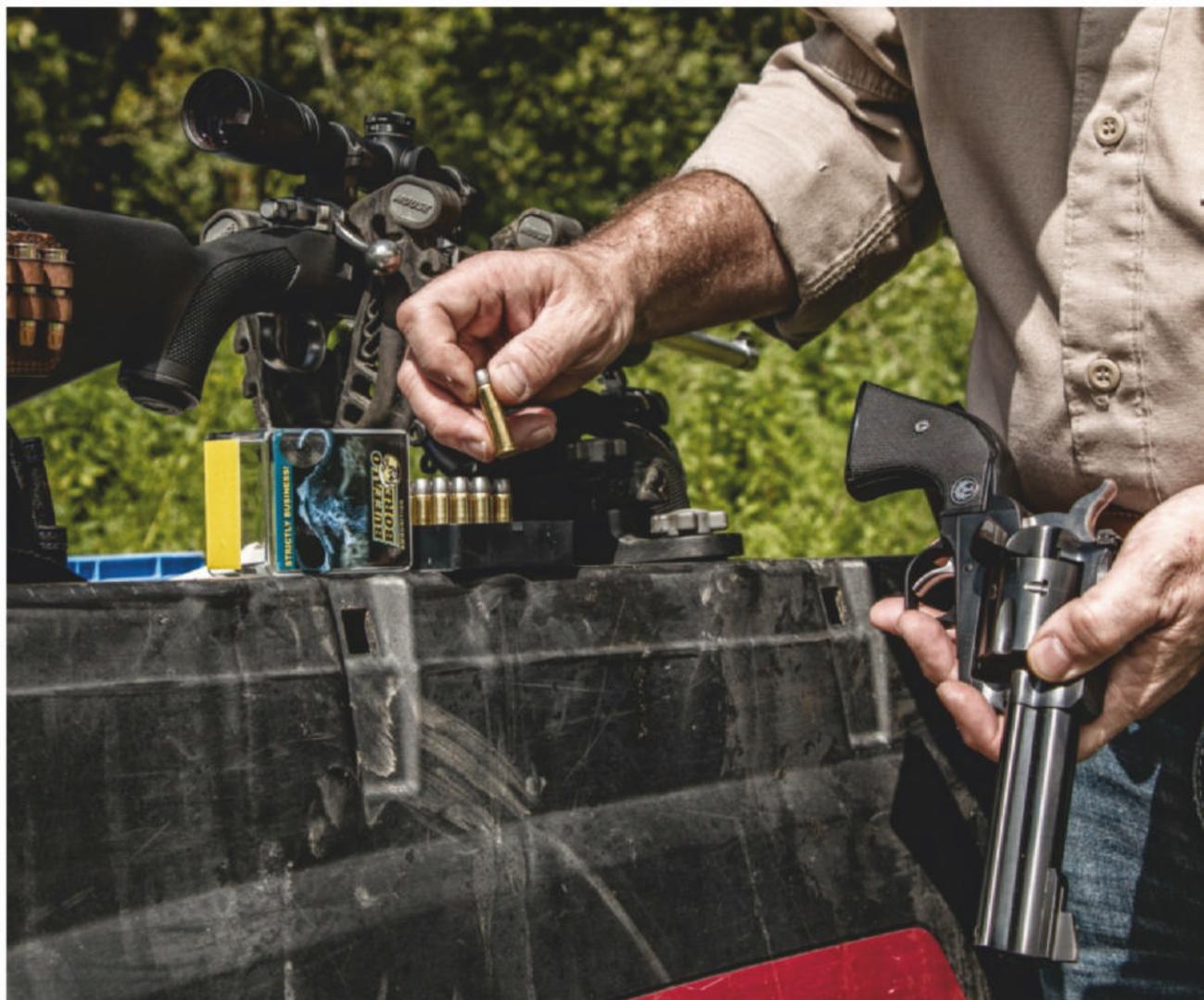
The reason this is so difficult is because .357 Magnum ammunition is manufactured to work in handguns with barrels ranging from very short to about 6 or 8 inches. Bullets that'll expand and hold together at handgun velocities tend to come apart when fired from a rifle with as much as 500

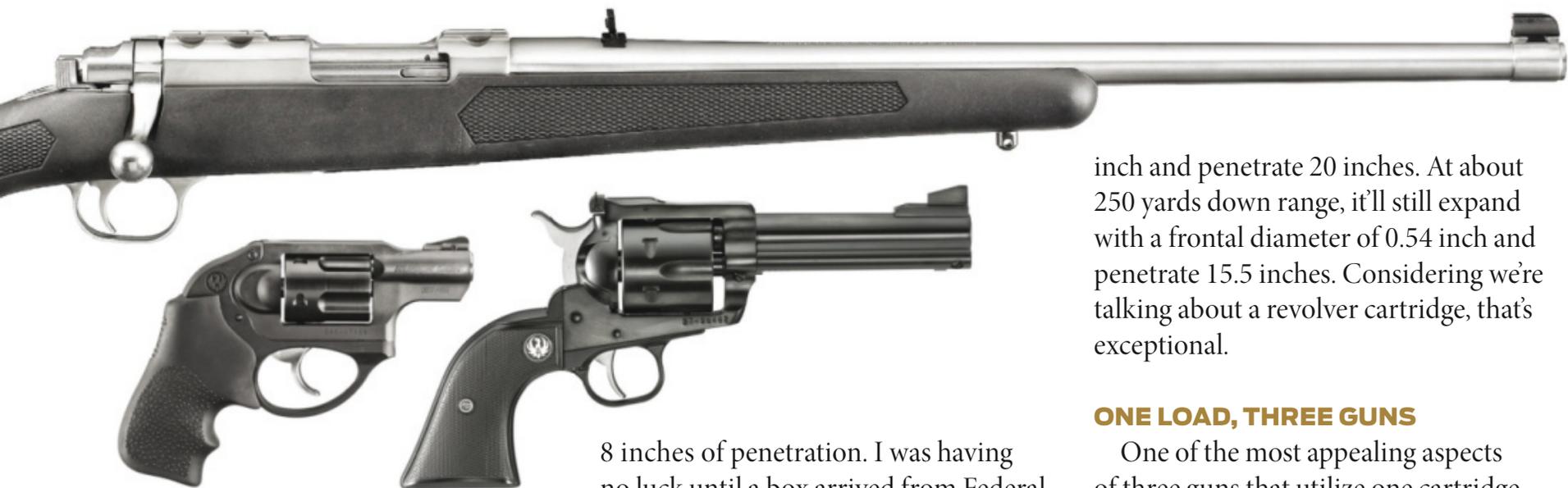
easy to carry. Just as importantly, the cartridge belt provides a way to transport a lot of ammunition that's close at hand for the single action, the LCR and the rifle.

### RUGER 77/357

When selecting rifle chambered in .357 Magnum, the tendency is to go with a lever gun. That's a choice that's hard to argue; my Marlin 1894 SBL is a fast-handling, sweet-shooting rifle. However, this three-gun battery is missing the ability to put bullets on target with extreme precision. To do that best, a magnified sight is needed. Sure, you can put a riflescope on a lever gun, but it destroys the handling qualities of the piece. Fortunately, Ruger makes the 77/357, a reasonably compact bolt-action rifle that weighs only 5.5 pounds, is a full pound lighter than the Marlin lever gun, and comes with a barrel that's 2 inches longer. Retail price: \$999.

A Leupold VX-3i, 1.5-5X20mm rifle-





more fps behind them.

I had to do a lot of shooting to discover a bullet that'd stand up to the velocities the Ruger 77/357 was capable of generating. One that worked marginally well was the 125-grain Barnes TAC-XP load, but even that bullet blew off all of the petals at about

These three bullets give an idea of the terminal performance of the HammerDown load if it was fired from a rifle at 25 yards (right), 155 yards (center), and 245 yards (left).

8 inches of penetration. I was having no luck until a box arrived from Federal containing some samples of their new .357 Magnum HammerDown load. Optimally configured for lever-action rifles, HammerDown uses a bonded bullet. Out of the Ruger 77/357, it penetrated 22 inches and expanded to .474 inch. This is elk-capable ammunition.

For what it's worth, testing out of the Blackhawk and LCR gave a glimpse of what this bullet will do at extended ranges from the rifle. At about 150 yards, you could expect this bullet to deform with a frontal diameter of 0.584

inch and penetrate 20 inches. At about 250 yards down range, it'll still expand with a frontal diameter of 0.54 inch and penetrate 15.5 inches. Considering we're talking about a revolver cartridge, that's exceptional.

### ONE LOAD, THREE GUNS

One of the most appealing aspects of three guns that utilize one cartridge is the possibility of one load that could work reasonably well in all of them. If you thought finding a bullet that could withstand rifle velocities was hard, finding one that'd deliver decent expansion and penetration out of a 1.87-, 4.62- and 18.5-inch barrel proved to be a monumental task. After more than a dozen loads failed to deliver the desired performance, almost as an afterthought I tried the 135-grain Hornady Critical Duty load.

I wouldn't say this load was perfect for all three firearms, but it could suffice as a one-load option. Out of the snub-nose, the bullet expanded 1.26 times its original diameter and penetrated 14 inches. Out of the Blackhawk, expansion came in at 1.64 times the original diameter, with 13.5 inches of penetration. And out of the 77/357, the bullet deformed with a frontal diameter measuring 1.4



Shotshells increase the versatility of a cartridge, and CCI offers two versions for the .38 Special/.357 Magnum.



(Left) Surprisingly, the Hornady Critical Duty load worked well out of all three firearms. The bullet on the left was fired from the LCR, the one in the middle from the Blackhawk, and the one on the right from the rifle.

# SHOTSHELLS



If one has designs on relying on a single cartridge, a shotshell load adds versatility. CCI offers two shotshell loads for the .38 Special/.357 Magnum. The standard shotshell is loaded with No. 9 shot, and the BIG 4 is loaded with No. 4 shot. These shells can be very effective on snakes and even vermin as large as skunks. Of course, the range must be close. I tested the standard shotshell and the BIG 4 shotshell loads in each of the .357 Magnum firearms, and even though the barrel lengths varied a great deal, the results were very similar. About 6 feet appears to be the maximum practical range with both loads, regardless of barrel length. I believe the shotshell would work very well for snakes from all three guns, but the BIG 4 load doesn't produce a dense enough pattern. It, however, might be a better option for skunks ... if you don't mind getting that close to one before you shoot it.

## RUGER LCR 1.87-INCH BARREL

AMMO	VEL	ENG	PEN	RD	RW
BARNES 125-GRAIN TAC-XP	1,267	445	14.5	.498	124.9
BUFFALO BORE HEAVY 38 SPECIAL +P 125-GRAIN LV	1,043	301	11.5	.525	123.5
HORNADY 135-GRAIN CRITICAL DUTY	1,113	371	17	.453	133.7
SPEER 38 SPECIAL +P 135-GRAIN GOLD DOT SHORT BARREL	849	216	11.5	.558	134.0
FEDERAL 170-GRAIN HAMMERDOWN	1,102	458	15.5	.540	169.9

## RUGER BLACKHAWK 4.62-INCH BARREL

AMMO	VEL	ENG	PEN	RD	RW
BARNES 125-GRAIN TAC-XP	1,442	577	18	.584	125
HORNADY 135-GRAIN CRITICAL DUTY	1,261	476	17.5	.588	133.4
FEDERAL 170-GRAIN HAMMERDOWN	1,292	630	20	.584	167.4
BUFFALO BORE HEAVY 357 MAGNUM 180-GRAIN OUTDOORSMAN	1,379	759	36+	NA	UNK

## RUGER 77/357 18.5-INCH BARREL

AMMO	VEL	ENG	PEN	RD	RW
BARNES 125-GRAIN TAC-XP	1,928	1,031	21	.420	97.4
HORNADY 135-GRAIN CRITICAL DUTY	1,542	712	18	.496	124.6
FEDERAL 170-GRAIN HAMMERDOWN	1,773	1,186	22	.474	116.9

NOTES: Reported muzzle velocity (VEL) and muzzle energy (ENG) were established by firing 10 shots over a Caldwell G2 chronograph with the screens positioned 10 feet from the muzzle. Penetration (PEN), recovered diameter (RD) and recovered weight (RW) were established by the average of three shots fired into blocks of Clear Ballistics.



For self-defense with the little LCR, Buffalo Bore's Heavy .38 Special +P 125-grain Low Velocity Jacketed Hollow Point load is an ideal choice.

times the unfired diameter with 17 inches of penetration.

The HammerDown also delivered good terminal performance from all three firearms. As noted, it worked great in the rifle, and out of the Blackhawk and LCR we got a glimpse of what performance further downrange would look like. From a terminal performance *only* standpoint, it performed better than the Critical Duty load. However, out of the little, lightweight LCR, recoil was brutal. After five shots, I felt the effects in my hand for the rest of the day. Call me a wuss if you like, but HammerDown ammo out of an LCR is a long way from fun.

The one-cartridge alternative to solving all your problems might be worth considering. Of course, if some of your problems include cape buffalo or prairie dogs, finding a one-cartridge solution gets impossibly complicated. However, for most shooters, there's not much a fella couldn't handle with a .357 Magnum, three good guns and a lot of ammunition. **GDTM**

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# RIFLESCOPES FOR RIMFIRES

10 top rimfire optics for plinkers, hunters and precision shooters.

When it comes to optics, “rimfire” is a nebulous term. The scope torqued onto a child’s first .22 LR isn’t anything like the feats of ELR engineering found at precision rimfire matches all across the country. Yet, in both cases, they’re riding a rimfire rifle, steering the fire of a 40-grain hunk of lead. This shows that when picking a new scope for a rimfire rifle, you have to consider end use. Is the rifle a plinker, a hunter or a precision competitor?

There are a few “rimfire” branded scopes that aren’t total junk—okay, just two—that work well for backyard plinkers and varmint hunters. For match shooters, the best rimfire scopes are simply the best precision rifle scopes, no matter the caliber. Taken together, these 11 scopes below are my favorite, listed in order of price, with the recommended use case for each one. These scopes range from under \$200 to more than \$3,500 ... and none of them will let you down. **GDTM**



G6  
G-10002  
COLUMBIA FALLS, MT



If you're a plinker ...

**01 Tract Optics 22 FIRE 4-12x40mm BDC**  
**\$174; TractOptics.com**

The 22 FIRE is one of two “rimfire” stamped optics worth a lick. (The second being the Hawke, listed next.) The BDC reticle is optimized for high-velocity ammo like CCI Stingers. Zero with Stingers or similar 1,400- to 1,600-fps loads at 50 yards and the hash marks show where to hold (more or less) out to 150 yards in 25-yard increments. It’s my go-to plinker scope for newbie shooters. The hashmarks being an easy way to explain bullet drop to new shooters. This is a “rimfire” scope in the realist sense—inexpensive, but not cheap. I’ve long wanted to build a custom sporter with a chamber cut for Stingers and top it with this scope. Some day.

If you're a varmint hunter ...

**02 Hawke Vantage 30 WA SF IR 4-16x50mm AO .17 HMR**  
**\$399; US.HawkeOptics.com**

Like the Tract above, this Hawke has a BDC reticle, but with hash marks tuned to .17 HMR. It’s the only reticle out there marked as such. With a 100-yard zero, it shows holdovers to 350 yards when on 13x magnification. Hawke says the aim points are precalculated for 2,500-fps loads. It’s worked well for me out to 300 yards with CCI VNTs (listed at 2,650 fps) in a Tikka T1x MTR. If the BDC isn’t your jam, this model has big-honking MOA turrets for elevation and windage adjustments. If you want a rimfire reticle for the .17s doing distance plinking or varmint work, Hawke is where it’s at. They make this scope and a few others with reticles for .22 LR subsonic, .22 LR high-velocity, 17 Mach 2 and .22 WMR, too.

If you're a base-class NRL22 shooter, option 1 ...

**03 Athlon Optics Argos BTR 6-24x50**  
**\$379; AthlonOptics.com**

You can’t do anything in the rimfire space these days and not bump against NRL22, the National Rifle League’s national precision rimfire series. In that sport, among base-class shooters whose combined rifle and scope MSRP can’t exceed \$1,050, this has long been the most popular scope. Spend a few minutes behind the Argos, and the reasons are clear. The parallax runs down to 10 yards, it’s a 30mm tube with first focal plane (FFP) internals and illuminated reticle all for a real-world price around \$300. If there’s a better deal anywhere, I don’t know what it is. Shortcomings on this one are clarity and low-light ability, but a typical NRL22 match is run late morning or early afternoon, so brightness or lack thereof is never a factor. The Argos BTR works great. If you’re looking to get into precision rimfire shooting on a budget, this is one of three scopes to consider.



If you're a base-class NRL22 shooter, option 2 ...

**04 Vortex Optics Diamondback Tactical 6-24x50**

**\$499; VortexOptics.com**

The Diamondback Tactical from Vortex fills the same need as the Athlon above, but for about \$100 more. That extra Benjamin buys you noticeably clearer glass and a Vortex industry-leading, no-questions-asked warranty. At the NRL22 match I directed in upstate New York, the number-one question I'm asked by new shooters is, "What scope should I get?" My number-one answer is this Vortex. I'm particularly fond of the intuitive EBR-2C (MRAD) reticle, which packs a lot of information into a clean sight picture. It has FFP guts like most modern precision optics, but there's a second focal plane model in 4-12x40mm that some of the "old guns" shooters in my NRL22 club have leaned into. Older eyes can struggle with an FFP reticle like the EBR-2C at low magnification.

If you're a base-class NRL22 shooter, option 3 ...

**05 Bushnell Match Pro 6-24x50 FFP**

**\$449; Bushnell.com**

As the new kid on the block, Bushnell is the new title optics sponsor for NRL22 and much of the marketing push behind that new partnership centers around this scope. The 30mm tube has 18 mils of windage and elevation, so with a 30-MOA rail it makes a fine ELR optic, too, with enough guts to hit with a .22 LR to about 400 yards. The Christmas tree-style Deploy MIL reticle is first rate, if a little busier than the Vortex, with heavier stadia lines that older eyes might like. Much more so than spinning in elevation, NRL22 is a game of running the reticle. My guess is this will be the new dominant base-class tube—and for good reason. The glass has a sharpness to it, and I expect savvy shoppers will soon be able to find them online for less than \$400.

If you want to get into extreme long-range rimfire ...

**06 Vortex Strike Eagle 5-25x56mm FFP**

**\$799; VortexOptics.com**

To call this new optic from Vortex a "budget" or "price point" scope will make a lot of people groan. After all, \$800 is no small sum. But what Vortex has done is pack features found in scopes that cost two and three times as much, making it accessible to the rest of us. For extreme long-range shooting, riflescope tubes have ballooned from 30mm to 34mm, and this new scope from Vortex is the best 34mm optic out there for less than a grand. You're getting good glass, 25x magnification, the famous Vortex warranty and a crazy 31 mils of elevation. With the right rail and some knowhow, you can get on steel with a .22 LR to 500 yards with this sucker. (I did just that recently, with the Strike Eagle riding a 30-MOA rail atop a Zermatt RimX action with a Proof barrel.) Whether for rimfire or centerfire ELR, Vortex is going to sell a pile of these scopes.



If you want the most for the money ...

**07 Athlon Cronus BTR  
4.5-29x56mm FFP**

**\$1,999; AthlonOptics.com**

Don't let the MSRP of this monster scope from Athlon deter you. While the MSRP looks high, it's listed correctly here between \$800 and \$1,600 options. Athlon's business model works something like this: Build a great scope, put a high MSRP on it, slash the price by 40 percent or more online. So, this listed \$1,999 scope can be found in many places for \$1,200 or better. But, enough about money. The Japanese-made Cronus BTR is as good as PRS scopes that cost twice as much. When shopping for "a sky's the limit" optic for a Vudoo Gun Works .22 LR in a JP APAC chassis setup strictly for ELR work, this is what I bought. With the Nightforce ATACR (also listed), it's possible to get more top-end magnification and maybe the best glass on Earth. But is the Nightforce three times better than the Cronus BTR? No way. This is a do-it-all precision rifle scope worthy of the very best rifle builds, and compared to the competition, it'll save you at least a grand in the process.

If you want a long-range hunting scope ...

**08 Maven RS.3 5-30x56mm  
FFP**

**\$1,600; MavenBuilt.com**

Maven built its brand on direct-to-consumer hunting optics with an incredible price-versus-performance ratio. The RS.3 does exactly that, with a high-wattage 30x magnification on the top end in an impressively compact package. (At 13 inches long and 26 ounces, it might be the most compact 30x scope out there.) Because of its size, I put it atop a CZ 457 Premium re-barreled with a stainless Lilja in 17 Mach 2. It's among the best-looking, best-performing snipers of tree squirrels ever created—not that I'm biased or anything. (See, Shea's CZ 457 story on page 58.) This year, Maven introduced a 34mm version of this scope—the RS.4—which does everything this hunter does and more, with the edge on match shooting. They aren't cheap, but on a go-for-broke small-game rimfire rig, they're my favorite option.

If you want the very best-of-the-best long-range optic ...

**09 Nightforce ATACR  
7-35x56mm F1**

**\$3,600; NightforceOptics.com**

Budget be damned. If you're building a custom .22 LR with the likes of a Vudoo, RimX or the Ultimatum Deuce, and you want the very best long-range precision riflescope, this three-year-old ATACR is still it. At the NRL22 Nationals in 2019, five of the top seven open-class winners ran this big beast of the ATACR. (It's equally at home—and was designed for—big centerfire rigs and is a favorite of King of Two Miles shooters.) Yet the parallax on this bad boy spins down to 10 yards, making it as dominant in-close as it is way out. The ATACR line from Nightforce is widely considered the current peak of small arms optics engineering. This is the peak of the peak.



If you want the latest and greatest ...

**10 Nightforce NX8  
2.5-20x50mm F1  
\$1,950; NightforceOptics.com**

This new riflescope from Nightforce represents the bleeding edge of precision optics. The 8x erector allows for that incredible 2.5-20x magnification window, making it the ideal price for a no-concern small-game scope or a compact PRS wonder. And compact it is. With a 30mm tube, the NX8 measures 12 inches long and weighs just 28 ounces. Thanks to the wizards at Nightforce, you're not losing any real elevation in that 30mm tube compared to most larger 34mm scopes. The NX8 has 32 mils of elevation adjustment. There's a first-focal-plane model, the F1, and also a second-focal model, the F2, which older eyes can appreciate. Nightforce made its name by pushing optics innovation forward. The NX8 keeps that tradition alive and well.

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# THE FINE LINE

## Weapon-mounted lasers: Learn to use them to your advantage.

**T**he movie scene is so common that we all let it pass without notice: The entry team goes through the door and into a dark space with multiple laser beams slashing across the interior. The team is here, and they mean business. Sound familiar?

Well, there's actually a lot wrong with that. First of all, the cinematographer has a real headache when the director wants it. Lasers don't show up in clean air. Without something in the air, the laser being projected doesn't "appear" until it strikes the ob-

ject being aimed at, be it bad guy, wall or target. So, in order for the laser to appear for the camera, the space has to be flooded with smoke, dust or such a high humidity level that it isn't so much breathing air as swallowing wet air.

But what about real life?

That's a problem, both in lasers not appearing and lasers "appearing."

The thing to remember, which applies to both lasers and illumination, is that you leave it off until you need it—and you only have it on as long as you need it. Otherwise, you're letting



the whole world know “Here I am.”

Again, let’s consider our movie entry team. They proceed down the hallway, with laser dots dancing on the walls. At the end, someone is lurking in a room, and he or she counts the dots on the wall. How many? Three? Four? Five? They know the exact count of the team and can gauge distance, so when they pop out, they have a distinct advantage. You, doing a quiet sweep of your house because you heard a noise, are doing the same thing if you leave your laser on.

So, don’t.

Learn the switch location and options on your laser. When you need it isn’t the time you want to be consulting the owner’s manual. It sounds simple, but using a laser isn’t as simple as just turning it on and pointing.

It’s also extremely important that you know the law in your jurisdiction. I’ve been reading on a regular basis the discussions and court opinions



on how police use lights and lasers. A bit of historical background: It has been customary for police officers in the past to arrest people by pointing firearms at them. That the person in

question might not have done anything at the moment to justify the use of deadly force didn’t matter.

Not so with those of us non-sworn. (Not “civilian,” but that’s a subject for

(Above) With the laser beam close to the bore line, you can be sure you have less or no problems with close-range parallax.



The best laser location would be right on the bore centerline. Well, we can’t do that, but this comes really close—usefully close, and perhaps even ideally close.

## "Use that laser when the sights aren't easy to use or impossible to see."

another time.) For those not wearing a badge, pointing a firearm at someone is (and pretty much has always been) assault with a deadly weapon.

That you have a light or laser attached to it and you're using it for illumination or intimidation doesn't matter. You're pointing a firearm at someone. You have to know the legal restrictions on such use and the allowed exceptions. Otherwise, you'll find yourself in hot water, having assaulted someone. "But a laser *is* intimidation, and how can I use it without pointing a firearm at someone?" You can't, as long as it's attached to the firearm. So, know the law.

### TACTFUL USE

When do you use a laser? Simply put: When the sights aren't easy to use or impossible to see.

For example, when you're shooting from awkward positions. Let's say, just as an example, you've fallen or been knocked down in the middle of the street. It's dark, and the streetlights may not provide enough light to see your sights. (I know, this seems a bit far-fetched, but you never know when it might happen.) As the buddies of the guy who knocked you down are rushing in, flipping the laser on gives you the point of impact indication you need to then decide if you're in fear of your life and to shoot or not to shoot.

Or, let's say you're in a struggle where your attacker has tried to take your firearm. You won't be able to see the sights, and in the jumble of arms, hands, body checks and bad breath, you might shoot yourself. (Also, a problem when on the ground, and the

bad guys are rushing in.)

This is something that happens in force-on-force, and the paint pellets from sims cartridges hurt when you shoot yourself.

In the struggle or on the ground, if you see a laser on the other guy and not on you, then you know you won't be inadvertently shooting yourself—which is always a good thing.

### MINDFUL MOUNTING

And that leads me to the next detail: mounting. Install a laser on your de-

If I mount on an accessory rail, I want the laser (or light) back from the muzzle. On compact guns, that isn't easy, but on full-sized guns it's a snap.



fensive weapon close to the bore line, as close as you can manage. A friend of mine has spent some time and effort trying to design and fabricate a mounting system to put the laser directly onto the barrel of his AR-15.

His thought is simple and obvious: You can't get much closer than right on the barrel. Alas, heat and vibration create insurmountable problems with the idea. However, you should keep in mind that you want the line of your laser beam to be as close to the bore line as possible. You do this for two reasons.

The first is simple: offset. Just as

the high-position AR-15 sights make long-range easier, they make close-quarter hits more difficult. You have to remember, inside of 25 yards, the trajectory and line-of-sight through the sights can differ by as much as 2½ inches.

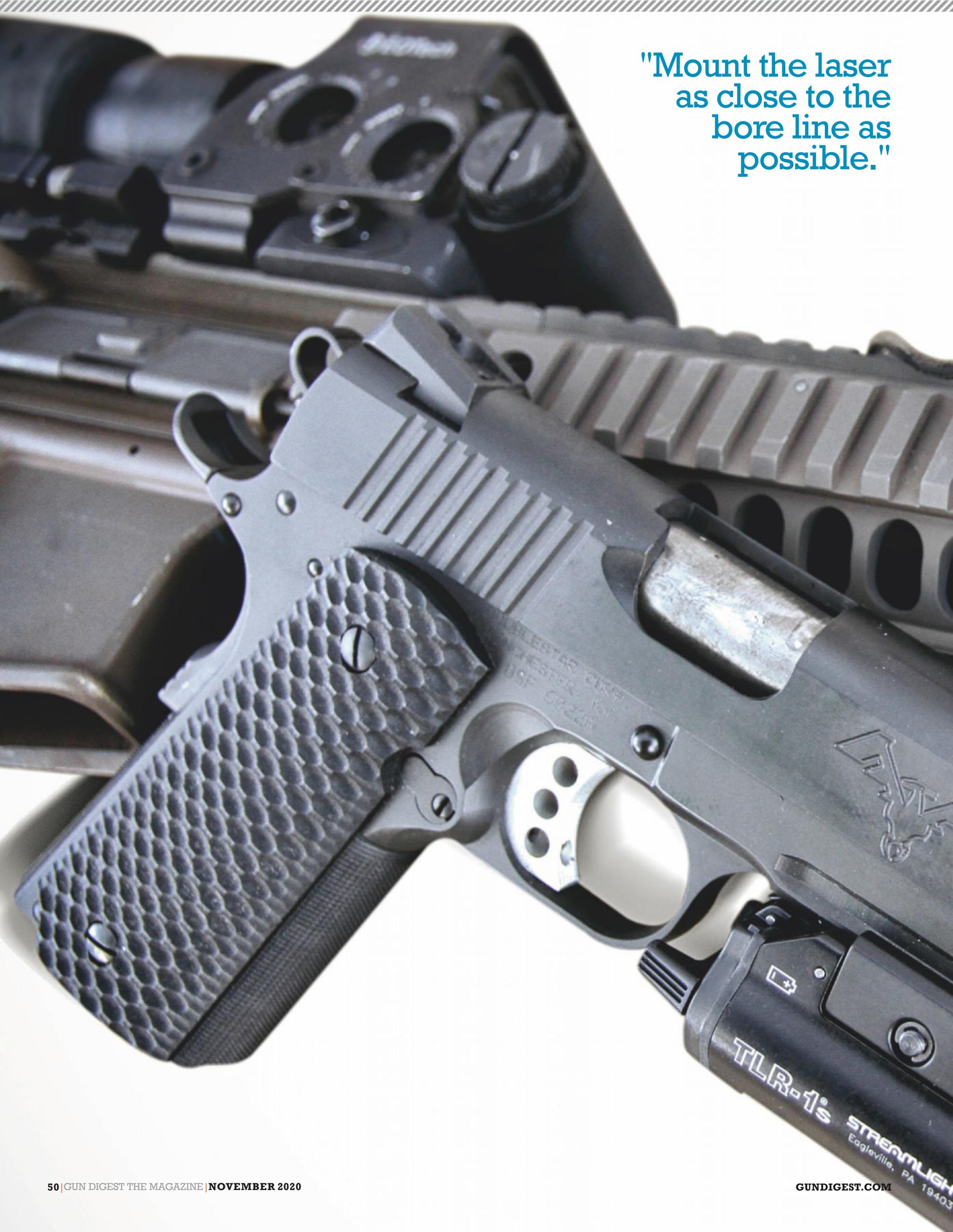
The whole point of a laser is that it's most useful under the most stressful of situations, situations where you might not remember, *oh, that's right, my laser is 3 inches to the left of my bullet trajectory.* That offset is particularly important in the struggle

over a firearm, or the hand-to-hand where a laser is useful. Forgetting the offset and shooting yourself isn't the way to win fights.

The second is that the more off-axis a laser is, the more likely the mount is exposed, sticking out from the firearm, and prone to getting bumped, whacked and banged out of alignment. A laser bumped out of alignment is not only not useful, but it can also be hazardous, as in being in the path of your own bullet we just discussed.

So, on pistols with accessory rails, I like to have the laser back as far from

"Mount the laser as close to the bore line as possible."



---

the muzzle as possible, so it's protected from impact and powder residue. On both pistols and revolvers, I'm particularly fond of the Crimson Trace lasers that are built into the

grips. The laser beam is as close as a revolver can get, and closer on pistols than many of the rail-mounted lasers. Their Lasersaddle mounts for shotguns are particularly good in this regard.

Oh, and on shotguns: Don't believe the "flying cloud of shot" theory of pattern. I've shot too many bowling pins (at 25 feet) and seen others miss, to believe that shotgun spread is useful. You can miss with a shotgun—and miss wildly. You use a shotgun for the power, not the "carpet the zip code"

Lights and lasers need to be close to the bore axis for durability as well as alignment. The further out they are, the more likely they are to get damaged.



pattern spread. The laser tells you where the power will be. Use it.

Adding a laser to your defensive handgun is not a difficult task, neither is learning to effectively use said laser once it's affixed to your defensive weapon. But when it comes to lasers, it's always important to sweat the details. A laser will make you more skilled with a defensive weapon ... but only after you learn how to properly use it. **GDTM**



# MORE THAN JUST TRIGGERS

Top-notch triggers  
from Geissele ...  
and so much more.

As far as gun companies go, Geissele (pronounced “Guy’s-Lee”) Automatics is something of an enigma. They’re a truly mysterious company that, unlike most others, maintains a virtual silence about their in-development products. As a result, the hype comes from actual end use and their products have earned them a reputation of quality unlike almost any other in the industry.

Oddly enough, conversations with a fair number of well-worn gun enthusiasts has allowed me to formulate the conclusion that many storied shooters have yet to realize that the company makes a long list of products that parallel the quality of their well-known triggers.

## TRIGGERS

Geissele makes one of the best triggers on the market. There are, of course, plenty of extremely good manufacturers out there, and most make a truly fine product. However, Geissele triggers are the definition of rugged



and are made for a wide variety of end users and rifles. The company produces triggers not just for the AR-15 and AR-10, but also for the IWI Tavor and X95, HK 416, M4/M16, SCAR, ACR, SIG MPX and MCX and Remington 700. It should be noted that some of these triggers are for select-fire/full-auto rifles, and you should be on point with ensuring you don’t install one illegally.

**Hi-Speed National Match:** This

Four very different guns with four very different purposes, all enhanced with Geissele triggers and parts. Top to bottom: Custom Remington 700 in KRG Chassis, Brownell’s M16A1, BRN180S pistol build and BRN180 carbine. All the parts on these builds with a few notable exceptions, such as the original M16 furniture and X-Caliber custom barrel, can be found at Brownells if you want to take a swing at building something in the photos.

is an expensive trigger. It's also my favorite trigger the company makes. It currently resides proudly in my Brownells retro M16A1 replica. I put a great deal of time into that rifle, and it wears authentic Vietnam-era furniture, dated circa 1967 to 1969. I also got my hands on a real-deal deployed sling from the collection of a late vet I knew when I was younger. He slung his own M16A1 with it during Tet, or so he told me.

This trigger is fully adjustable but must be set to a specific pull weight for use in matches. I have mine set to a 4.5-pound pull with a light first stage. If you haven't shot much with an original or replica 20-inch rifle with a rifle buffer tube, you have no idea just how smooth an AR can be. Carbines today cycle rough by comparison. I sometimes feel like I'm pulling up in a restored classic car when the old timers at the range get their hands on the build.

The Hi Speed National Match trigger is a luxury item designed for rugged use. Here it resides in a Brownells M16A1 replica with original Vietnam-era furniture.

The Super Sabra trigger is a must-have upgrade for the IWI X95 and Tavor SAR compared to the heavy and mushy factory trigger.



**Super Dynamic Combat (SD-C):** Not only is this trigger cool looking with a straight face, but it's also extremely functional in that it provides a wide, completely flat frontal surface

The flat face of the SD-C trigger lends itself to compact rifles and pistol builds. The Geissele dogleg safety adds class and function. Not visible on this build is the Maritime Bolt Catch.

Irons are sometimes bypassed on modern carbines, but sometimes it's better to have them and not need them than, well, you know. Geissele sights are tough and provide a great sight picture while looking super cool at the same time.





The Super 700 trigger is set lower in the trigger guard than traditional options. This is especially nice considering that most competition rifles have vertical grips and thumb rests to facilitate the modern match style in common use. You can keep your hand straighter and pull directly back with this style of bow.

area. This feature provides a sense of equal leverage despite gloves or finger placement. The version I have is a two-stage.

Where this trigger shines is in the pistol/SBR role. I have it installed in my Brownells BRN180S pistol build with a 10.5-inch barrel. This trigger may, in fact, be the best available for a small build in that it offers a very consistent break in a light gun. Pistol builds and SBRs often struggle in precision due to light system weight and compact grips and stocks. This trigger alleviates these symptoms and allows for excellent precision despite hand placement.

**Super 700:** This release came as a surprise to many, but it's really an inevitability considering that the Remington 700 is probably the most common base for precision rifles in our recent history. The marriage of Geissele and the Remington 700 is a happy one.

The trigger addresses a few shortcomings in other triggers out there. For one, it's externally adjustable through the trigger guard. Many competitors require the removal of the action from the stock to access the ad-

justment screws. The Super 700 can be adjusted while it's installed in the rifle, even at the range.

**Geissele 2 Stage (G2S):** This is the closest you'll get to a "budget" trigger and still have the "G" on it. I have this trigger installed in a full Brownells BRN180 rifle build with the special HK-style lower available on a limited basis. My own BRN180 rifle is decked out with Geissele parts; it handles and shoots like a dream. It's probably the best DIY rifle you can put together today with all the benefits of the SCAR, ACR and other like platforms, but at a fraction of the cost. The G2S trigger is perfect for the build and provides a reliable and crisp two-stage pull. It

Geissele scope mounts are serialized to each ring to ensure maximum precision.



breaks clean and is well suited to mid-range carbines. If you want to upgrade your stock carbine with a real and tangible step up, this is a perfect place to start.

**Tavor/X95 Super Sabra Trigger Pack and Bow:** I wasn't a huge fan of the X95's trigger. The rifle handled poorly as a result. The Super Sabra blows the stock unit out of the water—it changed the rifle completely. I have no idea why IWI doesn't contract Geissele to put on of these in every one of their rifles—it's a night-and-day difference.

### BEYOND TRIGGERS

While known for their triggers,



## THE AUTHOR'S GEISSELE WISH LIST

I'd love to see a handguard for the BRN180 series. The platform is growing to be quite popular as an AR alternative, and it would be great to see a variant of the Super Modular Rail in this role. I've also come to appreciate the quality of optics and would want a bigger Super Precision scope in the 10X range with the same covered turrets. It'd be very practical. In addition to those, it would be cool to see some flash hiders and perhaps a set of accessories for the Rem 700, such as a scope rail and some more trigger options.





The mounting clamp contains lugs that index on the rail to ensure it's completely repeatable on any rail.

Geissele makes a full line of other products, including complete rifles. Not everyone knows this—most react like it's some sort of secret that the Big G makes optics and mounts, handguards, safety levers, trigger guards, bolt carrier groups, bolt stops, buffer tubes, springs, buffers and so on. They're all fantastic.

**Super Precision 1-6x 30mm**

**Scope:** I've beaten this scope, and it has proven more rugged than almost any other in its size and price range. I ran the grueling Wolverine 5K with this optic on my carbine, and it survived tremendous abuse in that competition alone. Not only has the finish held up, but it has held zero the entire time. It's a second focal plane optic; however, I leave it at 6X most of the time to take advantage of the mil reticle. The optic features an illuminated dot in the reticle, which is great at 1X in competition. At 6X, it occupies a DMR role and can be used quickly and effectively on holdover alone.

The rifle I have it on is the Remington 700 with KRG chassis in this article. It also has the Super 700 trigger. This build is chambered for 6.5 CM and is set up to be an extremely portable precision rifle. I built this rifle with special input from some MARSOC and Delta guys I know as a concept to test out the idea of a tight confines sniper rifle ideally suited for 120-grain bullets out to 3/4 mile. Using Hornady 120-grain ELD bullets at 2,800 fps, the rifle performs better than a 175-grain M118LR .308 Winchester out of an M40A3 rifle with a 24-inch barrel! It beats it by an entire mil of drop at 1,000 yards.

Why is any of that important as far as the scope is concerned? Well, using 120-grain bullets and a Geissele scope, it's able to go to 880 yards (1/2 mile) with a 100-yard zero and holdover alone in the reticle. If you think 6X is too little at 800 yards, you should try it first. The speed of engagement is incredibly fast.

**Super Precision Optics Mounts:** I have a couple of these mounts and used them on a variety of rifles from .22LR to .338 Lapua—and literally swapped them directly from rifle to rifle. I write down the zero and click it in, and, sure enough, it's right there as if it had never been removed in the first place. The mounts are of the highest quality and even have ring caps serial numbered to the individual ring. They're very serious about how repeatable these mounts are.

**Handguards:** The AR market is saturated with handguards, but none are as rigid or as strong as the Geissele variants. I've used versions of the handguard for years now and can say that they're the standard of quality the entire industry should aspire to. Why do I say this? The most demanding shooters trust them, and they're considered the standard for the National Matches.

Additionally, I love the MK8 M-lok rail as well. It's a much lighter rail, suitable for general-purpose use, and comes in a variety of lengths. I found it most useful in the 15-inch configuration.

**Small Parts Galore:** As evidenced in the photos, Geissele makes a number of small parts to enhance your rifle. Among the hidden ones are the Super



Geissele optics, mount, and trigger adorn this custom-built Model 700 in a KRG Whiskey 3 chassis.



42 spring and buffer. They're made of a tri-wire twist and take after the German MG42 machine gun, nicknamed Hitler's Buzzsaw. This terrifying Nazi weapon had a firing rate so fast it sounded like a great sheet being ripped in half! The Geissele variant provides the same technology to last tens of thousands of rounds without losing strength.

The guns in this article, with the exception of the Remington 700, all make use of Geissele lower parts kits. The BRN180S has a Geissele Maritime Bolt Catch and a Super Configurable Safety with dogleg levers. These are great additions to any carbine build and are basically fumble-proof.

The BRN-180 rifle build has a Geissele buffer tube in DDE color, Geissele iron sights and a Geissele trigger guard to match the buffer tube. Both BRN180 builds make use of Geissele M-LOK rail covers. They're textured and provide excellent traction when shooting with sweaty or cold hands.

When Geissele parts run throughout the rifle, so does the quality. **GDTM**



Geissele handguards are the strongest on the market as far as how they mount to the rifle. They're a standard for the National Matches.

## UPPER RECEIVER GROUP, IMPROVED

The powerful M855A1 5.56x45mm ammunition demanded an upgraded upper to handle its increased pressure. The Geissele USASOC URG-I upper was developed as a result, and it's, in fact, available to the public as a near-clone with only a few minor differences. If you want something as close to what our elite fighters carry as you can get, this is your upper.



The author's pet project, a tree squirrel rifle that started as a 457 Primer sporter, with the barrel channel hogged out for a Lilja .17 HM2 tube, the action bedded and the whole thing topped with a high-power Maven RS.5. This rifle has stoned bushy tails with headshots out to 80 yards.



The CZ 457 lineup of bolt-action rimfire rifles has a dedicated cadre of fans. Spend anytime behind one on the match line or in the squirrel woods, and it's easy to see why. For those in the know, CZ remains the unquestioned best value in rimfire shooting. Simply put: You just get more for your money with CZ. To fully understand why, it's best to consider the history.

The earliest Czech firearms can be traced back to the 1370s, but like so much of modern European manufacturing, the most relevant threads spin out of Nazi Germany and the political fallout of World War II.

In October 1918, the Czech and Slovak people declared their independence from the Austro-Hungarian Empire and established the new state of Czechoslovakia. The new government created the national Československá Zbrojovka, or "Czechoslovakian Armory," in the city of Brno.

After the Treaty of Versailles disarmed Germany, Československá Zbrojovka and Zbrojovka Brno, or the "Weapons Factory of Brno," began production of Mauser and Mannlicher rifles. In the mid 1920s, a new

factory in Brno brought automobile production lines under roof, as well as expanded bolt gun and machine gun production. In the 1930s, it diversified further with Remington-licensed typewriters and tractors.

In 1936, Adolf Hitler openly rejected the terms of Versailles with the remilitarization of western Germany along the French border. As the specter of war reemerged on the continent, Československá Zbrojovka opened a new weapons factory in Uherský Brod in eastern Czechoslovakia—far away from the German border. Early production focused on military arms, particularly aircraft machine guns, military pistols and small-bore rifles. Two years later, the Nazis annexed the Czech-controlled Sudetenland, before pushing into historically Czech lands in March 1939. With the Czechoslovakian government in exile, the Germans took the territory, managed under various sham governments, but all as part of the Third Reich.

At the end of the war, when the victorious Allies divided Europe, the Czech and Slovak people landed in Soviet hands. Czechoslovakia, along with their highly regarded manufacturing facilities Zbrojovka Brno and Uherský Brod, went Communist.

The Wehrmacht and the Com-



munists both wanted a quality .22 LR military training rifle, an inexpensive, mass-produced firearm to train marksmanship on the cheap. In 1943 or 1944, at the request of the occupying Germans, Zbrojovka Brno developed what became known as the BRNO Model 1. In 1947, the Model 1 was mass produced for export, and, in 1954, a parallel model was released, as the BRNO Model 2, stamped ZKM-452—an acronym for Zbrojovka (for the national arsenal), Koucký (for the rifle's designer, Josef Koucký) and Malorážka (literally "small arms" in Czech).

Zbrojovka Brno was destroyed by Allied bombing at the end of the war, and most Česká Zbrojovka arms production continued on at Uherský Brod, known now by its initials CZUB. The communist Ministry of Foreign Trade and Czechoslovak Proof Authority



# THE BEST DEAL IN RIMFIRE

How CZ has become the darling of rimfire shooters.

soon after decided any rifle built for export would bear the name Brno, as it had greater international name recognition. (Zbrojovka Brno was rebuilt, and continued to make their own BRNO rifles into the 1970s.) In 1989, after the Velvet Revolution, the one-party communist system collapsed, and, in 1993, Czechoslovakia amicably split into two countries, the Czech Republic and Slovakia.

During that political transition from Communism to Democracy—and one country to two—CZUB was privatized. Over the decades, the Uherský Brod facility has expanded with the factory walls built out to the city streets on all sides. Today, it's the largest small arms facility in the world, as measured by square footage under roof, and it em-

loys more than 1,800 people.

In 1997, the subsidiary CZ-USA was established to import small arms into the U.S. BRNO Model rifles, widely known for their accuracy and affordability, had trickled into the U.S. through the 1960s, '70s and '80s, under various exporter/importer agreements, but with CZ-USA the front door blew open—and soon came wide availability of the CZ 452.

#### **OLD SCHOOL: THE MODEL 2 TO THE 452**

Compared to the Model 1, the Model

2 had a rear sliding tangent sight marked off from 25 to 200 meters. (For collectors, this is the fastest way to identify them.) The Model 2 also came with an improved Winchester Model 70-style trigger, vent holes in the bolt, a narrower crescent-shaped ejection port and a Mauser-like perpendicular top safety. There were various other BRNO rimfire models (Model 2E, 3, 3S, etc.), but the Model 2 in its true

“military trainer” style was by far the most produced. CZ keeps production numbers close to their chest, but collectors believe about 140,000 Model 2s were produced, compared to around 7,000 of the target-specific Model 3, for example.

The cold hammer-forged carbon steel barrels were central to the success of these early rifles—a process still used in part today. It began by “seasoning” the steel, leaving it outside and exposed to the elements for at least one year—forcing the metal through several natural freeze/thaw cycles.

“It’s a little science and a lot of tradition,” says Zachary Hein, marketing communications manager for CZ-USA, who traveled to the BRNO workshop to watch the 452 Grand Finale rifles built on the original machines, with this original process. Barrels were sourced from the Uherský Brod factory, where the blanks were being drilled with a bore

diameter greater than .22 RF and are then fed into a cold hammer forge, a machine which Hein says is about “the size of a semi tractor.” The barrel steel is drawn over a .22 RF mandrel as the forge’s giant circular hammer slams down around it, molding the rifling into the barrel by brute force.

After that, barrels were lapped and threaded at the tenon, except in the case of the .17 HM2 rifles where the barrels were pinned to the receiver. Headspacing was done by feel. “They screwed the barrel onto the receiver, then the builders physically used their hip—literally, they put their body weight into the breaker bar to make sure it was tight,” Hein remembers. “It was incredibly old school, but that’s the way they used to build them.”

On gun store shelves, consumers couldn’t spot the old-world build techniques. What set the 452s apart from so many other .22s was the wood. In the 1990s and early 2000s, many rifles,

especially inexpensive rifles, moved away from walnut and into polymer and synthetic stocks. CZ shelved a few synthetics, but the company never slowed down on more classic styles in American and Turkish walnut, and less expensive models in beechwood.

The stock lines and handling of many of their designs were true sporters—nimble and quick-pointing. Some of the walnut even had excellent figuring, which no one expects from a \$500 rifle. CZ fans refer to these specimens as “hitting the wood lottery.” Even today, order a walnut-stocked CZ and you might get one commiserate with the price, or you might get something many degrees nicer.

The Model 2/452 design ran in regular production from 1954 to 2011, when CZ updated the design with 455. There was also briefly a 453 with a French-style set trig-

The underside view of the 457 receiver shows the two grub screws that index and secure the barrel. Unscrew and the barrel can be swapped out easily.



The author’s pet project, a CZ 457 Primer with a Lilja 455 .17 HM2 stainless barrel. Note that 455 and 457 barrels and receivers are interchangeable.



ger. Die-hard 452 fans collectively groaned when the rifle was discontinued—replaced really, with the switch barrel 455—so CZ-USA spearheaded a final run of 452 Grand Finale edition rifles as a final goodbye. It's a premium build with a walnut and ebony stock, hand-engraved metalwork and a jeweled bolt. A fitting end for a design that was birthed in conflict, that outlived communism and which found widespread success in the land of the free and the home of the brave.

### NEW SCHOOL: THE 455 & 457

It's not easy to own a gun in Europe. This is why switch-barrel rifles, where the shooter can swap various caliber barrels—and multi-barreled firearms, like drillings—are so popular across the pond. Legally, it's one gun.

When the Czechs planned the updated 455 with a switch barrel, the Americans at CZ-USA enthusiastically supported it. "From the start, we wanted to build of a culture promoting and encouraging modularity and aftermarket support," Hein said. "When they talked up the new design, we were like, *Heck yeah!* We looked at it like the AR-15 model."

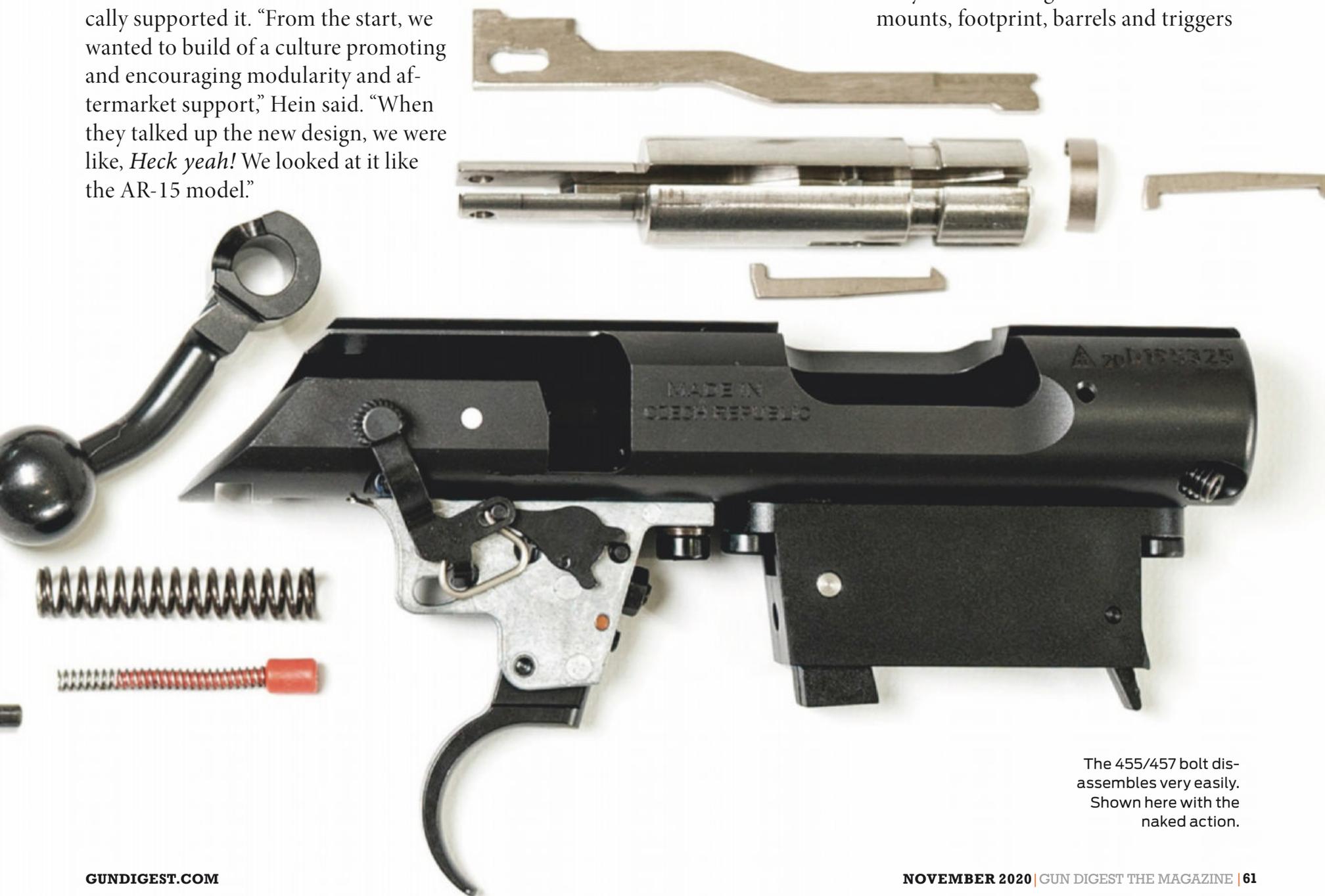


The 457 receiver, bolt and trigger assembly can be housed in a wide variety of aftermarket stocks and chassis.

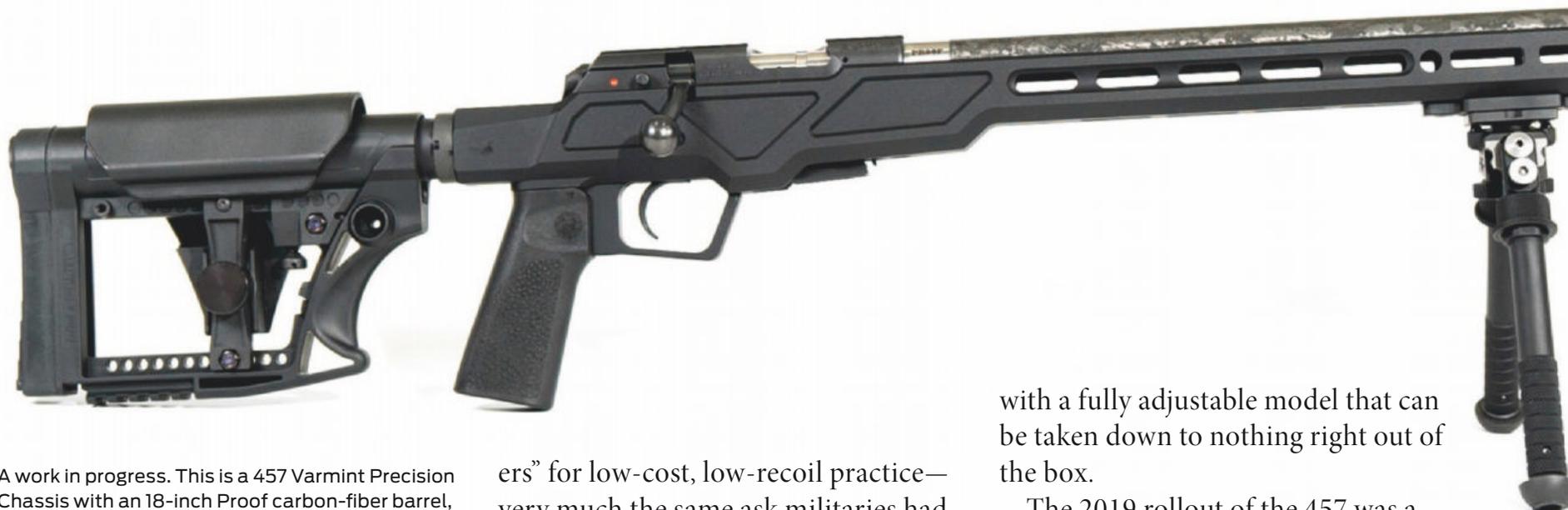
With the 452, different calibers had different bottom metals and different stock inlets. With the 455, that was all standardized. The machinery that

made the new receivers was upgraded, too. While the 452 was a milled receiver, the 455 was cut on a CNC to much tighter tolerances.

By standardizing the receiver mounts, footprint, barrels and triggers



The 455/457 bolt disassembles very easily. Shown here with the naked action.



A work in progress. This is a 457 Varmint Precision Chassis with an 18-inch Proof carbon-fiber barrel, sitting on an Atlas PSR bipod. With a better buttstock and good scope, it'll compete with custom .22s that cost twice as much.

across the lineup, it created a kind of swapability and aftermarket of custom options in the rimfire world only seen with Ruger's 10/22. But this was a bolt gun. A parent could buy their kid a CZ 455 Scout, with a short iron-sighted barrel and youth-sized stock, and swap it for a full-sized stock with longer barrel and optics as the child grew up. Or, more likely, a serious rifle shooter could build a full-sized .22 LR that replicated the look and feel of their centerfire precision rifle.

As the 455s came into the U.S. in late 2010 and early 2011, CZ-USA cultivated this idea of a serious .22 LR for a serious shooter. They partnered with Boyd's and rolled out a model in "Tacticool" stock (now called the Pro Varmint) with a tactical-inspired vertical grip, raised Monte Carlo cheek piece and a butt hook for shooting off bags. All of a sudden, there was a "sniper style" .22 LR on the market for around \$500. Chambered in .17 HMR, it quickly proved an excellent and affordable varmint rig to about 300 yards.

CZ also partnered with fellow Kansas City business, Manners Composite Stocks, and rolled out the CZ 455 Varmint Precision Trainer in .22 LR. As long-range PRS-style shooting skyrocketed in popularity, competition rifle shooters started asking for "train-

ers" for low-cost, low-recoil practice—very much the same ask militaries had in World War II and the postwar years.

Fundamentals of hitting what you aim at don't change, whether it's a .22 LR or .416 Barrett. With the 457 Varmint Precision Trainer, guys running a 6.5 Creedmoor in a Manners at a weekend match now had a weekday trainer that could safely spit .22 LR's at steel targets off the back deck. Make those steel targets 1 inch or smaller, and all of a sudden, it's possible to drill positional shooting like kneeling, sitting or shooting off a barricade at 25 or 50 yards—skills that translate 100 percent when shooting larger calibers at long distances.

The 455 was a huge success, but there were many things that the European design didn't get 100 percent correct for an American market. These were largely corrected in the 2019 update, the 457. The stamped bottom metal was swapped out for a sculpted two-piece system. A push-to-fire safety was installed, instead of the "backward" European version on the 455 and its many predecessors. The bolt rotation was tweaked from 90 degrees to 60, so big scopes can be mounted lower, and the action can be run faster with one hand while in firing position.

CZ also lightened the firing pin for faster strikes, and cut almost an inch off the overall action length, and slab sided it to make it as trim and lightweight as possible. The ho-hum 455 trigger, which needed aftermarket springs to really sing, was replaced

with a fully adjustable model that can be taken down to nothing right out of the box.

The 2019 rollout of the 457 was a big deal in the rimfire world, with nine models ranging from a new Manners-stocked Varmint Precision Trainer to the traditional sporter American and the youth Scout. This year, it was updated with a 457 Varmint Precision Chassis model, in a CZ-USA-designed billet aluminum chassis with a Luth AR buttstock, and a very European hogsback 457 Jaguar with a 28.5-inch iron-sighted barrel. But what really set the 455—and now the 457—apart, was that thriving aftermarket. It was possible now to not only buy a high-quality, affordable and accurate .22 LR bolt-action, but also to take that rifle and really make it your own.

#### THE BEST VALUE IN RIMFIRE

When it comes to rimfire rifles, there are generally two schools of thought in the U.S. The first I consider the Savage model—make a rifle that shoots great, and is affordable, with a great price-versus-performance ratio. The second is the Ruger model—make a rifle that's affordable, and modular, then support and encourage an aftermarket.

CZ's straddles these two schools of thought. On the one hand, a CZ 457 American Combo with a .22 LR and .17 HMR barrel set can be found online for \$420. They shoot incredibly well right out of the box. Half-inch groups at 50 yards should be expected from the entire 457 lineup. But for a tinkerer who wants to work their rifle

# THE CZ LINEUP



457 AMERICAN

01

01. The CZ 457 American represents incredible value. It's a walnut-stocked small game and plinking rifle with enough raw accuracy to compete in a precision rimfire event.



455 PRECISION TRAINER

02

02. The CZ 457 Varmint Precision Trainer took the ideal .22 LR training rifle and made it mainstream. CZ was the first major manufacturer to get behind what's now the hottest thing in rimfire, if not all of rifle shooting.



455 TACTICOOOL

03

03. The CZ 455 Tacticool represented a mind shift.

04. A representative CZ 452. This is a model with an American-style walnut stock and heavy-contoured barrel.



452 VARMINT

04

05. The newest 457 in the line, the Varmint Precision Chassis is focused 100 percent on precision rimfire competition, like NRL22.



457 PRECISION CHASSIS

05

to the next level, the 457 platform makes that possible.

There are stock and chassis options from all the great builders, like Manners, MDT and Masterpiece Arms. There are barrels from Proof and Lilja, among others. (I've topped a CZ Varmint Precision Chassis with a Proof that's among my go-to NRL22 rigs. My new squirrel gun of choice is a 457 with a limited run Lilja .17 HM2 stainless tube and Maven RS.3 optic.) There's trigger springs and kits from YoDave and BScar. From muzzle to butt pad, there's options to make the CZ more accurate and make it your own.

Or you can take it straight from the box, never touch it, and still have an excellent rifle.

The current vogue in precision rimfire is Remington 700 everything. Voodoo, RimX, Bergara and Ultimatum all have near custom-level .22 LR actions that fit a R700 footprint, opening

the wide world of aftermarket Remington stocks, triggers and accessories to smallbore. The same can't be said of the 457, but what the CZ has where the others fail is performance at a price point most shooters can get behind. It's a good rifle as sold, but can expand as a shooter's interest does. This should not be understated.

There's also something to be said for *not* having an oversized ACIS pattern magazine that Voodoo invented, and we're now seeing in RimX, Bergara and other rifles. Like fellow European Anschütz, the .22 LR magazines from CZ just work. You don't have to pay special attention to how you load them: They feed well, they don't often mar bullets,

they're inexpensive and, from a pure rimfire shooter perspective, they're not clunky.

I run a small monthly NRL22 match, and the question I'm always asked by new shooters is, "What rifle should I get?" I send them what's become a form email, linked out to a few different write-ups, with options ranging from \$330 to well over \$1,000. Nine times out of 10, these new shooters come back with a CZ. Why? Because when you do your homework, there isn't a better deal in bolt-action rimfire rifles. There are more expensive rifles. There are more accurate rifles. But with CZ, you get every nickel worth ... and then some. **GDTM**

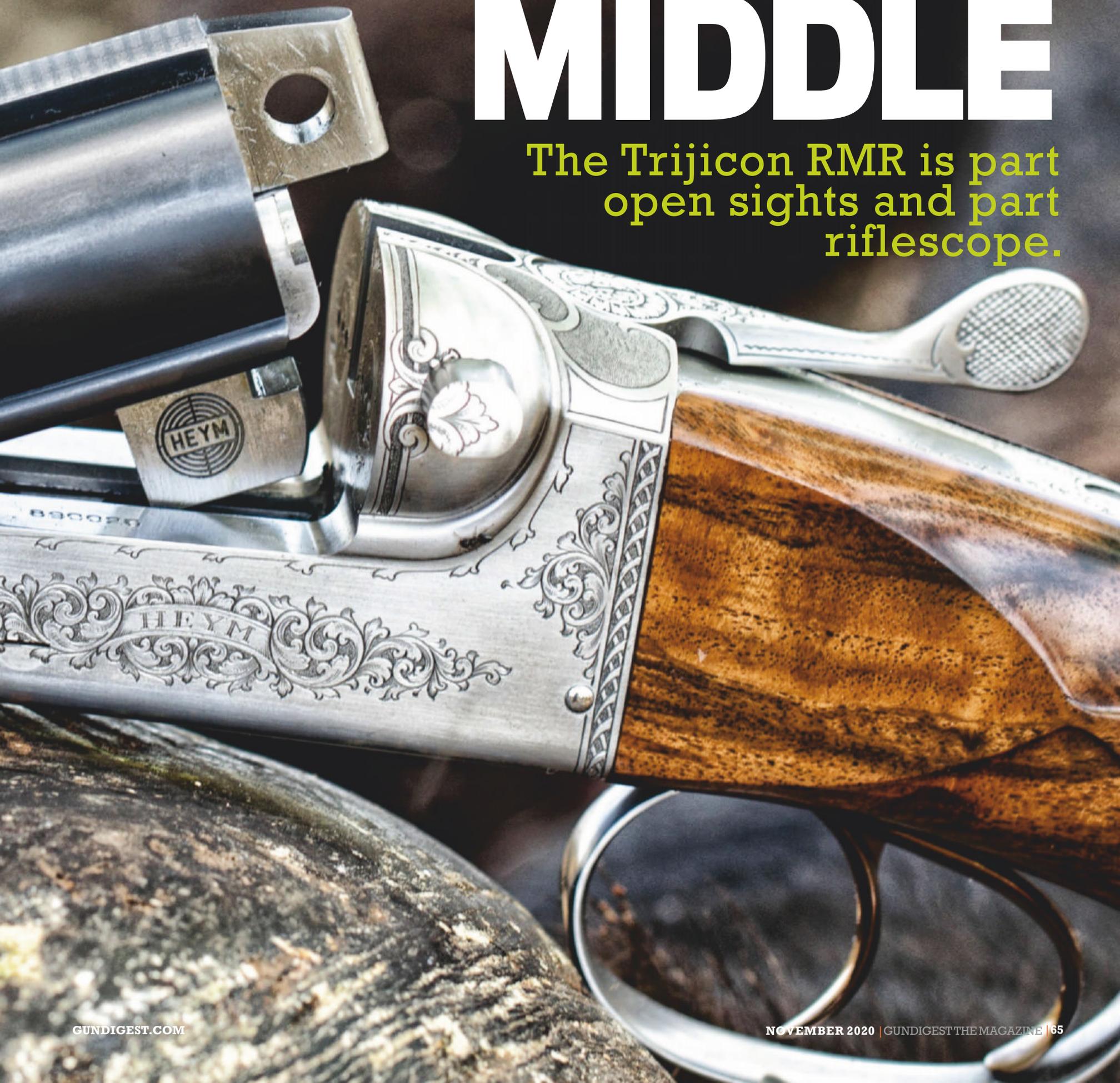


A Trijicon RMR atop a Heym Model 89B in .450-400 3-inch Nitro Express. The little red dot extends the effective range of the double rifle.



# SOMEWHERE IN THE MIDDLE

The Trijicon RMR is part  
open sights and part  
riflescope.



Since the invention of the firearm, man has tried his best to develop a system for aiming the gun easily and accurately. There are a number of solutions, though none of them are absolutely perfect.

The simplest designs evolved into the two-piece iron sights we're all so familiar with. While that system certainly has a ton of applications, it's handicapped by the user's ability to focus both the target and the sights. As humans age, our eyes lose the ability to focus on tiny objects, especially up close. It will happen.

On a defensive handgun, the mantra of "front sight-focus" is a glaring example of the obstacles encountered when using iron sights. Because of the difficulty of quickly focusing on both the target and the front sight, shooters train to use a grip and stance that best allows the sights to be aligned under stress.

A rifle, under most circumstances, must be much more carefully aimed. Using a peep sight at the rear of a rifle will increase the sighting radius and also allow the eye to naturally center the front sight in the circle, removing one part of the iron-sight equation. Still, we're married to the diameter of the front bead on a rifle, and sometimes that bead can be as much as 10 or more MOA. That'll cover a pie plate at 100 yards and a garbage can lid at 200 yards, and while the famous 6 o'clock hold gives some relief, there's still a bunch of your target covered up when the distances get longer.

A telescopic sight—our common riflescope—has certainly come a long way in recent years. The scope does some wonderful things, including magnifying the target and putting the reticle and target on the same focal plane. In certain instances, however, the tunnel vision of even the lowest power scopes can be a hindrance, especially on dangerous game at close quarters.

The debate has long raged among both dangerous game hunters and professional hunters between low-powered scopes and iron sights. While the scope solves the focus issue, it can affect the balance of a quick-pointing



(Above) A good low-power riflescope, like the 2.5x Leupold on the author's .404 Jeffery, offers the ability to make longer shots while keeping the reticle and target on the same focal plane ... but it gives tunnel vision when things get close.

dangerous game rifle. I was looking for a solution somewhere in the middle ... providing the balance and lightning-fast target acquisition of an iron-sighted rifle, yet with the single-focal plane of the scope—without the tunnel vision.

Here's news for ya: Reflex sights aren't just for pistols.

My particular favorite is the Trijicon RMR (Ruggedized Miniature Reflex) sight. I'll also shamelessly get this out of the way up front: When Trijicon includes the word "rugged" in the product name, they mean it.

#### IN THE FIELD, DOWN UNDER

I found myself halfway around the globe, in a truly remote part of Australia's Northern Territory, with Heym USA's Chris Sells and professional hunter Graham Williams, with a fantastic Heym Model 89B double rifle in .470 Nitro Express over my shoulder. We were hunting Asiatic water buffalo, a species introduced to the Australian continent in the early 19th century and classified as invasive.

The .470, while equipped with good iron sights, wore a Trijicon RM09 with a 1-MOA red-dot and was sighted to be dead-on at 100 yards. Water buffalo are where they are, and while they're not as switched-on as Cape buffalo—probably due to a lack of predators—they're huge animals, with a big bull



(Top) The 140-degree "V" rear sight of the Heym 89B. While one of the most pleasant iron sights to use, it still requires focusing multiple planes.

(Above) The front sight is a fine bead, yet this style sight runs between 10 and 12 MOA, compared to the Trijicon's 1-MOA dot.

(Below) Front left view of the RMR, showing the coated front lens and soft button to increase intensity.



(Right) The RMR shown with the Picatinny rail mount, making a very versatile little sight.



Right rear view (below) and right front view (left) of the RMR, showing the windage and elevation adjustments, and soft button to decrease the dot's intensity.



weighing in over a ton. The terrain in that part of Australia ranges from brushy thickets to open meadows and gully ridden lowlands, and buffalo were everywhere.

We'd spotted what would become my bull while skirting the edge of a small drainage; they were lying down about a quarter-mile up the slope, thinking about whatever buffalo think about. Graham and I made a plan to use what little cover we had to get within range of this handsome buffalo. Our plan

worked—perhaps a little too well.

We ducked behind a slight hump in the topography, and working from tree to tree, we used the wind perfectly to get within 50 yards of the bull. Thinking we'd pull up and take the shot, I was a bit astounded when Graham motioned for me to follow, getting even closer. At a mere 17 paces, the bull became aware of us and gained his feet when Graham gave the order to shoot.

The double came to shoulder fluidly,

and with both eyes open, I put the red dot just behind his shoulder as he whirled. The right barrel slowed him, and the left barrel saw him pause to gather strength; two more 500-grain North Fork solids sealed the deal. The rifle behaved much like a shotgun, with the Trijicon unit requiring very little thought—it worked naturally, the shots going exactly where the dot indicated.

Two days later, I'd hand the Heym double over to Chris, and he'd use that same rig to take an equally impressive



The Ruggedized Miniature Reflex sight (RMR) can also be a handy choice for a lethal turkey gun.

bull at over 125 yards, giving a clinic on how to shoot a double rifle. His bull took the first shot just below the point of the shoulder, and he delivered a second about 4 inches away from the first while the bull was running. The grinning Chris was the first to admit he might not have made those shots in the same manner with the traditional iron sights on the rifle.

#### LITTLE DETAILS

The Trijicon RMR has been updated to what they call the Type 2, which has a beefier electronics system and weighs a mere 1.2 ounces, making it perfect for maintaining the balance of any firearm.

You'll need a mounting solution for whatever gun you're pairing it with. In the case of the Heym 89B, there's an aluminum adapter that mounts to the

rib and is held in place with a thumb-wheel. Trijicon has models that mount to a Picatinny rail and other popular systems, and the footprint of the Type 2 is identical to the original. At just under 2 inches long and an inch high and wide, it doesn't obscure the shooter's view and is mounted low enough to the bore that cheek weld isn't lost.

Three choices of dot sizes are available: 1 MOA, 3.25 MOA and 6 MOA. Quite obviously the larger the dot, the faster it can be acquired, and the 3.25 and 6 MOA dots make perfect sense for any close-quarters firearm. The 1 MOA model is a perfect choice for a hunting rifle. Covering just 1 inch at 100 yards, this sight is ideal for the rifleman who likes the visual freedom of iron sights yet prefers the single-focal plane view. Shots can be placed as precisely as the shooter can hold the

rifle, and even when looking into the sunrise or sunset, the dot is bold and visible.

The dot of the RM09 I used and tested was adjustable for intensity with soft-touch buttons. Hold both buttons down to power off the unit. The adjustments are 1 MOA, with graduations on the dial, and clicks for each increment. When I was doing the load development for my Heym .470 double, the Trijicon was quickly zeroed and the adjustments I needed were as accurate as I could ask for. Having the RMR on board for the load development work saved ammunition and my shoulder—I knew the shots were placed properly.

The RMR's lens is fully coated for minimal color shift in the window, and I experienced no issues when using the unit in bright sun, nor when

Trijicon's RMR works equally well on a handgun, alleviating focal issues.



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holding on a black buffalo's shoulder in the dappled sunlight. Trijicon indicates that the unit is waterproof to 20m depth. A single CR2032 lithium battery runs the unit; if you leave it untouched for 16½ hours, the illumination level automatically goes back to ambient lighting conditions. I wish I could tell you how long the battery lasts, but I haven't yet reached the end of this battery's life. The battery contacts have been designed to work in the most inclement conditions, and I've never experienced any loss of power, with either the original model or the Type 2.

Trijicon offers a limited lifetime warranty, stating that the electronics are warranted for 5 years from date of manufacture. Having used this sight in Australia, Mozambique and here in the States—on rifles with serious recoil—I can say that the RMR is rock solid. While the slamming action of a 1911 can be tortuous on any piece of electronics, I'd wager it pales in comparison to a pair of rapid shots from a .470 Nitro Express, with each shot generating over 5,000 ft-lb of energy.

In addition to black, the RMR is

(Above) The Trijicon RMR might not have the classic look on a double rifle, but at less than 2 ounces, it doesn't upset the rifle's balance and handling like a scope will.

The Trijicon RMR runs on a single CR2032 battery and lasts for quite some time.

available in a dark flat earth Cerakote finish and a sniper gray Cerakote finish. Depending on options, the list price runs between \$699 and \$749, with street prices running between \$550 and \$650, not counting the necessary mounting adapter.

While there are those who might feel that even the tiny Trijicon sight will



be foul the classic lines of a fine double rifle or sleek lever gun, the increase in accuracy ought to sway that opinion. Plus, the RMR is quickly removed from nearly any mounting situation, easily restoring the gun's silhouette. Should you have the opportunity to try a rifle with an RMR on top of it, I'd wager you'll become a fan. **GDTM**





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## SHOWDEX

Listings are grouped according to state. Bold headlines show the name of all states in which gun shows have been reported to us. These headlines are arranged according to the full spelling of state names. Under each headline, shows scheduled for a particular state are listed by date, postal abbreviation, city, and site. For more information, see our regular SHOW LISTINGS section.

### ALABAMA

Nov 28-29 AL, Birmingham. Gun & Knife Show. Civic Center, 2100 Richard Arrington, Jr Blvd.

### ARKANSAS

Oct 31-Nov 1 AR, Conway. Gun Show. Expo Center, 2505 East Oak St.

### CALIFORNIA

Nov 21-22 CA, Lodi. Lodi Gun Show. Lodi Grape Festival Grounds, 413 E. Lockeford Street.

### FLORIDA

Nov 21-22 FL, Ft. Myers. Civil War, Gun, Knife, Military Show. Araba Shrine Temple, 2010 Hanson St at Rt. 41.

### GEORGIA

Oct 24-25 GA, Lawrenceville. Gun Shows of the South. Gwinnett Co Fairgrounds, 2405 Sugar Loaf Parkway.

### ILLINOIS

Oct 18-Nov 15 IL, woodstock. mc henry county gun show. mc henry county fairgrounds, 11900 country club rd.

### INDIANA

Oct 17-18 IN, Greenfield. Gun & Knife Show. Hancock Cty. Fairgrounds, 620 N. Apple St.  
Oct 24-25 IN, Crown Point. Gun Show. Lake Cty. Fairgrounds, 889 S. Court St.  
Oct 24-25 IN, Newburgh. Newburgh Gun Show. American Legion Post 44, 711 State Street.  
Oct 31-Nov 1 IN, Indianapolis. Gun Show. Stout Field National Guard Armory, 3912 W. Minnesota St.  
Nov 6-8 IN, Indianapolis. Indy 1500 Gun & Knife Show. Indiana State Fairgrounds, 1202 E. 38th St.  
Nov 14-15 IN, Kokomo. Gun & Knife Show. Kokomo Event Center, 1500 N Reed Road.  
Nov 21-22 IN, Evansville. Gun & Knife Show. 4-H Center, Vanderburg Cty. Fairgrounds, 201 E. Boonville New Harmony Rd.  
Nov 28-29 IN, Muncie. Gun & Knife Show. Delaware Co. Fairgrounds, 1210 N Wheeling Ave.  
Nov 28-29 IN, Richmond. Central Indiana Gun & Knife Show. Wayne County Fairgrounds, 861 Salisbury Rd.

### IOWA

Oct 16-18 IA, Dubuque. Big Bore Enterprise: Dubuque Iowa Gun Show. Dubuque County Fairgrounds, 14569 Old Highway Rd.

### LOUISIANA

Oct 24-25 LA, Kenner. Gun & Knife Show. Pontchartrain Ctr., New Orleans Area, Williams Blvd. Exit off I-10.

Nov 7-8 LA, Bossier City. Bossier Gun Show. Bossier City Civic Center, 620 Benton Rd.

Nov 21-22 LA, Gonzales. Gonzales Gun Show. Lamar-Dixon Expo Center, 9039 S. St. Landry Ave.

Nov 21-22 LA, Gonzales. Gonzales Gun Show. Lamar-Dixon Expo Center, 9039 S. St. Landry Ave.

### MICHIGAN

Oct 17-18 MI, Cadillac. Gun & Knife Show. Wexford County Fairgrounds, US 131 & 13th St.

Oct 24-25 MI, Grand Rapids. Gun & Knife Show. 4 Mile Rd Showplace, 1025 Four Mile Rd.

Oct 31-Nov 1 MI, Jackson. Gun & Knife Show. ORS Fieldhouse, 3055 Shirley Dr.

Nov 7-8 MI, Port Huron. Gun & Knife Show. Blue Water Convention Center, 800 Harker Street.

Nov 14-15 MI, Prudenville. Gun & Knife Show. Houghton Lake K of C, 833 W. West Branch Rd.

Nov 20-22 MI, Lansing. Gun & Knife Show - 3 Days. Ingham Cty. Fairgrounds, 700 E Ash St.

Nov 27-29 MI, Birch Run. Gun & Knife Show - 3 Day Show. Frankenmuth Credit Union Event Center, Exit 136 off I-75.

### MISSISSIPPI

Oct 31-Nov 1 MS, Biloxi. Biloxi Gun Show. Mississippi Coast Coliseum, 2350 Beach Blvd.

### MISSOURI

Oct 17-18 MO, Sedalia. RK Shows. Missouri State Fairgrounds, 2503 W 16th St.

Oct 24-25 MO, Kansas City. RK Shows. KCI Expo Ctr., 11730 N. Ambassador Dr.

### NEVADA

Oct 30-Nov 1 NV, Sparks. The Big Reno Show. Nugget Casino Resort, 1100 Nugget Ave.

### OHIO

Oct 17-18 OH, Montpelier. Stateline Gun Show. Williams County Fairgrounds-Gillette Building, Montpelier Ohio.

Oct 17-18 OH, Mansfield. Mansfield Gun Show. Richland County Fairgrounds, 750 N. Home Road.

Oct 24-25 OH, Wellington. Lorain County Gun Show. Lorain County Fairgrounds, 23000 Fairgrounds Rd.

Oct 31-Nov 1 OH, East Canton. East Canton Gun Show. Foltz Community Center, 224 Wood Street N.

Nov 7-8 OH, Medina. Gun Show. Community Ctr., Co. Fairgrounds (SR 42) 735 Lafayette Rd.

Nov 14-15 OH, Maumee. Gun Show. The Lucas County Recreation Center, 2901 Key St.

Nov 14-15 OH, Cambridge. Cambridge Gun Show. Pritchard Laughlin Civic Center, 7033 Glenn Hwy.

Nov 21-22 OH, Norwalk. Huron County Gun Show. Huron County Fairgrounds, 940 Fair Rd.

Nov 21-22 OH, Montpelier. Stateline Gun Show. Williams County Fairgrounds-Gillette Building, Montpelier Ohio.

Nov 21 OH, Norwalk. Huron County Gun Show. Huron County Fairgrounds, 940 Fair Rd.

### OREGON

Nov 16 OR, Portland. The Original Rose City Gun Show. Metropolitan Expo Center, 2060 N. Marine Dr.

### PENNSYLVANIA

Oct 17-18 PA, Monroeville. The Pittsburgh Gun Show. Monroeville Convention Center, 209 Mall Blvd.

Nov 7-8 PA, Kittanning. Pony Farm Gun Show. Pony Farm Trap & Gun Club, 592 Pony Farm Road.

Nov 28-29 PA, Monroeville. The Pittsburgh Gun Show. Monroeville Convention Center, 209 Mall Blvd.

### SOUTH CAROLINA

Oct 31-Nov 1 SC, Myrtle Beach. Gun & Knife Show. Convention Ctr., 2101 N. Oak St.

Nov 28-29 SC, Ladson. Gun & Knife Show. Exchange Park Fairgrounds, 9850 Hwy 78.

### SOUTH DAKOTA

Oct 31-Nov 1 SD, Sioux Falls. Sioux Falls Classic Show. Ramkota Hotel Exhibit Hall, 3200 W. Maple St.

### TENNESSEE

Oct 17-18 TN, Lebanon. Gun Show. Wilson County Exposition Center, 945 East Baddour Parkway.

### TEXAS

Oct 17-18 TX, Amarillo. The Original Amarillo Gun Show. Amarillo Civic Center, 401 S. Buchanan.

Oct 17-18 TX, Abilene. Gun & Knife Show. Convention Center, 1100 N. 6th St.

Oct 17-18 TX, McAllen. Gun Show. McAllen Convention Center, 700 Convention Center Blvd.

Oct 24-25 TX, Tyler. Gun & Knife Show. Harvey Hall Convention Center, 2000 W. Front St.

Oct 24-25 TX, Mesquite. Premier Gun Shows. Big Town Event Ctr., 2323 Big Town Blvd.

Oct 24-25 TX, Fredericksburg. Gun & Knife Show. Fredericksburg Fairgrounds, Hwy. 16 S.

Oct 24-25 TX, Robstown. Gun Show. Richard M Borchard Regional Fairgrounds, 1213 Terry Shamsie Blvd.

Oct 24-25 TX, Pasadena. High Caliber Gun and Knife Show. Convention Center, 7902 Fairmont Parkway.

Oct 31-Nov 1 TX, Dripping Springs. Premier Gun Shows. Dripping Springs Ranch Park, 1042 Event Center Dr.

Oct 31-Nov 1 TX, Conroe. High Caliber Gun and Knife Show. Lone Star Convention Center, 9055 FM 1484.

Nov 7-8 TX, Ft. Worth. Gun & Knife Show. Will Rogers Memorial Center, 3401 W Lancaster Ave.

Nov 7-8 TX, Pasadena. Premier Gun Shows. Convention Ctr., 7902 Fairmont Pkwy.

Nov 7-8 TX, San Antonio. Gun Show. San Antonio Events Center, 8111 Meadow Leaf.

Nov 14-15 TX, Kerrville. Gun & Knife Show. Event Center, 3785 TX-27.

Nov 14-15 TX, Robstown. Gun Show. Richard M Borchard Regional Fairgrounds, 1213 Terry Shamsie Blvd.

Nov 21-22 TX, Longview. Longview Gun Show. Maude Cobb Convention Center, 100 Grand Blvd.

Nov 21-22 TX, Mesquite. Premier Gun Shows. Big Town Event Ctr., 2323 Big Town Blvd.

Nov 21-22 TX, McAllen. Gun Show. McAllen Convention Center, 700 Convention Center Blvd.

Nov 21-22 TX, Pasadena. High Caliber Gun and Knife Show. Convention Center, 7902 Fairmont Parkway.

Nov 28-29 TX, Nacogdoches. Gun Show. Civic Center, 3805 NW Stallings Drive.

Nov 28-29 TX, Dallas. Premier Gun Shows. Dallas Market Hall, 2200 N Stemmons Fwy.

### VIRGINIA

Oct 17-18 VA, Roanoke. Roanoke Valley Gun Show. The Berglund Center, 710 Williamson Rd NE.

Oct 17-18 VA, Doswell. Gun Show. Meadow Event Park, 13048 Dawn Blvd.

Oct 24-25 VA, Fredericksburg. Gun Show. Expo & Conference Center, 2371 Carl D Silver Pkwy.

Nov 14-15 VA, Woodstock. Sporting Shows Unlimited Gun, Knife and Outdoor Show. Woodstock Moose Lodge, 152 Moose Road.

Nov 14-15 VA, Richmond. Richmond Gun Show. Richmond Raceway Complex, 600 E Laburnum Ave.

Nov 20-22 VA, Chantilly. The Nation's Gun Show. Dulles Expo Center, 4320 Chantilly Shopping Center.

Nov 28-29 VA, Hampton. Gun Show. Convention Center, 1610 Coliseum Dr. off Mercury Blvd.

### WEST VIRGINIA

Nov 14-15 WV, Morgantown. The Morgantown Gun Show. Mylan Park Expo Center, Ruby Community Center, 500 Mylan Park Lane.

### OCTOBER

Oct 16-18 IA, Dubuque. Big Bore Enterprise: Dubuque Iowa Gun Show. Dubuque County Fairgrounds, 14569 Old Highway Rd. SH: Fri. 4pm-9pm, Sat. 9am-5pm, Sun. 9am-3pm. A: Adults- \$8 per day or \$10 for the entire weekend, 17 and under \$1 per day, 12 and under free. Veterans and active military are free. T: 200. F: \$40 for the first table and \$30 for every table after.. Big Bore Enterprise. 3160 Arboretum Court, Dubuque, IA 52001. PH: 563-590-4317. www.bigboreenterprise.com.

Oct 17-18 IN, Greenfield. Gun & Knife Show. Hancock Cty. Fairgrounds, 620 N. Apple St. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$5. F: \$35. Central Indiana Gun Shows. PO Box 32, Centerville, IN 47330. PH: 765-993-8942. www.centralindianagunshows.com.

Oct 17-18 MI, Cadillac. Gun & Knife Show. Wexford County Fairgrounds, US 131 & 13th St. SH: Sat. 9am-5pm, Sun. 10am-3pm. T: 250. F: \$45. PO Box 404, Mason, MI 48854. PH: 517-676-4160. www.migunshows.com.

Oct 17-18 MO, Sedalia. RK Shows. Missouri State Fairgrounds, 2503 W 16th St. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: Adults: \$8, VIP: \$10.50, no line, no wait. Kids: \$4, VIP: \$6.50, no line, no wait. T: 200. RK Shows. PO Box 334, Manchester, IA 52057. PH: 563-927-8176. www.rkshows.com.

Oct 17-18 OH, Montpelier. Stateline Gun Show. Williams County Fairgrounds-Gillette Building, Montpelier Ohio. SH: Sat. 9am-4pm, Sun. 9am-3pm. A: \$4- ages 10 and under free with paying adult. T: 125. F: \$25. Duane Votaw. 13530 CR S, Pioneer, OH 43554. PH: 419-630-6289. www.statelinegunshow.com.

Oct 17-18 OH, Mansfield. Mansfield Gun Show. Richland County Fairgrounds, 750 N. Home Road. SH: Sat. 9am-4pm, Sun. 9am-3pm. A: \$6.00, 12 and under free, free admission if you join or renew NRA at this show. T: 200. F: \$40 (discount for 5 or more). Heritage Gun Shows, LLC. PO Box 93, Bolivar, OH 44612. PH: 330-806-0747. www.heritagegunshowsohio.com.

Oct 17-18 PA, Monroeville. The Pittsburgh Gun Show. Monroeville Convention Center, 209 Mall Blvd. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$11. T: 600. F: \$55. Showmasters, Inc. 4225 Fortress Dr, Blacksburg, VA 24060. PH: 540-951-1344. www.showmastersgunshows.com.

Oct 17-18 TN, Lebanon. Gun Show. Wilson County Exposition Center, 945 East Baddour Parkway. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$10. F: . RK Shows. PO Box 334, Manchester, IA 52057. PH: 563-927-8176. www.rkshows.com.

Oct 17-18 TX, Abilene. Gun & Knife Show. Convention Center,

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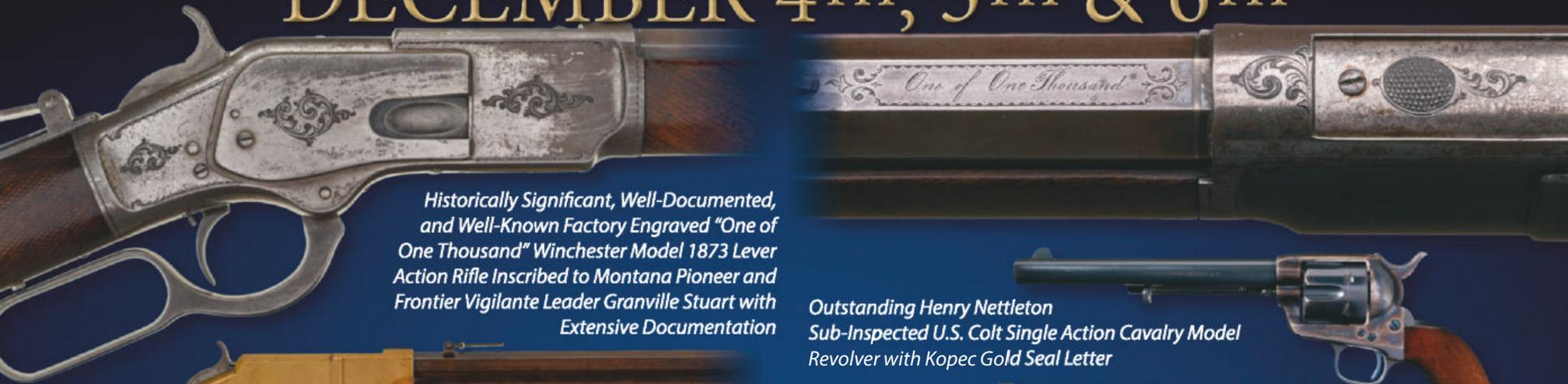
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Outstanding Henry Nettleton Sub-Inspected U.S. Colt Single Action Cavalry Model Revolver with Kopec Gold Seal Letter



Documented Factory Engraved Tucson Arizona Shipped Colt Single Action Army Revolver with Relief Carved Pearl Grips with Factory Letter

Exhibition Quality Engraved and Gold Inlaid Smith & Wesson New Model No. 3 Target Revolver with Pearl Grips



Rare and Desirable Colt Model 1839 Percussion Revolving Carbine

Fine Cased Ludwig Loewe Model 1893 Borchardt Semi-Automatic Pistol with Many Matching Numbered Accessories

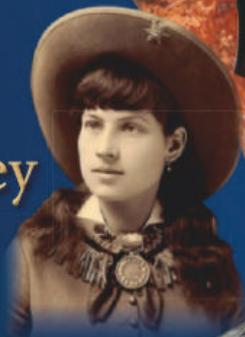


Parker Brothers Grade 7 AAHE Single Trigger Double Barrel 20 Gauge Shotgun



Historically Significant Famed Exhibition Shooter Annie Oakley's Documented Smith & Wesson .22/32 Hand Ejector Double Action Revolver with Factory Letter

### Annie Oakley



"cra" Code MG42 Machine Gun, Class III/NFA C&R Fully Transferrable Machine Gun

Law Enforcement Shipped Colt Model 1921/1928 U.S. Navy Overstamp Thompson Submachine Gun, Class III/NFA C&R Registered Fully Transferrable Machine Gun



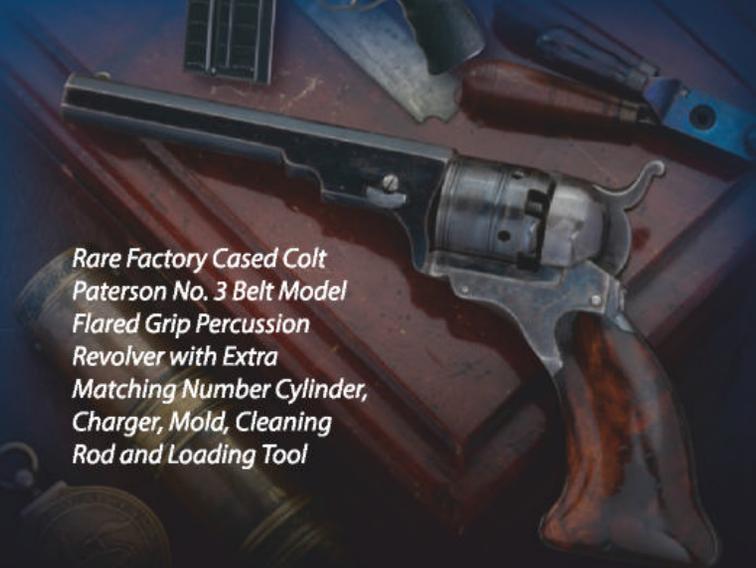
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1100 N. 6th St. SH: Sat. 9am-5pm, Sun. 10am-4pm. Texas Gun & Knife Association. 126 Cedar Knoll, Kerrville, TX 78028. PH: 830-285-0575. www.texasgunandknifeshows.com.

Oct 17-18 TX, McAllen. Gun Show. McAllen Convention Center, 700 Convention Center Blvd. SH: Sat. 9am-6pm, Sun. 9am-5pm. F: \$80/ electricity \$65. Saxet Gun Shows. PO Box 5677, Corpus Christi, TX 78465. PH: 361-289-2256. www.saxetshows.com.

Oct 17-18 TX, Amarillo. The Original Amarillo Gun Show. Amarillo Civic Center, 401 S. Buchanan. SH: Sat. 9am-5pm, Sun. 9am-5pm. A: General Admission , \$7 per day , \$10 for both days. Free Admission to Children Under 13. T: 300. F: 50. Pioneer Gun Collectors. PO Box 20806, Amarillo, TX 79114. PH: 806-567-8700. www.pioneergun.com.

Oct 17-18 VA, Doswell. Gun Show. Meadow Event Park, 13048 Dawn Blvd. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$10. T: 300. Southeastern Guns & Knives, Ltd.. PO Box 6601, Portsmouth, VA 23703. PH: 757-483-5383. www.sgkshows.com.

Oct 17-18 VA, Roanoke. Roanoke Valley Gun Show. The Berglund Center, 710 Williamson Rd NE. SH: Sat. 9am-5pm, Sun. 10am-5pm. A: \$11. T: 500. F: \$65. Showmasters, Inc. . 4225 Fortress Dr, Blacksburg, VA 24060. PH: 540-951-1344. www.showmastersgunshows.com.

Oct 18-Nov 15 IL, woodstock. mc henry county gun show. mc henry county fairgrounds, 11900 country club rd. SH: Sun. 8am-1pm, Sun. 8am-1pm. A: \$ 5.00. T: 100. F: \$ 30.00. dandy guns. 311 highland, lakemoor, IL 60051. PH: 815-385-1982.

Oct 24-25 GA, Lawrenceville. Gun Shows of the South. Gwinett Co Fairgrounds, 2405 Sugar Loaf Parkway. SH: Sat. 9am-5pm, Sun. 10am-4pm. F: . RK Shows. PO Box 334, Manchester, IA 52057. PH: 563-927-8176. www.rkshows.com.

Oct 24-25 IN, Crown Point. Gun Show. Lake Cty. Fairgrounds, 889 S. Court St. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$5., under 12 free w/adult. F: \$45. Central Indiana Gun Shows. PO Box 32, Centerville, IN 47330. PH: 765-993-8942. www.centralindianagunshows.com.

Oct 24-25 IN, Newburgh. Newburgh Gun Show. American Legion Post 44, 711 State Street. SH: Sat. 8am-4pm, Sun. 9am-2pm. A: \$5.00. T: 60. F: \$40. Evansville Military Collectors Club. 3299 Woodview Drive, Newburgh, IN 47630. PH: 812-483-3064. www.evmilitarycollectors.com.

Oct 24-25 LA, Kenner. Gun & Knife Show. Pontchartrain Ctr., New Orleans Area, Williams Blvd. Exit off I-10. SH: Sat. 9am-5pm, Sun. 10am-5pm. T: 400. F: \$85. PO Box 24416, Knoxville, TN 37933. PH: 865-671-4757. www.greatsouth-erngunshow.com.

Oct 24-25 MI, Grand Rapids. Gun & Knife Show. 4 Mile Rd Showplace, 1025 Four Mile Rd. SH: Sat. 9am-5pm, Sun. 10am-3pm. T: 450. F: \$55. Sport Show Promotions. PO Box 404, Mason, MI 48854. PH: 517-676-4160. www.migunshows.com.

Oct 24-25 MO, Kansas City. RK Shows. KCI Expo Ctr., 11730 N. Ambassador Dr. SH: Sat. 8am-5pm, Sun. 9am-3pm. A: Adults(Ages 13 & up) \$12, VIP \$14.50 , no line, no wait. Children(Ages 6-12) \$4, VIP \$6.50 , no line, no wait. T: 1000. RK Shows. PO Box 334, Manchester, IA 52057. PH: 563-927-8176. www.rkshows.com.

Oct 24-25 OH, Wellington. Lorain County Gun Show. Lorain County Fairgrounds, 23000 Fairgrounds Rd. SH: Sat. 9am-4pm, Sun. 9am-2pm. A: \$5.00-12 and under Free. T: 100. F: \$35.00 ea. for both days. Bill-Mar Promotions. 221 E Main St, South Amherst, OH 44001. PH: 440-320-4660. gmoates@twc.com.

Oct 24-25 TX, Fredericksburg. Gun & Knife Show. Fredericksburg Fairgrounds, Hwy. 16 S. SH: Sat. 9am-5pm, Sun. 10am-4pm. Texas Gun & Knife Association. 126 Cedar Knoll, Kerrville, TX 78028. PH: 830-285-0575. www.texasgunandknifeshows.com.

Oct 24-25 TX, Robstown. Gun Show. Richard M Borchard Regional Fairgrounds, 1213 Terry Shamsie Blvd. SH: Sat. 9am-6pm, Sun. 9am-5pm. F: \$80/ electricity \$45. Saxet Gun Shows. PO Box 5677, Corpus Christi, TX 78465. PH: 361-289-2256. www.saxetshows.com.

Oct 24-25 TX, Pasadena. High Caliber Gun and Knife Show. Convention Center, 7902 Fairmont Parkway. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$9. T: 300. F: \$85 advance. p.o. box 2616, Alvin, TX 77512. PH: 817-975-6707. www.texasgunshows.com.

Oct 24-25 TX, Tyler. Gun & Knife Show. Harvey Hall Convention Center, 2000 W. Front St. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8. T: 350. F: \$70 per table if prepaid, \$75 otherwise. Lone Star Gun Shows. 2405 Interstate 30 Ste B, Mesquite, TX 75150. PH: 214-635-2009. www.lonestargunshows.com.

Oct 24-25 TX, Mesquite. Premier Gun Shows. Big Town Event Ctr., 2323 Big Town Blvd. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8 cash only. T: 700. Premier Gun Shows. PO Box 34224, Fort Worth, TX 76162. PH: 817-732-1194. www.premiergunshows.com.

Oct 24-25 VA, Fredericksburg. Gun Show. Expo & Conference Center, 2371 Carl D Silver Pkwy. SH: Sat. 9am-5pm, Sun.

10am-4pm. A: \$10. T: 450. Southeastern Guns & Knives, Ltd.. PO Box 6601, Portsmouth, VA 23703. PH: 757-483-5383. www.sgkshows.com.

Oct 30-Nov 1 NV, Sparks. The Big Reno Show. Nugget Casino Resort, 1100 Nugget Ave. SH: Fri. 9am-6pm, Sat. 9am-6pm, Sun. 9am-3pm. A: One Day Pass - \$12, Weekend Pass (3 days) - \$20, Honored Guest Pass - \$85 - includes admission for Dealer Set-Up Day, plus all 3 show days. F: Table - \$155, Booth - \$410. PO Box 10485, Reno, NV 89510. PH: 775-828-2350. BigRenoShow.com.

Oct 31-Nov 1 AR, Conway. Gun Show. Expo Center, 2505 East Oak St. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$10. T: 400. F: 1-4 \$55; 5+ \$50; 10+ \$45. G&S Promotions. PO Box 338, Wister, OK 74966. PH: 918-659-2201. www.gandgunshows.com.

Oct 31-Nov 1 IN, Indianapolis. Gun Show. Stout Field National Guard Armory, 3912 W. Minnesota St. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$5. F: \$40. Central Indiana Gunshows, LLC. PO Box 32, Centerville, IN 47330. PH: 765-993-8942. www.centralindianagunshows.com.

Oct 31-Nov 1 MI, Jackson. Gun & Knife Show. ORS Fieldhouse, 3055 Shirley Dr. SH: Sat. 9am-5pm, Sun. 10am-3pm. A: \$6. T: 350. F: . Sport Show Promotions. PO Box 404, Mason, MI 48854. PH: 517-676-4160. www.migunshows.com.

Oct 31-Nov 1 MS, Biloxi. Biloxi Gun Show. Mississippi Coast Coliseum , 2350 Beach Blvd. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$9. F: . Classic Arms Productions. 427 N. Theard St Suite 357, Covington, LA 70433. PH: 985-624-8577. www.capgunshows.com.

Oct 31-Nov 1 OH, East Canton. East Canton Gun Show. Foltz Community Center, 224 Wood Street N. SH: Sat. 9am-4pm, Sun. 9am-3pm. A: \$6.00, 12 and under free, free admission if you join or renew NRA at this show. T: 115. F: \$40 (discount for 5 or more). Heritage Gun Shows, LLC. PO Box 93, Bolivar, OH 44612. PH: 330-806-0747. www.heritagegunshowsohio.com.

Oct 31-Nov 1 SC, Myrtle Beach. Gun & Knife Show. Convention Ctr., 2101 N. Oak St. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8. F: \$65. MK Shows. P.O. Box 685, Monroe, ga 30655. PH: 770-630-7296. www.mkshows.com.

Oct 31-Nov 1 SD, Sioux Falls. Sioux Falls Classic Show. Ramkota Hotel Exhibit Hall, 3200 W. Maple St. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$5. T: 400. F: . Dakota Territory Gun Collectors Association . PO Box 158, Strasburg, ND 58573. PH: 701-336-7533. www.dtgca.org.

Oct 31-Nov 1 TX, Conroe. High Caliber Gun and Knife Show. Lone Star Convention Center, 9055 FM 1484. SH: Sat. 9am-5pm, Sun. 10am-4pm. T: 300. F: \$85 advance. p.o. box 2616, Alvin, TX 77512. PH: 817-975-6707. www.texasgunshows.com.

Oct 31-Nov 1 TX, Dripping Springs. Premier Gun Shows. Dripping Springs Ranch Park, 1042 Event Center Dr. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8 cash only. T: 200. F: \$75. Premier Gun Shows. PO Box 34224, Fort Worth, TX 76162. PH: 817-732-1194. www.premiergunshows.com.

## NOVEMBER

Nov 6-8 IN, Indianapolis. Indy 1500 Gun & Knife Show.

Indiana State Fairgrounds, 1202 E. 38th St. SH: Fri. 2pm-7pm, Sat. 9am-6pm, Sun. 9am-4pm. F: \$110. PO Box 14194, Oklahoma City, OK 73113. PH: 405-340-1333. www.indy1500.com.

Nov 7-8 LA, Bossier City. Bossier Gun Show. Bossier City Civic Center, 620 Benton Rd. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8. F: . Classic Arms Productions. 427 N. Theard St Suite 357, Covington, LA 70433. PH: 985-624-8577. www.capgunshows.com.

Nov 7-8 MI, Port Huron. Gun & Knife Show. Blue Water Convention Center, 800 Harker Street. SH: Sat. 9am-5pm, Sun. 10am-3pm. T: 350. F: \$55. PO Box 404, Mason, MI 48854. PH: 517-676-4160. www.migunshows.com.

Nov 7-8 OH, Medina. Gun Show. Community Ctr., Co. Fairgrounds (SR 42) 735 Lafayette Rd. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$7., under 12 free. T: 450. F: \$55. Conrad & Dowdell Productions. 9047 Kennard Rd., Lodi, OH 44254. PH: 330-948-4400. www.conraddowdell.com.

Nov 7-8 PA, Kittanning. Pony Farm Gun Show. Pony Farm Trap & Gun Club, 592 Pony Farm Road. SH: Sat. 9am-4pm, Sun. 9am-4pm. A: Adults - \$5.00. Children under 12 accompanied by adult - Free. T: 110. F: \$15.00 per table per day OR \$25.00 per table for two days (In Advance) . Pony Farm Trap & Gun Club. 592 Pony Farm Road, Kittanning, PA 16201. PH: 172-491-9231.

Nov 7-8 TX, San Antonio. Gun Show. San Antonio Events Center, 8111 Meadow Leaf. SH: Sat. 9am-6pm, Sun. 9am-5pm. F: \$80. Saxet Gun Shows. PO Box 5677, Corpus Christi, TX 78465. PH: 361-289-2256. www.saxetshows.com.

Nov 7-8 TX, Ft. Worth. Gun & Knife Show. Will Rogers Memorial Center, 3401 W Lancaster Ave. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$9. T: 800. F: \$80 per table if prepaid, \$85 otherwise. Lone Star Gun Shows. 2405 Interstate 30 Ste B, Mesquite, TX 75150. PH: 214-635-2009. www.lonestargunshows.com.

Nov 7-8 TX, Pasadena. Premier Gun Shows. Convention Ctr., 7902 Fairmont Pkwy. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8 cash only. T: 300. Premier Gun Shows. PO Box 34224, Fort Worth, TX 76162. PH: 817-732-1194. www.premiergunshows.com.

Nov 14-15 IN, Kokomo. Gun & Knife Show. Kokomo Event Center, 1500 N Reed Road. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$5. F: \$35. Central Indiana Gun Shows. PO Box 32, Centerville, IN 47330. PH: 765-993-8942. www.centralindianagunshows.com.

Nov 14-15 MI, Prudenville. Gun & Knife Show. Houghton Lake K of C, 833 W. West Branch Rd. SH: Sat. 9am-5pm, Sun. 10am-3pm. A: \$6. T: 300. F: \$25. Sport Show Promotions. PO Box 404, Mason, MI 48854. PH: 517-676-4160. www.migunshows.com.

Nov 14-15 OH, Cambridge. Cambridge Gun Show. Pritchard Laughlin Civic Center, 7033 Glenn Hwy. SH: Sat. 9am-4pm, Sun. 9am-3pm. A: \$6.00. 12 and under free, free admission if you join or renew NRA at this show. T: 140. F: \$40 (discount for 5 or more). Heritage Gun Shows, LLC. PO Box 93, Bolivar, OH 44612. PH: 330-806-0747. www.heritage-gunshowsohio.com.

Nov 14-15 OH, Maumee. Gun Show. The Lucas County

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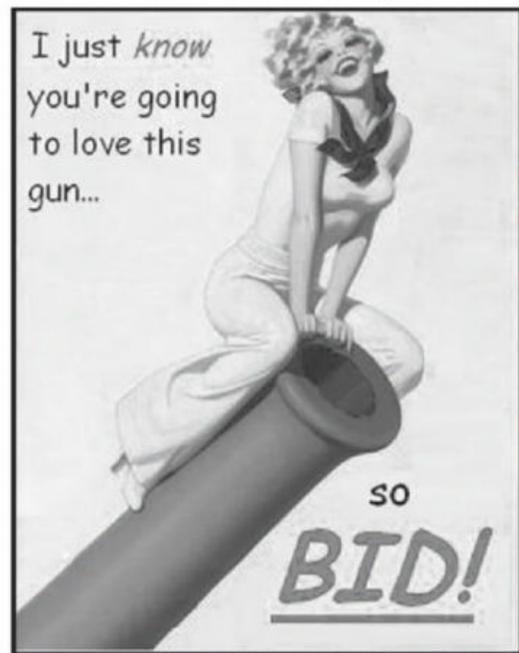
# PREMIER GUN SHOWS @ DALLAS MARKET HALL

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Recreation Center, 2901 Key St. SH: Sat. 8am-4pm, Sun. 8am-3pm. A: \$5. F: . Maumee Valley Gun Collectors Inc. PO Box 492, Maumee, OH 43537. PH: 419-893-5173. [www.mvgca.com](http://www.mvgca.com).

Nov 14-15 TX, Kerrville. Gun & Knife Show. Event Center, 3785 TX-27. SH: Sat. 9am-5pm, Sun. 10am-4pm. Texas Gun & Knife Association. 126 Cedar Knoll, Kerrville, TX 78028. PH: 830-285-0575. [www.texasgunandknifeshows.com](http://www.texasgunandknifeshows.com).

Nov 14-15 TX, Robstown. Gun Show. Richard M Borchard Regional Fairgrounds, 1213 Terry Shamsie Blvd. SH: Sat. 9am-6pm, Sun. 9am-5pm. F: \$80/ electricity \$45. Saxet Gun Shows. PO Box 5677, Corpus Christi, TX 78465. PH: 361-289-2256. [www.saxetshows.com](http://www.saxetshows.com).

Nov 14-15 VA, Woodstock. Sporting Shows Unlimited Gun, Knife and Outdoor Show. Woodstock Moose Lodge, 152 Moose Road. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$7 per person. Children under 12 are FREE. T: 140. F: \$60. Sporting Shows Unlimited (formerly VA Gun & Knife Shows, LLC). 7498 Keith Road, Warrenton, VA 20186. PH: 703-717-1608. [www.sportingshowsunlimited.com](http://www.sportingshowsunlimited.com).

Nov 14-15 VA, Richmond. Richmond Gun Show. Richmond Raceway Complex, 600 E Laburnum Ave. SH: Sat. 9am-5pm, Sun. 10am-5pm. A: \$12, Children 12-17 - \$6, Children under 12 - Free. T: 800. F: \$80 Electric \$35. Showmasters, Inc. . 4225 Fortress Dr, Blacksburg, VA 24060. PH: 540-951-1344. [www.showmastersgunshows.com](http://www.showmastersgunshows.com).

Nov 14-15 WV, Morgantown. The Morgantown Gun Show. Mylan Park Expo Center, Ruby Community Center, 500 Mylan Park Lane. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$8. T: 300. F: \$45. Showmasters, Inc. . 4225 Fortress Dr, Blacksburg, VA 24060. PH: 540-951-1344. [www.showmastersgunshows.com](http://www.showmastersgunshows.com).

Nov 16 OR, Portland. The Original Rose City Gun Show. Metropolitan Expo Center, 2060 N. Marine Dr. SH: Sat. 9am-6pm, Sun. 9am-4pm. A: \$10. Calico Light Weapon Systems.

Nov 20-22 MI, Lansing. Gun & Knife Show - 3 Days. Ingham Cty. Fairgrounds, 700 E Ash St, US 127 to Kipp Rd. E. SH: Fri. 2pm-7pm, Sat. 9am-5pm, Sun. 10am-3pm. A: \$6. T: 440. F: \$55. Sport Show Promotions. PO Box 404, Mason, MI 48854. PH: 517-676-4160. [www.migunshows.com](http://www.migunshows.com).

Nov 20-22 VA, Chantilly. The Nation's Gun Show. Dulles Expo Center, 4320 Chantilly Shopping Center. SH: Fri. 3pm-8pm, Sat. 9am-5pm, Sun. 10am-5pm. A: Friday - \$13. Saturday/Sunday \$16/day; \$22/3-day pass, children 12-17 - \$8,

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Nov 21-22 CA, Lodi. Lodi Gun Show. Lodi Grape Festival Grounds, 413 E. Lockeford Street. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$10 - Under 18 FREE w/Parent or Guardian - Free Parking. T: 220. F: Single Table \$125 / 2 or More \$100 ea. / 5 or More \$90 ea.. California Gun Shows LLC. P.O. Box 729, Woodbridge, CA 95258. PH: 209-215-5599. http://www.mountainairepromotions.com/lodigunshow.html.

Nov 21-22 FL, Ft. Myers. Civil War, Gun, Knife, Military Show. Araba Shrine Temple, 2010 Hanson St at Rt. 41. SH: Sat. 9am-5pm, Sun. 9am-1pm. A: \$8. F: \$90. Florida Military Antique Collectors, Inc. PO Box 6518, Ft. Myers Beach, FL 33932. PH: 847-863-3929. www.fmaac.tripod.com.

Nov 21-22 IN, Evansville. Gun & Knife Show. 4-H Center, Vanderburg Cty. Fairgrounds, 201 E. Boonville New Harmony Rd. SH: Sat. 9am-5pm, Sun. 9am-3pm. F: . PO Box 32, Centerville, IN 47330. PH: 765-993-8942. www.centralindianagunshows.com.

Nov 21-22 LA, Gonzales. Gonzales Gun Show. Lamar-Dixon Expo Center, 9039 S. St. Landry Ave. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$9. F: . Classic Arms Productions. 427 N. Theard St Suite 357, Covington, LA 70433. PH: 985-624-8577. www.capgunshows.com.

Nov 21-22 LA, Gonzales. Gonzales Gun Show. Lamar-Dixon Expo Center, 9039 S. St. Landry Ave. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$9. F: . Classic Arms Productions. 427 N. Theard St Suite 357, Covington, LA 70433. PH: 985-624-8577. www.capgunshows.com.

Nov 21-22 OH, Montpelier. Staline Gun Show. Williams County Fairgrounds-Gillette Building, Montpelier Ohio. SH: Sat. 9am-4pm, Sun. 9am-3pm. A: \$4- ages 10 and under free with paying adult . T: 125. F: \$25. Duane Votaw. 13530 CR S, Pioneer, OH 43554. PH: 419-630-6289. www.stalinegunshow.com.

Nov 21 OH, Norwalk. Huron County Gun Show. Huron County Fairgrounds, 940 Fair Rd. SH: Sat. 9am-4pm. A: \$5.00-12 and under free. T: 100. F: \$35.00 ea. for both days. Bill-Mr Promotions. 221 E Main St, South Amherst, OH 44001. PH: 440-320-4660. gmoates@twc.com.

Nov 21-22 OH, Norwalk. Huron County Gun Show. Huron County Fairgrounds, 940 Fair Rd. SH: Sat. 9am-4pm, Sun. 9am-2pm. A: \$5.00-12 and under free. T: 100. F: \$35.00 ea. for both days. Bill-Mar Promotions. 221 E Main St, South Amherst, OH 44001. PH: 440-320-4660. gmoates@twc.com.

Nov 21-22 TX, McAllen. Gun Show. McAllen Convention Center, 700 Convention Center Blvd. SH: Sat. 9am-6pm, Sun. 9am-5pm. F: \$80/ electricity \$65. Saxet Gun Shows. PO Box 5677, Corpus Christi, TX 78465. PH: 361-289-2256. www.saxetshows.com.

Nov 21-22 TX, Pasadena. High Caliber Gun and Knife Show. Convention Center, 7902 Fairmont Parkway. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$9. T: 300. F: \$85 advance. p.o. box 2616, Alvin, TX 77512. PH: 817-975-6707. www.texasgunshows.com.

Nov 21-22 TX, Longview. Longview Gun Show. Maude Cobb Convention Center, 100 Grand Blvd. SH: Sat. 9am-5pm, Sun. 9am-5pm. F: . Classic Arms Productions. 427 N. Theard St Suite 357, Covington, LA 70433. PH: 985-624-8577. www.capgunshows.com.

Nov 21-22 TX, Mesquite. Premier Gun Shows. Big Town Event Ctr., 2323 Big Town Blvd. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8 cash only. T: 700. Premier Gun Shows. PO Box 34224, Fort Worth, TX 76162. PH: 817-732-1194. www.premiergunshows.com.

Nov 27-29 MI, Birch Run. Gun & Knife Show - 3 Day Show. Frankenmuth Credit Union Event Center, Exit 136 off I-75. SH: Fri. 2pm-7pm, Sat. 9am-5pm, Sun. 10am-3pm. T: 700. F: \$55. PO Box 404, Mason, MI 48854. PH: 517-676-4160. www.migunshows.com.

Nov 28-29 AL, Birmingham. Gun & Knife Show. Civic Center, 2100 Richard Arrington, Jr Blvd. SH: Sat. 9am-5pm, Sun. 10am-4pm. T: 400. F: \$80. Great Southern Gun & Knife Shows. PO Box 24416, Knoxville, TN 37933. PH: 865-671-4757. www.greatsoutherngunshow.com.

Nov 28-29 IN, Richmond. Central Indiana Gun & Knife Show. Wayne County Fairgrounds, 861 Salisbury Rd. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$5. F: \$35. Central Indiana Gun Shows. PO Box 32, Centerville, IN 47330. PH: 765-993-8942. www.centralindianagunshows.com.

Nov 28-29 IN, Muncie. Gun & Knife Show. Delaware Co. Fairgrounds, 1210 N Wheeling Ave. SH: Sat. 9am-5pm, Sun. 9am-3pm. A: \$5. F: \$35. Central Indiana Gun Shows. PO Box 32, Centerville, IN 47330. PH: 765-993-8942. www.centralindianagunshows.com.

Nov 28-29 PA, Monroeville. The Pittsburgh Gun Show. Monroeville Convention Center, 209 Mall Blvd. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$11. T: 600. F: \$55. Showmasters, Inc. . 4225 Fortress Dr, Blacksburg, VA 24060. PH: 540-951-1344. www.showmastersgun-

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Nov 28-29 SC, Ladson. Gun & Knife Show. Exchange Park Fairgrounds, 9850 Hwy 78. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$8. MK Shows. P.O. Box 685, Monroe, ga 30655. PH: 770-630-7296. www.MKShows.com.

Nov 28-29 TX, Nacogdoches. Gun Show. Civic Center, 3805 NW Stallings Drive. SH: Sat. 9am-5pm, Sun. 9am-4pm. A: \$8. T: 200. F: 1-4 \$55; 5+ \$50; 10+ \$45. G&S Promotions. PO Box 338, Wister, OK 74966. PH: 918-659-2201. www.gandgunshows.com.

Nov 28-29 TX, Dallas. Premier Gun Shows. Dallas Market Hall, 2200 N Stemmons Fwy. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$10 cash only. T: 1400. Premier Gun Shows. PO Box 34224, Fort Worth, TX 76162. PH: 817-732-1194. www.premiergunshows.com.

Nov 28-29 VA, Hampton. Gun Show. Convention Center, 1610 Coliseum Dr. off Mercury Blvd. SH: Sat. 9am-5pm, Sun. 10am-4pm. A: \$10. T: 700. Southeastern Guns & Knives, Ltd.. PO Box 6601, Portsmouth, VA 23703. PH: 757-483-5383. www.sgkshows.com.



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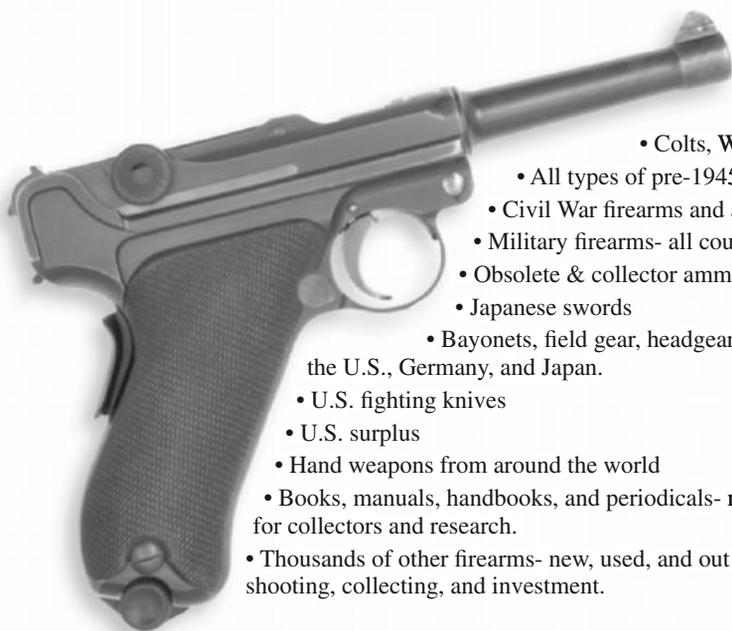
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- 2-L Beretta 9mm Para Model 92-FS Auto Pistol** 4 3/4" barrel with mint bore, 99% original black finish, (3) white dot combat sights, double or single action, hammer drop ambidextrous safety, mint checkered black plastic logo grips, looks and functions near new overall, 10 round magazine ..... \$375
- 3-L Beretta 9mm Para Model 94G Auto Pistol** 5" barrel with mint bore, 98%+original blue / black finish, "Trijicon" (3) dot night sight system, ambidextrous safety, excellent function showing little actual use, 15 shot magazine ..... \$535
- 4-L Bernedo, (Victor Bernedo Y. Compania) .25 ACP Model 1912 Hammerless Vest Pocket Auto Pistol** 2" barrel with good bore, 95%+ original blue, fixed sights, very good "V. Bernedo" with intertwined "VB" logo black hard rubber grips that have a tiny crack at top of left hand fastening screw, correct nickel plated magazine, firing pin has cocking stud missing so not operable, a low production vest pocket auto pistol with some original design features illustrated in Zhuks' book of handguns (C&R) ..... \$195
- 5-L Browning .22 LR "Nomad" Belgian Made Auto Pistol** 4 1/2" barrel with mint bore, 99% original bright blue, ramp 1/8" blade front and fully adjustable rear sights, minty checkered black plastic, logo, wrap around grips, excellent function, made in 1970 (C&R) ..... \$495
- 6-L Browning .22 LR "Nomad" Belgian Made Auto Pistol** 4 1/2" barrel with mint bore, 99 1/2% original bright blue, ramp 1/8" blade front and fully adjustable rear sights, minty checkered black plastic, logo, wrap around grips, excellent function, made in 1969, looks near new (C&R) ..... \$525
- 7-L Browning .22 LR "Nomad" Belgian Made Auto Pistol** 6 3/4" barrel with mint bore, 99 1/2% original bright blue, 1/8" blade front sight and fully adjustable rear sight, minty checkered, logo, black plastic wrap around grips, looks near new overall, made in 1962, excellent function and comes with its original manual (C&R) ..... \$535
- 8-L Browning .25 ACP "Baby" Model Belgian Made Auto Pistol** 2" barrel with mint bore, 99 1/2% original bright blue, fixed sights, mint logo black plastic grips, excellent function, made in 1968 and comes in original Browning marked zipper pouch (C&R) ..... \$585
- 9-L Browning .25 ACP Baby Belgian Made Vest Pocket Auto Pistol** 2" barrel with mint bore, 99 1/2% original bright blue, fixed sights, mint Browning logo checkered black plastic grips, "F.N." marked blue magazine, made in 1968, excellent function and comes in its original "Browning" marked zipper pouch (C&R) ..... \$585
- 10-L Colt .22 LR "Duotone" Frontier Scout Single Action Revolver** 4 3/4" barrel with mint bore, 99% original blue, factory "in the white" frame and grip straps, excellent shape with little edge wear, original synthetic black checkered grips with rampant Colt in oval, excellent function, tight lockup, manufactured in 1958 (C&R) ..... \$535
- 11-L Colt .22 LR Frontier Scout "Arizona Rangers" Commemorative Single Action Revolver** 5 1/2" barrel with mint bore, looks to be unfired, 99%+ original blue on barrel and cylinder (no dragline), 99% case colors on frame, silver plated triggerguard, 2 piece mint Walnut grips with silver Colt medallions, comes in hardwood case with glass top, case is lockable but no key present, interior is red velvet lined and contains a 5 pointed star badge that reads "Arizona Rangers" long with the revolver, collector quality, like new (C&R) ..... \$825
- 12-L Colt .22 LR Frontier Scout Single Action "Arizona Centennial" Cased Pair of Revolvers** 4 3/4" barrels with mint bores, 98%+ original blue on barrel and frame, gold plated cylinders, hammers, trigger guards and backstraps, white synthetic 2 piece grips with gold medallions, fixed sights, barrels marked "1863 Arizona Territorial Centennial 1963, both come in one box with Colt logo on lower left and engraved cactus on top, inside is gold felt lined and in excellent condition, consecutive serial numbers (C&R) ..... \$1395
- 13-L Colt .22 LR Frontier Scout Single Action "Kansas Centennial Commemorative" Revolver** 4 3/4" barrel with mint bore, 98%+ gold plate, mint 2 piece Walnut smooth grips, comes with Colt box, on the center of box top is a coin "Centennial Kansas - 1861-1961" inside is lined with red felt, shows only mild display wear (C&R) ..... \$675
- 14-L Colt .22 LR Frontier Scout "Oregon Trail" Commemorative Single Action Revolver** 4 3/4" barrel with mint bore, 98%+ original blue on frame, barrel and cylinder with no dragline, gold plated hammer, trigger, triggerguard and backstrap, two piece white synthetic "pearlite" grips with gold Colt medallions, comes with wood Colt box with a depiction of the Oregon Trail on its lid, inside is lined with blue color velvet, like new overall showing only mild display wear, collector quality (C&R) ..... \$675
- 15-L Colt .22 LR Frontier Scout "Nickel" Single Action Revolver** 4 3/4" barrel with mint bore, fixed sights, bright nickel finish showing light scratches on cylinder, 2 piece Walnut grips with silver medallions, excellent function, "K" suffix, manufactured 1967 (C&R) ..... \$625
- 16-L Colt 32/20 W.C.F. Model "Army Special" Revolver** 4" barrel with good but pitted bore, 98% re-blue finish, Colt wood checkered grips with silver medallions, tight lock up, factory open sights, light pinprick pitting on frame, matching numbers, manufactured 1913 (C&R) \$325
- 17-L Colt .38 Colt Model 1903 U.S. Army Revolver** 6" barrel with good bore, 95% re-blue finish, matching numbers, "R.A.C." proof marked on left side of frame and barrel, factory open sights, original well worn Colt grips from a later "Official Police", lanyard loop on butt along with "U.S. Army Model 1903", manufactured 1903, works well (C&R) ..... \$395
- 18-L Colt .41 Colt Model 1901 "New Army & Navy" Revolver** 4 1/2" barrel with fair pitted bore, 95% old refinish blue, matching crane, cylinder and cylinder latch, cylinder is a little loose on lockup as is common with this model, hard rubber factory grips, mismatched serial numbers on grips, manufactured 1902 (C&R) ..... \$365

- 19-L Harrington & Richardson .22 LR Hammer Top Break "Bicycle Revolver" 2"** ribbed barrel with very good bore, 97% original nickel, blue and case color, fixed sights, fiery mother of pearl grips, trigger return spring is broken, nice looker (C&R) ..... \$235
- 20-L Harrington & Richardson .22 LR "Sportsman Double Action" Top Break Target Revolver** 6" ovoid barrel with mint bore, 98% original bright blue, adjustable front and rear target style sights, minty original checkered Walnut oversize target grips on the "Rice" frame, excellent function both single and double action, made around 1947 (C&R) ..... \$495
- 21-L Harrington & Richardson .22 Rimfire "Premier" Top Break Revolver** 3" barrel with excellent bore, 80% factory blue, cylinder is loose on lockup and sticks at times, hard rubber grips both broken at bottom, left side broken and glued, not working properly, parts or repair (C&R) ..... \$65
- 22-L Harrington & Richardson .32 S&W Short Hammerless Top-Break Revolver** 4" ribbed barrel with fair pitted bore, fixed sights, 97% original bright nickel and blue, mint target logo checkered black hard rubber grips, matching numbers, heavy trigger pull indicates a replaced mainspring but woks well (C&R) ..... \$125
- 23-L Harrington & Richardson .32 S&W Short "Bicycle" Top-Break Revolver** 2" ribbed barrel with excellent bore, 98% original nickel and blue, fixed sights, matching numbers, mint target logo checkered hard rubber grips, excellent function (C&R) ..... \$265
- 24-L Harrington & Richardson .32 S&W Long Semi-Hammerless Top-Break Double Action Revolver** 3 1/4" ribbed barrel with very good bright but pitted bore, 98% original bright nickel blue and case color on factory spurless hammer, fixed sights, all matching, excellent H&R target logo checkered hard rubber grips, excellent function both single and double action (C&R) ..... \$175
- 25-L Harrington & Richardson .38 S&W Hammer Double Action Top Break Revolver** 3 1/4" ribbed barrel with excellent bright bore, 99% original bright blue with some specks of peppery light flaking, fixed sights, excellent H&R target logo checkered black hard rubber grips, excellent function both single and double action, collector quality (C&R) ..... \$195
- 26-L Harrington & Richardson .38 S&W Large Frame Top-Break Hammer Revolver** 3 1/4" ribbed barrel with minty bright bore, 98% original nickel, blue and case color, mint H&R target logo checkered black hard rubber grips, all matching, excellent function both single and double action, collector quality (C&R) ..... \$195
- 27-L Heritage Mfg. 22 LR "Rough Rider" Western style Single Action Revolver** 6 1/2" barrel with mint bore, 99% original blue, mint smooth wood grips, fixed sights, 6 shot cylinder, excellent function, as new in original box with all paper ..... \$125
- 28-L High Standard .22 LR Model "GD" Target Auto Pistol** 6 3/4" barrel with mint bore, lever release on barrel, 98%+ original bright blue, "Davis" fully adjustable target rear sight, hammerless design, made in 1949, slide hold open, very good optional "deluxe" factory Walnut target grips with cut checkering and thumbrest, excellent two tone magazine, excellent function, a low production post war target pistol made in New Haven, Connecticut (C&R) ..... \$795
- 29-L High Standard .22 LR "Supermatic Citation" Military 106 Series Auto Pistol** 5 1/2" bull barrel with mint bore and push button release, 99% original bright blue with nickel plated trigger and magazine release, fully adjustable factory target rear sight with "bridge" mount to frame, excellent function showing little or no actual use, made in 1970 in Hamden, CT., excellent checkered thumbrest Walnut grips (C&R) ..... \$675
- 30-L High Standard .22 LR "Supermatic Citation" Military 106 Series Auto Pistol** 5 1/2" bull barrel with mint bore and push button release, 99% original blue with nickel plated trigger and magazine release, elaborate fully adjustable target rear factory sight "bridge" mounted to frame plus very professionally drilled, tapped and plugged on top of barrel for scope base, excellent checkered Walnut thumbrest grips, excellent function showing little actual use, made in 1970 at Hamden, CT (C&R) ..... \$595
- 31-L High Standard .22 LR "Supermatic Trophy" Texas Made Target Auto Pistol** 5 1/2" bull barrel with mint bore, 99% original blue, 99% gold plate on trigger, slide release, safety and magazine release, minty dark checkered Walnut thumbrest grips, "Bridge" type target rear and blade front sights, barrel is factory drilled, tapped and plugged for weights and scope bases (neither provided), excellent function ..... \$795
- 32-L High Standard .22 LR "Supermatic Trophy" Model 102 with Factory Installed "Military Grip" for "Space Gun" Target Auto Pistol** 8" tapered barrel with mint bore, grooved sides for barrel weights (2 provided), muzzle capable of accepting a muzzle brake (none provided) and barrel mounted adjustable target rear sight, 98%+ original bright blue, 99% original gold on trigger, safety and magazine release, frame and slide are numbered the same indicating a factory frame replacement at some time when "slant grip" frames were not available, minty full checkered Walnut thumbrest grips, adjustable trigger, excellent function, made in 1958 (C&R) ..... \$795
- 33-L Hopkins & Allen .32 S&W Short "Safety Police" Double Action Top-Break Revolver** 3" ribbed barrel with very good bore, 98% nickel, blue and case color, minty checkered "H&A" logo brown hard rubber grips, excellent function both single and double action, shows many interesting features mechanically (C&R) ..... \$265
- 34-L Iver Johnson .32 S&W "Secret Service Special" Top-Break Revolver** 3" ribbed barrel with very good bright bore, 97% original bright nickel, blue and faded case color, unique factory installed hammer block push button safety, very good original mother of pearl grips with a circular inset of a "stars and stripes" American shield in left grip panel and a chipout at the base of the right panel near the locating pin, these were made by a couple different gun companies with the Iver Johnsons' the best of the lot. excellent function (C&R) ..... \$235
- 35-L Iver Johnson .32 S&W Short "Hammerless Top-Break" Parts Revolver** 3" ribbed barrel with good bright bore, fixed sights, 50% original nickel and blue, very good "owl" logo checkered hard rubber grips, safety trigger, missing or broken trigger return spring otherwise all there and function just not pretty (C&R) ..... \$35

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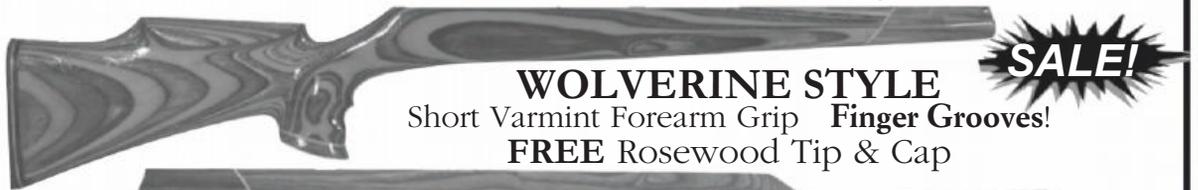
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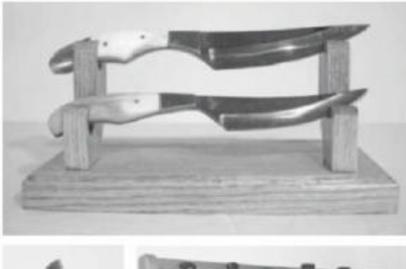
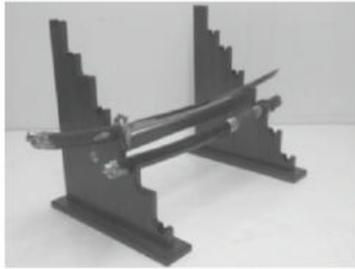
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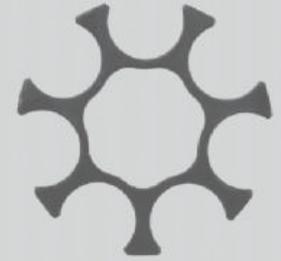
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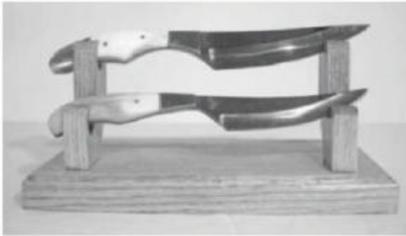
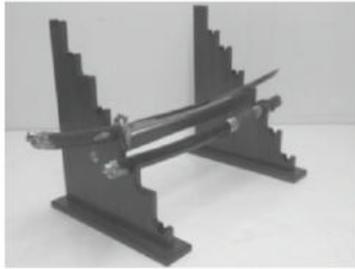
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