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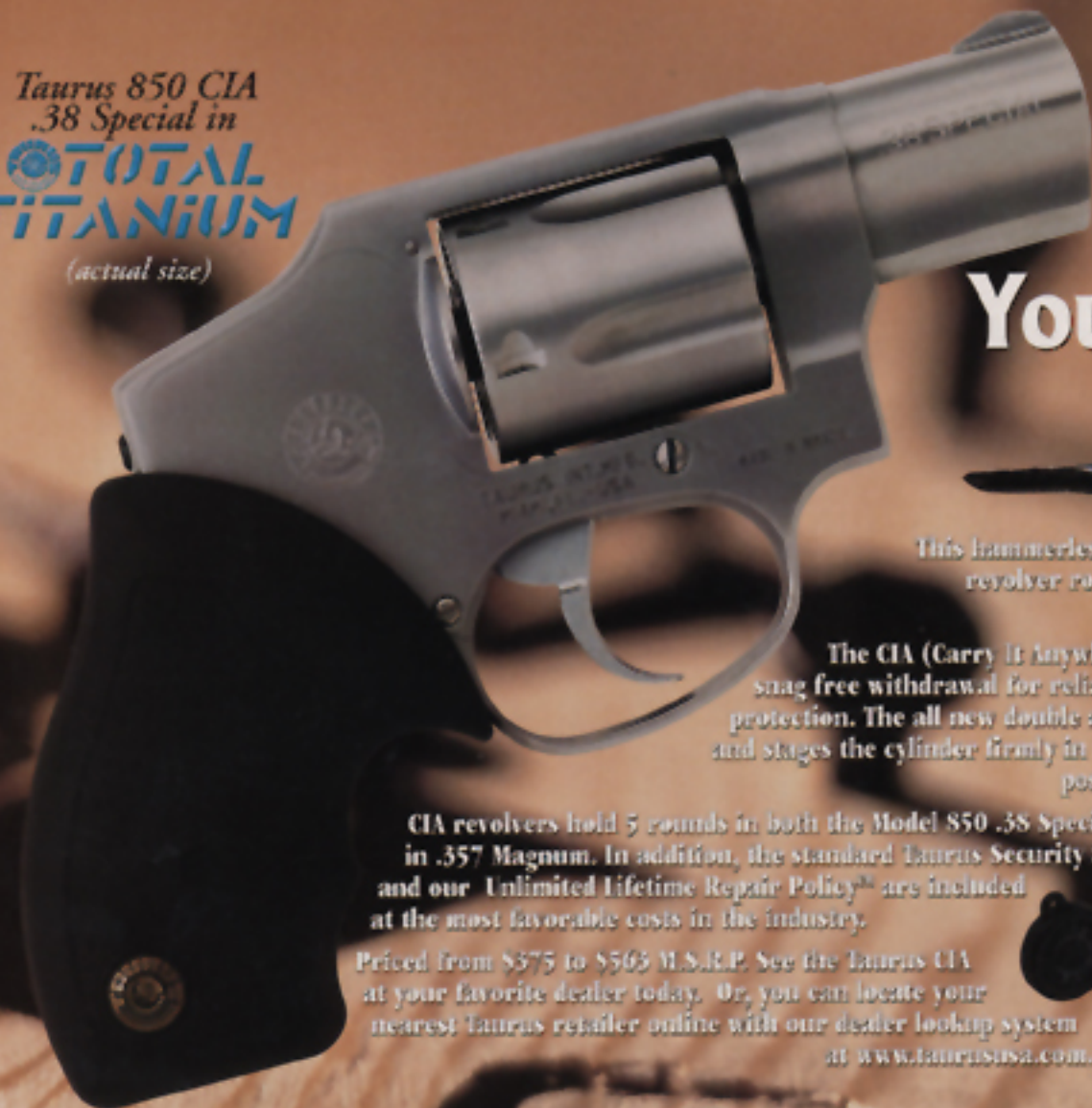


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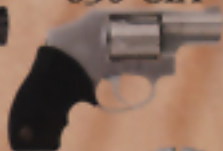
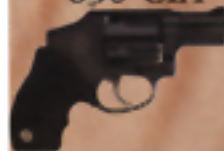


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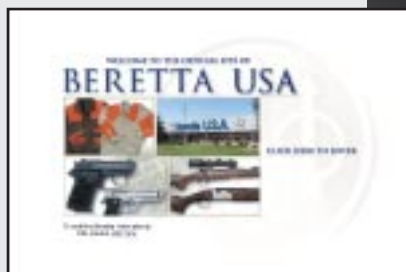
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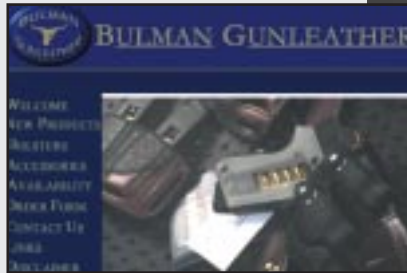
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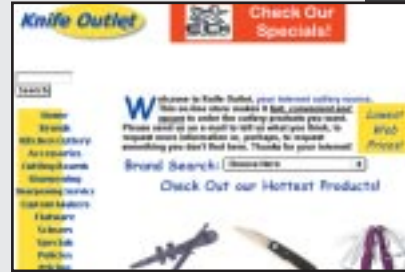
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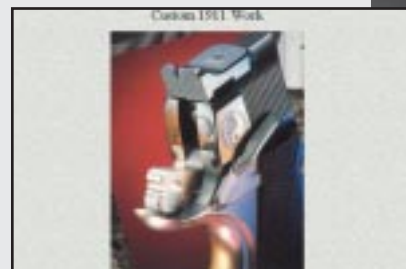
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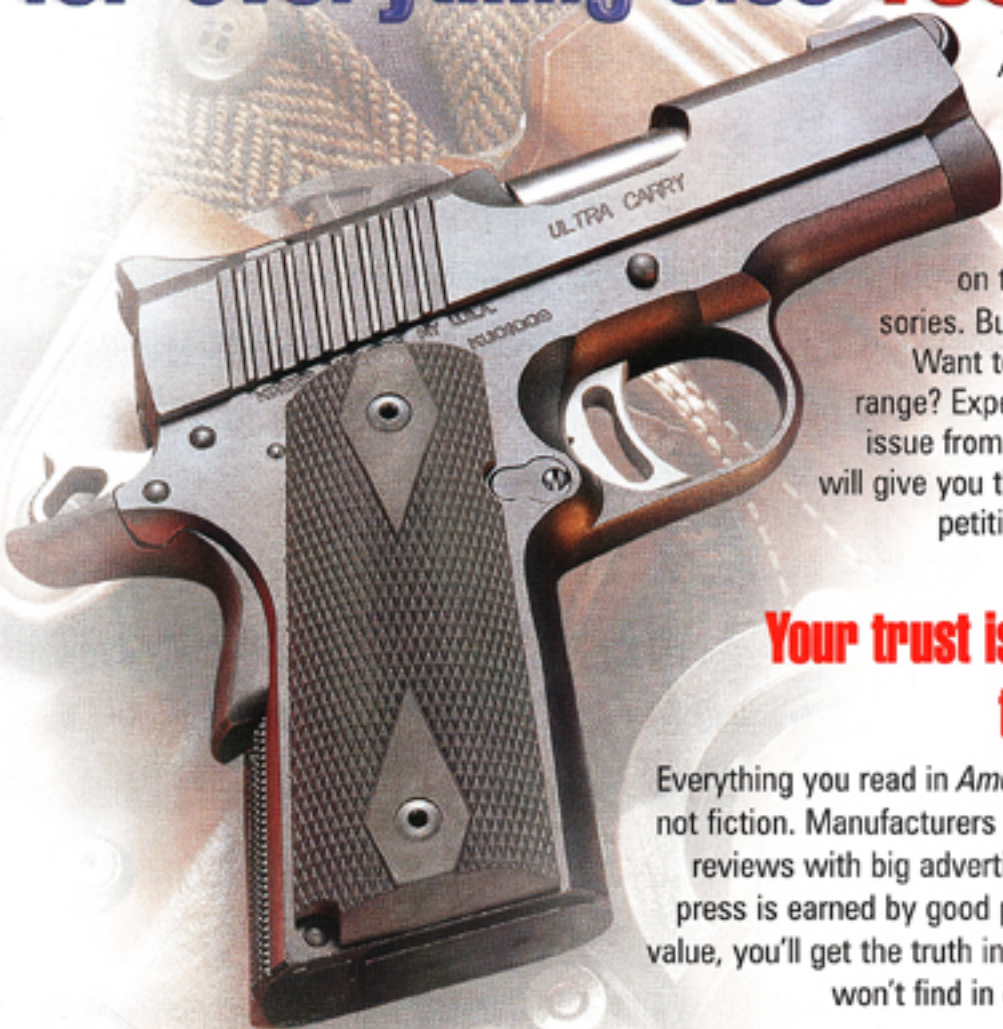


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MR30 PRECISION RIFLE-LW



By Barry Dueck

Specially designed for extreme long-range accuracy and rugged durability, a new tactical rifle from custom gunsmith Dave Lauck of D&L Sports features a benchrest-quality action and a highly innovative design. As a full-time police officer, Lauck understands the special requirements of a tactical rifle. He has addressed those concerns in this radical .308 Win. that weighs 14 pounds and is capable of 1/2-inch groups at 300 yards.

Despite weighing more than a typical "heavy barrel" sniper rifle, Lauck's MR30 Precision Rifle-LW is comparatively light; his standard version weighs 27 pounds! Built from the ground up as



an extremely accurate, unbelievably rugged sniper rifle, the MR30 is centered around a specially modified Nesika action. Nesika is well-known in the benchrest community for unparalleled precision and quality.

Lauck orders his actions from Nesika with an extractor redesigned to grab deeper on the casehead. The ejector is also modified to be more positive for the increased bolt manipulation speed a sniper may employ. Due to a special clamping sleeve design of the stock, all mounting holes on the top and bottom of the action have been eliminated.

The remainder is true Nesika. The action employs a one-piece bolt body. Not a one-piece with a bolt knob welded on, but a true one piece. The bolt handle and body are machined from the same piece of steel rather than the knob being silver brazed or welded in place like most rifle bolts. The action itself is manufactured with EDM technology and CNC machined to very tight tolerances. The Nesika action alone costs more than a complete Remington Model 700 rifle.

A massive .300-inch thick recoil lug is locked between the action and the 20-inch Hart-fluted, 1:12 twist, stainless barrel. A deep, protective crown is cut into the muzzle with a 60-degree angle leading into the rifling, which offers protection as well as durability to this accuracy-critical area.

Precision Machining

Lauck cuts the chamber and throat in the Hart barrel in two separate steps; this allows the rifle to be tuned for 168-to175-grain BTHP factory match ammunition. Very few police and mili-

Right: Everything about this rifle is made to be as rigid as possible. Because the Neskia action is built as a single shot, reserve rounds are stowed within easy reach of the action.

Four mounting rings, rather than the normal two, insure complete rigidity of the scope as well. Below: The buttstock is fully adjustable for length of pull, buttpad height and cant as well as comb height. Note also the mono-pod built into the bottom of the pistol grip.





Right: Given the rifle's weight of some 27 pounds, the barrel was not fluted to reduce weight, but rather to make the barrel stiffer and to give more surface area for keeping the barrel cool.

tary snipers are allowed to handload their ammunition, so the rifle is setup to maximize the performance of factory match ammo.

Amazingly, Lauck installs the Hart barrel on the Nesika action with a snap of the wrist — by hand! Due to the perfect mating surfaces offered by the trued action, torquing the barrel into the action is neither necessary nor desired. Torque would add stress to the action, degrading accuracy. A barrel vise is required, however, to break the barrel-to-action seal if and when replacement of the barrel is required.

An integral scope base is machined into the upper mounting block of the stock and attached with a unique six-bolt arrangement that sandwiches the Nesika action between two blocks of solid aluminum.

A channel in the forend allows the recoil lug to drop through, resting only against its rear face. This type of rear-only lug contact, combined with a completely free-floated barrel, is becoming





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Two forend rails run along each side of the lug channel until they are connected with a bipod adapter. This adapter is secured to a Harris bipod with four Allen bolts. Lauck designed this bipod attachment because he doesn't feel the usual sling swivel attachment used to mount a Harris bipod is durable enough for a tactical rifle.

Single-Shot By Design

The area below the action is solid — no magazine. Lauck designed the rifle as a single-shot. A single-shot sniper rifle? There are reasons for such an unconventional approach.

The primary reason is rigidity. When a magazine well is machined from an action, quite a bit of steel is removed, which weakens the action and reduces its rigidity. This weakness can result in compromised accuracy.

The second reason is human error. Bolt-action rifles are thought to be perfectly reliable without the moving parts of a semiauto, but the truth is that a manually cycled bolt-action is not as



reliable as Mr. Mauser might wish. Bolt-action rifles jam. They don't jam because the mechanism failed but because the operator failed to manipulate the mechanism properly. Short-stroking the bolt is a common error, but other malfunctions can occur when an operator is under duress.

When firing more than the three to five rounds in a typical magazine of a bolt-action, the operator must make choices when the magazine runs dry. Reloading the magazine on a turn-bolt under duress is tricky. Single-feeding rounds into the rifle can also lead to problems. Magazine-fed bolt-actions don't feed as reliably when operated in single-shot mode because cartridges can become off-center and run into every sharp corner inside the rifle as they bump and crash their way into the chamber.

Instead of risking a malfunction on a crucial follow-up shot, the Lauck design operates on the funnel principle. A funnel loosely describes what the inside of the MR30 action looks like to a cartridge. There is a pronounced taper that guides an incoming cartridge straight into the

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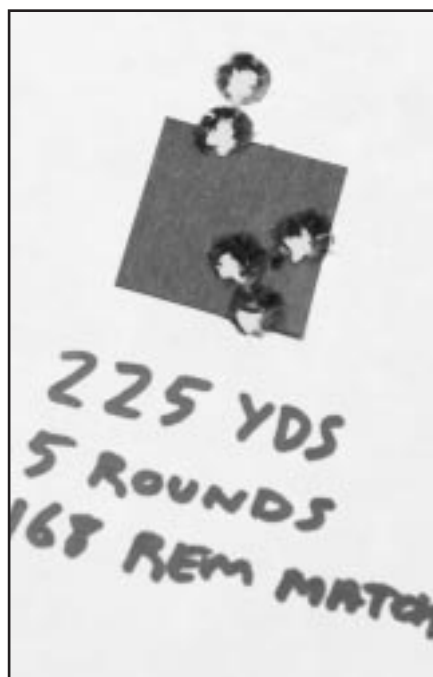
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Looks good, right? Actually, this was about the worst performance the rifle turned in. Sub-half MOA groups were the norm.

chamber. The rifle can be loaded very swiftly, one round at a time. In fact, in Lauck's practiced hands, the rifle has been able to score multiple long-range hits faster than a fellow competitor could with a semiautomatic Springfield Armory M1A.

Custom Features

Behind the solid action base is a vertical grip that duplicates that of a 1911 pistol. Lauck, an accomplished 1911 pistolsmith, extended his admiration for John Browning's legendary design of this great pistol to a rifle.

Lauck skeletonized the butt to remove excess weight, leaving behind only the structural areas for attaching a fully adjustable recoil pad, cheek piece and a clever elevation-adjustment monopod.

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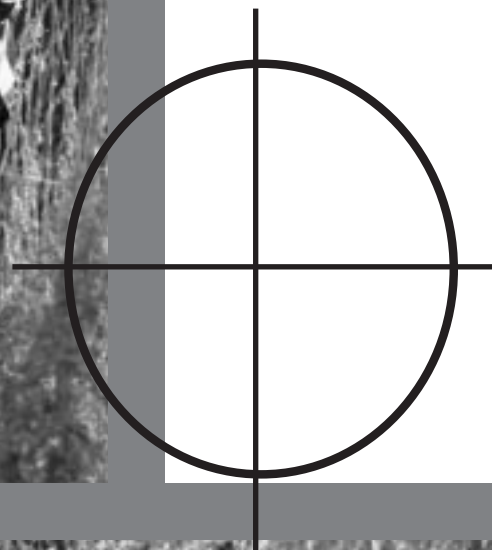


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change the hold.

D&L has commissioned Leupold to make a custom reticle that features dots spaced at 3 MOA, center to center, on the windage crosshair, or the horizontal wire. That's 3 inches of drift at 100 yards. The elevation turrets are in 1/4 MOA, so it's convenient to have the windage crosshair also calibrated in minutes.

Range estimation with the D&L reticle is accomplished by placing the duplex portion of the vertical crosshair such that the thin-to-thick section is at the top of the target. Note the setting in your data book where the horizontal crosshair intersects the target at a specific range. As the range increases, the crosshairs move farther down the target. The intersecting point for every 100 yards should be noted in your data book by placing a line at the point the crosshair splits the target. This becomes your "built in" range finder.

Field Testing

On sandbags, the Lauck rifle behaves more like a precision benchrest gun than a sniper rifle. The recoil signature is highly efficient, tracking straight to the rear like a benchrest rifle, which allows the crosshairs to stay on target.

Firing from the prone position has a non-traditional feel, although it is very stable. What is unusual and different is the placing of the support hand. Normally, the weak-hand is at the rear of the stock, carefully squeezing the rear sandbag to make minute adjustments in the point-of-aim. However, with Lauck's remarkable stock, the support hand is placed farther forward on the gun, resting on the monopod that protrudes from the base of the pistol grip. The support hand makes tiny adjustments for elevation by nudging the monopod up or down.

For speed of reloading with this funnel-shaped single-shot action, Lauck recommends a left-handed action for right-handed shooters. This speeds the loading of the rifle by using the support hand to work the bolt and load from an ammo tray that is mounted just forward of the action.

The accuracy of the rifle I tested stayed within what I would call the "sub-half-minute" category. By this, I don't mean that one group measured .5 inch at 100 yards; I mean that when the shooter did his part, the average of all groups fired measured .5 MOA. At 100 yards, the best five-shot group emerged with Hornady 110-grain TAP (Tactical Application Police) measuring .284 inch. This round is designed for law-enforcement applications; very little over-penetration and explosive terminal ballistics yet impressive match accuracy. Because of a light weight, flat-base design, the TAP bullet is not ideal for long-range application.

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Black Hills' 168-grain HPBT load yielded .380 inch for five shots at the 100-yard line. At distance, the Black Hills match ammunition provided the best accuracy with a .491 inch (.163 MOA) cluster of five shots at 300 yards. Moving to 450 yards, the Black Hills 175-grain load grouped 2.390 inches (.531 MOA). When we trotted all the way out to 900 yards, the high ballistic coefficient of the 175-grain Black Hills tackdriver really shined with a five-shot group that measured 4.024 inches (.447 MOA).

For the ballistically curious reader who might wonder how a 20-inch barreled rifle can fire accurate groups at 900 yards, we must look to the chronograph. The Black Hills 175-grain BTHP averaged 2,605 fps at the muzzle. In a prior series of tests, I had chronographed other rifles using the same lot of match grade .308 ammo from the renowned South Dakota-based manufacturer. The velocity results for two Remington Model 700 PSS rifles with 26-inch factory barrels were exactly where they should have been, averaging 2,598 and 2,607 fps.

Why then can a 20-inch barrel produce the same velocity? Quality match barrels tend to increase velocity as well as accuracy. The main factor contributing to the Lauck gun's accuracy is the quality of the Hart barrel with its match-grade tolerances for the bore diameter, finish, rifling profile and the many other small yet important differences that only the best custom barrels can offer.

Frankly, the accuracy was impressive, but it didn't surprise me. I have never seen a rifle with the rigidity and structural integrity that compares to Lauck's remarkable design. Handmade custom rifles don't come cheap. The price of the MR30 Light Weight is \$5,900, not including the scope.



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What is a low-tech combat rifle and why would anyone want one?

Low-tech combat rifles are manually-operated and magazine-fed battle rifles such as the '03 Springfield, the Mauser 98 and the Lee-Enfield. And there are a number of reasons to own one.

First, possession of bolt-action surplus military rifles has remained relatively unrestricted across this country and even Canada. And whereas a pre-ban semiauto military rifle costs at least \$850 even on the used market, a low-tech combat rifle can cost under \$200 – even under \$100.

But most importantly, though military surplus rifles are inexpensive, they offer superb performance.

The Three P's

Low-tech battle rifles deliver the three "P's" of combat riflery: Precision, Power



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Author's pal Jim Main used a cut down .303 No. 4 Enfield for years as his knock around utility and hunting rifle. In his right hand is a sporterized No. 4 and in his left, an as-issued British Jungle carbine.

and Penetration. Though most civilians will never need a combat rifle (at least in North America... Perhaps a better case for owning a battle rifle could be made in Israel or Bosnia), these grand old bolt guns serve a number of valid roles.

If you live or work in the country, these low-tech combat rifles are excellent grab-and-go tools for dealing with predators such as foxes, coyotes, bobcats and cougars raiding livestock and pets. And they dispatch both wild and domestic animals injured on roadways, which over the years is something I have had to do on several occasions.

There have also been a number of times when a low-tech combat rifle taken along for the ride solved a serious problem in an unconventional manner. In one case my pickup was stuck on a dirt road. I was able to get it unstuck by driving it off the road, but could not get it back onto the road because of a large, low-hanging tree limb that blocked my access. I had neither an axe, hatchet nor saw. And after a little thought I simply loaded my rifle — a .303 No. 5 Enfield — shot the limb off with a couple of well placed shots, and was quickly on my way.

An even more bizarre situation illustrates the versatility of good, powerful rifles. I was living in New England on a large lake whose water level was controlled by a dam. One winter during which the lake froze nearly 2-feet thick I received an emergency call from the dam's keeper. The ground was frozen and created run-off and unseasonable rains raised the lake level fast, putting many lake residents in risk of flooding. Because the spillway gate and its controls were



The square looking magazine of the .308 2A1 Enfield differentiates it from its .303 No. 4 brother.

frozen in thick ice the dam could not release its excess water in order to prevent the flooding.

While inspecting the apparatus with the dam-keeper and chopping and cutting the ice to no effect, the water level rose as we worked. It was clear that we needed to free up the gate controls quickly to avert a disaster. I had an inspiration and grabbed my ever-present rifle, in this particular case a slightly modified '03A3

chambered in .30-'06.

After climbing atop the dam, I shot down into the ice near the frozen controls and gate and just as I had expected the FMJ ammunition drove right through that thick ice creating substantial hydrostatic shock in the water. The blast shattered the ice around the controls and within three shots the controls were free, the gate was opened, and the potential flood situation was averted. To this day I cannot think of another way that

task could have been accomplished as quickly and efficiently.

Fine Jungle Carbine

For many years my favorite low-tech combat rifle has been a beat up, worn out .303 No. 5 Lee-Enfield Jungle Carbine. It is short, light, handy, reasonably powerful, quite accurate, and equipped with an excellent aperture sight. The Enfield has a 10-round magazine capacity that's quickly reloadable with a spare magazine or with five-round stripper clips.

The Lee-Enfield action is the fastest of all the bolt-actions

because it has an extremely short bolt throw, a result of its rear locking lugs. The bolt lift is well under the typical 90 degrees, plus it has an exceptionally smooth action. I would bet that I could keep up just as fast an aimed rate of fire with my Enfield as an equally skilled person could achieve with his lever-action. The simple fact is that Lee-Enfield military rifles are arguably the best manually-operated combat rifles ever fielded, with capabilities far exceeding even the immortal Mausers.

The Jungle Carbine is little more than a shortened and lightened No. 4 Mark 1 Lee-Enfield. The No. 4 Enfields are readily available on the military surplus market in nice shape for \$100 or less clear across the



Author feels that this cut down .308 2A1 Enfield would be even better with a peep sight and synthetic stock.

country. I bought my best example, a No. 4 Mark II, from Century Arms.

The rifle shown here started as a No. 4 rifle made by Savage during World War II. Savage made about 1 million No. 4s, so this is no rare collector's item. Interestingly, this rifle has a two-groove barrel. While some people avoid them, the two-groove Enfield barrels generally handle cast bullets better than the four- and five-groove barrels. They also have the pleasant characteristic of shooting handloads with common .308 jacketed bullets extremely well, negating the need to procure the .311 bullets typically used in .303 rifles.

John Taffin loaned me his rifle, a No. 4 with the barrel cut and crowned to 20 inches. He had a sporting-style, ramp-front sight base installed and a high bead-type blade fitted so that he could achieve a good zero with the aperture rear sight that came on the rifle. Rather than sporterizing the military wood, he replaced it with an inexpensive but extremely practical black synthetic sporter stock made by Advanced Technologies.

The result is a light, fast-handling sporter with all the ruggedness, reliability and features of the best manually-operated combat rifles ever fielded. It is innocuous looking but extremely capable. I also doubt if it cost more than \$200 start to finish. This is precisely the kind of simple, inexpensive conversion of a No. 4 Enfield that I advocate for the low-tech combat rifle role. It would be even less expensive if the military wood had been cut down, but not quite as versatile and good looking.

Classic Looks and Feels

If you like the look and feel of the military stock, there are several other options. Navy Arms offers No. 4 rifles with the barrel cut to 20 inches, the mili-



The sporterized No. 4 is a light-weight rifle that is easy to shoot well. Jim Main uses a tree for a supported shot.

tary front sight moved back and refitted, and the forend shortened under the sling band in order to retain the full-length military look. This makes for a handy, fast-handling rifle with all the good traits mentioned earlier that retains the rugged looks of a bolt-action military rifle. It is somewhat heavier than a rifle such as Taffin's. The cost is well under \$200. You could do the work, or have it done yourself, for very little cash.

For a slightly higher price, Navy Arms offers No. 4 rifles cut down and modified to the No. 5 Jungle Carbine configuration. Though it embodies the sexy good looks of the original No. 5 Jungle Carbine, compared to the simple cut down No. 4 it has a shorter barrel (18.7 inches) and a longer overall length because of the flash suppressor.

One of the major advantages of the

No. 4 rifle for a project like this is that it has a very rugged aperture sight as standard. However, some people just do not like aperture sights. In this case, the same approach mentioned above can be taken with the open-sighted .303 No. 1 Mark III Lee-Enfield instead of the No. 4. These venerable rifles, which first saw service in World War I, are also readily available on the surplus market for under \$100. Even though its parts are not interchangeable, the Mark III has all the good traits of the No. 4 — except for the aperture sight. Plus it has a lighter contour barrel.

Naturally, a Mark III can also be cut down and modified just like Taffin did with his No. 4. Similarly, Navy Arms offers a version with a 20-inch barrel and the military stock cut down and refitted. The resulting carbine is virtu-



The low tech "sporterized" No.4 on top was inspired by the Jungle Carbine on the bottom. The difference is that the former is probably even better, is readily available, and less expensive.



Lee Enfield combat rifles: (top to bottom) .303 No. 4, the Ishapore .308 2A1, and the .303 No.1 Mark III.

ally identical to experimental carbines that were made up in World War II by both the British and Australians in need of a jungle carbine.

There is also a very interesting variation of the Mark III Enfield on the surplus market that deserves more attention. This is the Indian 2A1 rifle made at the Ishapore arsenal in the 1960s. It is basically a Mark III Enfield in 7.62mm NATO (.308).

To handle the higher pressures of the .308 cartridge, the arsenal built the 2A1 actions out of a stronger alloy and used a superior heat treatment. These interesting rifles have a 12-shot magazine and can be reloaded using the NATO-type stripper clip. Typically a good specimen can be found for about \$125.

Like the No. 4 and Mark III, the 2A1 can be used just as it is. But also like these rifles, a shorter and

handier version works even better. You can have one cut down like Taffin's rifle; install either open or aperture sights, and you're there. Navy Arms offers a cut-down version in military dress, and they also have a version with a Jungle Carbine-type flash suppressor. The latter has the original open sights. For my money, however, it would be better with an aperture sight. I think so much of the 2A1 that I am in the process of having a Cooper-type scout rifle built on one. But this deserves a story of its own.

Ready and Waiting

To be useful, a rifle like this must be able to work quickly.

Thanks to detachable magazines, they can be stored unloaded but be fully

loaded in an instant. In addition, all of the Lee-Enfields have a feature that lends to safely leaving the rifle with a round in the chamber or with an empty chamber and a loaded magazine. The British called it half bent. We would call it half cocked.

The striker on a Lee-Enfield has a middle position that when engaged locks the trigger, bolt and safety in place. From a safety aspect, a young child would not know how to disengage it nor have the strength to do so. Typically I leave my low-tech Lee-Enfield combat rifles (I have several) with a magazine loaded with two rounds less than the maximum to save the magazine spring, an empty chamber, and the striker in half cock. To



put it into action all I have to do is pull the striker fully to the rear and cycle the bolt and it is ready to shoot.

Whether you call it an urban combat rifle or a low-tech combat rifle, just having a good, rugged and powerful utility rifle handy is a prudent thing to do for a wide variety of reasons. It just makes sense to me to base such a rifle on



one of the best bolt-action combat rifles that ever existed, one of the Lee-Enfields. You get durability, reliability, accuracy, power, a high magazine capacity, fast loading and reloading, fast operation, an excellent ammunition selection, and wide ammunition availability — all in one relatively inexpensive package. What more could you ask for.

Remember that when the Soviets invaded Afghanistan, the Afghani guerillas were armed primarily with Lee-Enfields. With them they fought the Soviets to a stand-still, and with the help of a lot of captured equipment and some American Stinger ground-to-air missiles, eventually drove them out of their country.



Sources

Century International Arms
[802] 524-5268
www.centuryarms.com

Navy Arms Company
[201] 945-2500
www.navyarms.com

Hornady TAP

HIGH TECH AMMO FOR LOW TECH RIFLES

The .303 British cartridge has several major advantages over the .30-30, most notably: greater range and power, and the availability of military surplus ammunition. The same holds true for the .308 or 7.62mm NATO cartridge. However, the latter has the added advantage of availability of ammunition in a much wider range of bullet weights and configurations. Indeed, Hornady has just recently released a special .308 load that is nearly ideal for the low-tech or urban defense rifle.

The new round is marketed under the Hornady Tactical Application Police (TAP) label. It launches a special 110-grain Hornady AMAX bullet at a screaming 3,170 fps. With a 200-yard zero, it is only 7.26 inches low at 300 yards. Best of all the bullet is designed to not exit from a solid hit to a human torso. This largely removes the very real concern in a home-defense situation of shooting a bad guy only to injure or kill a family member or a good guy. At the same time, like most high-power rifle cartridges, it will still defeat the body armor that has recently become so popular with some of the high-tech criminal element. It also has significantly lower recoil than typical .308 loads with heavier bullets.

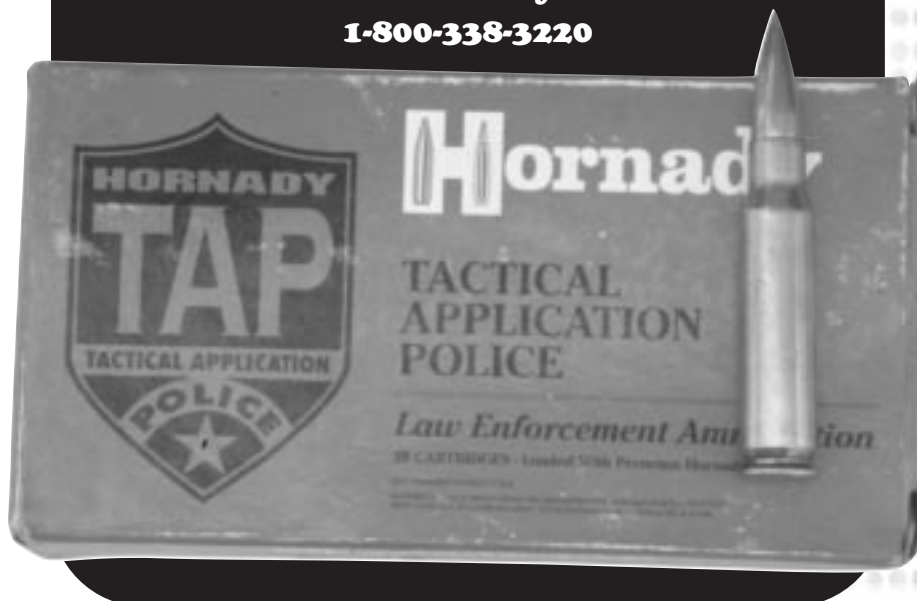
Initial testing indicates that it should create a truly viscous wound with adequate penetration to be nearly instantly effective in incapacitation with a solid torso hit. In most rifles through which it has been tested, accuracy has been outstanding. Indeed, many police snipers have adopted it as their round of choice. Should your rifle be of the more high-tech type, there is no worry about functioning because it was designed to operate .308 semi-automatics like the M1A/M14 and FAL.

If you are setting out to make yourself a low-tech or urban combat rifle out of a Lee-Enfield, the availability of this ammunition in .308 should offer a large incentive for building it on one of the .308-chambered Enfields.

Hornady Mfg. Co.

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Arsenal USA's American-made AKs

Photos and Text by
Charles Cutshaw



Soviet-era AKs are reborn in a Texas factory.

I became aware of the Kalashnikov assault rifle in 1966 as a young U.S. Army Infantry officer on my way to the Promised Land, otherwise known as Vietnam. In those benighted days, we didn't know much about the AK. The differences between the original AK-47 and its variants, including the AKM and clones produced by Soviet surrogates, were unknown to most of us in the military. The AK was simply the enemy's infantry rifle, and by the time I arrived in Vietnam in 1969, I didn't know or care how it differed from my standard M-14.

Upon my arrival at Headquarters MACV in Saigon, the assignment officer looked over my paperwork and informed me that I was going up-country as an advisor to the Vietnamese

Army. I passed the standard MACV advisor process, and was issued my M16A1. The armorer handed me the rifle across the table with its receipt and said, "Don't bet the farm on this thing, Dai Uy," which is Vietnamese for captain, my rank at the time. I'd heard horror stories about the M16 but was non-plussed. Shortly after my arrival, I obtained a "Swedish K" (Carl Gustav) 9mm SMG along with a World War II Remington M1911A1. I also obtained an M79 40mm grenade

launcher as a backup for when things went really bad. But I never fired a shot from the M16 issued to me upon my arrival. It sat in a locker in my hooch until I returned it when I left Saigon a year after my arrival.

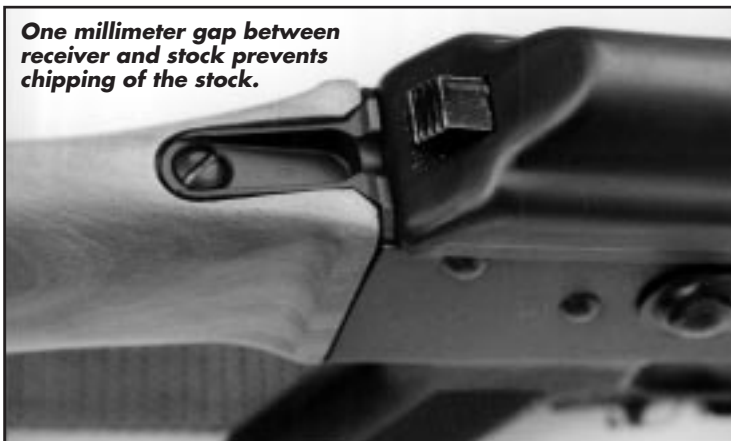
However, I soon came to appreciate the AK.

During my tour, I captured several AKs — almost all of them Chinese Type 56-1 with folding bayonets. I took one as my personal toy and kept it throughout my tour. I

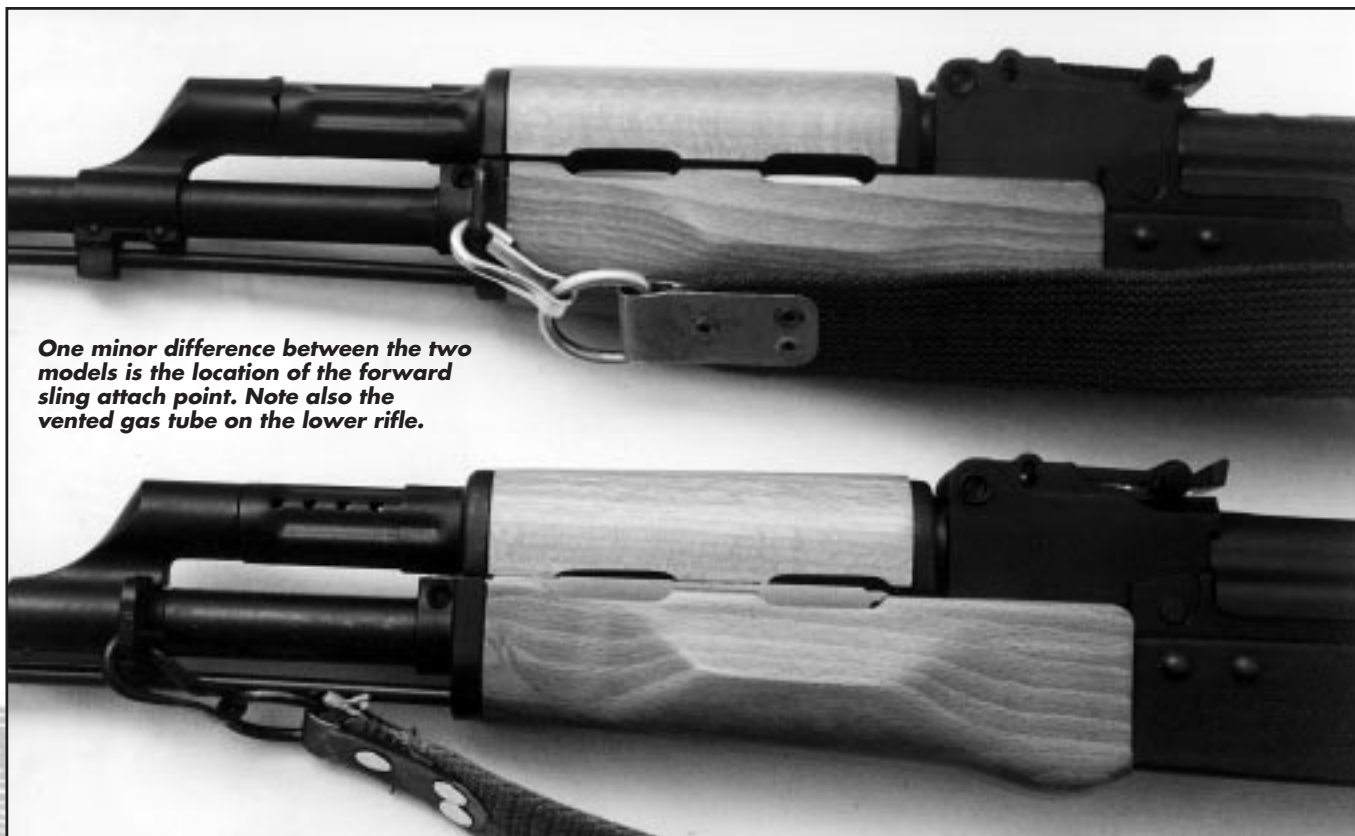
had the rifle for about nine months and shot it during those infrequent periods when I had nothing else to do except get drunk. The finish was rough but kept the exterior free from rust. The furniture was roughly finished plywood with a varnish that looked as if it had been applied with a broom. I never once cleaned that rifle. In the humidity of Vietnam and the salt air of the coast, it quickly rusted. The operating rod rusted solid into the gas tube within a few days after having been fired.

I had to kick the charging

One millimeter gap between receiver and stock prevents chipping of the stock.







One minor difference between the two models is the location of the forward sling attach point. Note also the vented gas tube on the lower rifle.



Notice the AK-47-style top cover on the SSR-85C (left) vs. ribbed AKM-type cover of the SSR-85B.

handle with my boot every time I wanted to shoot. Yet once I'd done that, the rifle worked every time — and no, I didn't store the AK with a round in its chamber. It was well capable of hitting a man-sized target at 100 yards. It never failed to function and was always "minute of human" accurate. The damn thing just wouldn't quit! Whereas our M16A1 required intensive maintenance to keep it running, the AK's reliability made a deep and lasting impression on me. But once I left Vietnam I didn't encounter the AK again until semiautomatic AK clones arrived in the USA during the 1980s.

Banned in the USA... Almost

Most AKs fell victim to bans, and imports were altered with stupid-looking thumbhole stocks to meet equally stupid BATF regulations. Importers added US-manufactured components to provide rifles with a pistol grip configuration, but almost all imports were made of used parts in various states of wear. Most of these commercial AKs were pretty much the same as the Type 56 I had in Vietnam — rough but serviceable. Accuracy? Not very good, but certainly capable of hitting a human or deer-sized target out to 100 yards.

And so was the fate of the legal AK until Arsenal USA began manufacturing AKs in Texas and introduced a whole new era of Kalashnikov-type rifles in the United States. In a word, Arsenal USA's AKs are NICE! In

fact, they are the best finished AKs I have ever seen. Moreover, these AKs are composed of brand-new, never-issued parts and are quite accurate. No, they aren't match rifles, but the examples that we received for test both grouped 1.5 to 2 inches at 100 yards, depending upon the ammunition we used.

Arsenal begins with new receivers from FEG — a Hungarian firm that exported semiautomatic AKM rifles called the SA-85M until 1997. In fact, the left side of Arsenal's receivers are so marked. Arsenal places its own markings on the right side of the receiver. These include Arsenal's model number and serial number. Before parkerizing, the receivers are finished, polished, cut and ground to ensure reliability and accuracy. The top rail is polished along its entire length. The ejector is trimmed to size. Both ends of the receiver are ground even with the trunnions. The magazine well is cut to size. There are several other operations that Arsenal performs on these rifles to ensure quality and accuracy, but the changes I've already mentioned are the significant ones.

Arsenal USA also offers a close replica of the Hungarian AMD-63 version of the AKM, with a forward pistol grip and sheet-metal lower handguard. This rifle also uses FEG receivers and new Polish components. We did not evaluate Arsenal USA's AMD-63 replica rifle, but it is an interesting variant of the AK family that might well be suited to shooters who wish to have something a little different than the run-of-the-



Take-down is standard AK. No surprises here.

mill AK. Since the AMD-63 replica is identical to the others except for its handguard and forward handgrip, performance should be similar.

Most of the rifle's major metal components are purchased from the Polish Ministry of Defense. What is significant about these components is that they are brand-new, have never been issued, and were hand-removed from war reserve Polish PMKM (AK-47) and PMKMS (AKMS) rifles. These rifles were manufactured during the Cold War, test fired, preserved and stored in the event that the Cold War turned hot. With the demise of the Warsaw Pact and Poland's entry into NATO, the rifles were declared surplus.

As mentioned, there are two types of rifles now being manufactured by Arsenal using factory-new Polish components. Both have the AKM-type "wedge" muzzle brake that helps prevent muzzle rise in full automatic fire. The brake is permanently fixed to the threaded muzzle via a .25-inch hole that is welded and then ground flush and polished for cosmetic appearance. Of course, per federal law the nefarious bayonet-mounting studs must be ground off to prevent bayonet charges in the streets. Barrels are standard AK, but those of the PMKM were originally screwed into the receiver, rather than the AKM system of pinning the barrel in place. Arsenal USA removes the threads, which turns the breech end of the barrel down and slightly oversizes the fit to the FEG receivers. It is then pressed into place and pinned.



Receiver markings of the SSR-85B and SSR-85C models





Quality components, well-machined and properly hardened, add up to the nicest civilian AKs yet.

Fit and finish of these rifles is extraordinary. The metal parts are finished in a satin black phosphate of uniform color and density. The furniture, save for the pistol grip, is of Hungarian elm wood steamed for hardness, sanded fine, and given a nice light tan color with an attractive grain pattern. The wood is finished with a hot wax that penetrates the wood and highlights the grain. Fit of wood to metal parts is of very high quality and on par with commercial rifles. There is a 1 millimeter gap between the rear of the receiver and the stock, but this is present to prevent the sheet metal receiver from damaging the edges of the stock. Recoil is taken by a large inner wood piece that is less sub-

ject to damage. The Polish metal components are all serial numbered in the European tradition, and all numbers matched on the rifles we received for testing.

Of course, the receiver serial numbers did not match the other parts, as these were removed from the rifles and replaced by new FEG receivers. The required U.S.-manufactured components are the pistol grip, trigger, hammer, disconnect, gas piston and slant muzzle brake. Each rifle is also equipped with a Buffer Technologies recoil buffer as standard equipment — a nice touch. Both rifles are provided with a five-round magazine, sling, certificate of compliance and politically-correct lock. Despite the fact that

a 30-round magazine is not included, both rifles can legally accept high-capacity magazines without modification.

Putting It To The Test

Each Arsenal USA rifle is sighted in to shoot point of aim at 100 meters prior to leaving the factory. Before a rifle is shipped, the final shot must be inside a .75 inch central circle at 25 meters. This equates to approximately 1.5 to 2 inches at 100 meters. If a rifle's front sight must be moved more than 1 millimeter in order to meet accuracy standards, it is returned to the plant to have the front sight straightened. This does not result in a sub-minute of angle rifle, but it must be recalled that these are essentially short-barreled military carbines. In that context, their accuracy is as good as any out of the box military rifle at 100 meters, including the highly touted M-14 or M-1 Garand in their true military configurations.

My sole minor complaint regarding these rifles is the standard sling. The sling that accompanies the SSR rifles is made of flimsy nylon with a plastic attachment snap and is so narrow that it does not properly fit the sling swivel mounted on the rifle's buttstock. This sling and its attachment hardware are so flimsy that I was reluctant to use it to steady the rifle during testing. I therefore bought two robust East German surplus web slings for approximately \$1 each and replaced the factory slings on both rifles. Although this complaint is a minor one, Arsenal should take notice — a good rifle deserves a decent sling. (Note: Arsenal USA advised us that the nylon slings have now been replaced by sturdy canvas items.)

As mentioned, Arsenal produces two SSR rifles. The first rifle is designated the SSR-85B. This rifle is made up using components dismantled from folding stock PMKMS rifles. Naturally, the folding stocks are not available here, so the new rifles are made with fixed stocks. It should be noted that neither of these rifles are cut apart; both are dismantled by hand to avoid damage. The second rifle is designated SSR-85C. This rifle uses components removed from Polish PMK AK-47-type rifles. The differences between the two rifles as manufactured by Arsenal are minor, but noticeable to the trained eye. In fact, the choice between the two is purely one of aesthetics, as both SSR-85 variants are functionally identical. The differences between the two are below:

SSR85B

AKM-type front sight
AKM-type gas tube
AKM-type dust cover
Phosphated bolt

SSR85C

AK-47-type front sight
AK-47-type gas tube
AK-47-type dust cover
Plain bolt

I tested each rifle using Wolf Ammunition made by the Tula Ammunition Plant in Russia. I conducted our test firing at 100 yards using both jacketed, hollowpoint (JHP) and full metal jacket (FMJ) ammunition. My three-round group sizes from both rifles were approximately 1.75 inches with the hollow-point ammunition and slightly less than 2 inches using the FMJ. Functioning of both rifles was flawless, regardless of the ammunition I used. I feel obliged to mention that the Tula ammunition imported by Wolf works well in these rifles, gives good accuracy, and is so inexpensive that domestic manufacturers have all but ceased production of 7.62x39mm FMJ cartridges. The CEO of one major manufacturer told me that he was no longer producing ammo in this caliber because 7.62mm bullets cost him more than Wolf's retail price for its cartridges.

Like most AKs, these rifles are great fun to shoot, but their accuracy is better than I have come to expect from an AK-type rifle. After our formal testing for group sizes, I set up clay pigeons on the range berm and shot them using the Arsenal rifles. Breaking clay pigeons at 100 yards with these rifles was easy and fun because of their inherent light recoil and accuracy! They are both so accurate and ammunition so inexpensive that plinking with the rifles is within the budget of virtually everyone. Moreover, pre-ban high capacity magazines are currently plentiful and likewise inexpensive.

Handling of both rifles is about what one would expect from any AK. They are short and extremely handy. With five-round magazines, they are excellent deer rifles. The length of pull is identical to all other AK-type rifles I have ever encountered — on the short side. The single-stage trigger pull of both rifles was again typical Kalashnikov in that both had lots of take-up. But both triggers broke cleanly at 4 pounds with only a slight bit of overtravel. Arsenal USA informs us that the trigger of each rifle is hand fitted and that every production SSR has the same quality trigger pull as our test rifles. Disassembly and assembly is typical AK — straightforward and easy. What makes these rifles different is their high quality, coupled with value.

I make no bones about it — I like these rifles. They are accurate, fun, simple and inexpensive to purchase and operate. Given the price of the rifles, and the present availability of ammunition and high-capacity magazines, I believe that Arsenal's SSR rifles are a bargain that is hard to beat. My only (minor) complaint is the unworthy sling, which has now been replaced.

Cold War Brainchild

What does the future hold? Arsenal has hired Mr. Ivan Kolev, formerly chief engineer and designer at Arsenal (Bulgaria), one of the world's major manufacturers of Kalashnikov-type small arms. Mr. Kolev holds the equivalent of a master's degree from Tula Institute in Russia and is one of



the most acknowledged experts of the AK's design. Mr. Kolev's presence is one of the reasons that Arsenal USA's rifles are so good — he knows the production of these rifles in a way nobody in this country possibly can. Mr. Kolev also used his connections in Bulgaria to acquire production tooling that is unavailable to any other domestic producer of AK-type rifles. He will also be making improvements to the basic design to meet American requirements.

For the immediate future, Mr. Kolev has designed a new receiver for Arsenal USA's rifles. This new receiver has 1.6 millimeter-thick walls, and, once arrangements are made for stamping equipment, they will be produced here. This receiver is notable for being stronger than the forged steel AK-47 type, albeit with the low production cost of the AKM-stamped receiver.

Arsenal USA is already making what are arguably the best semiautomatic Kalashnikov type rifles ever available in this country. And if appearances are any indication, the company is only going to improve.



MORE INFO

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Wolf Performance Ammunition
Tel: [714] 635-4246
Fax: [714] 635-9276
www.wolfammo.com



National Archives / R. Bruce.

By Charles W. Karwan

Photos Compiled By Robert Bruce

Not Much For Fighting

Debunking the Myth of the M1903 Springfield Rifle



The .30-'06 M1903 Springfield rifle is one of the most praised and beloved rifles in U.S. history. From before World War I until after World War II, in sports and matches and wars, the .30-'06 was probably America's favorite bolt-action hunting and target rifle. Between the wars, gun writers, several of whom were Army ordnance officers, heaped praise on the M1903 Springfield. It was the best military rifle in the world. It was the most accurate military rifle in the world, the rifle that led our troops to victory in World War I, the base for the ultimate hunting rifle. Whenever its name was mentioned, a train of superlatives followed.

To the M1903's credit, a major factor was that they were, without exception, whether made at the Springfield Arsenal, the Rock Island Arsenal or by Remington, exceptionally well-made when it came to fit and finish. M1903s manufactured during peacetime were made to higher standards of workmanship than the vast majority of commercial hunting rifles ever made. But this does not apply to the rough and

ready M1903A3 rifles produced by Remington and Smith Corona during World War II.

Through articles in the popular gun press and the propaganda of Army and Marine Corps drill instructors, the M1903 Springfield ultimately became a legendary rifle. A few years ago this point was driven home on the editorial page of a major gun magazine by a reader who said that he would rather go into combat with an M1903 Springfield than an M16. Such is the support for legends, and I'm glad this guy wasn't in charge of supplying me with weapons in Vietnam! As legends are entertaining stories that just aren't true, so it is to a large extent with the legendary M1903 Springfield.

Much of the fame and good name of the '03 Springfield rifle springs not from the rifle's excellence but because it introduced the superb .30-'06 cartridge. In the United States, the .30-'06 M1903 Springfield sparked the age of modern high-velocity bolt-action rifles which still dominate the world's hunting fields and target ranges.

The original .30-'06 cartridge fired a 150-grain spitzer bullet 2,700 fps. This was a level of performance far beyond anything else ever seen in this country prior to 1906. Interesting improvements in gun powders gave the World War II version of the .30-'06 an ability to launch a 150-

Fully evolved M1903 Springfield and bayonet



grain bullet 2,900 fps. Currently Hornady has a load that hits 3,100 fps, at normal pressure as well.

Here was a cartridge and rifle combination truly exceptional for long-range accuracy. Nothing on the U.S. market at the time could touch it. Its flat trajectory made it possible for a hunter or soldier with a rifle zeroed 2- to 3-inches high at 100 yards to ignore range estimations on a deer- or man-sized target out to 250 yards or more. Equally important to hunters and soldiers was the fact that this high level of performance was available in a handy, light-weight rifle with only a 24-inch barrel.

From the time of its introduction in 1906 until several years after World War I, if you wanted the performance of the .30-'06 cartridge in a bolt-action rifle you pretty much had to get it in an M1903 Springfield. Thus the '03 basked in the deserved glory of its cartridge, and continued to do so well into the late 1930s until the Winchester M70 and the .270 Winchester cartridge stole some of its thunder.

A big part of the M1903's legend comes from its supposed combat record, particularly in World War I. If you ask most gun enthusiasts what was the primary combat rifle of the victorious U.S. forces in World War I, the majority will reply it was the M1903 Springfield. This is largely because the above-mentioned gun writers and Hollywood said it was.

But it wasn't.

Fact vs. Fiction

When the U.S. entered World War I, the Army only had about 600,000 M1903 rifles in the hands of its troops and in



An M1892 Krag-Jorgensen armed soldier dispatched to duty in the tropics. The .30-40 Krag was replaced by the M1903 Springfield.





USACMH / Robert Bruce.

storage. Many of these rifles were already overseas in places such as Panama and the Philippines. Even worse was the fact that the combined production capacity of the Springfield and Rock Island arsenals was grossly insufficient to supply the needs of our rapidly expanding Army, let alone our training needs and potential combat losses.

Fortunately, three large U.S. factories were already producing large quantities of the .303 British Pattern 14 Enfield rifles for the English. Since that rifle was originally designed around a rimless cartridge, the adoption of which by England had to be dropped because of the war, it was easy to convert the P14 to take the rimless .30-'06 cartridge. The resulting rifle with a few refinements became the superb U.S. Rifle M1917 .30-'06.

By the end of World War I, Winchester, Remington and Eddystone had produced 2.2 million M1917s, while the government arsenals produced only 312,878 additional M1903 rifles. The first few U.S. divisions deployed to Europe were armed with the M1903, but most subsequent units shipped-out armed with M1917s.

In June of 1918, the American Expeditionary Forces commander General

John Joseph Pershing asked that whenever possible for his AEF troops to be issued M1917 rifles. The M1917 became the primary combat rifle of the AEF and for all practical purposes of the U.S. Army. Though General Pershing was too diplomatic to step right out and say that the M1917 was superior to the M1903, it is unlikely he would have asked for what he didn't believe in.

Of the 43 U.S. divisions sent to Europe with the AEF, which amounted to almost 2 million men, ordnance records indicate that only 252,304 men were originally armed with the M1903. The balance of men were armed with M1917s. At best the M1903 equipped only about one quarter of rifle-armed AEF troops, who were often non-infantry.

Certainly the M1903 saw plenty of action, particularly early on in the war. But the big offensive of the summer of 1918 that ultimately ended the war was fought primarily by U.S. troops armed with M1917s, not M1903 Springfields.

American movies about World War I show American troops armed only with M1903 Springfields primarily because Hollywood had these available and because peacetime Army and Marines

carried Springfield M1903s. This gave the false impression that M1903s were the only rifles to see service in World War I in much the same way the Hollywood westerns had everyone believing that the Colt Single Action Army was the only handgun used in the West.

In spite of Hollywood's version, one of the most remarkable military feats ever accomplished with a rifle was Army CPL Alvin York's virtual single-handed silencing of a German machine gun battalion and subsequent capture of 135 enemy troops. And this was accomplished not with an M1903, but with an M1917 Enfield.

After the war, the M1917 remained the Army's primary rifle for a short while. The 1919 National Matches were shot using the M1917 instead of the M1903, and the M1903 came close to being mothballed. By 1920, however, the Army Ordnance Department mothballed the M1917 instead and brought back the M1903 as the primary U.S. military rifle, where it remained until the M1 Garand replaced it. Officially the reason for the change was that the Army had facilities to manufacture the M1903 rifle and spare parts whereas the M1917 had been made

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in commercial plants. Considering the huge quantity of M1917 rifles and spare parts on hand at the time, this reason does not ring true. I am sure the real reason was the “not invented here” syndrome applied to the M1917.

Lost In The Pacific

While the M1903 played an important secondary role in World War I, its use in World War II by U.S. forces was even less significant. When the Japanese invaded the Philippines in 1941, the Philippine Army was armed with 100,000 M1917 rifles. As were the U.S. Army units alongside them — though a few M1 Garands had appeared by then. The far fewer U.S. Navy and Marine troops stationed in the Philippines were armed primarily with M1903s. And the first ground combat fought by U.S. troops was fought primarily not with M1903s, but with M1917s.

The first significant counter-offensive of the Pacific campaign was the invasion

of Guadalcanal in October 1942, and it was conducted by Marines armed with the M1903 rifle. It is a matter of record that the commander of the 1st Marine Division was offered a large quantity of new M1 Garand semiautomatic rifles by the Army commander stationed in New Caledonia prior to the attack on Guadalcanal. Incredibly, he turned the offer down! Such was the legendary mystique of the M1903 Springfield.

The Marines quickly learned their mistake when M1-armed Army units showed up at Guadalcanal. They saw that the M1 was more durable, more reliable, and had a higher level of practical accuracy than the M1903, primarily because of its vastly superior sights. Even when an M1 stopped working semiautomatically, it still worked as a bolt-action. And it had the added advantage of holding eight rounds instead of the Springfield's five. Army troops on Guadalcanal had trouble keeping the Marines from “appropriating” their M1s.

The Marines quickly corrected their

mistake and replaced their beloved '03s with the more beloved M1 Garands. Thus, the M1903 Springfield was the primary fighting rifle in only the earliest Pacific theater engagements. And it was soon replaced by M1 Garands and M1 Carbines.

In the European theater of World War II, the M1903 was never the primary combat rifle of U.S. infantry units. Many were retained for rifle grenade-launching purposes, since early in the war there was no rifle grenade-launcher for the M1. It was hard to convince troops to forfeit their M1s in order to be an '03 grenadier. Once a grenade launcher was developed for the M1 in 1943, the '03s were phased out of this role as well.

In both theaters, M1903 and M1903A3 rifles were widely issued to Naval personnel, support troops, artillery crews, engineers and other non-infantry personnel who needed a rifle but were not expected to engage in frontline combat. By the end of the war, the M1 Carbine had largely taken over even that role.



The most significant combat use of the M1903 was as a sniper rifle equipped with scope sights. The Marine sniper rifle, an M1903A1 with a Unertl 8X target scope, was accurate but relatively delicate. It was slow and awkward because the large scope had to be manually pulled back in its mounts after each shot. The Army M1903A4 sniper rifle — an M1903A3 with a 3/4-inch tube, low-magnification Weaver scope with poor optics, inadequate durability and water resistance — was at best a marginally effective sniper rifle. Later on M1903A4 rifles were upgraded with 7/8-inch tube waterproof M82 and M84 scopes that were much better. But few, if any, actually saw action in WWII.

Thus the M1903 Springfield only served a secondary combat role for U.S. forces in World War II as well. It actually saw more frontline action in the hands of our free French and Chinese allies whom we supplied.

Kind Of Junky

The M1903's reputation for being highly accurate is deserved, but was achieved by match and sporter rifles. In its standard service grade, it was far from the most accurate military bolt-action service rifle in the world — which was how it was often portrayed. My considerable experience with service grade M1903s and a variety of different foreign military bolt-action rifles has taught me that Swedish M96 and M38 Mausers, Finnish M28/30 and M39 Mosin-Nagant rifles, Swiss Schmidt-Rubin K11 and K31 rifles, Canadian Mark III Ross rifles, Czech Mausers, British P14s and U.S. M1917s will all, on average, out-shoot service





Very early M1903. Notice the rod bayonet and very different front and rear sights.



"Rock Of The Marne" by Charles McBarron. U.S. Army Art Collection / R. Bruce.



***Panama circa 1942:
A "bushmaster" of
the U.S. Caribbean
Defense Command
demonstrates an
'03, shortened for
jungle fighting.***

grade M1903 Springfields. And though the M1903 is more than accurate enough to designate it a good combat rifle, its problems lay elsewhere.

While the fit and finish of the M1903 was always topnotch, the quality of its metallurgy and the heat treatment of its receiver and bolt were not. Almost the first 1.1 million '03 Springfields produced, including most of the M1903 rifles used in World War I, had single heat-treated receivers and bolts that were extremely brittle and subject to catastrophic failure. Such failure could be brought about by higher-than-normal pressure ammunition, firing the wrong caliber of ammunition, a split case or case-head failure, increased bolt thrust from an oily chamber or ammunition, or a bore obstruction. Between 1917 and 1929 alone, Army Ordnance had records of 68 burst '03 receivers, which resulted in many serious injuries.

I have examined early '03 receivers that broke just from the rifle being dropped on a hard surface. One researcher I know tested about 10 of the early M1903 receivers by tapping them on the left receiver wall with a light piece of metal. Almost all of them easily broke.

Admittedly, the double heat-treated

and nickel-steel '03 receivers and bolts (made after #800,000 at Springfield and after #285507 at Rock Island) do not have this problem. But the simple fact is that the majority of '03s made before World War II were weak sisters at best, and hardly the best military rifles in the world. The Army Ordnance Department initiated a policy between the wars where M1903 rifles with low-numbered receivers were held in reserve and no longer issued. In addition, rifles in service returned to ordnance facilities for repair that had low numbered receivers were scrapped. Considering the implementation of this policy, dropping the standard M1917 rifle in favor of the M1903 seems bizarre.

While the M1903 is a Mauser derivative, contrary to what you have read elsewhere, the M1903 is not a copy or a derivative of the immortal M98 Mauser. The first prototypes for the M1903 were built in 1900. It is extremely doubtful that the U.S. Ordnance folks had ever seen a M98 Mauser before then because it was adopted by Germany in the middle of 1898. And virtually none were exported until 1902.

Instead, the M1903 was derived largely by combining the features of the pre-M98 Mausers (M1893 through M1896), like the Spanish Mausers our

troops faced in the Spanish American War, with the features of the then standard U.S. Krag rifle. The main differences between the M98 and its earlier Mauser predecessors are cocking on opening instead of closing the bolt, a safety lug on the bolt, a bolt-sleeve lock flanged to block gas flow from split cases or pierced primers, and a superior breaching system.

The M1903 Springfield does not have the M98's improved bolt sleeve or breaching system. It does cock on opening, but so does the Krag. And the '03's cocking cam is copied from the Krag. The '03 utilizes a bolt-safety lug, but it is totally different from that of the M98 and inferior in design. The '03 also has a bolt-sleeve lock, required by the change to cock on opening. But the '03 version is completely different from that of the M98. Thus, the '03 does not copy a single Mauser feature distinctive of the M98.

As if these shortcomings were not chronic enough, the '03's safety assembly is more complicated and prone to problems than that of the M98 Mauser and its early brothers. The ejector system is similar to the Krag, but completely different from any Mauser. The firing-pin system is like that of the Krag, but much less durable and

Pvt. Joe Louis says_



**"We're going to do our part
... and we'll win because
we're on God's side"**

National Archives / R. Bruce.



National Archives / R. Bruce.

more complicated than that of any of the Mausers. It uses a bolt stop and release that is totally different from the Mausers and a magazine cutoff like that of the Krag, while the M98 has no magazine cutoff at all.

Virtually every knowledgeable authority on the action designs of rifles rates the M98 Mauser's design superior to that of the '03 Springfield. The M98's cocking and extraction cams and receiver rigidity are considered marginally better than the Springfields.

No less an authority than the late master gunsmith Roy Dunlap, who served as an Army Ordnance repairman in World War II, stated that the M1903's striker, firing pin and ejector were prone to breakage. He also said that the floor plate, cutoff and safety were subject to excessive wear and thereby required frequent repair or replacement.

When Dunlap was part of the U.S. forces that returned with MacArthur to the Philippines, he found that Philippino guerrillas were still using M1917 rifles left over from the time of the Japanese invasion. He found that the M1903 rifles from the same period did not hold together under such difficult conditions, and were rarely serviceable.

Thin-Sighted

Virtually every experienced authority,

including Dunlap, agreed that the M1903's greatest shortcoming as a combat rifle was its sights. The too thin front-sight blade and complicated and fragile rear sight were totally unprotected from the typical rough handling seen in combat. Consequently they were prone to be damaged soon after significant field use began.

The M1903's rear battle sight has a fine notch that is far from ideal for combat use. It is located in front of the receiver on the barrel. With the rear sight folded down, the battle sight is zeroed for the ridiculous distance of 547 yards. This caused the bullet to strike more than 2 feet over the point of aim at 200 yards. To hit a man in the center of his chest it was necessary to aim at his knees clear out beyond 300 yards. Since it is unlikely in most combat situations that the enemy's knees will be visible as an aiming point, it is obvious that the soldier shooting the M1903 with its battle sight is going to have a hard time figuring out where to aim — particularly when the bullets are flying. There is no telling how many enemy soldiers owe their survival to an M1903-launched bullet, flying over their head instead of hitting them, because of this awful sight arrangement.

If the M1903's rear sight-ladder is

flipped up, it can be set for a zero as close as 100 yards. However, when the sight is flipped up it makes the rifle awkward to handle. With it up, the shooter is offered a confusing array of small peepholes, a triangular hole with a notch in the middle of the bottom, a sight notch in the crossbar, and a sight notch on the top of the sight ladder. It seems that the designers of this abomination set out to make the most confusing and complicated sight possible. Usually, trained shooters will attempt to use the minuscule 1/20-inch diameter peephole. But it is located so far from the shooter's eye, it is a challenge for even the best eyes in good lighting. In combat it was generally worthless. The fine notches are not much better in poor lighting either.

To make matters worse, the sight has no positive click windage adjustments and the elevation adjustments are made by loosening a binding screw and manually moving the sight bar. Since this requires considerable concentration and use of those fine motor skills which tend to disappear under the stress of combat, it would be hard to conceive a worse combat sight.

Target shooters using the M1903's military sight quickly learned it was necessary to use a separate tool called a sight



M1903A4 — a simple mass-produced sniper system. Rugged and reliable, it stood up well to use in harsh conditions.



Korean conflict — Corporal Billie Robinson of Oklahoma armed with M1903A1 "Marine Sniper."



"Storming A German Machine Gun" painting by George Harding. U.S. Army Art Collection / R. Bruce.



Ft. Belvoir, Va., 1942. M1903 armed combat engineer model's experimental camoflaue uniform.

micrometer to make accurate and repeatable elevation adjustments. While this system worked reasonably well on the target range, it was completely unsatisfactory for combat use. Even if a sight micrometer was available, they were not issued for combat use.

Between the world wars the Marines developed a modification of the '03's sights. It consisted of a taller and thicker front sight blade that was combined with a tall snap on the front sight guard, which, unlike the Army sight cover for the M1903, could be left on without interfering with shooting. There was also an insert into the rear sight ladder that offered a larger and more usable .10-inch peep hole, doing away with the triangular hole and other sight notches. While far from perfect, this USMC sight system was a huge improvement over the standard Army sight on the '03.

It changed the battle sight zero to a nearly ideal 200 yards. The front sight was much stronger and better protected from damage. The peep sight was optically superior and much easier to use in any conditions. Unfortunately, the USMC sight system for the M1903 was used mainly between the wars by marksman-ship teams and few, if any, were used in combat during World War II.

Another criticism of the M1903 revolved around its stock, which was too short for most adult Americans, had too much drop in the butt, and lacked a pistol grip. It accentuated the rifle's recoil and muzzle jump and made it unnecessarily uncomfortable to shoot. In 1929, well after WWI, the Army developed and adopted the truly excellent full pistol grip "Type C" stock for the M1903, which corrected all of these problems.

When this stock was installed on an

M1903 along with a checkered butt-plate and a serrated trigger, the rifle was redesignated the M1903A1. Unfortunately, the Army had large quantities of the straight gripped stocks in inventory — so only small quantities of M1903A1 rifles were built. And these were primarily for civilian sales and for competition rifles. Certainly, fewer than five percent of the M1903 rifles issued in World War II had the pistol grip stock.

Tender Closing Remarks

Ironically the red-headed stepchild of the M1903 family, World War II's M1903A3 made by Remington and Smith Corona, was the best combat rifle of the bunch. It was roughly finished and had many stampings instead of finely milled parts. Most had two-groove barrels instead of the M1903's four grooves. However, it had a decent receiver-mounted peep sight. And being built from superior alloys after superior heat treatments, it was far less prone to break or wear out. However, the M1903A3 did not come along until well after the M1903 was very obsolescent, if not obsolete.

Even though I am picking on an American icon — the M1903 Springfield — I do not want anyone to think that I have some ulterior motive other than just setting the record straight. I have owned and used M1903 rifles for over 40 years. I started my high-power rifle competition shooting with one and competed with one for years. I have hunted with them. I have collected them and have owned and fired dozens of specimens. One of my most prized hunting rifles is a sporterized M1903. Indeed, it was my considerable experience with the M1903 and many of its foreign military contemporaries which made it obvious to me that it was not

nearly as good a combat rifle as its popular reputation indicated.

Besides being a military historian, I am also a highly trained and experienced combat veteran. I hold Airborne, Ranger and Special Forces qualifications and am a graduate of West Point. I also served as a combat infantry officer in Vietnam in the 1st Cavalry Division. Consequently, I know what is important in a combat rifle both theoretically and from actual experience.

The bottom line is that the M1903 was a crummy combat rifle. It was prone to break at critical points and was not durable enough to be a good combat rifle. It had easily the worst combat sights ever put on a modern military rifle as far as durability and being able to hit an enemy under combat conditions are concerned. To make matters worse, both the front and rear sights were unprotected, delicate and subject to damage five minutes after the soldier left his barracks. Most of them had weak receivers and even more had poorly designed stocks.

Rather than being one of the best combat rifles in its day, the M1903 would not in my opinion even make the top five during World War I. I would rate all of the following combat rifles superior to the M1903: the British Lee-Enfield No. 1 Mark III; the U.S. M1917; the German Mauser M98, particularly in the shorter Kar 98a version; any of the Mauser M93 through M96 rifles, particularly in the short rifle versions; the British P14; and the Japanese Type 38 Arisaka.

By World War II, you can add to this list the British No. 4 Lee-Enfield, Japanese Type 99 Arisaka, and a variety of modernized M98 Mauser variations like the Kar 98K, Vz24, and probably others. Several are at least as good, if not better, including the Swiss K31, the Finnish M28/30 and M39 Mosins, and several Mannlichers. Like the Colt Single Action, the Luger, and many other guns of legendary status, the M1903 Springfield gets a lot more credit for excellence than it deserves.

How many Marines died at Guadalcanal because they had M1903 Springfields rather than M1 Garands because their commander believed in the legendary superiority of the M1903? I don't think I want to know. As for the guy I mentioned earlier who thinks the M1903 is a better combat rifle than the M16, it scares me that anybody with even a modicum of knowledge about firearms could be so out of touch with reality.

The M1903 Springfield was an important rifle in U.S. history. It had many accomplishments, particularly on the target range and the hunting fields. They are fun to collect and fun to shoot. However, they were crummy combat rifles.





SEAL

By Andy Stanford Photos By Ichiro Nagata



The Cold War has been over for more than a decade, but America cannot afford to let down its guard. The new millennium brings with it a wide variety of threats to national security, including rogue states, nationalist guerillas and terrorist cells. Our country's Special Operations Forces, under the aegis of the U.S. Special Operations Command (USSOCOM), will play a major role combating these 21st century enemies.

In maritime or littoral environments, and during joint operations as determined by the chain of command, the U.S. Navy SEALs perform a variety of unconventional warfare missions. The lean-and-mean unit takes its name from the ability to operate on sea, air and land. Whether

conducting ambushes in the Mekong Delta or performing combat search and rescue in the deserts of Iraq, Navy SEALs stand ready to tackle the toughest tactical tasks.

Operating in small teams and often engaging numerically superior forces, the SEALs must utilize every possible advantage. Their rigorous selection and training process combined with specialized weaponry and hardware maximizes the synergy between man and machine. And the latest addition to the SEAL arsenal is the Mk11 Mod 0, a specialized variant of the Knight's Armaments Company (KAC) SR25 semiauto sniper rifle.

SPECOPS Small Arms

To put the SEAL's new sniper system in context, let's briefly examine the other small arms typically employed by the teams. Elite units have always

SNIPER

AND MACHINE





armed themselves according to personal preferences, and SEALs are no exception.

In the past, the 9mm submachine gun served as the SEAL's primary firearm. Specifically the H&K MP5N, with its quick-detach suppressor, has been the weapon of choice for SEAL CQB in the past decade or so. Lately, many SOCOM units have traded their MP5s for harder hitting, flatter shooting 5.56 NATO M4 carbines, and my sources confirm that the

SEALs are following suit.

Shoulder weapons may reign supreme on the battlefield, but in the cramped interiors of structures and ships the handgun does have its advantages. Though the SEALs had input on the design of the Mk23 SOCOM pistol, the unit's standard sidearm remains the Mk24 Mod 0, otherwise known as the Sig P226. Trained at civilian schools such as Mid-South and Rogers' Institute, the average SEAL has the above-average skills

required to use his pistol within its effective engagement envelope.

But the SEALs don't limit themselves to close-quarters weaponry. Trained snipers are a key force-multiplier for any small unit, and the Teams field many master marksmen. In the past, long-range hardware has included both modified M14 semiautos and M24 bolt guns, both in 7.62 NATO, plus .50-caliber systems when appropriate to the mission at hand. The new



Mk11 Mod 0 Stoner combines tack-driving accuracy with semiauto follow-up.

Stoner's Masterpiece

The late, great Eugene Stoner (1922 to 1997) left behind an enduring legacy of innovative designs intended for a variety of roles. The AR7 .22-rimfire takedown survival rifle provided pilots with post-ejection personal protection and provisioning potential. The AR17, a lightweight

sporting smoothbore made largely of aluminum, was produced only as a prototype. And his radical AR10 7.62 battle rifle, well ahead of its time, was adopted en masse by the Netherlands.

Stoner's most prolific progeny is undoubtedly the AR10's smaller sibling, the fully automatic Armalite AR15. From the M16 with its Vietnam teething troubles to the A1 model's "bolt forward assist," from the improved A2 that served with distinction

during Operation Desert Storm to the latest M4 variants issued to USSOCOM personnel, Stoner's "Black Rifle" has earned a proud place in the annals of combat weaponry. And it will undoubtedly soldier on well into the next century.

But in my book, the pinnacle Stoner-family fighting firearm is the SR25 sniper rifle. Designed for and produced by Reed Knight's Vero Beach, Fla., company, this 7.62 NATO (.308 Winchester) autoloader



combines the features of the original AR10 and AR15 — hence the SR25 designation — with new design details required to deliver sub-minute groups during extended field use.

With its M16 ergonomics (and resulting training commonality), a scope mounted low enough for a proper cheek weld, and quick-detach suppressor capability, it's puzzling why the KAC SR25 hasn't caught on better with the U.S. military. Although the American armed forces have made some small purchases in the past — fewer than 200 rifles total — civilian users have bought the bulk of production SR25s. With the Mk11 that may change. KAC has already delivered more than 100 of its 355 rifles.

System Specifications

The "Rifle 7.62mm Mk11 Mod 0" described in the March 2000 contract comprises a Navy-specific system including both the rifle itself, day optics, and a full array of accessories. (The Army recently bought 63 similar 20-inch rifles, gun only.) The CNC-machined action of the weapon is the same as any other SR25, with a two-stage match trigger and a slew of M16 internals.

One key feature of the new Mk11 Mod 0

is its 20-inch Obermeyer barrel. This premium part features 5R-type cut rifling, 1:11 rate of twist, and results in an overall length of 39.5 inches. The increased handiness is particularly noticeable with the suppressor attached: Standard SR25s run over 50 inches with the can in place! Muzzle velocity is 2,571 fps with the new M118LR match ammo. The accuracy standard is high: two out of four test groups (5 shots) under 1.0 MOA, another two under 1.5 without suppressor. With the suppressor mounted, two groups must be under 1.5 MOA, the other two under 2.0 MOA. The 100-plus rifles delivered to date have cut these accuracy requirements in half.

But bench results are largely academic; what really matters is how the weapon performs in the field. The Obermeyer tube is more forgiving of cleaning than the Remington barrels used on previous SR25s. Sniper rifles are generally babied, but this one will take abuse and still deliver those sub-minute groups. A government-issued SEAL gun will probably be treated differently than one bought with the hard-earned money of a private citizen. A typical SEAL practice session illustrates this.

During recent SEAL training in the



Rough lower receiver blanks await final machining.



Hard-chromed bolt and bolt carrier resist corrosion and wear extremely well.



Middle East-like dust of Coalinga, Calif., snipers fired over 100 rounds each day into 5-round groups without swabbing out the barrels. Dirty dud rounds used in ball-and-dummy trigger control exercises were picked up from where they were ejected and inserted back in to the weapons over and over. During all of this abuse, the Mk11s continued to hammer out sub-minute groups; 300-yard body shots on moving targets were so easy that instructors made the SEAL snipers take head shots instead. And they made them with impressive regularity.

Naturally, optics play a key role in any sniping system. The Mk11 comes standard with a Leupold M3LR Tactical 3.5-10 scope with Mil. Dot, mounted into 30mm rings.

It's a good choice for 21st century urban warfare, scenarios in which the versatility of a variable can be used to advantage. This sight includes a special range cam that matches the 173-grain match M118LR that replaces the older M852 rounds. The M118 bullet remains supersonic to 1,000 meters (1,093 yards), whereas the M852 went sub-sonic around 750m.

As you might imagine, this is no lightweight gun. Unloaded the bare rifle weighs 10.44 pounds, 13.7 with scope, bases and rings. A loaded magazine adds 1.2 pounds, the SIMRAD night vision mount contributes yet another 8 ounces, and the Knight's suppressor tips the scales at just under 2 pounds. Total it up and you're definitely over 15 pounds.

The issued Pelican hard case, with custom die cut foam inserts, protects gun and scope and provides a place for a myriad of standard ancillary equipment: 10 magazines, Harris LR-type S swivel bipod, bore guide for cleaning, case deflector, rail covers, backup iron sights adjustable to 600 meters, and an adapter for a SIMRAD night vision device. Carry straps and shooting slings are provided by individual units, which allows for the druthers of individual snipers. Taken in total, this gear provides a great deal of versatility in an organized, self-contained kit.

R.A.S. Rationale

Many of the above accessories will be



affixed to the Picatinny rails that comprise the sides, top and bottom of the Mk11's aluminum forend, called a Rail Accessory System (RAS). This type of Weaver compatible interface has been in use for years by the special operations forces of all service branches via the USSOCOM SOPMOD M-4 Accessory Kit, the heart of which is a KAC Rail Interface System (RIS).

The SOPMOD kit also includes an AN/PAQ-4 IR laser aimer, an AN/PEQ-2 IR pointer/illuminator, and AN/PEQ-5 Carbine visible laser, an ACOG reflex red dot sight, an ACOG 4X scope, a vertical foregrip, and Insight Technologies visible light module. Naturally, any of these devices will fit on the Mk11 RAS as well.

You may be wondering, "What's the dif-



ference between an RIS and an RAS?” The answer is not much. When the U.S. Army proper (as opposed to USSOCOM) bought its rail systems, it specified that the individual mounting positions be numbered from the rear, instead of from the front like the existing RIS. The resulting parts were renamed the RAS, probably so someone could take credit for the project in question. Naturally this caused confusion in the field — but, hey, this is the U.S. Government we’re talking about.

In any case, the Mk11 RAS is different than either of the two M4 rails. The latter are two-piece units that clamp around the barrel just behind the front sight, while the former is a one-piece extrusion that extends the top rail all the way to the gas

block. The result is a free-floating barrel on the Mk11, a highly desirable feature for sustained fire situations.

SEAL Scenarios

Vietnam war photos of the SEALs show rough and ready men in tiger striped fatigues and camo face paint ready to do battle at relatively short range. Outfitted for warfare in dense vegetation — and often armed with shotguns, submachine guns, and Stoner’s modular machinegun — these waterborne warriors inflicted a terrible toll on the NVA and VC, earning the moniker “men with green faces.”

In contrast with these up-close-and-personal firefights, more recent SEAL exploits reveal the rationale for the semiauto standoff

provided by the Mk11 Mod 0.

On the island of Grenada in 1983 (Operation Urgent Fury) — during the daytime siege of Governor General Paul Scoons’ residence — a SEAL sniper using a scoped H&K .308 made 21 confirmed kills against attacking PRA troops. The Mk11 Mod 0 is tailor-made for this type of engagement, and unlike the H&K, shares 60-percent parts commonality with standard M16A2s and M4s.

Six years later in Panama (Operation Just Cause), four members of the Golf platoon of SEAL Team 4 were killed and eight seriously wounded during an assault on Manuel Noriega’s personal Lear Jet at Patilla airfield. Many in the military feel that these casualties could have been prevented



U.S. NAVY
SEAL TEAM

STONER
RIFLE
SR-25
KM50236

SUPPRESSOR US NAVY RIFLE 7.62MM MK11-0

SAFE FIRE



through the use of sniper teams instead of an assault force. An Mk11, with suitable low light sighting system mounted to the RAS rails, would have been a perfect over-watch weapon for such a situation. A magazine of 7.62 fired quickly and accurately will ground any civilian aircraft.

The Gulf War saw SEALs employed in several roles. During Operation Desert Shield, the Teams played a key role in the embargo of goods. The SEALs conducted Visit, Board, Search, and Seizure (VBSS) operations, using boarding parties armed with MP5Ns covered from overhead by a designated marksman in a helicopter. The semiauto Mk11 is just about ideal for this specialized sniping role. The rifle's relatively short overall length facilitates deployment from all manner of aircraft and vehicles. Hence, it would've also been a good choice for Desert Storm combat search and rescue missions conducted behind the Iraqi lines using the SEALs' dune-buggy-on-steroids Fast Attack Vehicles.

What will the next century bring? Most military analysts agree that future wars will often be fought in urban environments. Our experience in Somalia is probably fairly typical. (See Mark Bowden's excellent book, *Black Hawk Down* for details.) Interestingly, the SR25 saw service in Somalia in the hands of U.S. Army Special Forces. With its rapid follow up capability, the Stoner sniper system should be just about perfect

for fast-and-furious city engagements.

The Mk11 Mod 0 will also undoubtedly see action on the home front — both with law enforcement snipers and private citizens — as soon as military contracts are filled and KAC again starts selling to the civilian market. The guns' monotonous, tack-driving accuracy should make it quite popular with discriminating shooters. In particular, it will be curious to see if it now qualifies as a service rifle for National Match competition. If so, it will finally give shooters a sub-minute 7.62 semiauto that doesn't need a tractor-trailer-mounted

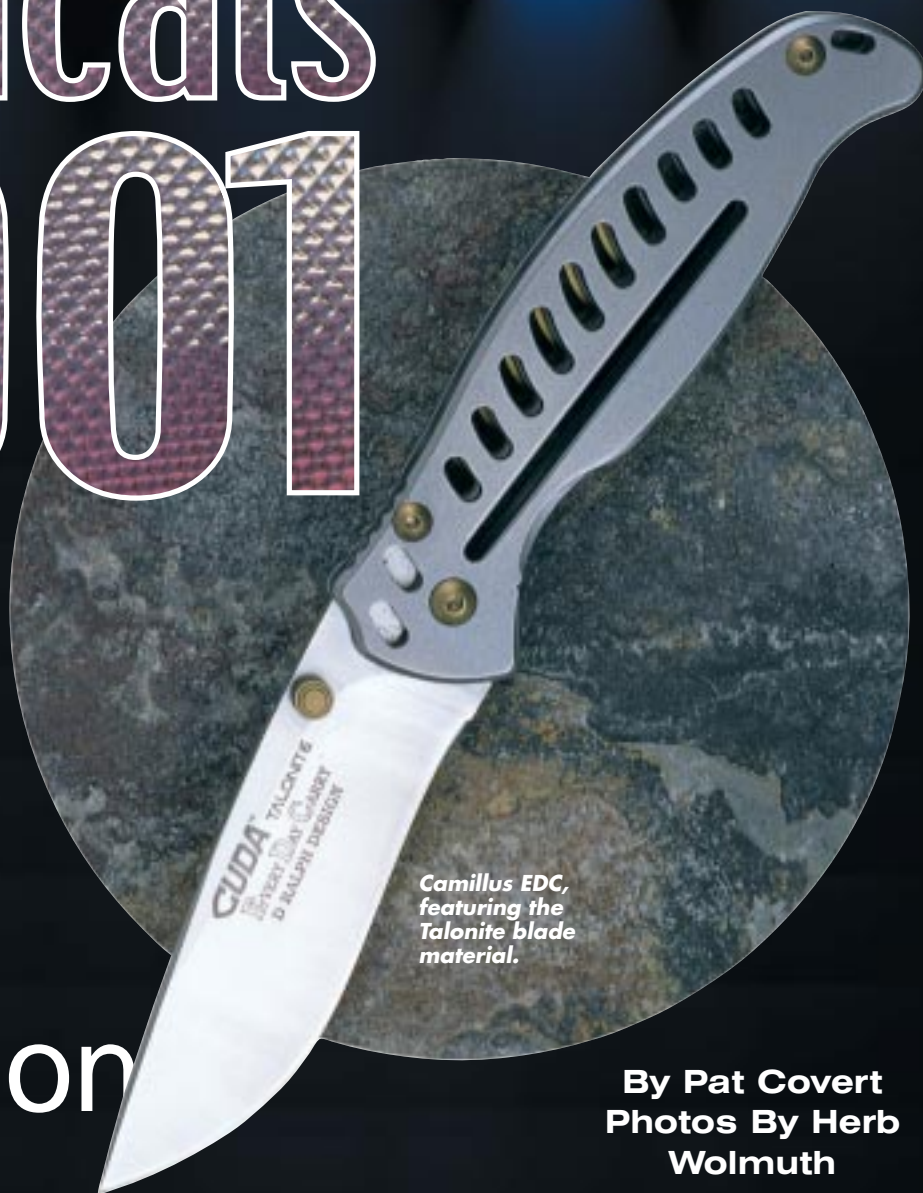
machine shop to keep the gun in tune.

Given the current Navy delivery schedule — the SEALs justifiably get priority. This situation is not without precedent. A World War I-era *Colliers Magazine* advertisement for Savage arms showed a uniformed doughboy standing behind a machinist turning a Lewis gun barrel on a lathe, the soldier eagerly awaiting the finished weapon. The copy read, "We apologize to our commercial customers, but we're sure you'll understand any delays." With luck, by the time you read this, the wait for the Mk11 Mod 0 will be almost over.



Tacticals 2001

Seven of the Best for Your Inspection



*Camillus EDC,
featuring the
Talonite blade
material.*

**By Pat Covert
Photos By Herb
Wolmuth**

Tactical knives have been the darling of the cutlery industry for nearly a decade now, and if the new offerings from the manufacturers in 2001 are any gauge, the market only seems to be growing stronger.

One particular trend taking place in the tactical arena is downsizing. As tactical folders have gained in popularity, the customer base has broadened. A new category of knife user has emerged, one who wants protection and utility without the size and bulk common to full-tilt tacticals. To accommodate this new batch of knife consumers, many manufacturers are either making smaller versions of their most popular models or offering all-new, more compact designs.

One thing that hasn't changed is the preponderance of factory collaborations

between the manufacturers of production knives and noted custom knifemakers. Such relationships continue to provide consumers with fresh new designs. Many of the hot, new offerings for 2001 are the outcome of these collaborations. What follows is a recap of some of the best new knives of this year's crop:

Spyderco HERBST Clipit

Spyderco knives are best known for the round holes in their blades. While the company's distinctive thumb opening feature is undoubtedly recognizable, the Spyderco story is much richer and deeper. It was one of the first companies to develop factory tactical folders and collaborate with custom knifemakers in the process. Spyderco knives are also one of the top picks of law enforcement personnel, which is an enviable position.

Spyderco has always made simple, easy-to-use knives with all the ruggedness of a HumVee. The company's new



Kershaw BOA, a fast opening Ken Onion design.

Herbst Clipit model, however, is somewhat of a departure from the norm. Designed by European knifemaker Peter Herbst, the namesake model is more of a Rolls Royce than a HumVee. This all-metal folder is highly refined in both its design and construction.

The Herbst, with its hi-tech machined aluminum handles, is definitely an upscale tactical. The scales are coated with Almite, a microscopically-thin surface coating that provides scratch resistance to aluminum. The action on this knife is particularly slick; the blade locks into position with a sweet, Swiss-like snick. The Herbst incorporates a liner lock, but with a twist: It features a self-adjusting pivot pin that allows the knife to adjust the liner lock's position as it wears over time. A stainless steel pocket clip graces the backside of the handle.

The overall length of the Herbst is 7.3-inches, with a blade length of 3.3 inches. The business end of the knife features a drop point blade of ATS-55 steel. Both a plain and partially serrated 50/50 combo edge are offered. One note of caution is in order. Spyderco knives leave the factory with an unbelievably sharp edge. Handle with care!

Everything about this knife smacks of precision, and the fit and finish rival that of a custom knife. For those who wish a more sporting tactical without the price of a custom, this is your knife. Suggested retail for the Spyderco Herbst Clipit model is \$170.

Camillus EDC

Camillus Cutlery celebrated its 125th anniversary in 2001. Despite it being one of the older knife manufacturers in the U.S., its latest wares are anything but stale. Camillus jumped into the tactical end of the industry several years ago with a series of knives

under the "Cuda" (Camillus Ultra Design Advantage) moniker. The original Cudas were so successful that the company now offers an entire line of tactical knives under the same name.

The latest addition to the Cuda series is the EDC (Every Day Carry) model, an all-metal, all-purpose folder designed by one of the custom knife industry's most creative makers, Darrel Ralph. The EDC (6.85 inches OAL, 3.8 inches closed) is typical of the new wave of efficient tactical folders in a mid-size package.

The EDC has more curves than a Hollywood starlet, but looks can be deceptive. The recurved edge of the knife's 3-inch blade adds extra length to the cutting surface for maximum slice. Standard blade steel is satin-finished, 420 high-carbon stainless steel, although 154CM stainless is optional, as is a plain or partially serrated edge. The handle is all stainless steel — skeletonized to reduce weight — with a strong frame-lock built into the design. A curvaceous pocket clip is standard.

Camillus has recently added a more upscale version of the EDC with a Talonite blade. Talonite is an exotic Cobalt-Chromium alloy made for high-stress industrial applications. Technically, this amazing new metal alloy is not classified as steel because it has no carbon content, and it is said to be 100-percent resistant to corrosion. It is also said to hold an edge up to eight times longer than steel. Talonite is not inexpensive, and Camillus is to be commended for making this exotic material available on a production knife.

The Camillus EDC is an attractive knife, but the beauty of this tactical is not just in its curves. Suggested retail for the standard EDC



Gerber Spectre — no nonsense and ready to go.

model is \$69.95 — a lot of bang for your buck. An all-black (with gold accents) 125th Anniversary model is available for \$89.95, and the exotic Talonite version retails for \$219.95.

MOD Dieter Mark II

Masters of Defense (MOD) broke the typical collaboration mold several years ago by having noted combat and law enforcement officers design its knives rather than custom knifemakers. The result has been a group of innovative tactical offerings that vary widely. The new Dieter CQD Mark II is a downsized version of the original Mark I model, which has been praised far and wide for its many innovative features. Designed by combat expert Duane Dieter, the first CQD model was quite large for a folding knife, checking in at 9.75 inches extended.

The new Dieter CQD Mark II offers many features found in its big brother. Just shy of 8 inches overall, the Mark II is a full 2 inches shorter than the original Dieter. The knife sports a 4.5-inch milled 6061-T6 aluminum handle featuring side hilts up top, sand textured *Wing Walk* inserts, and skeletonized diagonal ribs — all of which enhance the grip of the knife. One particularly nifty feature is the carbide steel window breaker built into the pommel. The handle also features a pocket clip that can be mounted to either side of the handle via three Allen screws.

In spite of its obvious downsizing from the original, the Mark II's 3.3-inch modified spear point blade is only 1/2 inch shorter than that of the Mark

I. The blade is made of 154cm high carbon steel and can be had either plain or partially serrated. Further options include a matte gray bead blast finish or black boron carbide coated blade surface to match the black anodized handle. Once engaged, the blade is held rigid by a proprietary plunge lock. A button on the handle releases the blade for folding, and is backed up by a secondary safety lock.

All of this advanced engineering carries a suggested retail price of \$239.

CRKT M-18

Downsizing is nothing new to Columbia River Knife and Tool. This progressive company has been offering various models in several different sizes for years. One of their most popular models of recent date has been the Kit Carson designed M-16, which was originally offered in three sizes, with a host of choices in handle materials to boot. The newest addition to the CRKT stable is an all-new Carson design, the M-18.

The M-18, available in two sizes, bears a strong resemblance to its older brother, but there are plenty of differences that set them apart. The M-18's machined aluminum handles (with inserts for improved grip) are wider and thicker, making for a much stouter knife. The AUS8 stainless steel blade, available plain or partially serrated, is of drop point design with a slightly recurved edge. A wicked false grind graces the back edge of the blade. Blade length on the larger model is 3.8 inches, while the smaller model logs in at 3.3 inches. All M-18 models feature the "Carson Flipper" extension to the blade,

CARING FOR YOUR CUTTER

Years before I was old enough to own a personal knife, my earliest memories are those of my Dad sharpening and oiling his Case pen knife. He'd sit down at the kitchen table, crack open a bottle of 3-in-1 oil, lay down a small Arkansas stone, then patiently hone the blades of that pen knife for — what seemed at the time — hours. Once he finished the sharpening chores, he'd oil the slip joints and wipe the entire knife down with a coating of the stuff. Those were the good old days, but this is now.

Just as today's knives have become more hi-tech, so have the means to take care of them. Manufacturers like Sentry Solutions Ltd. utilize an interesting array of compounds such as Teflon to make knife and gun care products that not only offer a greater degree of protection to metal surfaces, but are easier and quicker to apply. One product I've found to be particularly useful is their Tuf-Cloth, a handy foot-square piece of fabric charged with a proprietary blend of dry lubricants that makes applying a protective coating to knives a snap.

Nothing complicated here, you simply wipe the blade and metal parts of your knife down with the Tuf-Cloth, and you're done. If you want to provide extra protection, apply a small drop or two of Sentry's Tuf-Glide solution into the nooks and crannies of your knife. Tuf-Glide can also be used to "recharge" the Tuf-Cloth from time to time as the compounds in the fabric become exhausted. Sentry also offers kits for both knife and firearms users.

Cared for properly, a good knife will last a lifetime. Don't be deceived, however, by the term *stainless steel*. While stainless steel does offer a higher degree of resistance to rust and corrosion than standard carbon steel, it is not totally immune to the elements. Stainless alloys can corrode if subjected to harsh environments, and deserve the same care that your carbon steel blades receive.

For more information on Sentry Solutions' knife and gun care products, contact the company at Sentry Solutions Ltd., Contoocook, NH 03229-0130, or visit their Website at www.sentrysolutions.com.





Emerson CQC-7 Mini: A more easily carried version of the original.

which speeds opening and acts as an additional blade guard.

At 8.8 inches overall length, the large M-18 model is a handful of knife. The smaller model, at 7.6 inches, falls into the mid-size category. These are liner-locking designs, but CRKT has added a secondary locking mechanism not seen on the earlier M-16 models.

The new CRKT M-18 models are upscale versions of the earlier Carson M-16s, but they are just as serious as they are attractive. Rock solid in construction, these knives have a feel about them that exudes confidence. The large M-18 retails for \$109.99, the smaller model for \$99.99. That's a lot of knife for the money!

Kershaw BOA

Kershaw Knives first began collaborating with custom knifemaker Ken Onion several years ago, and it has been a prosperous relationship. Much of the success can be attributed to Onion's innovative "Speed Safe" design, which uses a torsion bar spring to assist blade opening.

The Boa model is one of the newer knives in the Ken Onion Series, with features not found in the original offerings. One such feature is the "Index Trigger," a ribbed stud that protrudes from the back of the handle when the blade is folded. The blade may be opened by activating the trigger with the index finger. A conventional thumb stud is also present.

The Boa's recurved 3.4-inch blade is made of CPM 440V stainless steel and can be had in a satin finish or black Titanium Nitride coating. The handles are made of machined aluminum, and are available in a hard-coated black finish or a wild multi-colored anodized pattern. The Boa is a liner-lock design utilizing stainless steel liners. An additional feature is a sliding safety to prevent the knife from opening

prematurely. Given the knife's propensity for opening quickly, you do not want this one to fire off in your pocket!

The Boa is a full-size tactical folder that offers innovation and utility rolled up into one slick package. Suggested retail is \$185. Kershaw is also offering two smaller "gents" versions of the Onion Speed Safe design, cleverly called the Scallion and Chive. Can a Sweet Vidalia be far behind?

Emerson CQC-7 Mini

Emerson Knives — the brainchild of custom knife-maker Ernest Emerson — has now been manufacturing tactical knives for 5 years. Emerson formed the company after it became apparent that the demand for his custom knives far outstripped his ability to produce them. Emerson's decision to switch to the production side of the industry has paid off in big dividends, and the company enjoys a lofty reputation among serious tactical users.

The CQC-7 was one of Emerson's most popular custom models. It was an innovative design for its time — one of the first pure tactical folders to gain wide acceptance — and to this day holds up magnificently despite massive competition in the marketplace. It remains a staple in the Emerson knives lineup.

The CQC-7B Mini is a downsized version of the original. Approximately 20 percent smaller, the CQC-7B has an overall length of 7 inches. The 4.12-inch handle is constructed of titanium liners and textured G-10 scales, available in green or black. As with the original CQC-7, there are two optional blade styles: a modified spear point with a V-grind or a chisel ground tanto. Blades can be had either plain or partially serrated, and a choice of satin hard chrome or Black T-coated finish com-



CRKT's new M-18 features the Carson Flipper for fast opening.



MOD Dieter MkII:
The OAL is 2
inches shorter
than the original,
but blade length
is only 1/2 inch
reduced.

steel on all Emersons is 154cm.

The CQC-7B is a welcome addition to the Emerson line. Its smaller size should appeal to the user who wants a serious, well-made tactical folder that sacrifices very little to larger models. And you can't beat the pedigree! Fans of the Emerson Commander can look for a downsized version of this popular model as well. Suggested retail for the CQC-7B Mini is \$139.95.

Gerber Spectre

Gerber Knives, well-known for many years for their excellent line of sporting knives, is making a lot of noise these days in the tactical arena. The company's latest creation, the Spectre tactical folder, sends notice to the competition that Gerber is a serious player in the market.

The Spectre, an in-house design, is constructed of top-flight materials found in many of the best tacticals: lightweight titanium liners, a 154-centimeter stainless steel blade and G-10 fiberglass/epoxy laminate scales. At 7.8 inches OAL, the Spectre can be classified as a full-size tactical folder. The knife's black Titanium Nitride coated blade with matching black scales has "stealth" written all over it.

One of the most appealing features of the Spectre is its ultra-clean, no-nonsense styling. The blade sports a mildly sloping drop point design, 3.5 inches in length. The smooth lines of the handle compliment the discreet styling of the blade. The Spectre is available either plain or with a partially serrated edge; a stainless steel pocket clip is standard.

In essence, this knife excels in its sheer simplicity. Combine that with its first rate construction and it's hard to find a more cohesive package. If the Gerber Spectre tactical is a harbinger of things to come from this company, we're in for a treat!

Suggested retail is \$149.95.



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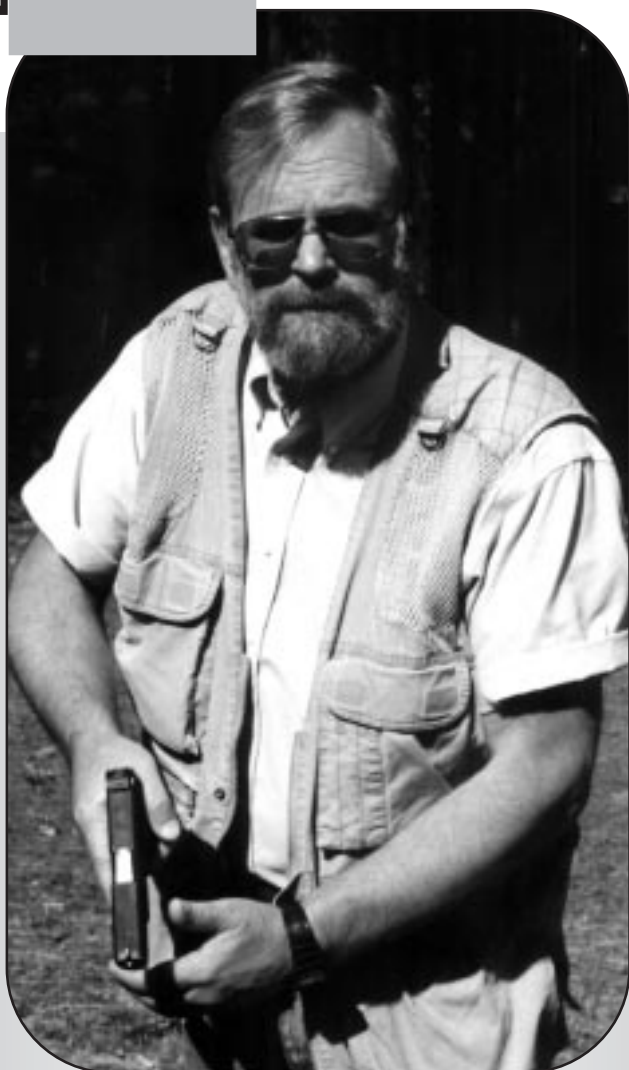


**Spyderco's
Herbst Clipit**
is all metal
and super
smooth.

By Massad Ayoob

1 MAN ONE GUN

There's something to be said for familiarity.



There's an old saying in our business. "Beware the man who only has one gun. He probably knows how to use it."

I'm not sure who first made that observation, though it's been attributed to the late, great Elmer Keith. But whoever said it first had an excellent point.

A lot of the best handgun wielders — although they don't limit their ownership to one model — have picked one type of gun to do most of their shooting. Consider Armando Valdez, a Miami police officer. Valdez carries a Glock 22 .40-caliber service pistol on the streets. He uses a slightly longer, lighter-triggered Glock 35 .40-caliber for matches. Does the concept work? Valdez dominates stock gun class shooting in IPSC with his Glock, and mercy on the soul of any Miami criminal who forces Armando to resort to his duty weapon. The skills developed in one situation translate to the other, and vice versa.

Let's look at three "One Gun Men." Each is a formidable, award-winning pistol shot, and each carries a gun daily. I can say from personal knowledge that each of these men would give good backup if the feces hit the rotating oscillator.

Bill Fish: Glock 9mm

The tall man's hand flashes under his photographer's vest and emerges with a small black pistol as he steps behind cover. CrackCrack! CrackCrack! CrackCrack! Down range, three bad guys are each ventilated twice in the center chest. Staying behind his cover, the tall man performs a tactical reload and then moves forward....

This stage of the International Defensive Pistol Association match is over. Bill Fish clears his Glock 19

and slips the unloaded 9mm into his Blade-Tech holster. Although Fish actually is a professional photographer, it is not unusual for private citizens to carry concealed weapons in this way.

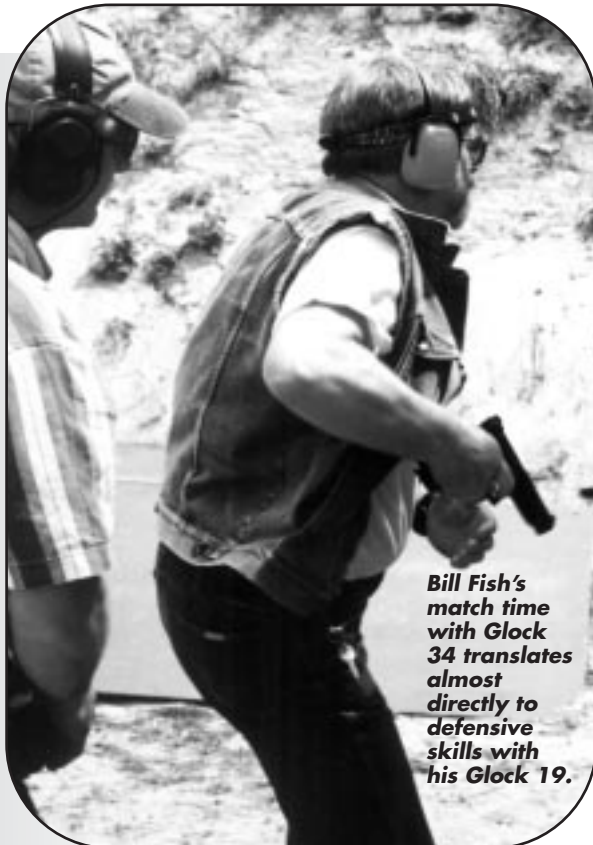
Fish has gone armed for some time and considers the Glock the ideal carry gun. He appreciates its light weight. And though he owns a Glock .45, he feels the 9mm makes more sense for his needs. The mild recoil lets him hit as fast as he can pull the trigger. As for stopping power: "I've discussed it with a lot of professionals," he said. "I'm convinced that with a 115-grain hollowpoint at over 1,300 fps, you're well-armed."

The G19 is his main pistol. "It's just the right size," he says. "It fits my hand perfectly. With the pre-ban magazine, it carries 16 rounds. The Glock 19 has an excellent ratio of cartridge capacity to size and weight."

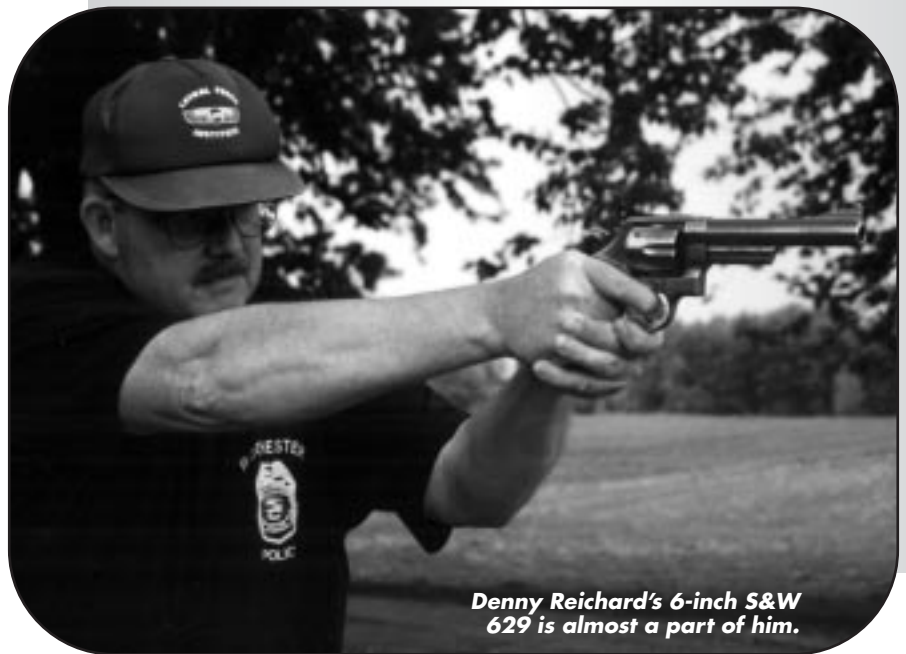
For a long time, the 19 was Fish's "everything" gun. He carried it all year, as well as shooting regional and midwinter national championships of IDPA. His first supplement to the G19 was its baby brother, the Glock 26.

"The G19 is certainly a concealable gun," said Fish.

"But in really hot weather when you might want to hide the gun under an untucked shirt, the shorter butt of the baby Glock makes sense. I've also found myself wearing the smaller gun when I have to take photos in an environment where I might have to bend in awkward positions to get the picture. With the flat-bottom factory magazine, the Glock 26 won't print where the slightly longer grip of the Glock 19 just might."



Bill Fish's match time with Glock 34 translates almost directly to defensive skills with his Glock 19.



Denny Reichard's 6-inch S&W 629 is almost a part of him.

A Glock 26 holds five rounds less than a 19, but 11 rounds is still nothing to sneeze at in a self-defense gun.

Fish alternated between the compact Glock and the subcompact for a while at local IDPA matches, which he attends regularly. He quickly made his way to the top of the pile in the Sharpshooter class of the Stock Service Pistol division. Noticing that a number of the top competitors had gone to the Glock 34, he bought one as a recreational pistol. Now his Glock 19 had a big brother as well as a little one.

A cross between the full-size Glock 17 and the longslide target model 17L, the Glock 34 is defined by its maker as the "Tactical/Practical" model. Competitive shooters appreciate its longer sight radius and lighter-perceived recoil. While Fish's carry Glocks both came with the manufacturer's standard 5.5-pound trigger pull, the Tactical/Practical is factory-fitted with a 3.5-pound trigger system that Glock originally perfected for target shooting.

The three guns have different grip lengths: full size for the G34, shorter for the G19, and even shorter for the G26. To keep "feel" as close as possible amongst this trio of Glock Parabellums, Fish has fitted each with a rubber grip sleeve, known to gun fans as the "Glock sock." The baby Glock feels a lot more like the Glock 19 when loaded with a magazine fitted with a Pearce grip extension,

though Fish keeps a standard flat-bottom mag for maximum concealment.

All three guns have night sights: The subcompact features a factory-installed Tri-jicon three-dot system, and both of his larger 9mms are equipped with Heinie Straight Eights. These have a tritium dot on the big front post and another below the generous notch of the fixed rear sight. In the dark, with one settled over the other, they form a figure-eight pattern.

"I guess my eyes are a little old for the regular sights that come on Glocks," chuckled Bill. "I tried the fiberoptic sight; it was OK, but I didn't get the accuracy I wanted. The Heinie sights are ideal for me. I can get an acceptable sight picture in pretty much any light conditions."

Bill shoots as much as he can in practice and competition. He stays with IDPA because it focuses on concealment self-defense. He reloads on a Dillon 550, favoring a 115-grain FMJ with 5.1 grains of 231.

The Glock 9mm is a concept that works for Bill Fish. In the latest New England Regional Championships of IDPA, amidst some 150 contestants, he finished at the top of his class and earned Expert status.

Denny Reichard: Smith & Wesson .44 Magnum

A February night with heavy snowfall: perfect weather for a burglar, right? So think two burglars in a small Midwestern city.

Worse luck, they've been spotted by a local lawman who has taken them at gunpoint from the cover of his patrol car. No problem, thinks the alpha criminal. In a minute, that cop will have to walk over here to cuff me. I'll just grab his gun and...

A door slams as the backup patrol car pulls onto the scene. Heavy footsteps approach through the snow. As the officer gets closer, the felon coils himself to lunge and....

A huge, rough hand grabs the thief

firmly. The other thrusts a large revolver into his face with the muzzle compressing his nose. Behind that monstrously huge handgun is the image of the man that every criminal in the county knows and fears. All thoughts of a violent reaction evaporate, collecting perhaps in his sphincter muscles.

"Don't shoot," he begs around the barrel of the S&W .44 Magnum. "Don't shoot me, Mr. Reichard!"

That incident took place long ago, but Denny Reichard is still a full-time cop — a detective nowadays — and he still carries a S&W .44 Magnum. In fact, since he's functionally ambidextrous, he often carries one on each hip. For Reichard, it's not a Dirty Harry thing. It's a practicality thing.

Dennis O. Reichard — D.O. to cops and students — has been carrying the Elmer Keith Signature Model for most of his adult life. He now owns some 28 S&W Model 29 and model 629 revolvers. He prefers the 629's stainless construction.

"I shoot my .44s a lot, and the stainless barrels don't erode as fast in the forcing cone area," he said.

He used to carry a 6-inch on each hip. Today, as a concession to the middle years and duty-related injuries, he's more likely to pack a pair of lighter 4-inch Mountain Guns.

There are those who have carried .44 Magnums strictly for the machismo of it. But most can't handle the .44s' legendarily potent recoil when put to the test. Reichard is not among them. He has won the Indiana State Championships of NRA Action Shooting multiple times with his .44s, and he did it against .38 revolvers, 9mms and down-loaded .45 autos.

I recall shooting against him at Bianchi Cup in the early '80s. Reichard was competing with a 6½-inch Model 29. For NRA Action, he uses mild reloads. On duty, in bowling-pin matches, or for hunting, he's full Magnum all the way. While much of his practice ammo comes off his reloading bench, he goes through about a case of factory Federal 180-grain .44 Magnum semi-jacketed hollowpoints every year. His chronograph tells him that this, his favorite of all factory ammo, lives up to its advertised promise of 1,600 fps velocity.

Reichard owns a bunch of guns. Hell, he owns a gun shop and gunsmithy called the Sandburg Gun Ranch, which fills in as his off-duty job. He likes the little Model 296 Titanium .44 Special snubby. He likes a lot of guns. But what he actually carries

for everything from daily police work to gathering his annual venison is the S&W .44 Magnum.

A firearms instructor for many years, he also teaches on occasion for the Lethal Force Institute. The gun he uses there is invariably his trademark .44 with the 180-grain, 1,600 fps loads. This ammo delivers a terrific

and his special Bianchi Gun, a PPC revolver on steroids with 7.5-inch Shilen barrel perfectly assembled by master pistolsmith Ray Saltzman. The other score of .44s have 6- and 6½-inch barrels. Some are lightly engraved. One or two are heavily engraved.

"Ya gotta have a 'barbecue gun,'" Reichard told me with a grin. "A certain Texas sheriff says a man should have a fancy pair of boots and a fancy gun to wear to a barbecue. Mine just happens to be a .44 Magnum."

Firing thousands of .44 Magnum rounds a year can hammer you. Carpal-tunnel syndrome, microfractures of the joints, all of that. Reichard is none the worse for wear after decades of carrying Elmer Keith's banner. He's a big man who was about 300 pounds when I first met him with a powerlifter's build that carried very little fat. While most of us use custom grips with our .44 Magnums that are shaped to control the recoil, Reichard's custom stocks tend more toward genuine staghorn in a pattern cut to the grip frame. His fingers are like sausages and fill the gaps where others need grip adapters.

All of his S&W .44 sixguns have the same deluxe \$80 action job. He turns these guns around in about two weeks from his custom shop, Sandburg Gun Ranch; 2111 E. 350 North; Rochester, Ind. 46975. Each Reichard .44 is furnished with Meprolight night sights; he installs them for \$100 including parts (a little more if the sight ramp has to be cut).

To those who think big revolvers are obsolete, Denny retorted, "Hell, there are those who think I'm obsolete."

I dunno. If it's true that the new millenium is a time for a return to old values, Dennis O. Reichard and his S&W .44 Magnums might just come back into style.



Goddard's Colt .45s, from top: Combat Commander, Series '70 Gov't on Safari frame, and 1991A1. Note Hogue grips on all three.

object lesson in learning how to control recoil. It also adds to the satisfaction of shooting. Those who've seen Reichard compete have nicknamed him "Rolling Thunder." The revolver burned so hot from the powerful rounds that Reichard modified the conventional speed-reloading technique so he wouldn't burn his hands.

Why 28 variations of the same gun? Reichard shrugged. Some people collect stamps. Some collect coins. He collects these.

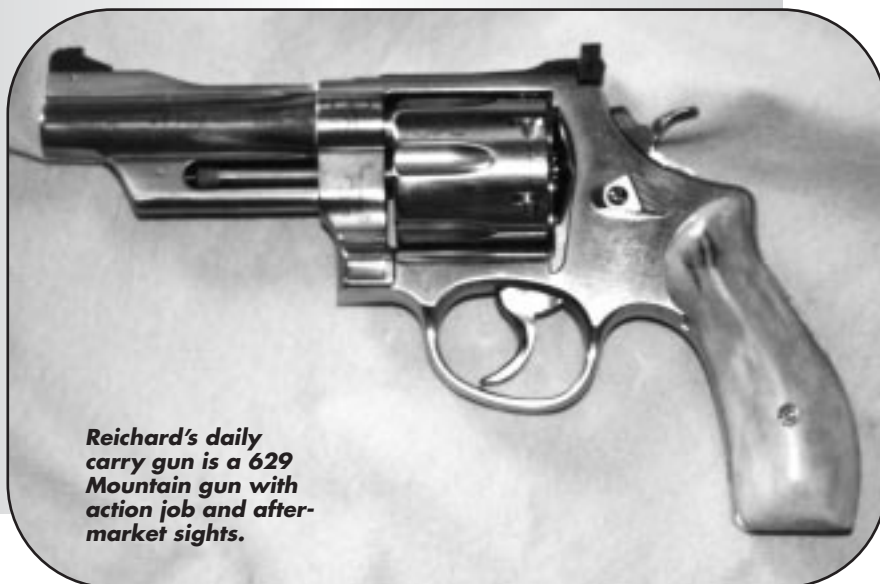
He used to have them in barrel lengths from just over 2 inches to 10 inches. The Long Toms were too unwieldy and the snubs didn't balance right for him. He currently owns seven of the 4-inch Mountain Guns

Phil Goddard: Colt .45 Automatic

Speaking of the old values, let's take a look at Phil Goddard, a carpenter in New England. Phil is a workin' man. An honest man. A Colt 1911 man.

"I've shot a lot of different pistols, especially since I've been a range officer and competitor in IDPA," said Goddard. "But I haven't seen anything that's going to wean me away from the 1911."

Licensed to carry concealed, Phil frequently exercises the privilege. His craft



Reichard's daily carry gun is a 629 Mountain gun with action job and after-market sights.

has taught him to appreciate tools that are compact, efficient, powerful, and suited to a particular purpose. For him the Colt .45 auto is all of these. All three of Godard's 1911s are Colts; he appreciates their workmanship and reliability.

The gun he is most likely to carry is a well-worn Combat Commander with an all-steel blue finish. Because he's moving around all day, a gun inside the trousers irritates him, so he prefers an outside-the-belt holster. This means that the Combat Commander — 3/4-inch shorter than fullsize — conceals more discreetly for him. He hasn't experienced any loss in reliability with this barrel length. Phil has tried shorter, more compact 1911s but hasn't found one that meets his standards.

For recreational shooting and home defense, Goddard prefers a full-size Government Model. A long-gun shooter since age 11, Phil got into handguns about 5 years ago, and his first "serious" sidearm was a Series '70 Colt Government Model barrel/slide assembly on a Safari Arms frame. He acquired the Combat Commander shortly thereafter.

More recently, after entering the Steel Challenge and IDPA competition, Phil bought a Colt 1991A1 in stainless. It's fitted with Novak sights, which he likes so much that he intends to put a set on his carry gun. An oversized magazine release allows faster reloads with what he considers to be short thumbs, and the same function is aided by a bolt-on magazine well.

All of Phil's 1911s are fitted with Hogue grips. Though the grip safeties are slightly different between the three guns, they all feel pretty much the same in his hand.

"I really buy into the one gun concept," he explained. "When I pick any of them up, they point to the same place, and my hand knows what to do with them."

This one-gun man is also a one-holster man. He has a simple, efficient, classic Don Hume belt-slide that serves as both his carry rig and his competition holster. The one gun all the time is in the one place all the time in

the one holster... all the time. He wins his share of trophies.

Phil shoots thousands of rounds a year, rarely missing a practice night at his gun club or a local match. He reloads on a Dillon 550, and his mainstay recipe is a 185-grain semiwadcutter .45 slug over 5.6 grains of 231 powder. His only factory ammo is what he uses for defense: Triton 185-grain +P hollowpoint.

"Triton was a sponsor of the regional IDPA championships in 2000, and they put

on a demonstration of their ammo in ballistic gelatin," Goddard explained. "They then invited anybody there to test any load they wanted. I was impressed with their attitude, I was impressed with how the ammo worked, and I've carried it ever since."

The Combat Commander is his carry gun in public. The 1991A1 is his match gun and his home-defense gun. The Colt/Safari hybrid is his spare, which he'll always keep if only for sentimental reasons.

"After all, it's the pistol that showed me what my favorite handgun was," Goddard said.

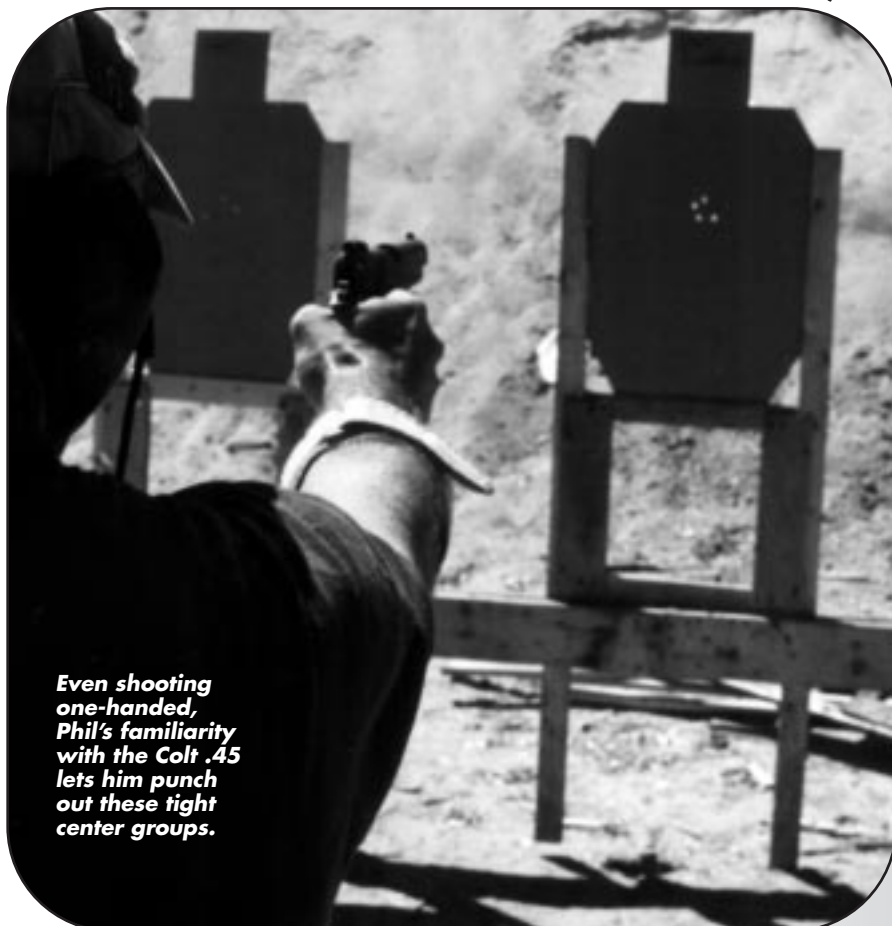
Commonalities

Note that none of these men sticks to just one specimen of his favorite gun, but each is pretty much wedded to a certain make and caliber. If you own three Volkswagen Beetles, you're a three-car family — but you're still a one-car person. The same thing applies here.

Each of these men is committed to a true classic: The Glock 9mm, the Smith & Wesson .44 Magnum, and the Colt .45 auto.

Beware the man with only one gun. He probably knows how to use it. Bill Fish, Phil Goddard and Denny Reichard all prove the truth of that statement. The guns they chose to focus on are reliable, honest, strong and proven.

The same goes for the men who carry them.



Even shooting one-handed, Phil's familiarity with the Colt .45 lets him punch out these tight center groups.

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-- Ken Hackathorn, Columnist, Trainer



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A Glock &

One man's mission to

By Shane
Gericke

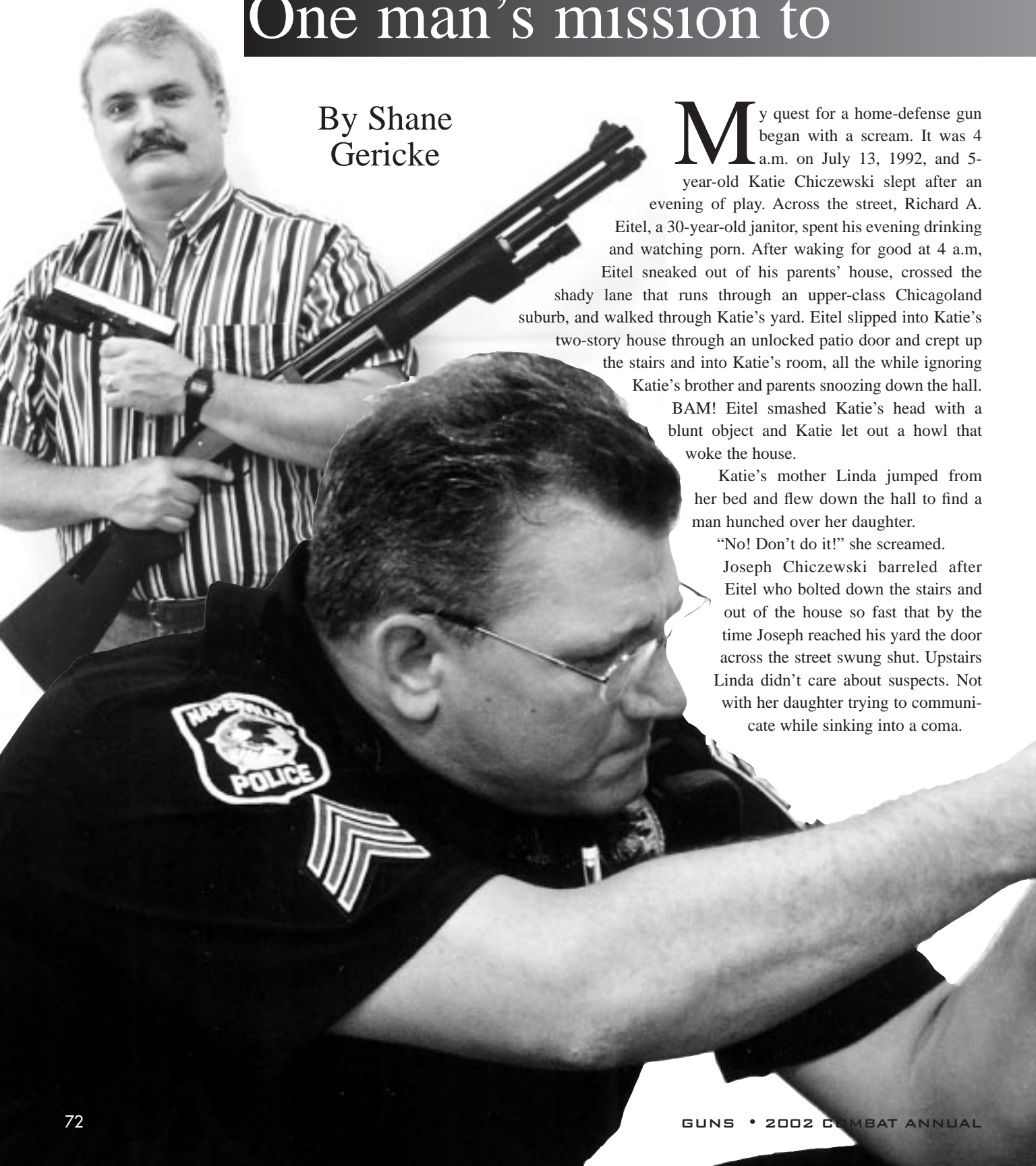
My quest for a home-defense gun began with a scream. It was 4 a.m. on July 13, 1992, and 5-year-old Katie Chiczewski slept after an evening of play. Across the street, Richard A. Eitel, a 30-year-old janitor, spent his evening drinking and watching porn. After waking for good at 4 a.m., Eitel sneaked out of his parents' house, crossed the shady lane that runs through an upper-class Chicagoland suburb, and walked through Katie's yard. Eitel slipped into Katie's two-story house through an unlocked patio door and crept up the stairs and into Katie's room, all the while ignoring Katie's brother and parents snoozing down the hall.

BAM! Eitel smashed Katie's head with a blunt object and Katie let out a howl that woke the house.

Katie's mother Linda jumped from her bed and flew down the hall to find a man hunched over her daughter.

"No! Don't do it!" she screamed.

Joseph Chiczewski barreled after Eitel who bolted down the stairs and out of the house so fast that by the time Joseph reached his yard the door across the street swung shut. Upstairs Linda didn't care about suspects. Not with her daughter trying to communicate while sinking into a coma.



A Mossberg

keep his castle safe





Left: John Roe, owner of J.R. Shooting Sports of Naperville, Ill., reaches for the Glock 23. Right: The Mossberg's easily-accessible safety button is located on top of the gun.

"It was not a cry," Linda later told the jury. "It was a moan, like an animal that had been hurt. It wasn't even human."

That Katie lived 2 miles from my house forced me to get serious about home defense. Naperville, Ill., is an oasis, a Norman Rockwell-community with ice cream socials and \$63 million high schools, a caring citizenry, effective police, and no poverty. Our crime rate is low, and the brutal attack on Katie was without precedent. Despite a population of almost 1 million and being cheek to jowl with Chicago, DuPage County recorded zero homicides in 2000. And I, like the Chiczeuskis, never worried about strangers in the night.

I was delusional in thinking that what happened to them could never happen to my family. My guns were art pieces fussed over and bedded on velvet. I bought guns for their looks, not for their ability to work. And when it was time for me to grow up, I began taking second looks at what I had previously dismissed as ugly and plastic.

"There were 3,444,000

household burglaries in 2000," said Dr. Kathleen Maguire, coeditor of the *U.S. Justice Department's 2001 Sourcebook of Criminal Justice Statistics*. The number comes from the National Crime Victimization Survey.

Though nobody knows how many assaults, rapes and murders resulted from burglaries, Maguire said that: "Each and every entry into a home poses a tremendous risk to the homeowner."

As the potential penalty for my delusion became clearer, I soldiered on, emailing questions to the FBI and chatting with local cops. I sent bullets down-

range and shredded a Sequoia's-worth of targets. I sold my shiny art and sank

the money into

armament that I tested and traded for

pieces that performed hair-widths better.

I have now bought, sold and traded almost every gun ever stuck in a display case. There were Colts, Brownings, Smiths, Glocks, Sigs, Rugers, Para-Ordnances, Kahrs, Walthers, Taurus', Kimbers and Kel-Tecs. Winchester, Marlin, Ruger and Colt rifles. Remington, Mossberg, Winchester and Benelli shotguns. In debating single action or double, pump or auto, high-cap or standard, stainless or polymer, I quizzed gunsmiths about mechanics and based final judgments on how guns fit my hands and shoulders, how many rounds fired between jams, how bullets grouped, and how shot patterned.

And nine years after Katie's attack I've found the two guns that I trust will save my bacon: the .40-caliber Glock 23 with a 14-cartridge magazine, and the nine-shot Mossberg 590 in 12 gauge.

Forget Batman and Robin. This is the real Dynamic Duo to handle the Richard Eitel of the world.

Weapons and Wizardry

Even without customizing I would trust my life to Glocks and Mossbergs.

But the goal of this 9-year project was to create the best home-defense package on the planet. This required someone who could turn 10 pounds of



metal and polymer into defensive gold. I turned to Robbie Barrkman, the founder and president of The Robar Companies Inc. located in Phoenix, Ariz.

Glocks Protective Pedigree

Because of their compactness and one-handed operation, handguns are home-defense workhorses. And Gaston Glock's polymer creation wins best of breed.

The Austrian import isn't pretty like the Colt 1911 or the Browning Hi-Power. It's chunky and gleams like asphalt. But those who turn up their noses because Glocks aren't stainless and rosewood neglect its true beauty: reliability. Pull its trigger and it goes bang. Though no mechanical device is entirely free of breakage, the Glock seems more immune to physics than most brands. American Small Arms Academy director Chuck Taylor reported putting 172,000 rounds through his Glock 17 with the original parts intact.

I chose the Glock 23 because it's lightweight (loaded it weighs 30.4 ounces), and has three internal safeties: trigger, firing pin and drop. High-capacity magazines — plentiful on the marketplace but expensive thanks to Bill Clinton — hold 13 rounds, whereas standards hold 10. Glocks are as simple as a revolver to operate: point, pull, bang. There is no external safety lever to fumble or decocker to accidentally engage when your hands tremble and your heart jumps. It fits most hands, and because of its sharp grip-angle targets naturally. Cleaning and maintenance are a snap. It's compact enough to be retained in a struggle, and big enough to get four fingers on the grip — vital for controllability and optimum placement.

The .40 S&W cartridge is the ideal defense caliber. According to "One-Shot-Stop" statistics compiled by retired Detroit Police Commander Evan Marshall, it stops fights as decisively as the venerable .45 ACP: 94 percent for the .40 versus 96 percent for the .45. Because the .40 isn't as fat, the gun holds more — 14 in the G23 versus nine in a similar-sized Colt Commander. Since gun-fights do not always end with one shot, or nine, having more bullets at your disposal is comforting.

Andy Kemp, director of the Midwest Training Group and a staff instructor for both Massad Ayoob's Lethal Force Institute and John Farnam's Defense Training International, concurs with my applause for the G23.

"It was the first Glock I purchased and the gun that sold me on the other



The Robarized Glock with a full load of ammunition and a weapon-mounted light.

models," Kemp said. "Even after several hundred rounds it resists the urge to malfunction due to lack of cleaning."

Kemp said it's plenty accurate for defense, and that he counts on it to protect his own life.

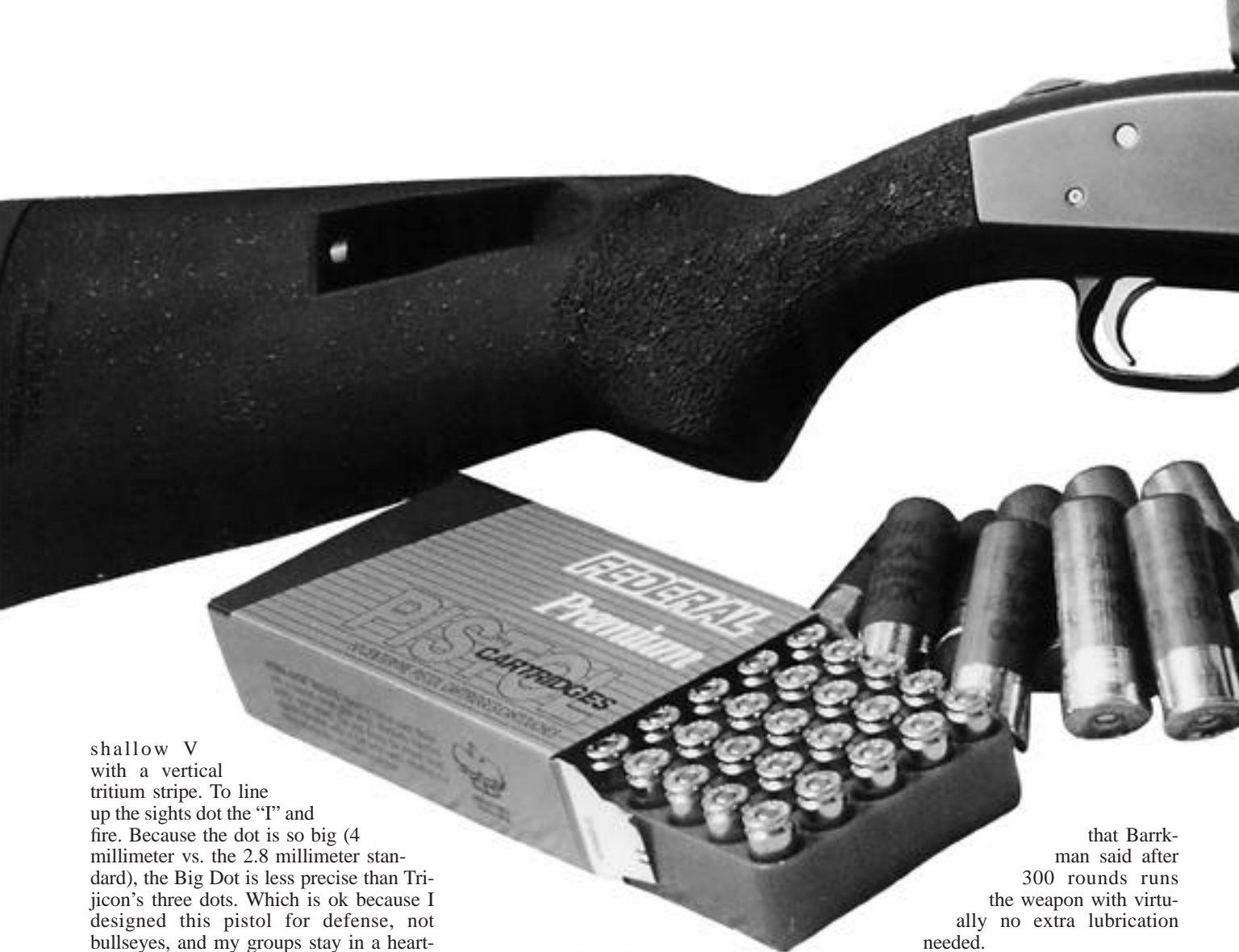
"If I am not wearing my custom .45 by Mark Morris, I am carrying my Glock 23. That pretty much says it all," he said.

Stock Glock's aren't perfect. Better combat sights than Glock's dot-in-a-box exist. Its integral grips are slippery. For a gun with no

external safety I prefer a heavy trigger. I dislike the hooked trigger guard. And while Glock's Tenifer metal treatment keeps the carbon-steel parts from rusting, the black parkerizing that coats the Tenifer quickly wears.

Robar's gunsmiths fixed these shortcomings by installing AO Sight Systems' Pro-Express Big Dot Tritium sights. The tritium-filled dot is enormous and sits like a beach ball. My eye locks onto it instantly, even during high-stress encounters. The rear sight is a





shallow V with a vertical tritium stripe. To line up the sights dot the "T" and fire. Because the dot is so big (4 millimeter vs. the 2.8 millimeter standard), the Big Dot is less precise than Trijicon's three dots. Which is ok because I designed this pistol for defense, not bullseyes, and my groups stay in a heart-sized circle out to 21 feet.

I upgraded the trigger to Glock's New York One configuration, which increases the trigger pull from 5.5 to 8 pounds. Massad Ayoob, director of the L.F.I., said that the NY1: "gives a firm resistance to the finger from the beginning of the pull, giving you another safety advantage against unintentional discharges in extreme high-stress situations."

"It replaces an S-shaped trigger spring with a much stronger part. I see at least half a dozen standard trigger springs break a year, yet I've never personally seen a New York module break," Ayoob said.

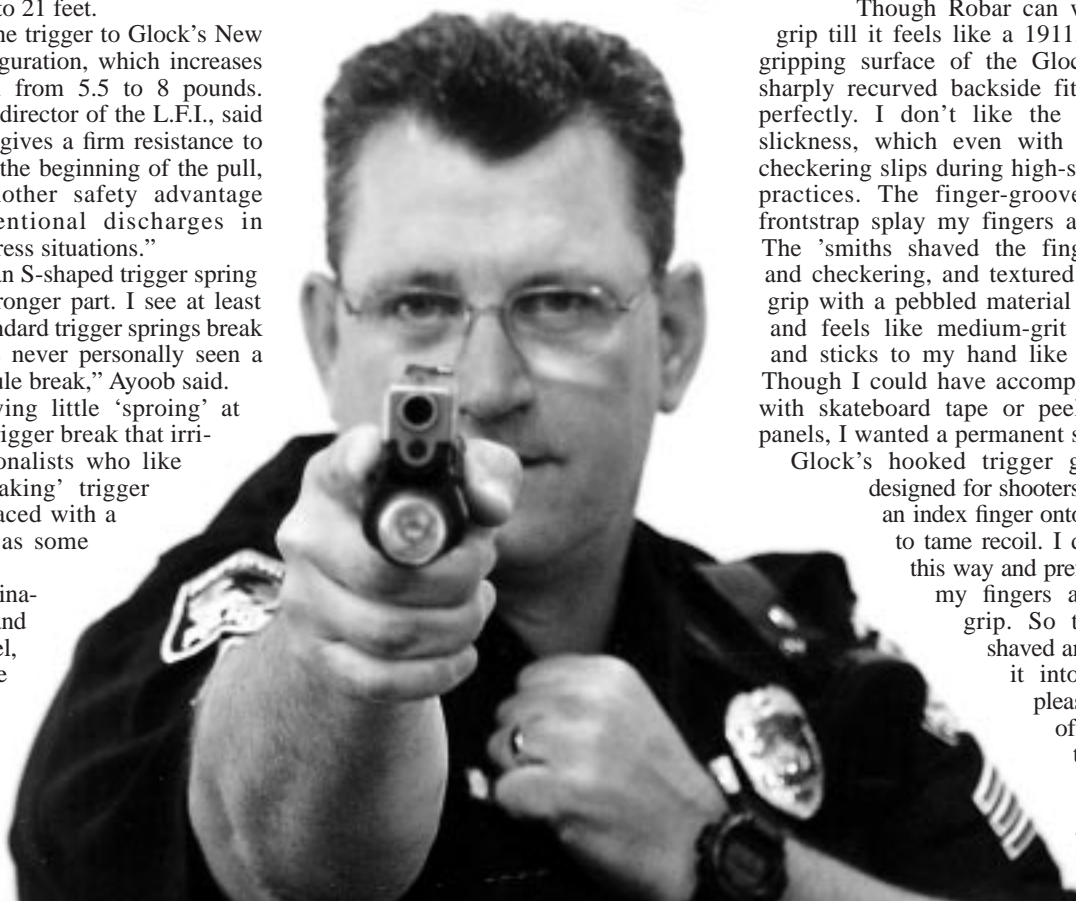
"That annoying little 'sproing' at the end of the trigger break that irritates us traditionalists who like 'glass rod breaking' trigger releases is replaced with a break as clean as some target pistols."

NP3, a combination of Teflon and electroless nickel, lubricates the metal and protects from rust. The result is a satiny silver

that Barrkman said after 300 rounds runs the weapon with virtually no extra lubrication needed.

Though Robar can whittle the grip till it feels like a 1911, the large gripping surface of the Glock and its sharply recurved backside fit my hand perfectly. I don't like the polymer's slickness, which even with molded-in checkering slips during high-speed-draw practices. The finger-grooves on the frontstrap splay my fingers awkwardly. The 'smiths shaved the fingergrooves and checkering, and textured the entire grip with a pebbled material that looks and feels like medium-grit sandpaper and sticks to my hand like a magnet. Though I could have accomplished this with skateboard tape or peel-and-stick panels, I wanted a permanent solution.

Glock's hooked trigger guard was designed for shooters who latch an index finger onto the guard to tame recoil. I don't shoot this way and prefer to wrap my fingers around the grip. So the 'smith shaved and rounded it into the eye-pleasing curve of a 1911. He textured





My hand-held light is a Sure-Fire 6P, also powered by a pair of lithiums. It's 5 inches long, 1.25 inches wide at the lamp, 5.2 ounces in weight, and throws 65 lumens. Compare this to the 15 to 20 lumens generated by a D-cell flashlight and you'll see why lithium is the homeowner's choice.

While neither lamp lights up a room like the sun, they do let you see in the dark. Their DL123A batteries last about an hour, the first 30 minutes fully bright and the last 30 gradually dimming as the batteries drain. Shelf-life of the pricey batteries is 10

the outside of the new guard just in case I needed to grab it. Besides the more streamlined look, this alteration allows me to use holsters not designed for Glocks, providing me more versatility in holster selection should Illinois ever join the rest of the country in decriminalizing concealed carry.

To fire at shapes in the dark without knowing it's the bad guy, and not your daughter sneaking a snack, is morally bankrupt and criminally negligent. Shoot anyone who isn't a real bad guy and what little is left of your freedom and bank accounts will be turned over to the personal-injury lawyers.

You must light your target. A lamp or overhead light is fine if you've got cover to protect yourself from counterattack. But genuine cover that stops a bullet indoors is scarce in homes. So invest in a flashlight or weapons light, though my Dynamic Duo system uses both. Because everything needs a backup.

My weapon-mounted light snaps onto the accessory rail in front of the trigger-guard. It is a Streamlight Tactical M-3 Illuminator, which is 3.38-inches long and 1.75-inches wide, and weighs 3.3 ounces with its pair of lithium batteries. It's hardy under recoil and sticks out from under the Glock only 3/4-inch. Pushing down its thumb-operated switch lights the target momentarily. Pushing up results in constant light.

years, so stock-up when they're on sale.

Oversized magazine releases and extended slide stops bring action-stopping devices too close to your hand. Accidentally touch one on the range and you get a ribbing. Do it during an attack and you get dead.

Glock's small, flat, factory mag buttons and slide stops work just fine. While



Right: The rear sight of AO Sight Systems' Pro-Express Big Dot Tritium is a shallow V with a vertical tritium stripe. **Left:** The front sight of the AO Big Dot is 4mm, far larger than the 2.8mm of AO's regular tritium sight.



Robar modified Mossberg 590 equipped with Surefire weapons light



Glock with NP3-coated metalwork, enhanced grip, tritium express sights and 1911-style triggerguard.



A properly equipped nightstand contains a Glock 23 with weapons-mounted light, a backup handheld light and a cellphone for calling 911.

having 20-odd bullets sounds nice, there's a potentially fatal downside to magazine extensions: jamming. Springs calibrated at the factory for X number of rounds can become over- or under-powered when you alter the count, and the add-on creates a weak point where the two parts meet. If you want something more than a Clinton 10-Pack, buy a 13-round Glock factory mag or a 15-round factory mag made for the 23's big brother, the full-duty-size Glock 22. Compensators are unnecessary. The .40 S&W does not kick hard to begin with, and Glock's flexible frame soaks up a portion of the recoil. Hot gases blasting out of the holes screw up night vision just when you need it the most. And I need all the vision I can get during an attack.

Ye Old Ammo Buffet

Some people like steak. Others prefer chicken. Guns are no different; each swallows one type of ammunition more readily than another. So you need to shoot a variety of ammo to find out who likes what. I took the Robarized Glock to Pepper Sports, the indoor pistol range in Glendale Heights, Ill., and fired 300 rounds of ball ammo to seat the parts and coatings (American Eagle 155-grain Target FMJ). I followed these with a 200-round mix of jacketed hollowpoints from Federal, Remington, Speer and Winchester. The Glock spit out everything without choking — not one misfire in the 500-round meal — and proved most accurate with Federal's 155-grain Premium Hydra-Shok JHP. At 10 feet, a far more realistic self-defense distance than the 25 yards many gun testers employ, this gun put 14 straight rounds (high-cap plus chamber) into a 1.5-inch circle, with six going into an amazing .625 inch. That's tremendous accuracy. And since this Federal load ranks highly in Evan Marshall's "One-Shot-Stop" database — 93 percent vs. 94 percent for Remington's 165-grain Golden



The Sure-Fire Responder replaces the stock forend of the 590, and contains the light, batteries, wires, connections and switchpad (the 6-inch bar in the center).

Saber — I declared myself well fed.

Mossberg 590

Shotguns weigh four times the mass of a pistol. They use more space, carry less ammo, require two hands, and their 18-plus-inch steel snouts bump and break things. So why bother? Because many Americans can no longer legally own a pistol.

Governments are banning handguns not just for concealed carry but for inside the home as well. On June 8, 1981, the Chicago suburb of

Morton Grove banned possession of handguns. Hundreds of jurisdictions followed suit, with Washington, D.C. and Chicago imposing Orwellian bans that required handgun registration while refusing to accept registration applications.

Though more difficult to use because of the aforementioned reasons, a shotgun's heavy load of buckshot gets the job done both handsomely and legally.

"There is no place in the United States that bans long-guns for use in home defense," said National Rifle Association spokeswoman Kelly Whitley.

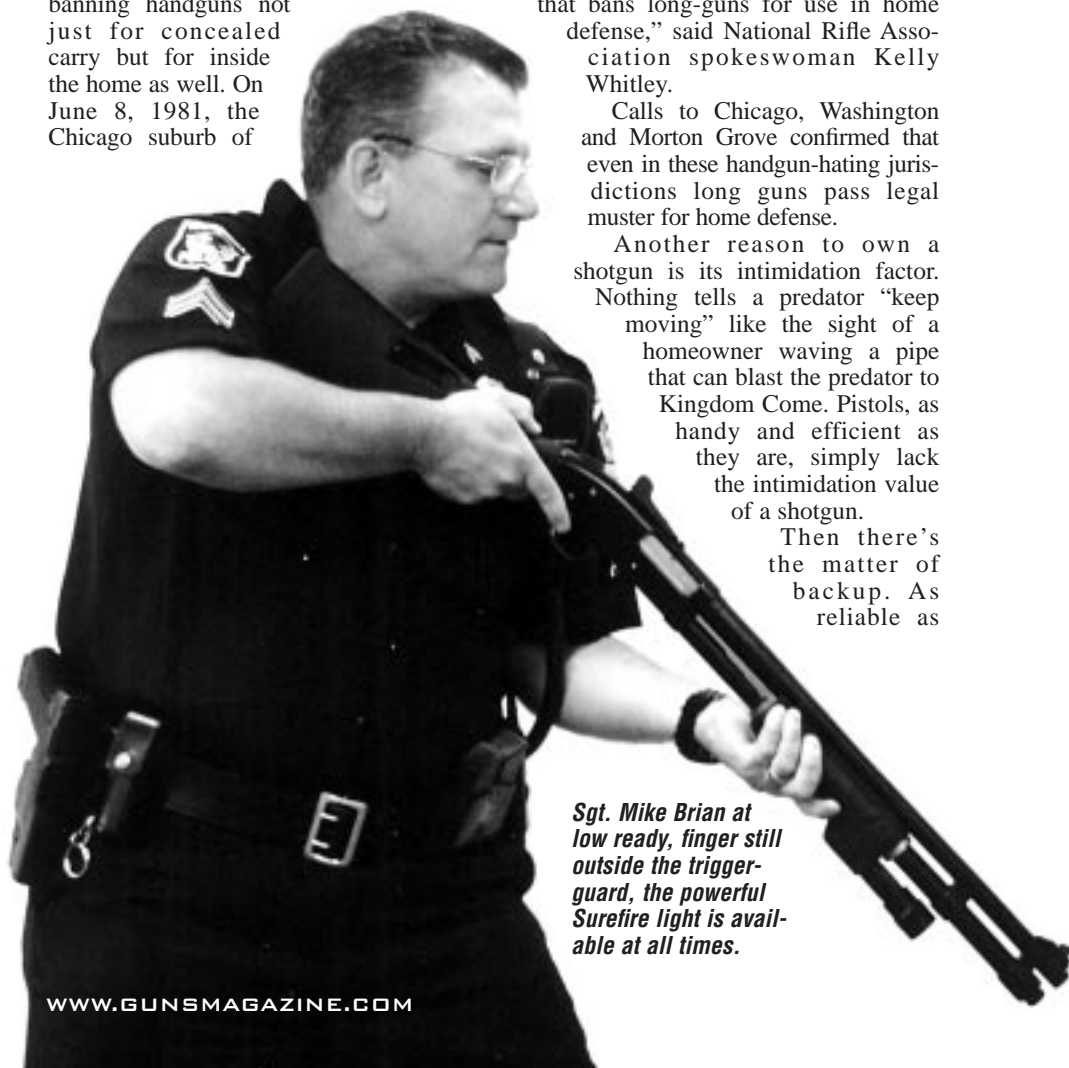
Calls to Chicago, Washington and Morton Grove confirmed that even in these handgun-hating jurisdictions long guns pass legal muster for home defense.

Another reason to own a shotgun is its intimidation factor. Nothing tells a predator "keep moving" like the sight of a homeowner waving a pipe that can blast the predator to Kingdom Come. Pistols, as handy and efficient as they are, simply lack the intimidation value of a shotgun.

Then there's the matter of backup. As reliable as



Sgt. Mike Brian at low ready, finger still outside the trigger-guard, the powerful Surefire light is available at all times.





Arizona gunsmith Robbie Barrkman coated the Glock 23's metal surfaces with NP3, a nickel-Teflon material that rustproofs and permanently lubricates the metal.



Streamlight M-3 Tactical Illuminator isn't much larger than a shotshell, but it is very effective.

modern weapons are, they're still machines, and they do break. A shotgun backs-up the pistol, and vice versa. It's also able to arm another person in the house should you go down.

I chose the single-action 12-gauge Mossberg 590 because it's well-made, and straight out of the box it's nicely equipped. It's pump-action is mechanically simpler than an autoloader and shoots both full-power and light ammo. And only a pump

can deliver that comforting clack-clack of a slide rack that convinces burglars to scoot back out the window.

Pumps, unlike their autoloading brethren, are exempt from the federal assault-weapons ban, which means you can have an extended magazine tube, lights, pistol grip stocks, bayonet lugs, additional shell carriers, and anything else your budget allows. The 590 fires

both 2 $\frac{3}{4}$ - and 3-inch shells, and holds eight rounds of the former in the one-piece magazine tube. It sports a 20-inch cylinder bore barrel and a bayonet lug. (The latter because the full-size 590 was designed as a military weapon.) A metal ghost ring rear-sight with protective side wings and click-wheel adjuster permits precision shooting. The Day-Glo metal front sight is dovetailed into the barrel mount, which is soldered to the barrel. Metal parts are parkerized against rust.

A synthetic SpeedFeed buttstock holds four additional shells for a total of 13 — eight in the tube, four in the stock, one in the chamber. Its tang safety flicks on and off with either thumb, making it much easier to find under stress than its competitors' crossbolts. It has twin shell extractors and action bars (hail redundancy), an inch-thick rubber buttpad, and an action-release button located behind the trigger guard. Its shell-lifter stays up during loading, a thoughtful feature that prevents painful catching of a finger when shoving shells into the tube. And like the Glock, the Mossberg is utterly reliable.

"It's the pickup truck of the gun world, working well no matter how adverse the conditions," said Joseph Koziel, marketing manager for O.F. Mossberg & Sons. "You get some mud in the action, get some sand, and it will still work every time."

While that means an action looser than Remington's 870 (what detractors deride

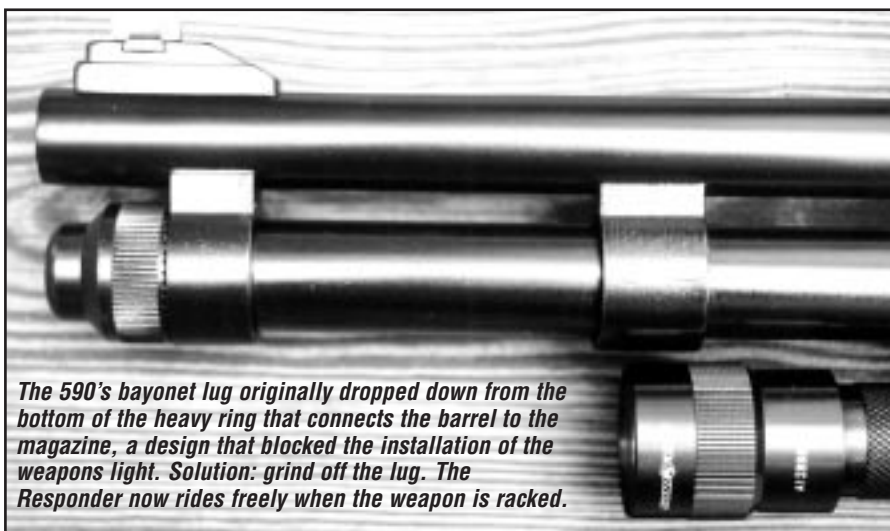
The SpeedFeed stock, which allows four more shells, two on each side, onboard the gun.



The 1-inch thick rubber buttpad makes length of pull 13.875 inches.



The 590's bayonet lug originally dropped down from the bottom of the heavy ring that connects the barrel to the magazine, a design that blocked the installation of the weapons light. Solution: grind off the lug. The Responder now rides freely when the weapon is racked.



cracking of some synthetic parts," Koziel said. "But those are days gone by. It's a world of difference now, and we've experienced no problems with that any more."

Light The Pole

What could I want Robar to add? Unlike a pistol, it's nigh-on impossible to simultaneously handle a pumpgun and a flashlight. But since you need to know what you're shooting at, I had Robar install a Sure-Fire Responder lighting system.

It replaces the Stock 590 forend with a smart one-piece unit that contains forend, light, battery, wires and connections. I prefer this to universal lights that hose-clamp to your barrel and run a wire and switchpad for on and off. Wires can snag

as the "Mossberg rattle"), the looseness is no oversight.

"The extra play was originally intended, for reliability," Koziel said.

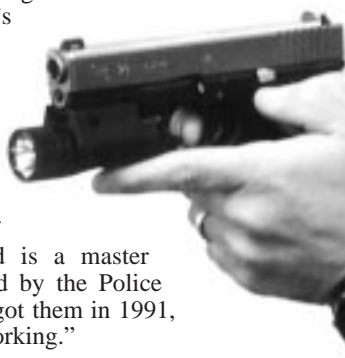
So reliable that Mossbergs are deployed by armies and police departments worldwide, making the Connecticut firm the world's largest seller of shotguns.

My hometown's police sergeant Mike Brian, a range-master and defensive tactics instructor, argued for his department to switch to Mossbergs in the early 1990s. He's never looked back.

"We have had no problems with the Mossy," said Brian, who shot competitively in the U.S. Army, trained at Ray Chapman's Academy of Practical Shooting, and is a master pistol instructor certified by the Police Training Institute. "We got them in 1991, and they just keep on working."

Two versions of the 590 exist: the commercial, which I have, and the 590A1 for the military. The A1's barrel is thicker, and its safety button and trigger-guard are aluminum whereas the commercial is synthetic. While the thinner versus the thicker barrel seems a non issue, people don't trust synthetic safeties and triggerguards. Synthetics, some believe, break — which Koziel dismisses as ancient thinking.

"Years ago Mossberg experienced some breaking and





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PHOTO BY: ICHIRO NAGATA

and deactivate the light. The Responder's 65 lumens (same as the 6P and M-3) are activated by touching the 6-inch switch bar on the right side of the forend where a right-handed shooter rests his fingers. Grasp firmly and the light goes on. Ungrasp, it goes off. Simple.

Not so simple was bolting the thing. The bayonet lug drops from the heavy ring that cinches the magazine tube to the barrel, physically blocking the light from mounting. Solution: Grind it off. I have no use for bayonets, and the 'smith was willing. So once properly ground and polished the Responder slipped right into place.

Because plastic slips, Robar applied grip texturing to the Responder and the butt-stock. As with the other half of the Dynamic Duo, the pebbly material provides the magnetic grip I need for control.

Kozziel freely admits that a Mossberg isn't as buffed as its rivals.

"Yes, ours is less finely polished than the higher-priced spreads. That's how we keep the price down," Kozziel said. But this lack of polish, he said, "does not interfere with reliability. We have no problems whatsoever with reliability."

Since the Dynamic Duo represents the apex of home-defense weaponry, I had Robar smooth and polish the action. Still plenty loose for reliability, the action now racks and clacks like a well-oiled piston.

I chose the silvery NP3 for the internal metal parts. They'll benefit from the permanent lubricity of the Teflon and rust resistance of the nickel. But coating the exterior with NP3 would give me one huge shiny hunk o'pipe. That I didn't want. So I went with Roguard, a polymer that bakes into a durable finish which glows deep black. I like it better than the parkerizing the Mossberg sported — it's smoother, less gritty-feeling, and contrasts nicely with the NP3'd internals that peek through the gun's ports. Roguard isn't as hard as NP3 because it lacks nickel, but Robar's customers say it wears well.

Feeding Slugs and Shot

Sgt. Brian likes rifled slugs because "a 500-grain, .72-caliber projectile may be the only projectile in the arsenal capable of one-shot stops." Chuck Taylor argues that, "the natural ammo for a shotgun is buckshot; slugs are silly and wasteful and accomplish nothing not better done with a rifle."

Neither view is wrong.

I chose double-ought buckshot. At the conversational distance of home defense, nine .33-caliber lead pellets will devastate a target. And a spread is more forgiving of aiming errors than is a single projectile. While slugs are indisputably more effective for distance shots, remember your mission: You would shoot a bad guy at 10 paces, not 1,000.

I prefer Federal's 2 3/4-inch Tactical 00 Buckshot. It patterns nicely, with all nine pellets staying inside a 3-inch circle at 10 feet and 7 inches at 21 feet. Not as impor-

tant as performance but still desirable, TacBuck is user-friendly, and provides nearly all the energy of a full-power shell with just two-thirds the recoil. It felt to me like No. 6 birdshot, and tames the mighty thump of a 12-gauge into something more acceptable to my shoulder, allowing me to practice longer and not wince so much afterward. As Martha Stewart says, "That's a good thing."

I took the Mossberg and a case of 2 1/4-inch ammo to Midwest Sporting Goods in Lyons, Ill. My test-fire consisted of a 150-round mixture of Federal, Winchester and Remington full-power slugs and shotshells followed by 50 rounds of Federal Tactical Slugs. Then I launched 25 rounds of TacBuck to pattern the weapon, getting the aforementioned 3-inch circles at 10 feet and 7 inches at 21 feet. Besides grouping well, TacBuck and TacSlug were easier on my shoulder than the full-power loads. Reliability wasn't an issue with any of the loads. And since TacBuck is tied for first place at 96 percent with Winchester's full-power in the "One-Shot-Stop" ratings, why not choose the load that's easiest to live with?

Thoughts

Well-made weapons aren't cheap. More expensive yet are gunsmiths, lights, crisis belts, glow-in-the-dark sights, slick metal finishes, jacketed hollowpoints, tactical buck, and the training that makes it all work. You could spend a helluva lot less money by grabbing a beater gun off the Internet, spending an hour annihilating tin cans with Uncle Gooch down at the landfill, and declaring yourself good to go.

So is the extra expense worth it?

After Richard Eitel's conviction was overturned in 1994 because of the inadmissibility of a piece of evidence, in 1998 a DuPage County jury convicted Eitel of home invasion and aggravated battery of a child. In exchange for a 30-year sentence instead of 45, Eitel waived all appeals. He currently resides in the Sheridan Correctional Center in northeastern Illinois.

Katie Chiczewski spent a week in a coma, but survived. She's in school and doing "miraculously well" given the extent of her injuries, mother Linda told the court during Eitel's first sentencing hearing in 1994.



More Info

The Robar Companies
[623] 581-2648
www.robarguns.com

Ao Sight Systems
1-888-744-4880
www.aosights.com

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1-800-828-8809
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Beretta's BM59

By Willis Ball

The Ultimate Garand



Only the **Italians** could transform
Garand's classic combat **rifle**
into a piece of fine **art**.

Italians do things with flair. And when the folks who decorated the ceiling of the Sistine Chapel — who still build Ferraris and craft exquisite shotguns — turned their attention to upgrading the M1 Garand in 1959, a superior battle rifle proved inevitable. Had Gen. George S. Patton slapped his hands on a Beretta BM59, he would have anointed it the best battle implement ever devised. Once the Garand's weaknesses reported during combat were purged, the BM59 became the ultimate refinement of John C. Garand's design.

In harsh combat conditions, the Garand proved accurate, reliable and effective. The United States was the first major nation to equip its soldiers with a gas-operated, self-loading rifle, and American GIs blasted out World War II victories with more than 4 million M1s. In the hands of American and other United

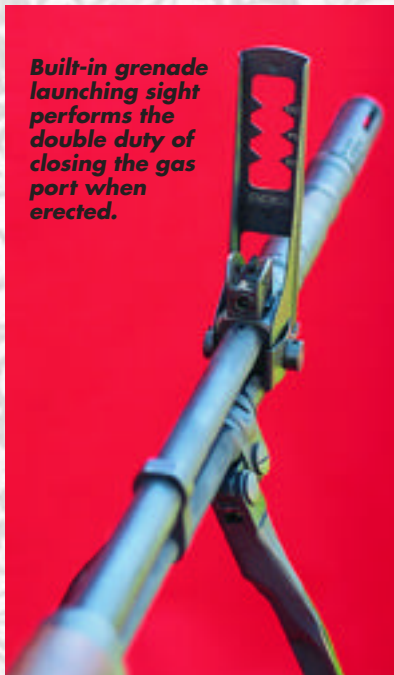
Nations combat units, the M1 soldiered with distinction in the Korean conflict. In post-war Europe, M1-armed NATO nations defined sharp limits to the Iron Curtain's borders.

However successful the M1 was, it did have combat limitations. Approaching 10 pounds, the M1 was too heavy. With only eight cartridges, the M1 could fail the armed soldier who often needed more fire-power but didn't have time to reload. It was too noisy; an empty rifle ejected the enbloc clip with a sound distinctly audible to nearby hostilities. The partially expended clip proved hard to refill, which made it inconvenient. Yet even with these limitations, large quantities of M1 rifles helped rebuild the military forces of European allies in the late 1940s and early 1950s.

Practical Conception

Following World War II, Italy joined NATO and acquired American machines, parts and data in order to overhaul and produce M1 rifles. By the mid-1950s, two Italian companies, Breda and Beretta, were pro-

Built-in grenade launching sight performs the double duty of closing the gas port when erected.



ducing complete .30-'06-chambered M1 rifles. Crafted under peacetime conditions using production knowledge transferred from American arsenals, these rifles reflected the best of the basic M1 design. Denmark bought about 20,000 of these rifles. Beretta delivered more than 100,000 M1s to the Italian armed forces. Acutely conscious of the fine points of fit and finish, Beretta's workers demonstrated an artistic passion for sharp cutters, surface-ground finishes, and attention to detail.

Once NATO decided to standardize the 7.62x51 round, an obvious need for rifles to match the new cartridge stimulated competition. European governments budgeted large sums of money for 7.62 NATO rifle purchases, and arms-makers scrambled for market position. The United States ended 12 years of rifle development when it began deploying the M14 rifle in 1957. New 7.62 rifles such as

FN's FAL and the CETME-based G3 rifles were demonstrated and tested by NATO nations.

In 1957, Beretta's Research and Development Division looked hard at the 7.62x51 cartridge. Analysis suggested that with some engineering changes to the basic Garand rifle, all NATO requirements could be satisfied at less cost than a newly designed battle rifle. Recalling Beretta's M1 rifle manufacturing expertise and modern production capability, the design team decided to chamber the M1 rifle in the 7.62 NATO cartridge, correct the rifle's limitations, and upgrade its performance to modern battle-rifle standards.

There were few bugs to impede the design, and in a matter of months the BM59 (Beretta Modification 1959) was production ready.

Adaptability

Beginning with the proven M1's gas-operated action, BM59s came with a 7.62 NATO-caliber barrel with right-hand, four-groove rifling. Manufactured from SAE 4150 steel, its barrels were shorter, and the gas cylinders and operating rods differed from the M1. Beretta added selective semiauto and fully-auto firing capabilities; the selector switch is found on the left front of the receiver just behind the handguard. With the selector set to A (or automatic), a sear trip-lever makes contact with the operating rod. The rifle will fire automatically as long as the trigger is depressed and the rifle contains ammunition. To accommodate the box magazine needed for automatic fire, the bolt, the trigger group, and the stock were modified.

The BM59 design included a 20-round sheetmetal box magazine (weighing 11 ounces), a cartridge clip guide for loading the box magazine, and an attachable bipod. A reinforced rubber butt-plate replaced the steel Garand butt-plate. The BM59 omitted the Garand's front handguard, but included grenade-launching sights and a winter trigger to protect the soldier's finger from recoil should he have to fire rifle grenades. Beretta even produced a 9-ounce attachable bipod for prone firing. Stocked in European walnut, the BM59's fit and finish reflected high standards for military rifles.

Beretta developed an innovative barrel-mounted tri-compensator to solve two problems associated with full-automatic fire: heavy recoil during firing and the wide spread of the bullets that results from the upward rise of the barrel while firing. Operational testing showed the tri-compensator gave smaller bullet patterns during automatic firing. In either fully-auto or semiauto firing, the tri-compensator effectively reduced muzzle flash. Tri-compensators came in detachable (for parachutists) and fixed versions. Most, but not all, tri-compensators were adaptable to rifle grenades: but a different gas

Stripper clip guide of the BM59 permits topping off a partially spent magazine.



Variations in butt-plates: (left to right) M1A, Garand, BM59. Both the M1A and BM59 incorporated a folding shoulder plate for more effective full-auto fire from the prone position.



cylinder necessitated a non-U.S. standard bayonet. A gas spindle valve, operated by erecting a grenade-launcher sight mount, redirected the gases from the gas cylinder to the muzzle in order to launch grenades. Beretta also produced a finely machined sight for indirect grenade launching.

In full-automatic fire, various BM59 models had a theoretical firing rate of 750- to 810-rounds per minute. However, given the time required to replace empty magazines, the cyclic rate was still about 400-rounds per minute – still a substantial firepower increase over the Garand.

It's A Family Affair

The BM59 rifle family included several variations: wood-stocked standard rifles like the American M14 rifle, a wood-stocked, pistol-gripped rifle for the squad automatic-fire role (like the American M14E2 rifle), and folding-stock versions for parachute and mountain troops. Beretta also produced a sportier version for commercial markets.

At a distance, the BM59 ITAL rifle and the U.S. M14 rifles appear similar. Both used a detachable box magazine, eliminated the M1's front handguard, and added a flash suppressor. The ITAL model included the tri-compensator with attached bipod, weighed 9.7 pounds, and measured just over 43-inches long. Barrel length was 19.3 inches. However, BM59 magazines are not interchangeable with U.S. M14 rifle magazines.

Original Beretta marketing brochures describe a variant of the ITAL rifle. Called the BM59 Mark I and the BM59 Mark II, both marks appear to be the same rifle. A streamlined configuration featured a shorter 17.4-inch barrel but omitted the bipod. Its tri-compensator did not include grenade-launching capabilities. This rifle measured 40.5 inches overall and weighed 9 pounds.

Designed to substitute for a light machine gun, the BM59 Mark IV rifle used a heavy 20.8-inch barrel and weighed about 12 pounds unloaded. A carrying handle attached to the upper handguard made the Mark IV easy to carry. With a fixed pistol-grip stock specially shaped for prone firing and an attachable bipod, the Beretta Mark IV measured 44.5 inches long. Two versions of the bipod were available: a common model with rounded legs and rarer versions with squared legs. Occasionally, references identify this rifle as the Nigerian model.

A folding stock Alpini rifle designed for mountain troops and special units weighed 9.8 pounds and used a 19.3-inch barrel. With stock extended, the Alpini rifle was 43 inches long; folded, it measured just 33.7 inches.

A folding stock Paracadutisti model, designed for paratroops and airborne soldiers, included a detachable grenade launcher and tri-compensator. Without a



bayonet, an unloaded Paracadutisti model weighed just over 10 pounds and was almost 29 inches long. Unfolding the metal stock and attaching the tri-compensator increased the length to 48 inches.

For customers wanting minimal updates (and expense) for their M1 rifle inventory, Beretta also would convert existing rifles to the 7.62x51 cartridge and add 20-round box-magazine capability. Both fully-auto or self-loading versions could be supplied, but the conversion omitted the tri-compensator, bipod and rubber butt-plate. Called the Beretta BM59 "E," this 9.3-pound rifle looked just like a Garand fitted with a box magazine and flash suppressor.

Beretta offered to modify existing M1 inventories to any of several BM59 configurations. Starting with an as-issued U.S. Garand, 34 parts required no modification, and 18 were discarded. Beretta modified 13 original Garand parts and added 25 new ones of its own manufacture.

Beretta also produced new M1 rifles

chambered for the 7.62x51 cartridge, which required a shorter barrel, shorter rear handguard, shorter stock and shorter operating rod than the .30-'06 model.

A combination of national and political considerations overshadowed the inherent advantages of the BM59 concept, which resulted in most NATO nations adopting other rifles. Beretta's high-quality fit and finish was considered expensive. As a result the BM59 entered service with the Italian Army in 1960 and continued as their primary rifle until 1985, when another Beretta rifle, the AR70/90, replaced it.

World Tour

Beretta licensed BM59 production to Indonesia and Nigeria. In the 1960s, Indonesia produced BM59s at the Bandung weapons factory, and Nigerian BM59s came from the Kaduna Ordinance Factory. Other BM59 customers included Algeria, Argentina, Ethiopia, Libya and Sudan.

The BM59 performed reliably in

combat use in South America and Africa. During the Falklands (or Malvinas) conflict of the early 1980s, contemporary news photos show some Argentine soldiers carrying BM59s. British forces subsequently captured small numbers of BM59 rifles from Argentine troops. Argentina also converted some M1 Garand rifles to use BM59 magazines in the 1950s. Libyan and Ethiopian arsenals included the BM59 Mark IV as a light machine gun. Algerian soldiers toted the standard BM59 rifle.

Interestingly, the BM59 occasionally filled a less official role. When 3 Commando (Canadian Airborne Regiment) deployed to Somalia for peacekeeping duties in 1992-1993, weapons confiscation from Somali irregulars became a major objective. On the night of February 26, 1993, a 3 Commando patrol placed a roadblock on the Mogadishu highway and searched seven vehicles in the first hour alone. Past midnight, things quieted down, with a few vehicles transiting the roadblock each hour. One patrolling Canadian trooper recalled that evening:

"We captured several weapons including a SAR-80 and an Italian 7.62mm BM59 PC by Beretta but made by Springfield Armories in the States. The BM59 is a beautiful weapon, much like an M14 with a bipod and a folding butt. It also has a grenade launcher sight and the flash eliminator pops off to accept a grenade launcher."

Note: subsequent research suggests the confiscated BM59's serial number is 239735. Apparently, this BM59 was not transferred to the Canadian Airborne Forces Museum. The story of how this BM59 came to Somalia, and its current location, remains an intriguing but unknown chapter of the BM59 story.

Lacking large military sales to other nations, Beretta sought commercial markets for the BM59 in the United States. Small numbers of both self-loading and selective-fire BM59s were imported to the United States in the 1960s and 1970s. Most were marked: BM59 308 Win Berben Corp NY, NY. Beretta also developed the BM-62, a sporting model of the BM59. Lacking grenade launcher and sights, the elegant self-loading BM-62 sported a blued metal finish, rubber recoil pad, selected European walnut stock, and two lengths of flash suppressor.

The late Mel Tappan, author of the 1970's tome *Survival Guns*, liked the BM59: "partly because I trust the Garand action on which it is based, but also because it is extremely accurate and it handles almost as well as the little GI carbine of World War II. Its kinship to the M1 also makes parts cheap and easy to come by. Mine weighs just under 8 pounds and, with its gas operation and muzzle break, the recoil is not at all strenuous. It is very stable in aimed, rapid fire. It will accept



Business end of the BM59 Standard Rifle clearly shows the tri-compensator and attachable bipod.



With bipod removed, the BM59 becomes even more trim and fast-handling.

among others 20-round magazines, and it may also be fed from stripper clips.”

Even with endorsements like Mel Tappan’s, sales in the United States proved disappointing. Eventually Beretta stopped importing both BM59s and BM-62s.

Yet the BM59 concept proved popular; the rifle did everything Mel Tappan wrote it would do. When Beretta ceased importation, several companies and individuals began to produce their own versions of the BM59. Many BM59s were constructed on demilitarized or scrapped Garand receivers and barrels. Front and rear receiver pieces were rewelded, and two-groove 1903 Springfield barrels were sleeved into Garand barrel stubs. Others were built on genuine M1 receivers and used a combination of USGI and Beretta parts. Each BM59 conversion required machining on the receiver to handle the box magazine. Some conversions showed acceptable standards of craftsmanship and safety. Others reflected lower standards.

Italian-American

I recently handled a rifle with the receiver marked: Nat’l Ord, Inc. So El Monte, CA, BM59 Cal 308. The serial number was 102X. Next in the rack was a BM59-looking rifle built on a World War II vintage USGI Garand receiver with a USGI barrel and gas cylinder, and a clip charging-guide soldered to the receiver. Both rifles accepted the BM59 box magazine. The point is that almost anything and everything seems possible, and it is unlikely anyone will ever know all possible variations of ersatz BM59s. The best advice for prospective purchasers or owners is that if the receiver markings don’t reflect manufacture by Springfield Armory of Geneseo, Ill., bring a BM59-marked rifle to a good M1 gunsmith for a technical inspection.

When Beretta stopped importing



Pistol grip stock of the BM59 Mark IV is an asset when the rifle is employed as a Squad Automatic Weapon.



The Mark IV employed a distinctive muzzle compensator and sturdy bipod.

The sizeable carry handle is impossible to miss...



as are the Mark IV's pistol grip and folding shoulder plate.



BM59s, Springfield Armory stepped into the picture. Of course, today's Springfield Armory is not the former U.S. arsenal, but a commercial enterprise located in Geneseo, Ill., owned by the Reese family.

Founder Bob Reese recalls:

"In 1974 I took over the Springfield Armory trademark. Around 1984, I found out what a BM59 was, and bought one. It was a used Beretta fully-automatic rifle and the seller wanted \$2,500. It was a very nice rifle. Later I visited Beretta's corporate headquarters in Gardone, Val Trompia, Italy. A long-time Beretta employee mentioned the BM59 machinery was still located in the underground manufacturing facility, and sure enough, it was all there — big broaching machines, heat-treating facilities and lots of receiver forgings in various stages of machining and heat treating. Beretta had even kept enough parts to overhaul BM59s for its customers. It took about a year to close a deal where Beretta sold most of the machines and tooling, plus tons of parts and receiver forgings to Springfield Armory."

With original U.S. cutters and machines purchased from Beretta, Springfield Armory transformed receiver forgings into BM59 actions. Its technicians added Beretta-manufactured parts, bolts, tri-compensators and barrels to finish machined and heat-treated actions. Some rifles were fitted with European walnut butt-stocks. A folding metal pistol-grip stock, similar but not quite identical to the original Paracadutisti and Alpini folders, is available — it can be fitted to all Springfield Armory-produced BM59s.

Serious accuracy testing of the BM59 is made more comfortable by the effective compensator, great sights, and nearly 10-pound weight of the rifle.



Prospective purchasers should check applicable laws in their states and locales.

Ultimately, seven distinct semiauto rifles emerged from Springfield Armory's facility. The offering includes the Beretta Garand, the BM59 "E," BM-50, BM59, BM59 Mark IV, BM-62 and BM-69.

The Beretta Garand is nearly identical to the M1 Garand. To accommodate the shorter 7.62x51 cartridge, the barrel, rear handguard, stock and operating rod were shortened, and the rifle length measures 43.125 inches (.05-inch shorter than the M1). This rifle uses the eight-round en-bloc clip; the receiver of a photo sample rifle was marked: P. Beretta, Made in Italy, CAL .30 M1.

Many From One

The BM59 "E" retains the Garand's wooden front handguard and steel butt-plate, and adds a 20-round box magazine and cartridge clip guide. A different muzzle-brake/flash-hider replaced the Garand's gas cylinder lock. Receiver markings on a photo sample read: P. Beretta, 7.62mm BM59, Gardone V.T., Italia.

Similar to the Beretta BM59 Mark I and Mark II rifles, the wood-stocked BM50 omits the cartridge clip guide and bayonet lug. Prominently marked on the receiver heel was: P. Beretta, 7.62mm BM50, Gardone V.T., Italia. The 17.5-inch barrel retains the grenade launching sight. However, a shorter, reduced diameter tri-compensator makes grenade launching ineffective.

Springfield Armory's BM59 is a virtually indistinguishable twin to the Beretta BM59 ITAL rifle, with a full set of military features.

Differing from the BM59, the Mark IV is fitted with a stock similar to the pistol-gripped U.S. M14E2 stock, a carrying handle and a longer barrel. Beretta originally designed the Mark IV for squad automatic fire; Springfield Armory's Mark IV is a semiauto fire version.

The BM-62 and BM-69 are sporting rifles, omitting the grenade-launching features and sights. The BM-69 includes a folding bipod and tri-compensator, while the BM-62 is a classic rifle without these items.

Continued on page 121

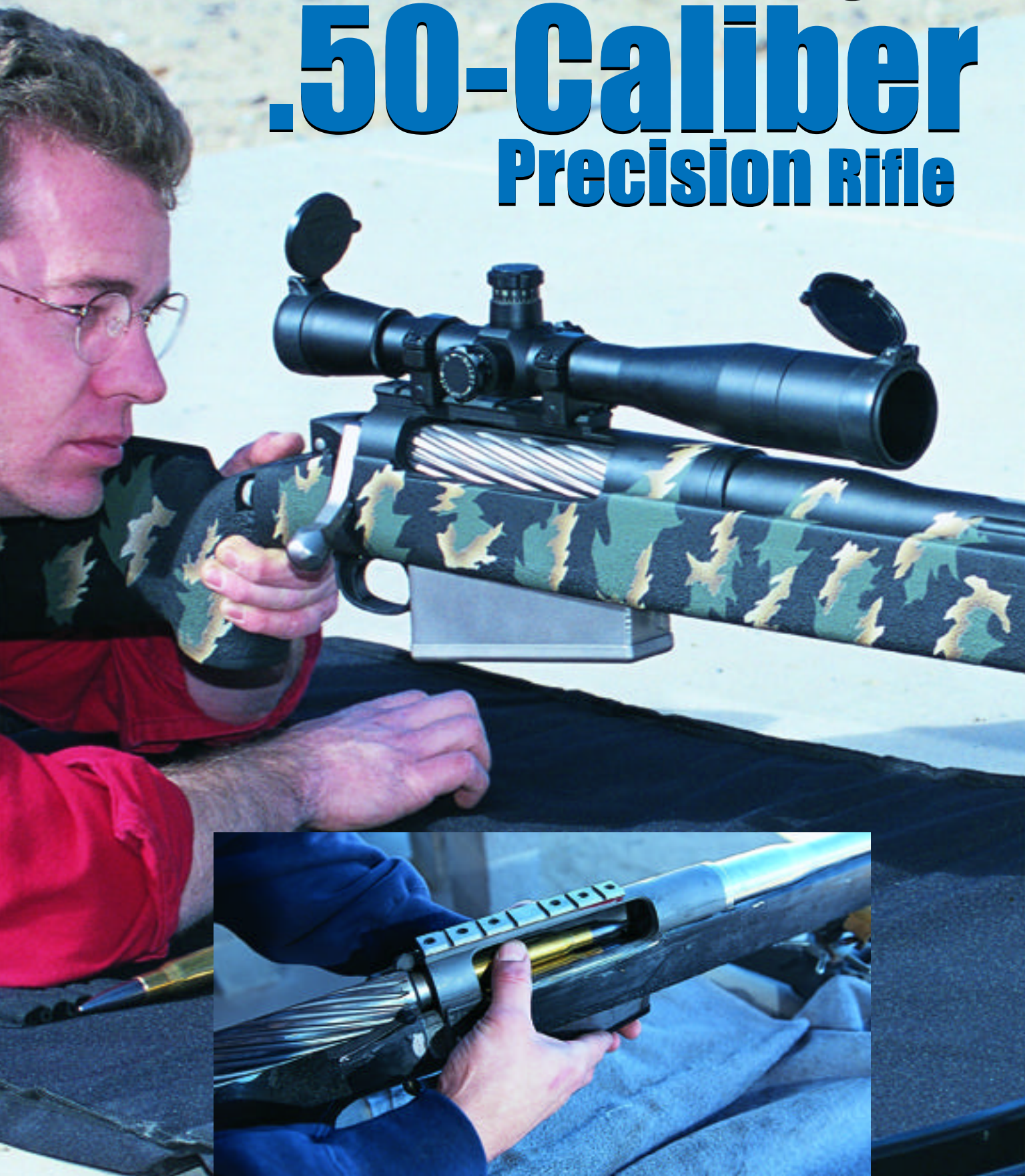
Tips for BM59 Rifle Owners

Reliability and performance of BM59 and Garand rifles improve when the following areas are properly lubricated. Apply a good grease to (1) the nose of the hammer, (2) both locking lugs, their recesses and tracks, (3) inside the operating rod where it engages the right locking lug, (4) underneath the barrel reinforce where the operating rod slides, and (5) where the long spring goes inside the operating rod. Do not grease the gas cylinder. Lubriplate 130A and Plastilube are the standard greases, but excellent results can be had with X-1R's space technology gun grease.

Over the years, lots of folks have reworked, welded and assembled rifles that they sold as BM59 rifles. Some builders used welded receivers and sleeved barrels soldered into a Garand barrel stub to complete their rifles. Most of these ersatz rifles used M1 gas cylinders, rather than Beretta BM59 gas cylinders, which are different and much harder to get. Here's a tip: if a flat, wooden Popsicle stick won't go between the barrel and the gas cylinder, the gas cylinder is from a M1. A real BM59 gas cylinder should take about two and a half Popsicle sticks between the barrel and gas cylinder. If the receiver is also marked: Springfield Armory, Geneseo, IL, then the rifle is a real BM59. This test works for all BM59 rifles except for the BM59 "E" rifle, which is a transitional model between the M1 and BM59. The BM59 "E" rifle uses the M1 gas cylinder as does the 7.62 Beretta Garand.



Not Your Average **.50-Caliber** Precision Rifle



ROBAR'S RC50 Rifle

By Dave Anderson
Photos By Nyle Leatham

Robar is known for its fine firearm finishes, which include standard options such as blueing, parkerizing and electroless nickel and proprietary finishes. But these services are just part of Robar's business.

Company president Robert Barrkman is a firearms expert and a marksman. His interest in shooting led to the establishment of Robar's custom shop, which builds high-grade handguns, shotguns and rifles. The emphasis is on making tough, reliable, practical and accurate arms for personal defense, hunting, and police and military service.



Among the custom rifles are the impressive RC50 and RC50-F models, chambered for the classic .50 BMG cartridge. The .50 first entered military service in 1918 in the big Browning machine gun and remains in service to this day. It has been a stalwart performer in all branches of the armed forces, from aerial combat to ground troop use.

More recently some shooters have begun exploring the accuracy potential of the big round in standard rifle actions. The concept itself is not new. Articles on bolt-action and single-shot .50s appeared in magazines 50 years ago. What is relatively new is the search for extreme accuracy with the big .50 round.

Three Shot Cloverleaf

Robar has applied many of the accuracy-enhancing features learned during



ft.lb. The 750-grain bullet sighted at 1,000 yards is 91 inches high at its highest (at 531 yards) and arrives at the 1,000 yard target travelling at 1,832 fps, packing 5,589 ft.lb. of energy.

Weights and Measures

For all its size, the Robar RC50 has the appearance and operating features of a standard bolt-action, heavy-barrel target rifle. The action appears similar to the McBros action designed by Rock and Kelly McMillan, though the literature says it is custom-built by Robar. At around 7.5 pounds, the action alone weighs as much as some complete rifles. In design and operation it is similar to standard actions with twin forward locking lugs, a Sako-type hook extractor, and a Remington 700-style recoil lug sandwiched between barrel and receiver. Mind you, the massive recoil lug looks as though it could have come off a railway locomotive. The action uses a five-shot detachable box magazine.

The 29-inch barrel is supplied by Lilja, a highly respected name in accuracy circles. The barrel is free floated. Fluting is a popular option — I suspect primarily because it looks good. Fluting barrels does reduce weight slightly and aids barrel cooling, but lightweight isn't an objective with a .50-caliber rifle. Few people are going to shoot fast enough to worry about barrel heating.

Trigger mechanism is a modified Remington type, adjusted to give a crisp 2.5-pound pull. The stock is fitted with a 1-inch thick Pachmayr "Decelerator" recoil pad. Of course Robar's proprietary finishes are applied. Standard models

benchrest competitions to a more ambitious scale. Each Robar .50 rifle is guaranteed to shoot three-shot groups of .5 MOA or better at 1,000 yards with "appropriate" ammunition, meaning ammunition with match-grade bullets. Standard military production .50-caliber ammunition can't be guaranteed to provide that level of accuracy, though at 100 yards even military ammunition usually produces three-shot cloverleaves.

Shooting a .50 at 100 yards is a bit like shooting a heavy-barrel .22-250 at 15 yards. Such a distance doesn't challenge its capabilities at all. The big .50-caliber bullets are phenomenally effi-

cient. For example, a .30-caliber, 168-grain bullet has a sectional density of 0.253 and a ballistic coefficient of between 0.400 and 0.470, depending on bullet shape.

By comparison the .50-caliber, 750-grain Hornady A-Max bullet has a sectional density of 0.412 and an incredible ballistic coefficient of 1.050. Let's compare a .30-caliber, 168-grain Hornady A-Max and the 750-grain A-Max, both launched at 2,600 fps muzzle velocity. Sighted at 1,000 yards, the .30-caliber bullet rises 139 inches high mid-range (at 563 yards) and arrives at 1,000 yards going 1,246 fps with an energy of 579





have the Roguard finish on receiver and barrel, while the bolt, magazine and internal parts are coated with NP3. The NP3 finish is highly corrosion-resistant, hard, and has a natural lubricity that makes it ideal for working parts. For all its massive size, the Robar RC50 action functions with impressive smoothness.

The stock gets Robar's nonslip texture in a choice of colors: black, tan, gray or green. Camouflage finish is a popular option. Barrels are fitted with a compact, highly-efficient, four-chamber compensator. The standard rifle weighs 25 pounds (without scope and with magazine empty), which is actually on the light side for a .50-caliber rifle.

The RC50-F model is functionally identical to the standard RC50 but with a folding stock. For a rifle of this size and power the folding mechanism needs to be strong. For the Robar, think of a bank vault's door. The hinged steel folding mechanism is machined from solid steel, and is rock-solid when in use. The folding feature is especially popular for military use, making the rifle easier to transport in the confined spaces of a helicopter or vehicle.

Men and Machine

We talked with Tadd Hatch of the Robar company, who showed photographer Nyle Leatham and myself around the production area. Who are the customers for these rifles? Tadd explained that many are target shooters intrigued with the challenge of long-range accuracy. Some of them are benchrest shooters exploring the limits of accuracy at long ranges just as they did at 100 and 200 yards in conven-





A yet to be finished Robar RC50 is tested for proper function. Notice that no telescope is attached. For these preliminary tests, there is no need to subject a good scope to the pounding recoil of the .50 BMG.



tional benchrest competitions.

These enthusiasts have formed the Fifty Caliber Shooters' Association (FCSA) to promote competition with .50-caliber rifles. In fact, it was the research done by these shooters, for no other reason than because the challenge was there, that has been put to practical use by the military. Though they could no doubt be used by the military as anti-personnel weapons, the main role of the big .50s seems to be against vehicles and equipment.

An example appeared in the news in the fall of 1999. The Coast Guard had been trying to intercept and stop drug smugglers using "cigarette boats": high-powered, low-profile speedboats that could easily outrun any conventional craft. When these boats ignored repeated orders to stop, even after machine guns were fired across their bows, Coast Guard marksmen in helicopters used Robar .50s to disable these boats' engines.

A long-range rifle needs a long-range scope. Robar

actions come fitted with a Weaver-style base attached with six heavy screws. The base is angled one-half of a degree upward to make the most of the elevation adjustment range of the scope available for longer ranges. The Leupold MK. IV 16X scope is especially popular with this rifle. It is very tough, has good optics, and has available an exceptional 140-minutes of vertical adjustment.

Barrel lengths other than the standard 29 inches are available, though Robar does not recommend a barrel shorter than 24 inches, and there is an additional cost for barrels over 30 inches. Popular options include a bipod, case, cleaning and tool kits, and match triggers such as





the superb Jewell.

Every Robar rifle is proof fired, then fired with standard ammunition to check accuracy and functioning. Tadd Hatch does much of the test firing. He feels the recoil is similar to that of a 12-gauge shotgun with 3-inch magnum loads. Hatch has fired as many as 80 rounds in a session without being unduly bothered by recoil. The reason Robar can guarantee .5 MOA accuracy at 1,000 yards is quite simple. Each rifle is tested by Tadd or another qualified shooter. If the rifle doesn't meet that standard it gets tuned until it does, or it never gets sold.

Handling and shooting the big rifle is like an adventure out of Gulliver's Travels. Everything looks the same and functions the same, just way out of proportion. It's odd to work a bolt and have it travel nearly twice as far as a standard action, or to shoulder it offhand and suddenly feel 6 years old again, trying to hold up Dad's old Remington-Lee.

It's obvious that the workmanship

and materials of the Robar .50 are first rate. The action operates with smooth precision; the crisp trigger is equal to that of a custom sporter. Robar incorporates the accuracy techniques learned from benchrest competition. Actions are trued and squared, match-grade barrels are fitted square with the receiver face, and bolt lugs are lapped for full and even contact. Chambers are cut to match dimensions and muzzles are carefully hand-crowned. The barreled action is hand-bedded in a McMillan fiberglass/composite "Big Mac" stock using aluminum pillars and glass bedding.

Pulling the Trigger

Lighting off over 200 grains of powder and launching a 750-grain bullet is an experience neither to be missed, nor forgotten. Recoil is not a problem; the heavy weight of the rifle and the highly-efficient muzzle brake

take care of that. Recoil is to a large extent subjective, but I certainly found it no worse than a standard-weight .30-caliber magnum.

Recoil varies with bullet weight, velocity, powder charge and rifle weight, but a 25-pound .50-caliber rifle with typical loads has a recoil energy of about 120 ft.lb. Compare this to around 28 ft.lb. for a 9-pound .30-caliber magnum with typical loads. The fact that recoil of the big .50 felt no worse than that of a .30-caliber magnum indicates just how effective the muzzle brake is.

Report and muzzle blast are something else altogether. I wore both plugs and earmuffs, and each crashing report was impressive. Don't ever let anyone tell you a well-designed muzzle brake doesn't work. On one occasion I fired the .50 from a shooting bench; on the bench were a notepad and a big stack of .30-caliber barrel cleaning patches. At the first shot the backblast from the muzzle brake





Shane Leighton (left), shop foreman, and Tadd Hatch, general manager, examine fired cases for problems with chamber smoothness or extractor function.

blew the notepad off the bench and sent the cleaning patches fluttering in the air like confetti. It's tempting to reduce muzzle blast by removing the muzzle brake, but don't do it. I do know a couple of fellows who unscrewed the muzzle brake and tried a shot without it. Their advice is the same as mine: Leave the muzzle brake on!

Handloading the .50 is no different in principle from loading any other cartridge except that the components and tools are much larger. RCBS makes a single stage loading press and loading dies. Huge charges of slow-burning powders are the norm. Hodgdon's H-870 and H-5010 are popular choices. Powder charges can run from 200 to 225 grains.

Actual bullet diameter of match bullets is 0.510 inch. The 750-grain Hornady A-Max match bullet is a popular choice. Barnes makes two fine match bullets, both solids made from a copper/zinc alloy. The 750-grain Barnes bullet has a sectional density of 0.412 and a ballistic coefficient of 1.070. The 800-grain Barnes bullet has even more impressive numbers, a sectional density of 0.439 and a ballistic coefficient of 1.095.

Obviously the power and trajectory of this cartridge demands big open spaces to show its stuff. The FCSA can provide information on ranges at which .50-caliber rifles can be used. These big rifles are expensive, both to purchase and to shoot. If the challenge of shooting small groups at 100 and 200 yards has started to pall,





trying to shoot .5 MOA or better groups at 1,000 yards is a good way to renew enthusiasm. And it's good to know that the knowledge gained by competition shooters has been picked up by the military and police to enhance their effectiveness.

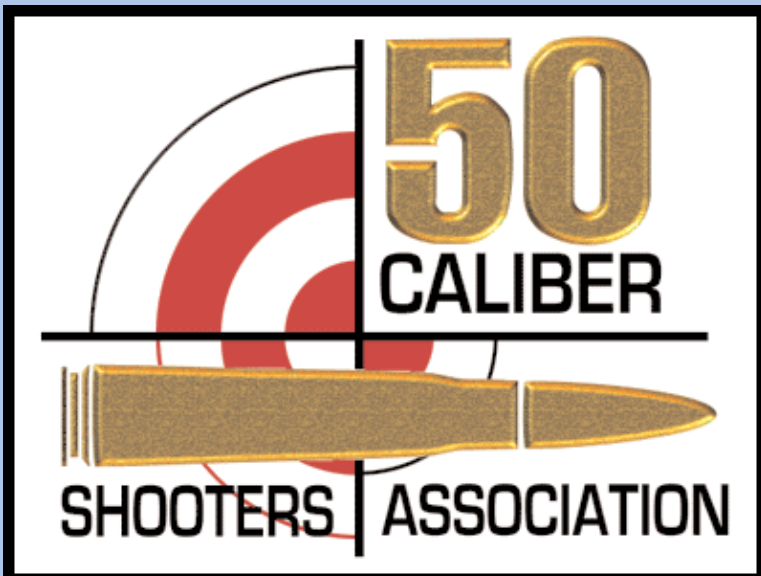
Robar makes a full line of custom handguns, shotguns and rifles. The quality of workmanship is invariably first rate. I've fired other Robar handguns and rifles and have always found them to be accurate, and, more importantly, absolutely reliable. Robar's other precision rifles are used by many military and police personnel.

The SR-90 was used by special-ops forces in operation Desert Storm and remains in use to the present. The general purpose QR2 is a compact, moderately lightweight rifle that still meets Robar's strict standards — .5 MOA or it doesn't leave the plant. The SR-60 is popular with many law enforcement agencies. Robar also makes match rifles chambered for the ballistically efficient 6.5-.284 cartridge which are used by military teams for long-range match shooting. Robar is an outstanding company, one that has earned unqualified respect in the firearms industry. They take great pride in their work, and in providing customers with the best products they can make. Their guns are made for shooters by shooters obsessed with quality and accuracy.



More Info

The Robar Companies
Phone [623] 581-2648,
fax [623] 581-0059
www.robarguns.com



The Fifty Caliber Shooters' Association

The FCSA was established in 1985 with the objective of advancing the sporting use of the .50 BMG cartridge. Members receive a quarterly magazine titled *Very High Power* with articles on .50-caliber rifles, ammunition, and match information. The FCSA sponsors several 1,000-yard competitions annually. Ranges which have facilities for 1,000-yard shooting are not common but some are available in both the east and the west. A popular venue is the NRA Whittington Center near Raton, N.M.

Though primarily devoted to exploring the accuracy limits of .50-caliber rifles and ammunition, much of the FCSA's efforts in recent years have been in opposing legislation that would make ownership and use of such equipment illegal. Anti-gun politicians and news media people have spread alarmist untruths about these "deadly long-range sniper weapons." Gosh, and last year it was small, easily concealable weapons that were the problem.

Most criminals are not interested in firearms that are 5 feet long, weigh 25 pounds, and with scope can easily cost \$7,000. And while they certainly can hit targets a mile away, so can many more conventional cartridges such as the big .30-caliber magnums.

The real reason for the attacks, of course, has nothing whatever to do with crime. These people hate all guns, right down to Winchester's lever actions and Purdey's shotguns. They are always looking for small, special-interest groups so that they can cut out gun rights one piece at a time. Even if you have no interest in owning or shooting a .50-caliber firearm, if you own guns at all you need to be ready to help defend the rights of those who do. We can either stand together, or fall one at a time.

FCSA members are proud that the research and development which they have done, simply because of challenge and interest in a sport, has led to improvements in the equipment used by the armed forces and law enforcement.

The FCSA cautions prospective members that this can be an expensive sport. Rifles can easily cost between \$3,000 and \$7,000, and top-quality scopes can add another \$1,000-1,500 to the bottom line. Loaded ammunition, brass, bullets, loading tools and dies are big, and likewise expensive. At 200 grains per charge or more, a pound of powder loads only about 30-35 rounds. It's not a sport for everyone, but it has a special appeal.

For information write FCSA, P.O. Box 111, Monroe, Utah, 84754. Phone [435] 527-9245. Fax [435] 527-0948.
The web site is www.fcsa.org.

From **Woodman**
to **Doughboy**,
the **Mason-Dixon**
to **Vietnam...**

A HISTORY OF AMERICAN SNIPING

By **Jim Gardner**

Photos Compiled By **Robert Bruce**

In past centuries, America was often referred to as “a nation of riflemen.” We won our independence from colonial oppression with rifle and musket. Our vision of manifest destiny enabled us to expand the western frontier, and in the process the rifle was the most valuable of tools. A skilled rifleman was admired as someone who could keep his family well fed, defend his homestead, and serve as an asset to his community. The role of the citizen soldier was held in high esteem. It was the solemn duty of each man to stand ready to defend not just his own family, but his community, his state and, if need be, his country. It is this deeply rooted appreciation of skill at arms that accounts for Americans having pioneered the concept and development of the sniper and his rifle.

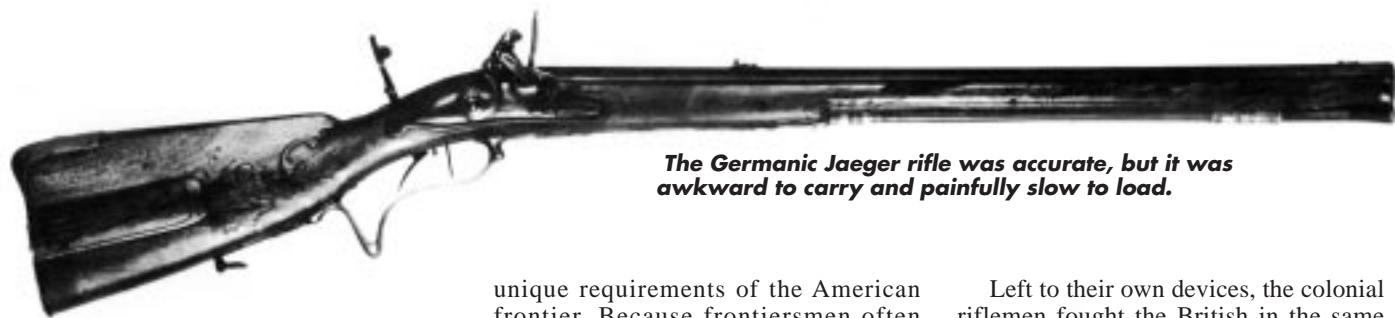
The evolution of the sniper cannot be discussed without looking at the concurrent development of the rifle. Rifling appears to have originated in Germany or Austria in the late 1400s. The



America still fields the most competent riflemen in the world. Lt. M. Dunaway, armed with Barrett M82A1 and Swarovski 10X scope.







The Germanic Jaeger rifle was accurate, but it was awkward to carry and painfully slow to load.

unique requirements of the American frontier. Because frontiersmen often hunted far from a point of supply, efficiency was a prime requirement. Bore sizes gradually decreased from .54-caliber or larger to as small as .40-caliber. Barrels were increased in length to both maximize use of smaller volumes of powder and to provide the longest possible sight radius for increased accuracy. Set triggers were common, and once cocked, the rear trigger could be fired with just a light touch on the front trigger. Despite their longer barrels, the American pattern rifles were lighter and handier than the German Jaegers while maintaining or exceeding accuracy levels.

It is a cultural myth that Americans defeated the British forces during the Revolutionary War because we were armed in large part with rifles. The dominant arm on both sides of the conflict was the smoothbore musket. The colonials were armed with a variety of smoothbores, notably the French .69-caliber Charleville. The standard for British troops was the .75-caliber, smoothbore "Brown Bess" musket.

Woodsmen Versus Kings

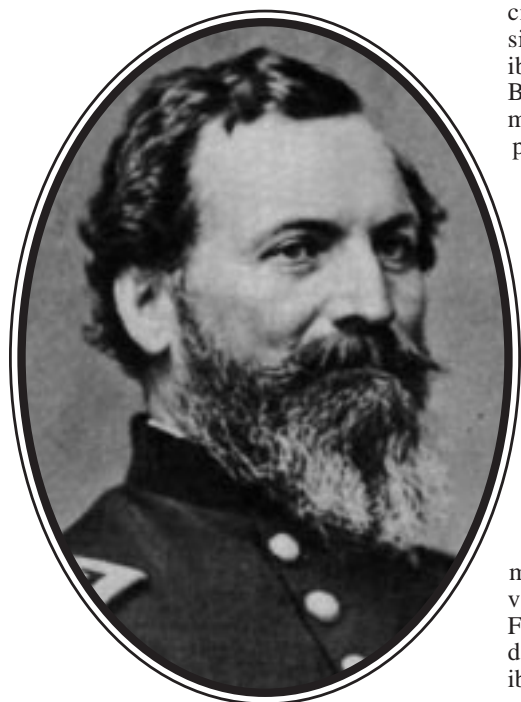
Rifles and rifleman did play a large part in securing our freedom; however, this was due more to the preferred tactics of the riflemen as learned by a lifetime on the frontier rather than the greater range and accuracy of the rifle itself. The common battlefield tactic of the time was an evolutionary remnant of medieval battle forms. Opposing forces generally met in open country and closed the distance in tight formation until within musket range of 80 to 100 yards. One or more massed volleys would be fired, and then the order to close and fight with bayonet would be given.

Under such circumstances, the rifleman was at a gross disadvantage. His arm was slower to load than the smoothbore musket and couldn't be readily fitted with a bayonet. For close fighting, most of the frontier riflemen employed the tomahawk. In fact, the word Tomahawk came to be used by many as a term for the backwoods riflemen of the Americas.

Left to their own devices, the colonial riflemen fought the British in the same way that they had learned to fight during the French and Indian War. They made maximum use of cover and concealment and fought in hit-and-run fashion. Nearly every American rifleman had grown up hunting to survive. Using the same skills they learned stalking and patiently waiting for game, these men were now hunting British troops, and with remarkable success.

Even when colonial forces were engaging in massed battle, wise commanders soon learned to make maximum use of the riflemen in their numbers — assigning them to specifically target British officers.

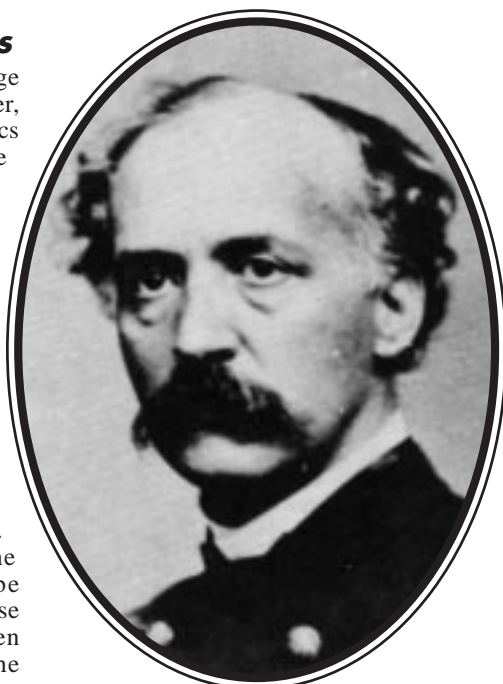
Mention of this practice was made in *The London Chronicle* when reports from the conflict related that the colonials were behaving in a most ungentlemanly fashion. They were using "...rifles particularly adapted to take off the officers of a whole line as it marches to attack... this is the real cause of so many of our brave officers falling. They being singled out by



Gen. John Sedgwick

original purpose for cutting grooves in a smoothbore barrel was not to improve accuracy but rather to permit greater ease of loading and to increase the number of shots that might be fired prior to wiping the bore. The grooves offered a place for the accumulation of heavy fouling of black powder while still permitting a projectile to be run down the barrel and seated on the powder charge. The first grooves were straight, but experimenters eventually found that a series of grooves cut in a spiral pattern had a beneficial effect on accuracy. Later developments of improved ignition systems combined to produce a rifle that was capable of significant accuracy levels over mid ranges.

An excellent example of this is the Jaeger rifle, brought over by German immigrants to the U.S. colonies. The Jaeger was a rifled hunting arm, relatively short, heavy, and usually of quite large caliber. Colonial gunsmiths adapted the good elements of the Jaeger design to the



Col. Hiram Berdan

these murderers, as they must appear to be in the eyes of every thinking man."

Thus it can be seen that the idea of designated marksmen, assigned to observe and destroy high-value targets on the battlefield, was well in place at the inception of the U.S. army. Even today, this is essentially the definition of the sniper.

How accurate was the rifleman of the Revolution? Period accounts give a good example: "A party of these men at a late review on a quick advance, placed their balls in poles of 7-inches diameter, fixed for that purpose, at the distance of 250 yards," (*Pennsylvania Gazette*, August 5, 1775).

"Several companies of riflemen... have arrived here from Philadelphia and Maryland... these men are remarkable for the accuracy of their aim; striking a mark with great certainty at 200 yards distance," *Military Journal During The Revolutionary War* (second edition, 1827).

While such feats of accuracy may seem uninspiring today, it must be remembered that the smoothbore muskets used by both British and American forces were not effective on point targets much past 75 yards. The American Major George Hanger, in speaking of the accuracy of the common smoothbore, said, "A soldier's musket, if not exceedingly ill-bored... will strike the figure of a man at eighty yards; it may even at 100; but a soldier must be very unfortunate indeed who shall be wounded... at 150 yards, provided his antagonist aims at him..."

Arms development continued in America after the revolution. Many of the most significant firearms developments of the early 19th century came from abroad, such as the Scottish minister Alexander Forsyth's "scent bottle lock," which by about 1820 developed into the perfected percussion-cap ignition system; and French Capt. Minie who developed the undersized, hollow-based

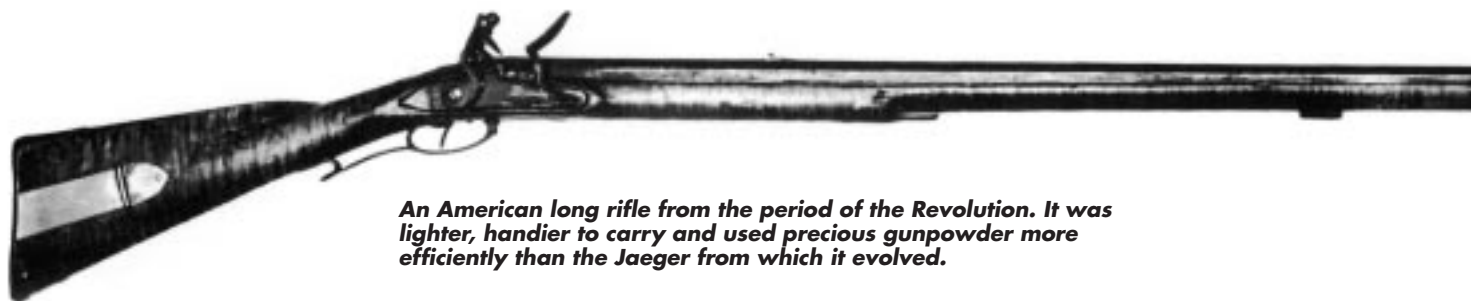
projectile that bears his name. It was Minie's fast-loading, accurate projectile that finally made the rifle suitable for issue to regular troops.

In America, Eli Whitney pioneered the production of firearms with truly interchangeable parts. This greatly sped up arms production and made it feasible to issue arms that were readily repairable in the field. By 1860, American experimenters had developed a large variety of breech loading and even repeating rifles. Some were laughably crude, while others were rugged, accurate, and offered a genuine tactical advantage.

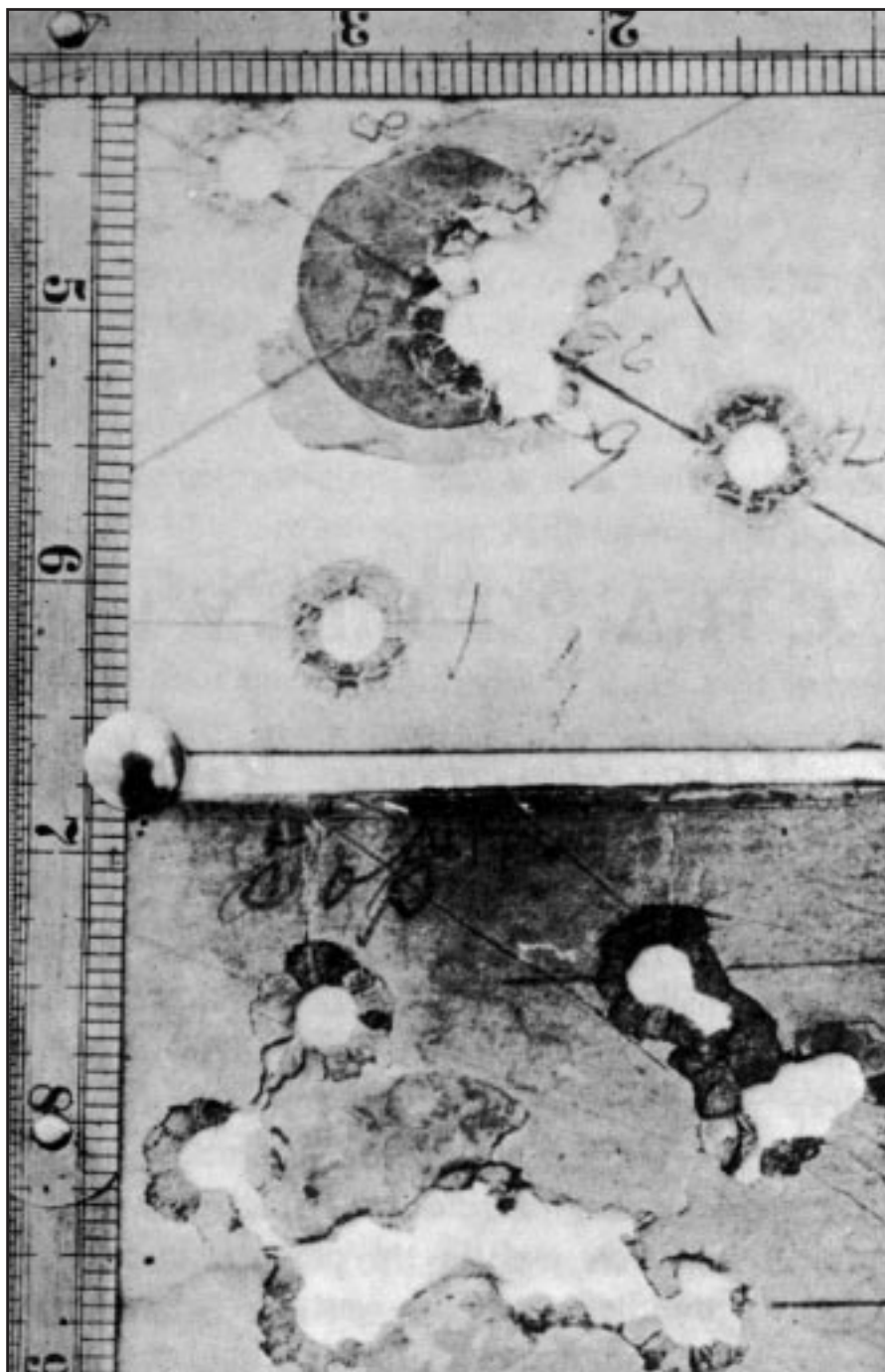
The percussion service rifle of the 1860s was generally of about .58-caliber. It used a percussion lock that gave fast reliable ignition even in foul weather. Using paper cartridges, it could be loaded at a rate of about two shots per minute; although muzzle loaded, it was particularly difficult and slow to load from the prone position. Effective range in good



Truman Head, better known as "California Joe," was one of Berdan's most capable Sharpshooters.



An American long rifle from the period of the Revolution. It was lighter, handier to carry and used precious gunpowder more efficiently than the Jaeger from which it evolved.



How accurate was a heavy bench rifle as used by both sides during the Civil War? These groups were fired at 220 yards.

hands was at least 200 yards.

Brother Fights Brother

The outbreak of hostilities in 1861 caused military leaders on both sides of the Mason-Dixon line to take a fresh appraisal of the capabilities of their adversaries. Although it was obvious from the outset that the northern states had vastly greater industrial capacity that would give it a decisive edge if the struggle proved to be of long duration, there were rumblings of concern in the Union. It was rightly perceived that the average southerner could out-ride, and much more importantly, out-shoot his northern equivalent. A more rural lifestyle meant that most southern young men had grown up with rifle in hand, and most took great pride in their shooting prowess.

To combat this perceived weakness, Hiram Berdan of New York, an avid target shooter, sought and was granted permission to raise a unit of designated marksmen. Shooting trials commenced immediately, and successful applicants were required to place 10 consecutive shots into a 10-inch bull at 200 yards from rest. A large number of those who sought to join with Berdan were dedicated target shooters, and many of these brought with them heavy bench rifles. Weighing as much as 30 pounds, and often equipped with long, high-magnification telescope sights, these rifles were the most advanced and capable long-range rifles of their time. Although these rifles were ill-suited to the rigors of field use, Berdan recognized the performance that they offered and promised a Government reimbursement of \$60 for every man who would contribute the use of his prized heavy rifle to the conflict.

Berdan showed the worth of these specialized rifles in a demonstration before Abraham Lincoln and top Union officers. He placed five shots into a target at the impressive distance of 600 yards. The resulting group when measured ran less than 10 inches. His shooting throughout the day was impressive. At one point during the competition, Berdan began



shooting at a crude caricature of Jefferson Davis. When sarcastically called upon to place his bullet in the right eye of the Davis image, Berdan obligingly shifted his aim to that area. When the target was retrieved, the ball was found to have pierced the right eye of the target. It is said that the President chuckled repeatedly throughout the balance of the afternoon as he recalled Col. Berdan's stroke of good luck.

Having taken great pains in qualifying and assembling a force of extremely fine marksmen, Berdan intended to arm them with equally fine rifles. He submitted a request for the Sharps 1859 breechloader. His request was that they be delivered with set triggers and fitted with optical sights. Due to the reluctance of the Army Chief of Ordnance and the shortage of the Sharps rifles, Berdan's men were originally armed with the Colt revolving rifle. It was universally disdained and soon replaced with the Sharps rifle; it was not, however, as specialized a model as Berdan had requested.

The Sharps was a paper cartridge breech loader of roughly .52-caliber. Its sights were regulated for a maximum of 1,000 yards, but there exist documented reports of Berdan's men affixing hand-carved wooden extensions to the sights of their rifles and denying confederate forces the use of a signal tower from an estimated range of 1,500 yards.

The exploits of Col. Berdan's "Sharpshooters," as they became known, were eagerly reported in the northern papers. One account heralded the actions of George Chase. Chase succeeded in "capturing" a rebel cannon by the skillful use



Berdan's Sharpshooters practicing, from Leslie's, October 5th, 1861.

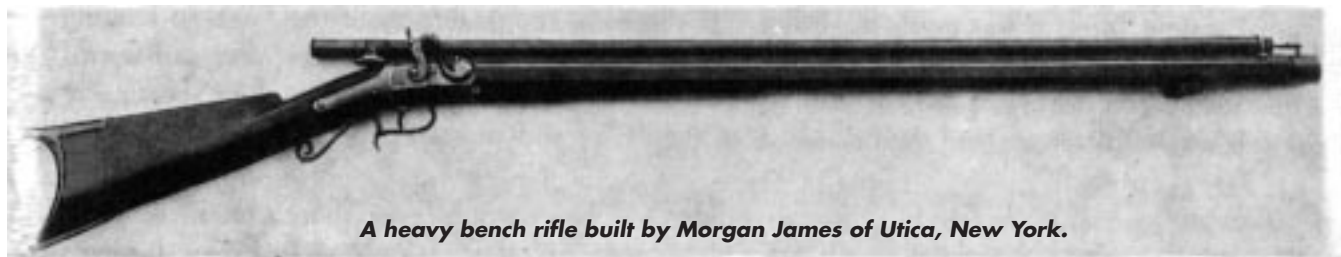
of his heavy bench rifle. From several hundred yards out, Chase targeted the gunners to prevent the cannon from being reloaded. For two long days, despite the valiant efforts of the artillery men, Chase kept the big gun silent.

The Confederates also fielded men who were first class marksmen and who brought their personal target rifles with them. One such unknown rebel sniper accounted for the death of Union General

John Sedgwick at Spottsylvania in 1864.

When the men under Sedgwick's command came under long-range rifle fire, Sedgwick derided the threat. Noting the distant ridge from which the fire was coming, Sedgwick sought to rally his troops:

"What! what! men, dodging this way for single bullets! What will you do when they open fire along the whole line? I am ashamed of you. They couldn't hit an ele-



A heavy bench rifle built by Morgan James of Utica, New York.



Capt. H.W. McBride

phant at this distance,” Sedgwick said. And history records that he had only just finished speaking when he was felled by a bullet to the head.

The Civil War was a milestone in the history of sniping. It saw the widespread formation of specialized sniping units, and also saw the inception of the first truly practical breech-loading rifles.

“Over There,” Part I

Long before America officially entered into “the war to end all wars,” the recurring newspaper headlines and a lust for adventure caused many Americans to cross the border into Canada and enlist there for service on the continent. One such individual was Herbert W. McBride. A captain in the Indiana National Guard, McBride wasn’t an idealistic youth with dreams of glory. Not one to miss out on the opportunity to see a good scrap, he resigned his rank, and after some misadventures, managed in 1914 to enlist as a private in the 21st Battalion that was soon bound for Europe.

McBride was assigned to a machine gun section. As a dedicated rifleman, he found this post acceptable because the gun-crews were issued Canadian Ross rifles. When his duties permitted, he took every opportunity to observe and participate in long-range rifle shooting. He describes one incident in which a group of specially equipped riflemen engaged in a bit of highly ineffective shooting from his area: “They handed me a rifle... and told me to take a crack at something

within the German lines about 1,200 yards away.... I held on one of the demolished brick buildings, just to get the hang of the thing, and touched off. The shot brought forth much congratulation and applause from my onlookers, I had actually ‘hit the side of a house.’”

McBride was not impressed with the usefulness of these snipers, but it made him aware that there was specialized equipment that could be requisitioned. With his years of competitive shooting experience, McBride had no trouble obtaining a kit consisting of a Ross rifle, which was specially tuned and fitted with a Warner and Swasey prismatic telescope sight, as well as an excellent spotting scope for observation. Being an experienced rifle shot and experimenter, McBride need no incentive to practice his art with the new equipment, but it came anyway in the form of seeing squad mates and unarmed stretcher bearers shot from considerable distance by a German sniper. McBride vowed that a suitable tally of Germans would pay the price for these events.

McBride’s book *A Rifleman Went To War* was published in 1935. It became a textbook of the sniper’s craft, and even today is considered required reading. Topics such as choosing and building a prepared hide for the sniper, scouting and patrolling, avoiding counter snipers, reducing the signature of the shot, and the sniper and observer as a team are as applicable today as they were then.

McBride avoids extensive descriptions of his own score with the rifle but does include a few short excerpts from



his log book:

December 1st. Hazy — near leaning tree. One shot 750. Fell and they pulled him in. Two shots at helpers — got one.

December 2nd to 4th. Rain. No Good.

December 6th. North of leaning tree, crouching, cutting wood. One shot. Got him.

December 7th. Bright and clear. Fresh S.W. wind. Twice men showed themselves. Three shots, sure of one. 50 yards right, one man — one shot. R of 02 our artillery blew down M.G. emplacement showing open end of covered trench. Men trying to get out — four shots — two known hits. Thirty yards left, one man, one shot.

McBride’s log book shows the methodical entries of an experienced and determined rifleman who was dedicated to making good his vow to avenge his lost comrades by personally accounting for “fifty file” of Germans.

World War I would introduce items of equipment into the snipers kit that are with us today. In 1916, when the British formed their first official sniper unit, they made extensive use of expe-



Near Badonvillier, France, May of 1918. Two Yanks complete with “sniper robes” show off their M1903 Springfield.



rienced Scottish game keepers or ghillies. These men were extremely skillful at stalking and concealment. They taught the Brits, and later the Americans, how to use a burlap robe sewn with raveled strips of differently shaded burlap. These suits came to be known as ghillie suits and are still the standard for effective camouflage.

One of the constant criticisms of the American military is that it tends to forget the hard-won lessons of combat almost as soon as the armistice papers are signed. While this may not be completely true, it is the case that despite the well-documented performance of the sniper in World War I, little was done in the development of advanced equipment for the sniper between wars. What development there was came mostly at the insistence of the service rifle teams.

"Over There," Part II

When the smoke from the Pearl Harbor attack cleared, the United States found itself with a fair number of M1903 Springfield rifles fitted with a variety of outmoded telescopes left over from World War I, and a much smaller number of carefully tuned M1903 match rifles fitted with an 8X target telescope manufactured by the John Unertl Co.

These latter rifles, the so called M1903A1 Marine Sniper rifle, were without a doubt the most capable rifles fielded during the war. The rifles themselves were subject to an exacting inspection: Barrels were air-gauged to check internal dimensions, and those found suitable were stamped with a small star at the muzzle; they were carefully bedded, the triggers were tuned, and mounting blocks for the Unertl scope were installed; the externally adjusted scope incorporated 1/4-minute click windage and elevation increments into its quick detachable mounts; the long target telescope was ill suited to the rough handling that could occur on the battlefield. If carefully maintained and skillfully used, the M1903A1 was an awesomely effective combination. So much so that despite later develop-

ments in issue sniper systems, the M1903A1 Marine Sniper rifle was employed as late as the Vietnam Conflict.

The scale of the conflict made it obvious that the virtually hand built M1903/Unertl combination could not be

produced in sufficient quantity to meet wartime needs. Production sniper systems were developed and evaluated, which resulted in the M1903A4 Springfield and the M1C and M1D sniper rifles.

The M1903A4 was the same rifle as



Warner and Swasey Prismatic telescope mounted on M1903 Springfield. Private Leo Hahn, pictured, is said to have silenced two German snipers in two days.



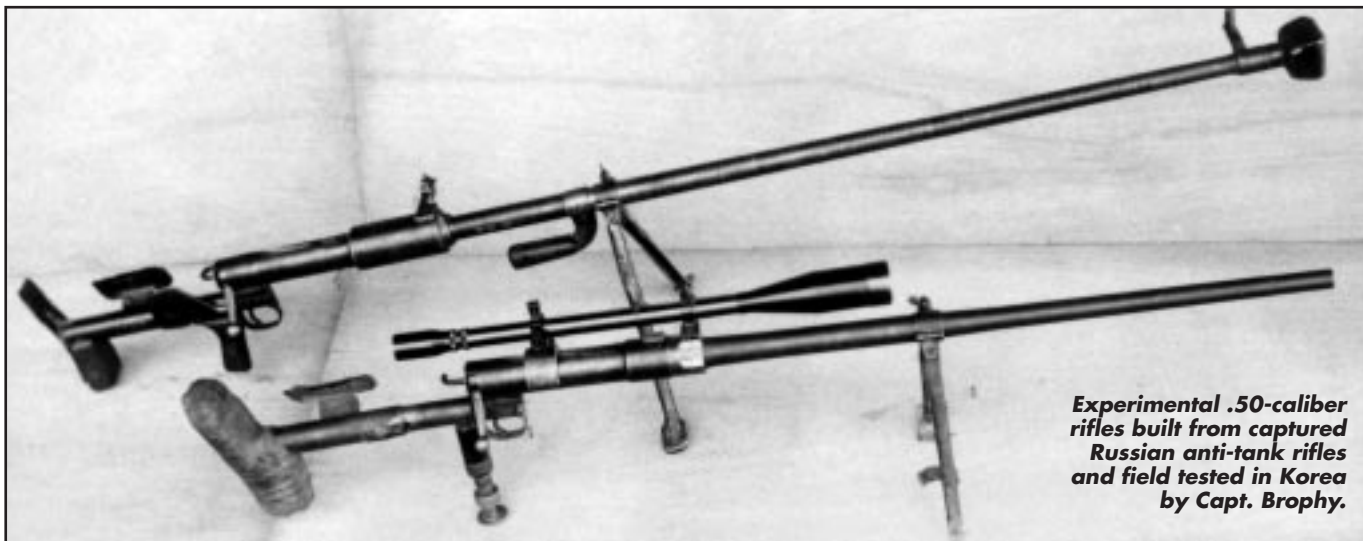
Sniper rifles fitted with optical sights. Even the rugged M1903-A4 required constant maintenance.

the M1903A3 — a simplified Springfield modified to speed war-time production but fitted with a 2.5X Weaver telescope, and later with the 2.2X M84 scope. The M1C was a Garand rifle modified by the addition of a Griffin and Howe side mount. A variety of telescopes were used, depending upon availability, but all were of low magnification. The side mount was essential with the Garand to permit top loading of the eight round enbloc clip. The M1C design was refined and modified for regular production as the M1D.

The M1D incorporated a special base that was permanently mounted directly onto the barrel. With no screws to loosen, it answered questions about the durability of the Griffin and Howe mount. Rifle scopes for the M1D were the same as those for the M1903A4 and M1C, until the standardization of the M84 scope. The latter was largely similar to the “hot setup” in civilian riflescopes of the time, the Lyman Alaskan. It featured a tapered post reticle, rubber eye cup, sliding extension for the objective lens, and easy-to-adjust elevation and windage dials pro-



February, 1945, near Hanenburg, France. A G.I. sights in his M1903-A4. The telescope is a Weaver M73B1.



Experimental .50-caliber rifles built from captured Russian anti-tank rifles and field tested in Korea by Capt. Brophy.

tested by spring-loaded covers. At a magnification of only 2.2X, the M84 would not be willingly selected by any competent sniper today, but they were simpler and more rugged than the Unertl target scopes.

These production sniper rifles were not capable of the accuracy that the M1903A1 Marine Sniper rifles were, but they were satisfactory, rugged, and, best of all, available in sufficient quantity to meet the desperate war time need for snipers and sniper rifles.

Not all sniper equipment in the field was Government Issue.

Like McBride, Major J.B. George was a life-long rifleman and competitive shooter when the call to action came. The privileges of rank made it possible for him to take into the field one of his lovingly

tuned '03 Springfields equipped with a Lyman Alaskan telescope. George carefully preserved his Springfield from the rigors of the island campaigns of the Pacific and made every effort to put it to use frequently. In that thick jungle, "sniping" often meant finding and silencing an almost invisible target at quite close range.

In his book *Shots Fired In Anger*, George described one incident in which he nearly came out second best: "The bullet passed so close to my left ear that I felt a sharp pain, and the snap of the bullet was louder than

struck from behind with a sledge hammer."

The First "Police Action"

The Korean conflict saw the exact same equipment and even some of the same marksmen thrust back into duty. Some new equipment was fielded, such as the first effective night vision sighting devices. Perhaps the most significant devel-

opment was the experimental use of caliber .50 BMG rifles as extreme long-range sniping equipment.

Once again, it was experienced and dedicated competitive shooters who sought to push the limit of what could be achieved in precision long-range rifle fire. Two such men, Frank Conway and William Brophy, built experimental .50 BMG rifles using captured anti-tank rifles as a base. Their crude equipment was clumsy and punishing to shoot, but trials in the field showed clearly that such "super-sniper" rifles could be effective on point targets and equipment from distances as far as 2,000 yards.

Vietnam

In many ways Vietnam was a sniper's war. The U.S. military found itself fighting an enemy far different than it had engaged in World War II and Korea. The tactics of those conflicts proved all but useless when confronted with an enemy that was frequently indistinguishable from the civilian population. Snipers served in a new role in this conflict. Infiltrating into areas outside of U.S. control, sniper teams could interdict the movement of enemy per-

any such sound I had heard in combat or on the range.... He (the Japanese soldier who had just fired on him) towered in the field of the scope, visible to the third shirt button, the sweat of excitement and exertion showing on his face and khaki shirt... I set the picket post on his chest, fired, and saw him lurch forward as though

Capt. W.S. Brophy demonstrates the target-sighted Winchester M70 that he recommended for sniper use in Korea.

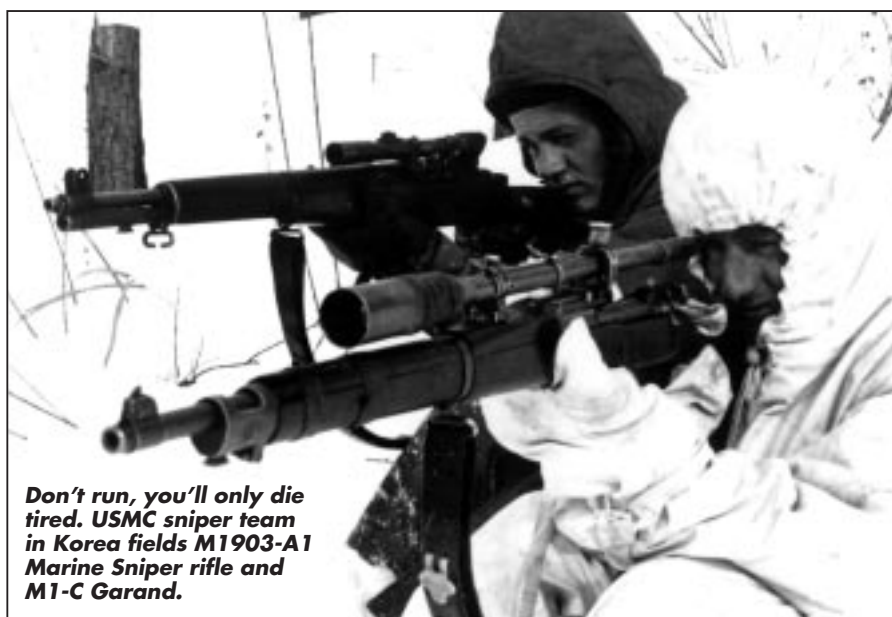


sonnel and supplies. While there were never a sufficient number of sniper teams to stop such movement, their presence denied "Charley" the peace of mind to move freely through his home territory. These efforts were made more effective by the deployment of highly effective and passive night-sighting and observation equipment, and specialized, suppressed sniper-rifles.

World War II-era M1Ds, and M1903A1 and A4 rifles were utilized in Vietnam, but by the late 1960s the rifle of choice was a commercial sporting rifle with medium heavy barrel — either a Winchester M70 or Remington M700. Preferred calibers were 7.62x51mm or .30-'06. Accurized and telescope sighted M14 match rifles saw widespread use and



The Korean conflict saw the introduction of active nightvision sighting systems.



Don't run, you'll only die tired. USMC sniper team in Korea fields M1903-A1 Marine Sniper rifle and M1-C Garand.

were favored by some due to their capacity for quick follow up shots. Many varieties of experimental rifles were fielded, including a suppressed Winchester bolt-action chambered in a specialized .458 sub-sonic cartridge.

There are many references that deal with the history of snipers in Vietnam. All of those who risked their lives in this perilous activity should be honored, but one name stands out from among them.

Carlos Hathcock grew up in the Arkansas woods. Like most who later proved themselves as superior snipers, Hathcock spent most of his youthful days prowling the woodlands with rifle or shotgun in hand. Enlistment in the Marine Corps gave him the opportunity to develop his prowess with the rifle. Hathcock was a fiercely determined rifle competitor, and the highlight of his competitive shooting career came when he won the coveted Wimbledon Cup in 1965. The Wimbledon is the holy grail of rifle shooting; it is a 1,000 yard match where merely knowing how to shoot well will not suffice. A successful competitor must have an innate understanding of the effects of wind and mirage, and of temperature and humidity on the flight of his bullet. Hathcock bested a field of 2,600 competitors to take this honor.

After arriving in Vietnam and serving a brief stint as an M.P., Hathcock was assigned duty with a newly formed sniper school under the direction of Capt. E. J. Land. Hathcock and Land were not strangers. They had shot competitively together, and Land had succeeded in instituting a scout-sniper school in Hawaii, from which Hathcock had graduated in 1961. Together they sought to validate the concept of the sniper-observer team and to demonstrate the value of such teams in fighting the unconventional warfare that faced the Marine corps in Vietnam. Hathcock's weapon was a Win-



chester M70, caliber .30-'06, fitted with an 8X Unertl telescope.

Several books have been written chronicling the exploits of Hathcock in Vietnam. The most widely distributed of these is Charles Henderson's *Marine Sniper* (Berkely books, 1986). The entire book is a must read, but perhaps the most dramatic story relates a mission to infiltrate far behind enemy lines and to eliminate an NVA general. Hathcock endured three days and nights of tortuously slow movement across 1,200 yards of open ground in order to get within sure rifle range. This open area was over-watched by heavy machinegun emplacements as well as being regularly patrolled. Hathcock related that on several occasions enemy patrols nearly stumbled over him. Tortured by thirst, hunger and tormented by countless insect bites, Hathcock at last took position some 700 yards from his target and adjacent to a shallow gully that he planned to

use as his means of escaping to the protective cover of the tree line.

Hathcock was in shooting position and ready at daybreak. He had been three days without any meaningful amount of sleep. He had consumed only a tiny amount of food and little water. His body ached from being dragged by fractions of an inch over the rough ground. There would be no second chances, no sighting shots or shooting line "alibis." Everything came down to this one moment.

At the shot, the NVA General crumpled to the ground. Hathcock began making his way to the tree line. His pace was many times faster than what it had been on the way in, and yet it still took him five hours of crawling in the dust to reach the relative safety of the tree line.

Hathcock's feat is an example of the highest form of the sniper's skill. It took far more than mere shooting skill to accomplish his objective.



Carlos Hathcock

Sniping rifles and related equipment has continued to evolve since the Vietnam conflict. Regardless of improvement in hardware, it is the lone rifleman — who pits his skill, experience and willingness to endure hardship and risk — who will always be the determining factor in the effectiveness of sniping on the battlefield. America may no longer be spoken of as a nation of riflemen, but she still fields the finest riflemen in the world. Citizen soldiers — who like those Americans who have gone before — are willing to serve when called upon, and who have the skill and the mettle to meet the challenge when success requires one clean shot.



M1-D Garand being checked for zero by ARVN rifleman.



Valhalla

—Colonel Cooper's



Jeff Cooper discusses a fine point of technique. Longtime Gunsite instructor Ed Head is beside him.

It's difficult to believe, but it has been nearly 13 years since I first attended Gunsite. Gunsite is well known to most serious shooters. It was, and I feel it remains, the finest shooting school in the country, if not the world. Founded by retired Marine Colonel Jeff Cooper, the mission of Gunsite has always been to teach serious students the skills necessary to stay alive in a perilous world. Gunsite offers instruction to military, law enforcement, and civilian students. Like most, my first encounter with Gunsite was through the API 250 class. That long-ago class was a thrilling experience, made even more so by the beautiful countryside of Chino Valley, Arizona, where Gunsite is located.

Gunsite suffered through a period of changing ownership, but is now in the



Fast bolt work is stressed during the course. This shooter, firing from "post rest," runs the bolt without breaking his position.

Revisited

Rifle Course—

By Tom Ozbirn

capable hands of Owen "Buzz" Mills. Mills has brought a new spark to the facility, and Jeff Copper, who was for a time absent from the classroom and firing ranges, is now teaching again on a limited basis. To an old Gunsite grad, this was great news, and I made haste to sign up for the Master Series Rifle Course. This is a six-day course taught by Colonel Cooper, who selects only the best-of-the-best instructors to teach alongside him.

Our class began with Range Operations Manager Bob Young addressing our class of 17 students. We were introduced to Loius Awerbuck, our primary instructor, and the rest of the staff — Ed Head, Rich Wyatt and Tom Russel. All are superior instructors, but it was a special treat to learn that Awerbuck was to fill the role of primary



Shooting is fast paced in the field courses. This shooter has just slid into position and is making the most of a stable rest prior to taking a shot.

instructor. I knew full well what skills he brought to the class, as he had been the primary instructor for my original Gunsite 250 class, and I had taken additional instruction with him during the years since then. In short order Colonel Cooper arrived, wished us a good morning, and inquired as to what types of rifles we would use.

Cooper's influence was obvious here, as 14 of us, including myself, brought Steyr Scouts. Two others possessed Scout rifles based on Winchester Model 70 actions. All of the Scouts were .308 Winchester caliber. One student, Vic Kovacevic, brought two rifles, a Winchester Model 94 and an M1 Garand.

The Scout rifle is essentially a creation of Col. Cooper's, who has long promoted it as the single best general-purpose rifle. Cooper's guidelines for a Scout specify, "a length limit of one meter and a weight limit of 3 kilos." Perhaps the most distinguishing feature of a Scout is the forward-mounted telescope. This offers a number of advantages, including fast loading due to the unobstructed action, very fast target acquisition, and easy carrying at the rifle's point of balance.

Colonel Cooper posed this question to the class.

"Why does a person want to learn to shoot a rifle?"

I thought of the many reasons and all are good: To hunt, to defend one's country, to shoot competitively, or, perhaps best of all, because it's fun.

"Anyone can learn to shoot a rifle," Cooper said. "What you need is the desire to learn. You have to want it."

The Master series rifle class is a com-



Notice that this shooter does not permit his rifle to rest directly on the hard surface of this tree. To do so would certainly change the point of impact.

prehensive course, covering everything from safety to long-range shooting. But before you can begin to shoot effectively, you must be absolutely confident in your rifle's zero. Our initial range time was spent sighting our rifles at 200 meters. Most students with Steyr Scouts opted to use the integral bipod. Everyone else shot prone using a sling. Use of the sling is constantly stressed. Cooper believes that the use of the shooting sling increases the ability to hit by approximately 35 percent.

All the bolt-gun shooters used "Ching

Slings," which are speed slings that enable a shooter to sling up and get into a properly-supported firing position in about 1.5 seconds — with practice of course. And all standard shooting positions are taught: prone, sitting, kneeling, military squat, also known as "rice paddy prone," and offhand, with the goal of learning to rapidly assume the best position for the marksmanship problem at hand.

But after practicing position shooting at 100 yards, some of us found our groups not as small as expected.

"You have to leave your focus at the rifle, not the target," Awerbuck explained. "Follow through and call your shot."

"It's just like shooting the pistol but the reticle becomes your front sight," Awerbuck added. "Focus on the reticle and get a surprise break."

"Eyes! Muzzle! Target!"

Gunsite also stresses snap shooting, which is maximum speed shooting at short range targets from the offhand position. The shooter starts in the standard ready position, butt of the rifle on the belt, finger straight, eyes looking over the muzzle at the target. On signal the shooter raises the rifle to the shoulder, centers the crosshair, and presses the trigger.

Always, after the shot, we worked the bolt, and quick bolt work is another skill stressed at Gunsite. The Steyr Scout has a modified butter-knife shaped bolt-handle and a strong striker spring. Because of this, I found it necessary to modify my normal bolt technique.

The preferred method for the Steyr Scout is as follows: Instead of grabbing the bolt

Offhand shooting is the most difficult to master and must be practiced repeatedly.



handle with thumb and forefinger, leave your thumb alongside the stock. Now close all four fingers and lift the bolt with the knuckle of the forefinger. Once the bolt has been lifted, you can retract and close the bolt in a normal manner. With constant practice, this became a fast and sure technique.

One of our goals at the end of the week was to make 25-yard headshots and 50-yard body shots in 1.5 seconds from the standard ready position. And though snap shooting is a valuable skill, during one of the classroom sessions Cooper told us the basic principal of the field marksman.

"If you can get closer, get closer. If you can get steadier, get steadier," he said.

I found this rule easy to apply during the runs through the outdoor simulators. The simulators, named "Veli" and "X Range," consist of arroyos and open areas with reactive steel targets at unknown ranges and locations. The student starts at the beginning of the course followed by an instructor. It's the student's job to walk the course, find the target, and hit it on the first shot from the best shooting position. Simple enough, right?

Oh, I almost forgot, you are expected to do this very quickly. Take too long and the instructor will tell you to move on and try to find the next target. I must say this is one of the best parts of the course — really fun. And the Scout rifle really shined as I ran it through these practical exercises.

One of the nicest features of the Steyr Scout is the spare magazine in the butt of the rifle, and we were taught to do a tactical magazine exchange as taught at Gunsite's pistol classes. This readily accessible spare magazine comes in handy when you are running a course that requires more than five or six rounds.



Cooper surveys the firing line as the post rest position is practiced.

Speaking of carrying a spare magazine, noted leathersmith Gordon Davis, of Davis Leather Co., stopped by and dropped off a nifty magazine carrier for evaluation. It holds a spare Scout magazine on your belt for a quick magazine change, if needed. As with all of the Davis leather gear that I have used for many years, this is a well-thought-out and flawlessly crafted piece of equipment.

Precision Action

I knew from talking with others who had attended Gunsite's rifle classes that part of the course included shooting clay birds thrown from trap machines. What I

never knew was how much fun it could be. There's nothing like putting your crosshairs on a clay bird and watching it turn to dust when you press the trigger. It is a real confidence booster.

Precision shooting at longer distances also constituted a good portion of Gunsite's course. We shot out to distances of 400 yards, and most of us found that we could make pretty consistent hits on pepper poppers at that distance.

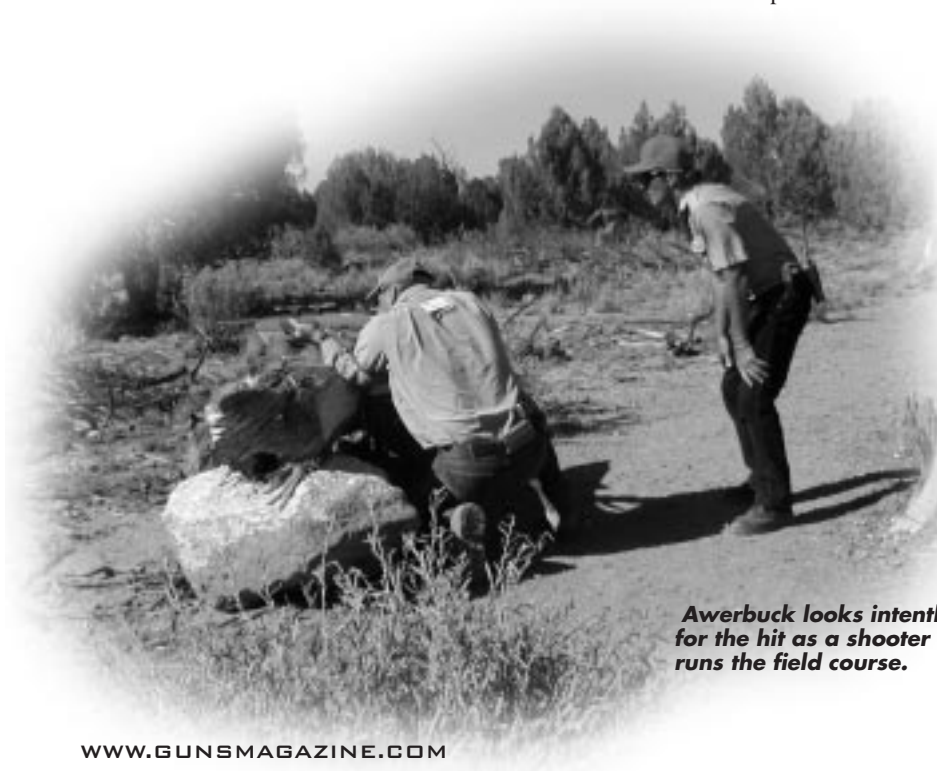
The last day of the course is graduation day. This is when you find out just how much you've retained from the past five days. We shot the school drills for score, and snap shot at 25 and 50 yards. We shot paper "option" targets at 100, 200 and 300 yards.

Next we shot the Rifle Bounce. In this drill, the shooter engages three pepper poppers: one each positioned at 100, 200 and 300 yards. The 100-yard target is shot from the offhand position. The 200 and 300 yard targets are then shot from any other position the shooter chooses. The shooter must move horizontally to a new firing position after hitting each target. The drill must be shot in a maximum of six rounds, and the instructors score the targets.

Next comes time for the shoot off. The shoot-off consists of two pepper-poppers positioned at approximately 75 yards and two others at 200 yards. This is a man-on-man competition. The shooters start in the standard ready position, finger straight, safety on, rifle butt on belt.

"Eyes! Muzzle! Target!"

On the command to fire, the shooters engage the close target from the offhand position. The 200-yard target can be shot from any position. Most shooters elected to shoot



Awerbuck looks intently for the hit as a shooter runs the field course.



the far target from prone, using the shooting sling or the bipod of the Steyr Scout.

Again, it may seem simple. And of course it should be simple. But the famous Gunsite pressure is the deciding factor. Under the cool blue eyes of the Colonel, *everyone* desperately wants to come out on top. Pay attention to what you have learned — focus on the reticle not the target, wait for that crisp surprise trigger break — and you've got a shot at it. Forget what you've learned, rush the shot, or let yourself think about your opponent, and you're sure to cinch last place.

Brownies & Guns

Afterwards we collectively returned to the classroom for the last time. Cooper told everyone that he was pleased with the performance of the class. He explained the different levels of certificates and then called out each student by name. Upon being called, each student walked to the front of the classroom, where the Colonel gave us our certificate and shook our hand.

At the conclusion of the class, Janelle, Jeff's lovely and gracious wife, invited all interested students to visit the Cooper's home, "The Sconce." When we arrived, we feasted on her wonderful homemade brownies, munchies, lemonade and more. We walked downstairs to the *sanctum sanctorum*, the Colonel's gun room, to discuss rifles, hunting, ammunition and any other worthy subject. Just as it had been 13 years ago, it was a heady atmosphere, and a moment to be treasured. Truly, Valhalla does exit.

As it was getting late, most of us became aware of our long drives home. We reluctantly said our farewells and the room began

to empty. I found myself alone with the Colonel. I thanked him for spending the week with us. I know it's not easy for him. Cooper is 80 years old, and teaches because of his desire to impart the knowledge he's gained from many years of experience.

I may have been a competent rifleman prior to attending the class. However, I learned a lot and gained an attitude of extreme confidence in my rifle skills. In Cooper's book, *The Art of The Rifle*, he quotes his daughter Parry after she won a rifle match in California.

"I don't know what the fuss is about, Daddy," Parry said. "If I can see it I can hit it."

That's how I feel now when I pick up my rifle. If I can see it, I can hit it — thanks Colonel.



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Stick 'Em Good

BY JAMES WILLIAMS

THE ESSENTIAL ELEMENTS OF CLOSE-QUARTER EDGED-WEAPON COMBAT ARE INVALUABLE SELF-DEFENSE SKILLS.

At Strategic Solutions and Surefire Institute we push the performance envelope of close quarter battle by integrating the ancient samurai's tactics and techniques into the modern environment. The scope and sophistication of this strategy and technique is unprecedented in the modern world. The ancient warrior lived in a lethal force engagement environment from a young age.

For samurai youth, their training started at 5 years, 5 months, and 5 days. From that day forward, military training and combat were the prime directives. Due to the continuity of their training systems, often extending over centuries, the samurai's skill and performance levels were nothing short of phenomenal when compared to today's standards. Since the problems facing warriors have changed very little during the past several millennia, the lessons of



AI) Assailant gains control of the weapon. Relax your right arm so that the weapon cannot be pried from your grasp. Relax your body and allow the assailant to feel that he has control of the weapon. Getting tense and fighting him for control of the weapon at this point jeopardizes your chance for success in this engagement.

AII) Release your left arm and deploy your knife. Staying relaxed prevents the assailant from compromising your balance. Do not pull away from the assailant; putting some pressure forward will help keep him slightly off balance and facilitate your action. If he pulls, just move with him while keeping your posture.

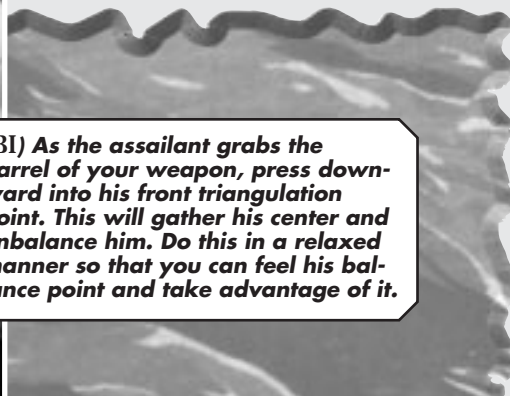


AIII) Because the knife was drawn with the left hand, the edge is facing your forearm. Insert the point into the neck area in front of the caratoid/juglar. After the knife is fully inserted, the assailant may be taken to the ground by relaxing your scapula and dropping your elbow into the rear triangulation point. This movement will also facilitate maximum tissue deformity. Continue to control the adversary until the engagement has been resolved.





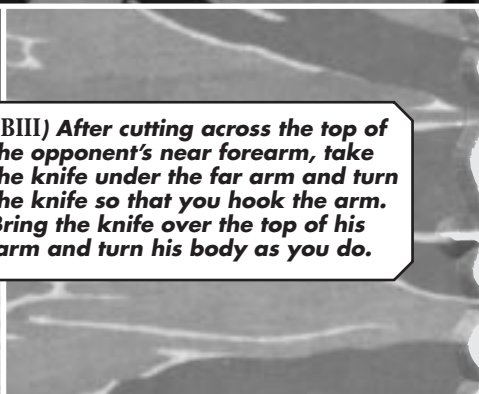
BI) As the assailant grabs the barrel of your weapon, press downward into his front triangulation point. This will gather his center and unbalance him. Do this in a relaxed manner so that you can feel his balance point and take advantage of it.



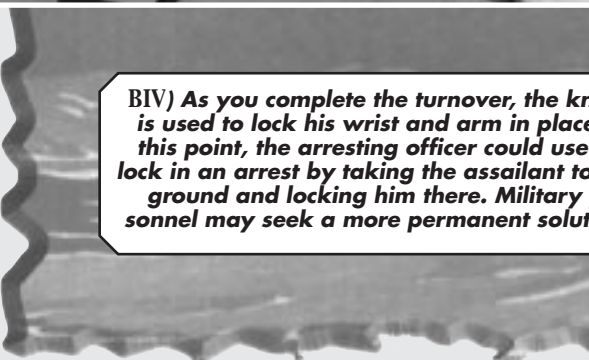
BII) Still pressing downward with your front hand, release your back hand to access your knife. This momentarily changes his priorities and gives you a window of opportunity. With the knife, cut down across the assailant's forearm while maintaining pressure on the weapon.



BIII) After cutting across the top of the opponent's near forearm, take the knife under the far arm and turn the knife so that you hook the arm. Bring the knife over the top of his arm and turn his body as you do.



BIV) As you complete the turnover, the knife is used to lock his wrist and arm in place. At this point, the arresting officer could use this lock in an arrest by taking the assailant to the ground and locking him there. Military personnel may seek a more permanent solution.





CI) The opponent grabs the weapon from the side. Instead of tensing up and fighting the grab, relax and let him move the weapon. This prevents him from affecting your balance.

CII) Move your front hand forward and grasp his hand — especially his forefinger. Staying relaxed, move the stock of the weapon in a semi-circle that places the barrel over his wrist. Notice that this movement unbalances your opponent and gives you control over his center of gravity.



CIII) Use the skeletal advantage that you have gained by trapping his finger and placing the barrel on his wrist. Then direct him into his triangulation point taking him to the ground. For an arresting officer, the joint lock provided by the barrel may be used for arrest and control.



CIV) In a military engagement where the situation is extreme, an edged weapon can be used to neutralize the threat. It is obvious from these photos that a sling would hinder full use of the weapon.





DI) *We use the firearm as a weapon whether or not it can be fired. While parrying the opponent's weapon with his hand, Ken uses the muzzle of his weapon to attack the face. This continues the continuity of the attack and keeps the opponent off balance.*

DII) *As the grip is switched from right hand to left the knife is drawn. The muzzle of the weapon continues to apply pressure to the opponent's face, which compromises his balance and occupies his operating system. As in every technique presented here, relaxation is the key to success.*



DIII) *The knife is inserted behind the clavicle, and the opponent is brought to the ground. This clears the guns behind the combatants and allows them to move forward and control the force vectors. In one of the current military scenarios, the last man past can head tap the terrorist and continue forward reassuming his position.*



Although these sequences were shot in daylight for clarity, most engagements of this sort take place in low light conditions. As this picture illustrates, the use of intense, directed, white light can provide an enormous advantage in close quarters by controlling the opponent.



the past contribute an enormous amount of function in the present.

I am a former army officer with over 40 years of martial arts training and teaching, and a world-renowned expert of the samurai arts. Ken Good, a former Navy SEAL and the director of the Surefire Institute, is at the cutting edge of human performance in the tactical environment. Together we are redefining the mindset, tactics and strategies necessary for maximum performance in the tactical environment.

With the current emphasis on close-quarter engagements by Spec Ops personnel, both weapon retention and effective use of edged weapons is of even more importance. I just spent 5 days working with Mikhail Ryabko, who is the former head of the Russian Spetsnaz antiterrorist unit. Mikhail has considerable experience in Afghanistan as well as other theaters of operation. The extreme close-quarter fighting that the Spetsnaz engaged in while in Afghanistan made extensive use of the knife. The need of our military for this type of training is essential if we are going to prevail in current and future conflicts of this kind. Along with being a top operator, Mikhail is also a master instructor of the Spetsnaz. They place a great emphasis on edged-weapon and unarmed combat and spend a great deal of time engaged in this type of training.

The scenarios covered in this article involve situations where the firearm is either jammed, out of ammo, or the weapon has been grabbed by an adversary. The rapid access and effective use of the knife in scenarios such as these can mean the difference between victory or death.

We wear the knife in the middle of the chest for rapid access by either hand. You will also notice that we don't use slings. In our opinion, slings can seriously compromise your weapon's effectiveness in close quarters. Another downside to slings is that if your firearm is grabbed, your opponent can control your body because of its connection to the sling.



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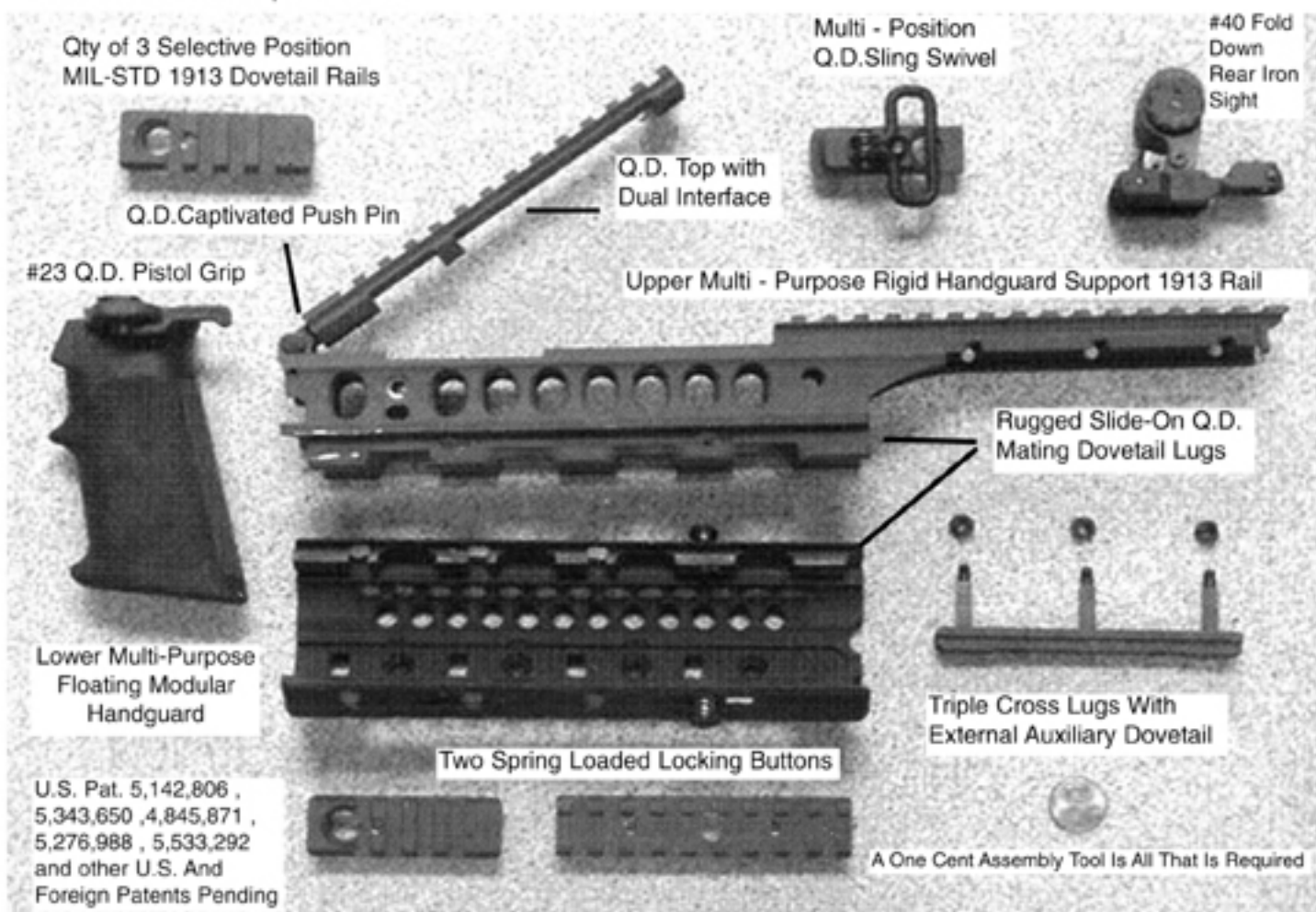
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Beretta's BM59

Continued from page 89

Today, Springfield Armory BM59 rifles are marketed in the United States by Reese Surplus of Colona, Ill., which provided new BM59 and BM59 Mark IV rifles for a shooting evaluation. Both rifles were semiauto versions. Accompanying each rifle were an oiler, hex wrench to remove the gas plug, four-language instruction manual, and one or two 20-round magazines.

With tri-compensator, the BM59 was nearly the same length as the M1 Garand, even though its 19.2-inch barrel was almost 5 inches shorter. The receiver heel was marked P. Beretta, 7.62mm BM59, Gardone V.T., Italia. The left side of the receiver carried the markings: Springfield Armory, Geneseo, IL. This BM59 was 43.125-inches long, and weighed 9.78 pounds with the attached bipod and grenade-launching sight. The two-stage trigger was crisp and without creep following takeup of slack; it measured 72 ounces. The stock was nicely figured walnut with good grain through the pistol grip to the rubber butt-plate. The upper handguard was stained chocolate brown and did not match the stock.

Sights, safety and operating rod were identical to the Garand — except the sights were graduated in hundreds of meters. The sling swivels differed from the Garand, the front swivel being mounted on the left side of the forearm, and the rear pivoting to the left. The rifle felt trim and shouldered with better balance than a Garand. An accompanying note indicated the rifle's headspace was 1.634 inches and that military specification ammunition or commercial equivalents should be used.

The Mark IV differed somewhat from the BM59. Its barrel was almost 2.5-inches longer, and the receiver markings read: 7.62 BM59, Springfield Armory, followed by a trademark "t" inside a circle. Shaped from finely finished French walnut, the upper handguard and butt-stock matched, and the stock showed attractive grain on both sides. The stock shape was well-suited to firing from the prone position, and a separate, wood en pistol-grip extended behind the trigger. The trigger had more creep than the BM59; its pull exceeded the 72-ounce maximum on local gunsmith Ken Burch's trigger-pull gauge.

The butt-stocks, trigger housing assemblies, tri-compensators and, of course, magazines could be interchanged between rifles. The 20-round magazines fit tightly, requiring some effort to insert or remove. Fit and finish on both rifles was very nice. Bolts snicked into receiver recesses with exquisite precision. The P. Beretta-marked receiver on the BM59 displayed the nicer metal finish, but the elegant walnut on the

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Hands On

Several shooters fired both BM59s rifles on a windy, warm day at the Frontier Sportsman's Association range in Colorado Springs, Colo. Magazines were charged with surplus 7.62x51 ball ammunition from Austria (Hirtenberger), Britain (Radway Green), Venezuela (CAVIM), and Israel (IMI match). Barrels were cleaned after each shot for the first 20 rounds and then fired for accuracy and reliability at 100 yards. We substituted X-1R Gun Grease for the military spec Lubriplate 130A grease normally used for M1 rifles and cleaned the bores with X-1R Gun Cleaner and Lubricant after each 20 rounds. X-1R gun products are good!

Our best three-shot group from the shorter-barrel BM59 measured 1.56 inches, using 1979 vintage Hirtenberger ammunition at 100 yards. Most shooters found the tri-compensator very effective at reducing recoil, resulting in many two-to three-inch groups.

For comparison, shooters also fired a well-used, October 1945 vintage Civilian Marksmanship Program M1 Garand recently returned from Denmark. Choosing between a M1 Garand, BM59 Mark IV and BM59, male testers preferred the BM59 standard rifle with its better balance and livelier feel. With the 7-inch long tri-compensator and rubber butt-plate on the BM59, ball ammunition recoil proved no problem for our lone slender female shooter. Her choice: the 10-pound BM59 Mark IV.

The BM59 proved to be fun for recreational and target shooting, but it is also a reliable and combat-accurate rifle for serious shooters facing tense situations. Installing the folding stock and detachable tri-compensator produced a rugged and compact 7.62 self-loading rifle, measuring less than 33 inches and weighing about 9.3 pounds without a bipod — though test firing indicated the rifle needed the detachable part of the tri-compensator attached for correct functioning.

In the confusing domain of pressed, stamped and synthetic assault rifles, the world's best battle rifle may never be universally acclaimed. Nonetheless, a battle-proven heritage, refined in superbly crafted rifles from Beretta and Springfield Armory, positions the BM59 as the best walnut and steel battle rifle ever produced.



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ARMCHAIRGUNSHOW.COM - Collectible & antique firearms for sale. Illustrated catalog subscription \$35. We buy collections. Old Town Station, Ltd., POB 14040-G, Lenexa, KS 66285. Jim Supica, Pres. (913) 492-3000.

GUNSMITH

George F. Long, Pistolsmith. Combat Veteran, Retired Police Officer. Custom carry guns and tactical weapons for real world problems. Member American Pistolsmiths Guild, American Handgunner Club 100. 1500 Rogue River Hwy., Suite F, Grants Pass, OR 97527. 541-476-7552.

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OPTICS

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These Just In...

Three manufacturers last-minute additions to the *Guns Combat* catalog



ARMALITE

Armalite is the leader in the field of quality semiauto rifles. Long known for their excellent M15 series .223 and AR-10 series .308 rifles, Armalite has accelerated the pace of new developments in recent years. The Armalite AR-50 is one of the most affordable rifles chambered in .50 BMG, as well as one of the most accurate. Just announced from Armalite is the AR-180, an updated version of the very popular original. Add to all of this the fact that Armalite is your best source for quality AR-15 parts and accessories, and you can see that you will want to know all of the details about this manufacturer. Get the complete story by checking out www.armalite.com, or by calling 1-800-336-0184.

BOND ARMS

Bond Arms produces all-stainless derringers that are 100 percent made in the good ol' U.S.A. Located in Granbury, Texas, the company is owned by Greg Bond, a mechanical engineer and journeyman tool and die maker. Quality and innovation are the watchwords at Bond, and the company's Cowboy Defender has quickly become the preferred choice with Cowboy Action Shooters. The Bond derringers are unique in several respects — they offer interchangeable barrels in a wide variety of calibers and feature true right-handed operation. And for the truly adventurous, check out the new .450 Bond Super chambering that boasts a .45 caliber, 90-grain bullet at an astounding 2,400 fps.

Wow! For the latest on Bond Arms, see www.bondarms.com, or call [817] 573-4445.



PROFESSIONAL ORDNANCE

How much does a semiauto, AR-15-style rifle weigh? The answer to that question changed forever with the release of the Carbon 15 by Professional Ordnance. Tipping the scales at a scant 3.9 lbs., the Carbon 15 also boasts extreme resistance to corrosion thanks to its innovative use of composite materials. Despite its light weight, durability is excellent. One of the original Professional Ordnance engineering samples has now been fired over 130,000 times, and the radical light-weight receivers are still going strong! Several variants of the original Carbon 15 are now offered as well as a unique pistol version. If you have a need for the most firepower in the lightest, most compact package, you must investigate the Professional Ordnance line. Check out www.proord.com, or call [520] 505-2420.

COMBAT

2002 ANNUAL

CATALOG OF CURRENTLY MANUFACTURED HANDGUNS, RIFLES AND SHOTGUNS

Prices shown are for comparison purposes only. Actual retail prices may vary.

ACCU-TEK MODEL AT-32 & AT-380

Caliber: 32 or 380
Capacity: 5 rounds
Barrel Length: 3"
Weight: 20 to 26 ounces
Grips: Black combat
Sights: Windage adjustable
Misc: External hammer; manual thumb safety; firing pin and trigger disconnect
Price: \$221



ACCU-TEK MODEL HC-380

Caliber: 380
Capacity: 10 rounds
Barrel Length: 2.75"
Weight: 26 ounces
Grips: Black checkered
Sights: Windage adjustable, blade front
Misc: External hammer; manual thumb safety; firing pin and trigger disconnect; satin stainless
Price: \$231



ACCU-TEK MODEL BL-9 & XL-9

Caliber: 9mm Parabellum
Capacity: 5 rounds
Barrel Length: 3"
Weight: 22 ounces (Model BL-9) to 24 ounces (Model XL-9)
Grips: Black pebble
Sights: Fixed (Model BL-9) or 3-dot windage adjustable (Model XL-9)
Misc: Double Action Only (BL-9 and XL-9)
Price: \$232 to \$248



AMERICAN DERRINGER MODEL 1, 7 & 10

Caliber: Available in almost any pistol caliber from 22 LR to 45-70 Gov't.
Capacity: 2 rounds
Barrel Length: 3"
Weight: 7.5 (Model 7), 10 (Model 10 and 11) or 15.5 ounces (Model 1)
Grips: Zebra or rosewood
Sights: Blade front
Price: \$260 to \$400



AMERICAN DERRINGER MODEL 4

Caliber: 45 Colt/410 ga. (3" shells), 45-70, 44 Mag. or 357 Mag.
Capacity: 2 rounds
Barrel Length: 4.1"
Weight: 16.5 ounces
Grips: Rosewood
Sights: Blade front
Price: \$365 (45 Colt/410 ga.) to \$445 (44 Mag.)



AMERICAN DERRINGER MODEL 6

Caliber: 22 WRM, 357 Mag., 45 ACP or 45 Colt/410 ga. (3")
Capacity: 2 rounds
Barrel Length: 6"
Weight: 21 ounces
Grips: Rosewood
Sights: Blade front
Price: \$365 to \$375 (45 Colt/410 ga.)



AMERICAN DERRINGER LADY DERRINGER

Caliber: 32 H&R Mag., 357 Mag., 38 Special, 45 Colt or 45/410
Capacity: 2 rounds
Barrel Length: 3"
Weight: 15.5 ounces
Grips: Scrimshawed synthetic ivory
Sights: Blade front, Diamond ramp front on 14 kt. Engraved Model
Misc: Fitted French jewelry box included
Price: \$290 to \$365



AMERICAN DERRINGER DA 38

Caliber: 22 LR, 9mm Para., 38 Special, 357 Mag. or 40 S&W
Capacity: 2 rounds
Barrel Length: 3"
Weight: 14.5 ounces
Grips: Rosewood, walnut or other hardwoods
Sights: Fixed
Price: \$325 to \$365



AUTO-ORDNANCE 1911A1

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 5"
Weight: 39 ounces
Grips: Checkered plastic with medallion
Sights: Adjustable rear, blade front
Misc: Available in blue or Parkerized finish, 45 ACP Deluxe has 3-dot sights and textured rubber wraparound grips
Price: \$399 to \$438



AUTO-ORDNANCE 1911A1 CUSTOM HIGH POLISH

Caliber: 45 ACP
Capacity: 8 rounds
Barrel Length: 5"
Weight: 39 ounces
Grips: Rosewood with medallion
Sights: 3-dot white
Misc: Videcki Speed trigger, extended thumb safety and beavertail grip safety, custom combat hammer
Price: \$585



AUTO-ORDNANCE ZG-51 PIT BULL

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 3.5"
Weight: 36 ounces
Grips: Black, rubber wraparound with medallion
Sights: 3-dot white system
Price: \$470



BAER 1911 CUSTOM CARRY AUTO PISTOL

Caliber: 45 ACP
Capacity: 7 or 10 rounds
Barrel Length: 5"
Weight: 37 ounces
Grips: Checkered Cocobolo
Sights: Baer improved ramp-style dovetailed front; Novak low-mount rear
Misc: Available in Standard or Comanche length, in blued or stainless; double serrated slide (full size only)
Price: \$1,640 to \$1,995 (Comanche, stainless, aluminum frame)



BAER 1911 CONCEPT I, II, III, IV AUTO PISTOL

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 5"
Weight: 37 ounces
Grips: Checkered rosewood
Sights: Dovetail front; Bo-Mar deluxe low-mount rear
Misc: Baer beavertail grip safety; checkered slide stop; tuned extractor; extended ejector; deluxe hammer and sear; Concept III has forged stainless steel frame with blued steel slide
Price: \$1,390 (Concept I);
\$1,390 (Concept II with Baer adjustable sight);
\$1,520 (Concept III);
\$1,499 (Concept IV with Baer adjustable rear sight)



BAER 1911 CONCEPT S.R.P. PISTOL

Caliber: 45 ACP
Capacity: 8 rounds
Barrel Length: 5"
Weight: 37 ounces
Grips: Checkered Cocobolo
Sights: Tritium night sights, front and rear
Misc: Similar to FBI contract gun but uses Baer-forged steel frame; all parts Mag-na-fluxed
Price: \$2,240 (Government or Comanche length)



BAER 1911 NATIONAL MATCH HARDBALL PISTOL

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 5"
Weight: 37 ounces
Grips: Checkered Cocobolo
Sights: Baer dovetail front with undercut post; low-mount Bo-Mar rear with hidden leaf
Misc: Forged steel frame, double serrated slide and barrel with stainless brushing; lowered, flared ejection port; polished feed ramp, throated barrel
Price: \$1,335



BAER 1911 PREMIER II AUTO PISTOL

Caliber: 9x23, 38 Super, 400 Cor-Bon, 45 ACP
Capacity: 7 or 10 rounds
Barrel Length: 5"
Weight: 37 ounces
Grips: Checkered rosewood, double diamond pattern
Sights: Baer dovetailed front; low-mount Bo-Mar rear
Misc: Deluxe Commander hammer and sear; aluminum speed trigger with 4 lb. pull; extended ambidextrous safety
Price: \$1,428 (blued) to \$1,558 (stainless); \$1,595 (6" model, blued)



BAER ULTIMATE MASTER COMBAT PISTOL

Caliber: 9x23, 38 Super, 400 Cor-Bon, 45 ACP (others available)
Capacity: 10 rounds
Barrel Length: 5", 6"
Weight: 37 ounces
Grips: Checkered rosewood
Sights: Baer dovetail front; low-mount Bo-Mar rear with hidden leaf
Misc: Full-house competition gun; Baer triple port tapered cone compensator
Price: \$2,440 to \$2,690 (Compensated with Baer optics mount)



BERETTA 9000 SERIES

Caliber: 40 S&W, 9mm
Capacity: 10 rounds
Barrel Length: 3.5"
Weight: 25.7, 26.8 or 27.5 ounces
Grips: Plastic
Sights: 3-dot
Misc: Type F models are available in double and single action and have a hammer decocking feature. Type D models are DAO
Price: \$551



BERETTA BRIGADIER 92FS, 96

Caliber: 9mm (92FS) or 40 S&W (96)
Capacity: 10 rounds
Barrel Length: 4.9"
Weight: 34 ounces (92FS) to 36 ounces (96)
Grips: Rubber, checkered
Sights: 3-dot dovetailed to slide, adjustable for windage
Price: \$716 to \$771



BERETTA CENTURION 92D, 92FS, 96, 96D

Caliber: 9mm or 40 S&W
Capacity: 10 rounds
Barrel Length: 4.4"
Weight: 34 ounces
Grips: Plastic, checkered, sand-blasted matte
Sights: 3-dot sight system
Misc: Wood or plastic
"D" models are DAO; Tritium sights also available
Price: \$669 to \$771



BERETTA COUGAR MODEL 8000/8040/8045

Caliber: 9mm (8000), 40 S&W (8040) or 45 ACP (8045)
Capacity: 8 rounds (8045) or 10 rounds (8000/8040)
Barrel Length: 3.5"
Weight: 27.6 ounces (Mini Cougar 8000/8040) to 33.5 ounces
Grips: Checkered plastic, walnut optional
Sights: Blade front, rear adjustable for windage (3-dot system)
Misc: Slide-mounted safety; exposed hammer; matte black finish
Price: \$709 to \$764



BERETTA BOBCAT MODEL 21

Caliber: 22 LR or 25 ACP
Capacity: 7 rounds (22 LR) or 8 rounds (25 ACP)
Barrel Length: 2.5"
Weight: 11.8 ounces (22LR) or 11.5 ounces (25 ACP)
Grips: Plastic or walnut
Sights: Fixed
Misc: Blue, matte, or stainless finish
Price: \$252 to \$307



BERETTA TOMCAT MODEL 3032

Caliber: 32 ACP
Capacity: 7 rounds
Barrel Length: 2.4"
Weight: 14.5 ounces to 16.9 ounces (Titanium model)
Grips: Black plastic, checkered
Sights: Fixed blade front, drift adjustable rear
Misc: Tip-up barrel for direct chamber loading/unloading; Polished, matte, blue or Titanium finish
Price: \$340 (matte), \$370 (blue), \$418 (stainless) and \$572 (Titanium)



BERETTA CHEETAH MODEL 80 SERIES

Caliber: 22 LR or 380 ACP
Capacity: 22 LR: 7 rounds; 380 ACP: 8 rounds or 10 rounds
Barrel Length: 3.8" (84 and 87 Cheetah), 4.4" (86 Cheetah), 5.9" (87 Target)
Weight: 20.1 oz. (87), 21.9 oz. (85), 23.3 oz. (84 and 86), 40.9 oz. (87 Target)
Grips: Black plastic or optional wood
Sights: Drift adjustable rear, fixed front
Misc: Various models (84, 85, 87) with slightly varied features available
Price: \$381 to \$456



BERETTA CHEETAH MODEL 86

Caliber: 380 ACP
Capacity: 8 rounds
Barrel Length: 4.4"
Weight: 23.3 ounces
Grips: Walnut
Sights: Adjustable rear, fixed front sights
Misc: Features a tip-up barrel for first-round loading, Bruniton finish
Price: \$404



BERETTA MODEL 89 WOOD SPORT GOLD STANDARD

Caliber: 22 LR
Capacity: 8 rounds
Barrel Length: 6"
Weight: 41 ounces
Grips: Walnut with thumbrest
Sights: Adjustable rear, interchangeable blade front, matte black, Bruniton finish
Price: \$771



BERETTA MODEL 92FS

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 4.9"
Weight: 34.4 ounces
Grips: Checkered plastic or rubber (wood optional)
Sights: Adjustable rear, blade front sights
Misc: Squared trigger guard, matte or blued finish
Price: \$629 to \$2,002 (470th Anniversary Edition)



BERETTA MODEL 96

Caliber: 40 S&W
Capacity: 10 rounds
Barrel Length: 4.9"
Weight: 34 ounces
Grips: Checkered plastic
Sights: Fixed or 3-dot sights
Misc: Similar to Model 92
Price: \$468



BERETTA MODEL 950 JETFIRE

Caliber: 25 ACP
Capacity: 8 rounds
Barrel Length: 2.4"
Weight: 9.9 ounces
Grips: Checkered plastic or walnut
Sights: Fixed
Misc: Tip-up barrel (similar to Model 21), matte or stainless finish
Price: \$226 to \$267



BERSA THUNDER 380, 380 DELUXE

Caliber: 380 ACP
Capacity: 7 or 9 rounds (Thunder 380 Deluxe)
Barrel Length: 3.5"
Weight: 22 to 25.75 ounces (Thunderer)
Grips: Black polymer
Sights: Drift adjustable rear, fixed front
Misc: Double action; blue or nickel finish
Price: \$249 to \$292 (Thunder 380 Deluxe blue)



BROWNING BDA-380 DA

Caliber: 380 ACP
Capacity: 10 rounds
Barrel Length: 3.2"
Weight: 32 ounces
Grips: Walnut with medallion
Sights: Adjustable rear, blade front sights
Price: \$564 (blue) to \$607 (nickel)



BROWNING BUCK MARK 22

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 5.5"
Weight: 32 ounces
Grips: Black molded plastic (Plus has laminated wood grips)
Sights: Adjustable rear, ramp front
Price: \$265 (blue), \$312 (nickel), \$324 (Buck Mark Plus)



BROWNING BUCK MARK SILHOUETTE

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 9.875" or 9.9"
Weight: 53 ounces
Grips: Walnut
Sights: Pro Target Cup rear, hooded adjustable blade front
Price: \$448



BROWNING BUCK MARK TARGET 5.5

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 5.5"
Weight: 35.5 ounces
Grips: Walnut with thumbrest
Sights: Adjustable front and rear
Price: \$425 to \$477 (Gold and Nickel models)



BROWNING BUCK MARK VARMINT

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 9.875" or 9.9"
Weight: 48 ounces
Grips: Walnut
Sights: No open sights, full-length scope base
Price: \$403



BROWNING HI-POWER

Caliber: 9mm or 40 S&W
Capacity: 10 rounds
Barrel Length: 4.75"
Weight: 32 ounces
Grips: Hand checkered walnut or black Polyamide
Sights: Fixed or adjustable rear, fixed front
Misc: Magazine safety, fixed rear sights available
Price: \$579 (Mark III, fixed sights, ambidextrous safety);
\$615 (Fixed sights, walnut grips);
\$668 (Adjustable sights, walnut grips);
\$684 (Silver chrome finish, adj. sights, Pachmayr grips)



CALICO M-110

Caliber: 22 LR
Capacity: 100 round rotary magazine
Barrel Length: 6"
Weight: 3.7 pounds (loaded)
Grips: Molded plastic
Sights: Fixed rear notch, adjustable post front sight
Misc: Aluminum alloy frame; flash suppressor; ambi safety; helical feed magazine
Price: \$432



CENTURY MODEL 100

Caliber: 30-30, 375 Win., 444 Marlin, 45-70 or 50-70
Capacity: 6 rounds
Barrel Length: 6.5", 8" or 10"
Weight: 6 pounds (loaded)
Grips: Smooth walnut
Sights: Millett rear, ramp front
Misc: Manganese-bronze frame, blue cylinder and barrel
Price: \$1,250



CIMARRON ARTILLERY MODEL

Caliber: 45 Colt
Capacity: 6 rounds
Barrel Length: 5.5"
Weight: 39 ounces
Grips: Walnut
Sights: Fixed
Misc: Case-hardened frame and hammer, Italian-made Colt reproduction
Price: \$499



CIMARRON U.S. CAVALRY MODEL

Caliber: 45 Colt
Capacity: 6 rounds
Barrel Length: 7.5"
Weight: 42 ounces
Grips: Walnut
Sights: Fixed
Misc: Color case-hardened frame and hammer, rest charcoal blue, Italian-made Colt reproduction
Price: \$499



COLT SINGLE ACTION ARMY

Caliber: 44-40 or 45 Colt
Capacity: 6 rounds
Barrel Length: 4.75", 5.5" or 7.5"
Weight: 40 ounces
Grips: Black composite Eagle stocks
Sights: Blade front, notch rear
Finish: Blue with color case-hardened frame or full nickel
Misc: Available with gold grip medallions. The original Colt Single Action Army.
Price: \$1,938 to \$2,125



COLT DEFENDER

Caliber: 45
Capacity: 7 rounds
Barrel Length: 3"
Grips: Wraparound rubber finger groove grips
Sights: Fixed
Finish: Brushed stainless
Misc: Extended thumb safety and upswept beavertail with palm swell
Price: \$773



COLT GOLD CUP

Caliber: 45 ACP
Capacity: 8 rounds
Barrel Length: 5"
Weight: 39 ounces
Grips: Black wraparound
Sights: Dovetail front, Bomar-style rear
Misc: Stainless frame and round top slide
Price: \$1,116



COLT 1991 SERIES

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 4.25" (Commander) or 5" (Gov't 1991)
Grips: Checkered rubber composite
Sights: Fixed
Finish: Matte black or matte stainless
Price: \$645 (blue), \$800 (stainless)



COLT XSE SERIES

Caliber: 45
Capacity: 8 rounds
Barrel Length: 4.25" (Commander and lightweight Commander) or 5" (Gov't)
Grips: Checkered, double diamond, rosewood
Sights: Fixed
Finish: Stainless brushed
Misc: Adjustable 2-cut aluminum trigger
Price: \$950



COONAN 357 MAGNUM & 41 MAGNUM PISTOLS

Caliber: 357 Mag. or 41 Mag.
Capacity: 7 rounds
Barrel Length: 5"
Weight: 42 ounces
Grips: Smooth walnut
Sights: Interchangeable ramp front, rear adjustable
Price: \$735 to \$1,014 (6" compensated barrel)



CZ 75 B, 75 BD & 85

Caliber: 9mm Para., 40 S&W
Capacity: 10 rounds
Barrel Length: 3.9" (75 B Compact), 4.7"
Weight: 32 to 35 ounces
Grips: Checkered plastic
Sights: Square post front, rear adjustable; 3-dot system
Price: \$419 to \$526



CZ 83 B

Caliber: 32 ACP, 380 ACP or 9mm Makarov
Capacity: 10 rounds
Barrel Length: 3.8"
Weight: 26 ounces
Grips: Checkered plastic
Sights: Removable square post front, rear adjustable; 3-dot system
Price: \$378



CZ 100

Caliber: 9mm Para. or 40 S&W
Capacity: 10 rounds
Barrel Length: 3.7"
Weight: 24 ounces
Grips: Grooved polymer
Sights: Blade front with dot, white outline rear drift adjustable
Price: \$432



DAN WESSON SUPER RAM SILHOUETTE

Caliber: 22 LR, 357 Mag., 357 SuperMag/Maxi, 41 Mag., 44 Mag., 414 SuperMag or 445 SuperMag
Capacity: 6 rounds
Barrel Length: 8"
Weight: 64 ounces
Grips: Hogue rubber fingergroove
Sights: Bo-Mar target sights with hooded front
Misc: Available in blue or stainless; SRS-1 laser engraving
Price: \$1,149 to \$1,295



DAVIS DERRINGER

Caliber: 22 LR, 22 WMR, 25 ACP or 32 ACP
Capacity: 2 rounds
Barrel Length: 2.4"
Weight: 9.5 ounces
Grips: Laminated wood or pearl
Sights: Blade front, fixed notch rear
Price: \$100



DAVIS P-32 & P-380

Caliber: 32 ACP and 380 ACP
Capacity: 6 rounds (P-32) and 5 rounds (P-380)
Barrel Length: 2.8"
Weight: 22 ounces
Grips: Laminated wood (P-32) or black composition (P-380)
Sights: Fixed
Misc: Black Teflon or chrome finish
Price: \$88 (P-32) and \$98 (P-380)



E.A.A. BOUNTY HUNTER

Caliber: 22 LR/22 WMR, 357 Mag., 44 Mag. or 45 Colt
Capacity: 6 rounds
Barrel Length: 4.5" to 7.5"
Weight: 38 ounces
Grips: Smooth walnut
Sights: Blade front, grooved topstrap rear
Misc: Blue or nickel finish; hammer-forged barrel
Price: \$187 to \$298



E.A.A. WITNESS DA

Caliber: 38 Super, 9mm, 40 S&W or 45 ACP
Capacity: 10 rounds
Barrel Length: 4.5"
Weight: 35 ounces
Grips: Checkered rubber
Sights: Adjustable rear, undercut blade front
Misc: Compact models available; blue or chrome finishes available
Price: \$351 to \$366



EMF DAKOTA 1875 SINGLE ACTION

Caliber: 357 Mag., 44-40 or 45 Colt
Capacity: 6 rounds
Barrel Length: 7.5"
Weight: 46 ounces
Grips: Smooth walnut
Sights: Blade front, fixed groove rear
Price: \$300



EMF 1890 POLICE SINGLE ACTION

Caliber: 357 Mag., 44-40 or 45 Colt
Capacity: 6 rounds
Barrel Length: 5.5"
Weight: 40 ounces
Grips: Walnut
Sights: Blade front, fixed groove rear
Price: \$600



EMF HARTFORD SINGLE ACTION

Caliber: 22 LR, 32-20, 357 Mag., 38-40, 44-40, 44 Special or 45 Colt
Capacity: 6 rounds
Barrel Length: 4.75", 5.5" or 7.5"
Weight: 45 ounces
Grips: Smooth walnut
Sights: Blade front, fixed rear
Misc: Bullseye ejector head and color case-hardening on frame and hammer
Price: \$375 to \$500



EMF 1875 OUTLAW SINGLE ACTION

Caliber: 357 Mag., 44-40 or 45 Colt
Capacity: 6 rounds
Barrel Length: 7.5"
Weight: 46 ounces
Grips: Smooth walnut
Sights: Blade front, fixed groove rear
Price: \$575 to \$590



FREEDOM ARMS MODEL 252

Caliber: 22 LR
Capacity: 5 rounds
Barrel Length: 7.5"
Weight: 59 ounces
Grips: Black and green laminated hardwood
Sights: Express sights, notched rear, brass bead front
Misc: Extra fitted 22 WMR cylinders available for an additional \$264; other custom options available
Price: \$1,527



FREEDOM ARMS MODEL 97

Caliber: 357 Mag. or 45 Long Colt
Capacity: 5 or 6 rounds
Barrel Length: 5.5" or 7.5"
Weight: 40 to 42 ounces
Grips: Hardwood or black micarta
Sights: Adjustable rear, ramp front
Misc: Available in fixed sight mode, stainless steel with brushed finish
Price: \$1,391 (fixed); \$1,492 (adjustable)



FREEDOM ARMS FIELD GRADES

Caliber: 454 Casull, 50 AE, 44 Mag., 357 Mag., 41 Mag. or 475 Linebaugh
Capacity: 5 rounds
Barrel Length: 4.75", 6", 7.5" or 10"
Weight: 50 to 52 ounces
Grips: Pachmayr
Sights: Fixed or adjustable rear; ramp front
Price: \$1,322 to \$1,400



FREEDOM ARMS PREMIER GRADES

Caliber: 454 Casull, 50 AE, 44 Mag., 357 Mag., 41 Mag. or 475 Linebaugh
Capacity: 5 rounds
Barrel Length: 4.75", 6", 7.5", 9" or 10"
Weight: 50 ounces
Grips: Hardwood
Sights: Adjustable rear; ramp front and fixed
Misc: Stainless steel; optional cylinders in 45 Colt, 45 ACP, and 45 Win. Mag. with 454 only available for \$264
Price: \$1,663 to \$1,820



GLOCK 17, 20, 21 & 22

Caliber: 9mm (17), 10mm (20), 45 ACP (21) or 40 S&W (22)
Capacity: 10 rounds
Barrel Length: 4.5"
Weight: 22 oz. (17 and 22), 26 oz. (20), 25 oz. (21)
Grips: Black polymer
Sights: Fixed or adjustable rear; fixed front
Misc: Double action trigger; mechanical firing pin safety
Price: \$616 to \$800



GLOCK 19 & 23

Caliber: 9mm (19) or 40 S&W (23)
Capacity: 10 rounds
Barrel Length: 4"
Weight: 21 ounces
Grips: Synthetic
Sights: Fixed or adjustable rear
Misc: Compact versions of the Glock 17 and 22, also available with ported barrels
Price: \$616 to \$646



GLOCK 26, 27 & 31

Caliber: 9mm, 40 S&W or 357 SIG
Capacity: 9 rounds (40 S&W) or 10 rounds (9mm)
Barrel Length: 3.5"
Weight: 21.8 ounces
Grips: Integral; stippled polymer
Sights: Dot on front blade, fixed or fully adjustable white outline rear
Misc: Mini-Glocks will accept magazines (including high capacity) from the larger, similar caliber Glock models
Price: \$616 to \$644



GLOCK 29 & 30

Caliber: 10mm (29) or 45 ACP (30)
Capacity: 10 rounds
Barrel Length: 3.75"
Weight: 24 ounces
Grips: Integral; stippled polymer
Sights: Dot on front, fixed or fully adjustable white outline rear
Misc: Subcompact Glocks will accept magazines (including high capacity) from the larger, similar caliber Glock models
Price: \$668 to \$697



HAMMERLI 160/162 FREE PISTOLS

Caliber: 22 LR
Capacity: 1 round
Barrel Length: 11.3"
Weight: 47 ounces
Grips: Target style walnut
Sights: Fully adjustable match rear, changeable front blade
Misc: Model 160 has mechanical set trigger; Model 162 has electronic trigger; Precision target pistols for Free Pistol event of UIT competition; Imported by SIG Arms, Inc.
Price: \$2,085 to \$2,295



HAMMERLI MODEL 208S

Caliber: 22 LR
Capacity: 8 rounds
Barrel Length: 5.9"
Weight: 36.7 ounces
Grips: Walnut with adjustable palm rest
Sights: Blade front, open fully adjustable rear
Misc: Adjustable trigger; imported by SIG Arms, Inc.
Price: \$2,201



HAMMERLI MODEL 280 TARGET PISTOL

Caliber: 22 LR, 32 S&W Long WC
Capacity: 6 rounds (22 LR) or 5 rounds (32 S&W)
Barrel Length: 4.5"
Weight: 34.6 ounces (22LR) or 41.8 ounces (32 S&W)
Grips: Match style walnut with stippling, adjustable palm shelf
Sights: Interchangeable match, micrometer adjustable
Misc: Interchangeable trigger is adjustable for pull weight, take-up weight, let-off, and length; comes with interchangeable metal or carbon fiber counterweights; imported by SIG Arms, Inc.
Price: \$1,643 (22 LR) to \$1,853 (32 S&W)



HECKLER & KOCH MARK 23

Caliber: 45 ACP
Capacity: 10 rounds
Barrel Length: 5.9"
Weight: 42.5 ounces
Grips: Stippled and checkered black polymer
Sights: 3-dot system; optional laser aimer
Misc: Threaded barrel; polygonal bore; single or double action; mechanical recoil reduction system
Price: \$2,289



HECKLER & KOCH P7M8

Caliber: 9mm
Capacity: 8 rounds
Barrel Length: 4.13"
Weight: 29 ounces
Grips: Stippled black plastic
Sights: Adjustable rear, fixed front; 3-dot system
Misc: Unique squeeze cocking system; gas-retarded action; blue finish
Price: \$1,369



HECKLER & KOCH USP45, USP40 and USP9 COMPACT

Caliber: 45 ACP, 40 S&W or 9mm
Capacity: 10 rounds
Barrel Length: 3.8" to 4.9"
Weight: 27.5 ounces (40 S&W) to 26.5 ounces (9mm)
Grips: Stippled black plastic
Sights: Fixed Patridge style, adjustable for windage and elevation; 3-dot system or optional tritium
Misc: Universal mounting grooves for installing accessories
Price: \$739 to \$1,449



HECKLER & KOCH USP45 & USP45 TACTICAL

Caliber: 45 ACP
Capacity: 10 rounds
Barrel Length: 4.92"
Weight: 2.24 pounds
Grips: Non-slip stippled polymer
Sights: Blade front, rear adjustable
Price: \$1,069



HECKLER & KOCH USP EXPERT

Caliber: 45 ACP
Capacity: 10 rounds
Barrel Length: 5.20"
Weight: 2.3 pounds
Grips: Synthetic
Sights: Adjustable target
Misc: Has patented recoil reduction system
Price: \$1,449



HERITAGE ROUGH RIDER

Caliber: 22 LR or 22 LR/22 WMR Combo
Capacity: 6 rounds
Barrel Length: 3.5", 4.75", 6.5", 9"
Weight: 31 to 38 ounces
Grips: Exotic hardwood
Sights: Blade front, adjustable sight or Red Dot Reflex versions available
Price: \$135 to \$239



HIGH STANDARD SUPERMATIC CITATION

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 5.5"
Weight: 44 ounces
Grips: Checkered hardwood with thumbrest
Sights: Undercut ramp front, rear adjustable
Misc: Push-button barrel takedown system; blue or Parkerized finish; 22 Short conversion kit available (for \$309)
Price: \$468



HIGH STANDARD SUPERMATIC CITATION MS

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 10"
Weight: 54 ounces
Grips: Checkered walnut with right-hand thumbrest
Sights: RPM sights, fully click-adjustable for windage and elevation
Misc: Comes in a matte blue finish with nickel accents; features push-button barrel takedown system; barrel is drilled and tapped for mounting scopes or optics
Price: \$632



HIGH STANDARD SUPERMATIC TROPHY

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 5.5" to 7.25"
Weight: 44 ounces
Grips: Checkered hardwood with thumbrest
Sights: Undercut ramp front, rear adjustable
Misc: Push-button barrel takedown system, adjustable trigger pull, blue finish and gold-plated accents; a 22 Short conversion kit is available
Price: \$510 (5.5") to \$650 (7.25")



HIGH STANDARD VICTOR

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 4.5" to 5.5"
Weight: 46 ounces
Grips: Checkered hardwood with thumbrest
Sights: Undercut ramp front, rear adjustable
Misc: Comes in either a blue or Parkerized finish with gold accents; features a push-button barrel takedown system, adjustable trigger, and drilled and tapped receiver; 22 Short conversion kit available; 4.5" is scope base model only
Price: \$532 to \$591



KAHR ARMS K9/40

Caliber: 9mm Para or 40 S&W
Capacity: 7 rounds (9mm) or 6 rounds (40 S&W)
Barrel Length: 3.5"
Weight: 25 ounces
Grips: Wraparound, textured soft polymer
Sights: Blade front, rear drift adjustable; bar-dot combat style
Misc: Double action only; matte black finish; all steel; also available in nickel with wood grips
Price: \$538 to \$836 (Duo-Tone with tritium night sights)



KIMBER PRO CARRY

Caliber: 45 ACP or 40 S&W
Capacity: 7 (45 ACP) or 8 rounds (S&W)
Barrel Length: 4"
Weight: 28.3 ounces
Grips: Black synthetic, high beavertail grip safety
Sights: Low profile blended combat sights; dovetail mounted
Misc: Match grade trigger group; beveled magazine well and slide serrations; lowered and flared ejection port; tactical ejector; bushingless bull barrel, aluminum frame
Price: \$773 to \$808 (matte blue); \$845 to \$881 (stainless steel slide); \$1,142 (CDP Series)



KIMBER CUSTOM 1911 PISTOLS

Caliber: 45 ACP or 40 S&W
Capacity: 7 to 10 rounds (depending on caliber and frame)
Barrel Length: 3", 4" and 5"
Weight: 24 to 38 ounces
Grips: Black synthetic; hand-checked rosewood; hand-checked walnut
Sights: Dovetail mounted fixed; adjustable or Tritium 3-dot night sights
Misc: 40 different models available; standard features include match grade barrels and chambers and match grade trigger groups; high beavertail grip safety; Commander-style hammer
Price: \$730 and up; many custom options available



KIMBER POLYMER MODELS

Caliber: 45 ACP
Capacity: 10 round magazine; (14 round available where legal)
Barrel Length: 3", 4" and 5"
Weight: 24 to 34 ounces
Grips: Polymer frame with stainless steel or 7075-T7 aluminum frame insert; impressed positive checkering
Sights: Dovetail mounted, fixed or adjustable
Misc: Stainless steel beavertail grip safety
Price: \$745 to \$1,177



KIMBER ULTRA CARRY

Caliber: 45 ACP or 40 S&W
Capacity: 7 round magazine
Barrel Length: 3"
Weight: 24 ounces (Ultra Ten II) to 25 ounces (single stack)
Grips: Black synthetic
Sights: Dovetail mounted fixed with low profile combat
Misc: Dual captured low-effort spring design for easy operation; accepts all quality Officer's-type magazines
Price: \$808 to \$847 (matte blue); \$886 to \$931 (stainless); \$1,142 (CDP series); \$896 (Ultra Ten II)



LLAMA MAX SERIES, MICROMAX, MINIMAX, MINIMAX SUBCOMPACT

Caliber: 9mm, 45, 40 S&W, 32 or 380, Micromax in 380
Capacity: 6, 7 or 8 rounds
Barrel Length: 3.5"
Weight: 23 to 36 ounces
Grips: Checkered rubber or high impact polymer
Sights: 3-dot combat
Misc: Minimax, Micromax, Max models available in matte, chrome or duo-tone finish; extended slide release; distributed by Import Sports Inc.
Price: \$282 to \$350



MAGNUM RESEARCH DESERT EAGLE

Caliber: 357 Mag., 44 Mag. or 50 AE
Capacity: 9 rounds (357), 8 rounds (41 and 44) or 7 rounds (50)
Barrel Length: 6" or 10"
Weight: 4 pounds, 6.5 ounces (6"), 4 pounds, 15 ounces (10")
Grips: Plastic
Sights: Fixed combat, Millett adjustable (optional)
Misc: Also available: Custom finishes, chrome, nickel, gold and titanium gold
Price: \$1,199 (6"), \$1,699 (10")



MAGNUM RESEARCH ONE PRO

Caliber: 45 ACP or 400 Cor-Bon
Capacity: 10 rounds
Barrel Length: 3.75"
Weight: 31 ounces
Grips: Textured plastic
Sights: Fixed
Price: \$209 (400 Cor-Bon non-compensated) to \$249



M.O.A. MAXIMUM SINGLE SHOT

Caliber: Most calibers from 22 LR to 375 H&H
Capacity: 1 round
Barrel Length: 8.5", 10.5" or 14"
Weight: 3 pounds, 8 ounces (8.5"); 3 pounds, 13 ounces (10.5"); 4 pounds, 3 ounces (14")
Grips: Walnut
Sights: Adjustable rear, post front
Misc: Tapped and drilled for scope mount; extra barrels available
Price: \$799 (blue) to \$883 (stainless)



NAVY ARMS 1873 COLT-STYLE SAA

Caliber: 44-40 or 45 Colt
Capacity: 6 rounds
Barrel Length: 3", 4.75", 5.5" or 7.5"
Weight: 36 ounces
Grips: Walnut
Sights: Blade front, groove in topstrap rear
Price: \$385



NAVY ARMS 1875 SCHOFIELD

Caliber: 44-40 or 45 Colt
Capacity: 6 rounds
Barrel Length: 3" (Hide Out Model), 5" (Wells Fargo Model), 7" (Cavalry Model)
Weight: 39 ounces
Grips: Walnut
Sights: Blade front, notch rear
Misc: Cavalry, Hide Out and Wells Fargo models available in either caliber
Price: \$695



NAVY ARMS "BISLEY MODEL" SAA

Caliber: 44-40 or 45 Colt
Capacity: 6 rounds
Barrel Length: 4.75", 5.5" or 7.5"
Weight: 40 ounces
Grips: Walnut
Sights: Blade front, notch rear
Price: \$405



NAVY ARMS FLAT TOP TARGET MODEL SAA

Caliber: 45 Colt
Capacity: 6 rounds
Barrel Length: 7.5"
Weight: 40 ounces
Grips: Walnut
Sights: Spring loaded front, adjustable rear
Price: \$425



NAVY ARMS NEW MODEL RUSSIAN

Caliber: 44 Russian
Capacity: 6 rounds
Barrel Length: 6.5"
Weight: 40 ounces
Grips: Walnut
Sights: Blade front, notch rear
Price: \$745



NORTH AMERICAN ARMS MINI-MASTER

Caliber: 22 LR or 22 WMR
Capacity: 5 rounds
Barrel Length: 4"
Weight: 10.75 ounces
Grips: Checkered hard black rubber
Sights: Blade front, white outline rear adjustable, or fixed
Misc: Heavy vent barrel, full-size grips; extra cylinders available
Price: \$286 (fixed) to \$304 (adjustable); \$324 to \$343 with extra cylinders



NORTH AMERICAN ARMS BLACK WIDOW

Caliber: 22 LR or 22 WMR
Capacity: 5 rounds
Barrel Length: 2"
Weight: 8.8 ounces
Grips: Black rubber
Sights: Millett fixed or adjustable rear, blade front
Misc: Extra cylinders available; heavy barrel, full grips, vent ribbed barrel
Price: \$256 (fixed) to \$274 (adjustable); \$294 (fixed) to \$312 (adjustable) with extra cylinders



NORTH AMERICAN ARMS MINI

Caliber: 22 Short, 22 LR or 22 WMR
Capacity: 5 rounds
Barrel Length: 1.125" or 1.625"
Weight: 4 to 6.5 ounces
Grips: Laminated wood
Sights: Blade front, notch fixed rear
Misc: Extra cylinders available
Price: \$186 to \$240



PARA-ORDNANCE P10

Caliber: 9mm, 40 S&W or 45 ACP
Capacity: 10 rounds
Barrel Length: 3"
Weight: 24 ounces (alloy) or 31 ounces (stainless steel)
Grips: Textured composition
Sights: 3-dot system
Misc: Black or stainless finish available
Price: \$740 to \$799



PARA-ORDNANCE P12

Caliber: 45 ACP
Capacity: 10 rounds
Barrel Length: 3.5"
Weight: 26 ounces (alloy) or 34 ounces (stainless steel)
Grips: Black plastic
Sights: Low mount rear, dovetailed front
Misc: Stainless or black finishes available; steel or alloy frames; high capacity magazines available
Price: \$740 to \$799



PARA-ORDNANCE P13

Caliber: 45 ACP
Capacity: 10 rounds
Barrel Length: 4.25"
Weight: 28 ounces (alloy) or 36 ounces (stainless steel)
Grips: Black plastic
Sights: Fixed rear, blade front (3-dot system)
Misc: Alloy, steel or stainless frame; black or stainless finish; high capacity magazines available
Price: \$740 to \$799



PARA-ORDNANCE P14

Caliber: 45 ACP
Capacity: 10 rounds
Barrel Length: 5"
Weight: 31 ounces (alloy) or 40 ounces (stainless steel)
Grips: Black plastic
Sights: Adjustable rear, dovetailed front
Misc: Alloy, stainless or steel frame; black, duotone or stainless finish; high capacity magazines available
Price: \$740 to \$799



PARA-ORDNANCE P16

Caliber: 40 S&W
Capacity: 10 rounds
Barrel Length: 5"
Weight: 40 ounces
Grips: Black plastic
Sights: Adjustable rear, dovetailed front
Misc: Steel or stainless frame; high capacity magazines available; black or stainless finish
Price: \$750 (black) to \$799 (stainless)



PARA-ORDNANCE 7.45 LDA

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 5"
Weight: 39 ounces
Grips: Checkered rosewood standard, black optional
Sights: Adjustable rear
Misc: Available with black carbon steel or stainless frame
Price: \$775



PARA-ORDNANCE 14 LDA, 16 LDA & 18 LDA

Caliber: 45 ACP (14 LDA), 40 S&W (16 LDA) or 9mm (18 LDA)
Capacity: 10 rounds (18 rounds in 18 LDA)
Barrel Length: 5"
Weight: 40 ounces
Grips: Black plastic
Sights: Fixed
Misc: Double action, steel frame and stainless or black finish; Model 18 LDA for law enforcement or military only; high capacity magazines available
Price: \$775 to \$824



PARDINI ARMS MOD SP STANDARD PISTOL & MOD HP CENTERFIRE PISTOL

Caliber: 22 LR (SP) or 32 WC (HP)
Capacity: 5 rounds
Barrel Length: 4.75"
Weight: 38.9 ounces
Grips: Adjustable; stippled walnut match type
Sights: Fully adjustable rear, interchangeable blade front
Misc: Adjustable match trigger; imported by Nygord Precision Products
Price: \$950 (SP) to \$1,050 (FHP)



PARDINI ARMS MOD K22 FREE PISTOL

Caliber: 22 LR
Capacity: 1 round
Barrel Length: 9.75"
Weight: 34.6 ounces
Grips: Wraparound walnut; adjustable match type
Sights: Interchangeable post front, fully adjustable match open rear
Misc: Imported by Nygord Precision Products
Price: \$1,295



PHOENIX ARMS HP 22/25

Caliber: 22 LR (HP 22) or 25 ACP (HP 25)
Capacity: 10 rounds
Barrel Length: 3"
Weight: 20 ounces
Grips: Checkered composition
Sights: Adjustable rear, blade front
Misc: Available in satin nickel or polished blue finish
Price: \$116



ROSSI MODEL 851

Caliber: 38 Special
Capacity: 6 rounds
Barrel Length: 4"
Weight: 27.5 ounces
Grips: Rubber
Sights: Adjustable
Misc: Double action, blue steel, and + P rated, integral key lock action
Price: \$298



ROSSI MODEL 971

Caliber: 357 Mag.
Capacity: 6 rounds
Barrel Length: 4" or 6", heavy
Weight: 36 ounces
Grips: Rubber
Sights: Adjustable
Misc: Double action, stainless or blue steel, + P rated, integral key lock action
Price: \$345 (Blue) to \$391 (Stainless)



RPM XL SINGLE SHOT PISTOL

Caliber: Available in a wide variety of calibers from 22 LR to 45-70
Capacity: 1 round
Barrel Length: 8", 10.75", 12", 14" and 15"
Weight: 60 ounces
Grips: Smooth Goncalo Alves with thumb and heel rests
Sights: Hooded front with interchangeable post or Patridge; ISGW rear adjustable.
Price: \$2,000



RUGER BISLEY

Caliber: 357 Mag., 44 Mag., 45 Colt
Capacity: 6 rounds
Barrel Length: 7.5"
Weight: 48 ounces
Grips: Rosewood with Ruger medallion
Sights: Fixed or adjustable rear, fixed front
Misc: Unfluted cylinder and roll engraving
Price: \$510



RUGER BISLEY SMALL FRAME

Caliber: 22 LR
Capacity: 6 rounds
Barrel Length: 6.5"
Weight: 41 ounces
Grips: Rosewood with Ruger medallion
Sights: Fixed rear, fixed front
Price: \$402



RUGER BISLEY-VAQUERO

Caliber: 44 Mag. or 45 Long Colt
Capacity: 6 rounds
Barrel Length: 5.5" and 4.625"
Weight: 39 to 40 ounces
Grips: Smooth rosewood with Ruger medallion
Sights: Notch rear, blade front, fixed
Price: \$510 (blue) to \$529 (stainless)



RUGER BLACKHAWK

Caliber: 30 Carbine, 357 Mag., 41 Mag or 45 Colt
Capacity: 6 rounds
Barrel Length: 4.625", 6.5" or 7.5" (30 Carbine and 45 Colt only)
Weight: 38 ounces to 44 ounces
Grips: American walnut with Ruger medallion
Sights: Ramp front, micro-click adjustable rear
Price: \$415 to \$505 (depending on caliber and finish)



RUGER SUPER BLACKHAWK

Caliber: 44 Mag.
Capacity: 6 rounds
Barrel Length: 4.625", 5.5", 7.5", 10.5"
Weight: 45 to 51 ounces
Grips: American walnut
Sights: Ramp front, micro-click adjustable rear
Price: \$489 (blue) to \$519 (stainless)



RUGER NEW BEARCAT

Caliber: 22 LR
Capacity: 6 rounds
Barrel Length: 4"
Weight: 24 ounces
Grips: Rosewood
Sights: Blade front, fixed notch rear
Price: \$359



RUGER REDHAWK

Caliber: 44 Mag. and 45 Long Colt
Capacity: 6 rounds
Barrel Length: 5.5" or 7.5"
Weight: 49 to 54 ounces
Grips: Goncalo Alves, square butt
Sights: Adjustable rear, Patridge-type front
Price: \$560 (Blue) to \$650 (Stainless, model KRH-45 R with 1" scope rings)



RUGER SUPER REDHAWK

Caliber: 44 Mag., 454 Casull, 480 Ruger
Capacity: 6 rounds
Barrel Length: 7.5" or 9.5"
Weight: 53 and 58 ounces
Grips: Santoprene with Goncalo Alves insert
Sights: Adjustable rear; interchangeable front inserts
Misc: Heavy extended frame, stainless steel
Price: \$650 (Stainless) to \$745 (Stainless Target Gray)



RUGER SUPER SINGLE-SIX

Caliber: 22 LR or 22 WMR (available with extra cylinder)
Capacity: 6 rounds
Barrel Length: 4.625", 5.5", 6.5" or 9.5"
Weight: 32 to 35 ounces
Grips: Rosewood with Ruger medallion
Sights: Adjustable rear, Patridge front
Price: \$369 (blue) to \$449 (High Gloss Stainless)



RUGER VAQUERO

Caliber: 357 Mag., 44-40, 44 Mag. or 45 Colt
Capacity: 6 rounds
Barrel Length: 4.625", 5.5" or 7.5"
Weight: 39 to 41 ounces
Grips: Smooth rosewood with Ruger medallion
Sights: Blade front, fixed rear
Price: \$510



RUGER GP-100

Caliber: 357 Mag. or 38 Special
Capacity: 6 rounds
Barrel Length: 3", 4" or 6" (heavy barrels available)
Weight: 35 to 43 ounces
Grips: Santoprene with Goncalo Alves inserts
Sights: Fixed, adjustable on 4" heavy, 6", and 6" heavy
Price: \$465 to \$515



RUGER SP-101

Caliber: 22 LR, 32 Mag., 38 Special +P or 357 Mag.
Capacity: 5 rounds (38 Special, 357) or 6 rounds (22 LR & 32 Mag.)
Barrel Length: 2.25", 3.1" or 4"
Weight: 34 ounces
Grips: Santoprene cushioned grip with Xenoy inserts
Sights: Fixed; adjustable rear on 22 LR and 32 Mag.
Misc: Stainless steel small frame; spurless hammer, DAO version introduced in 1993
Price: \$458



RUGER 22/45

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 4", 4.75" or 5.5" (bull bbl.)
Weight: 28 to 35 ounces
Grips: Zytel
Sights: Adjustable or fixed rear, blade front
Misc: All blue or stainless steel with fixed or adjustable sights
Price: \$275 to \$359



RUGER MARK II STANDARD

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 4.75" or 6"
Weight: 35 to 37 ounces
Grips: Checkered plastic
Sights: Fixed, wide blade front, square notch rear adjustable
Price: \$278 (blue) to \$364 (stainless)



RUGER MARK II TARGET

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 6.9"
Weight: 42 ounces
Grips: Checkered hard plastic
Sights: Blade front, micro-click rear
Price: \$336 (blue) to \$420 (stainless)



RUGER MARK II GOVERNMENT TARGET

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 6.9"
Weight: 46 ounces
Grips: Checkered hard plastic
Sights: High profile adjustable rear, fixed front sights
Price: \$405 (blue) to \$485 (stainless)



RUGER STAINLESS GOVERNMENT TARGET SLAB SIDE

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 6.9"
Weight: 45 ounces
Grips: Checkered walnut with thumb rest
Sights: Open sight; drilled and tapped for scope mounts
Price: \$499



RUGER P-89

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 4.5"
Weight: 32 ounces
Grips: Grooved black Xenoy composition
Sights: Square post front, square notch rear adjustable
Misc: Alloy frame, black matte finish; DAO, decocker and safety models available in blued or stainless steel
Price: \$452 (blue) to \$499 (stainless)



RUGER P-90

Caliber: 45 ACP
Capacity: 8 rounds
Barrel Length: 4.5"
Weight: 33.5 ounces
Grips: Grooved black Xenoy composition
Sights: Square post front, square notch rear adjustable
Misc: Stainless steel, decocking or manual safety
Price: \$499 (blue) to \$539 (stainless)



RUGER P-93

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 3.9"
Weight: 31 ounces
Grips: Synthetic, grooved
Sights: Post front, adjustable rear
Misc: Available in decock-only or DAO models
Price: \$467 to \$546



RUGER P-94

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 4.25"
Weight: 33 to 34 ounces
Grips: Synthetic, grooved
Sights: Post front, adjustable rear
Misc: Available in decock-only, DAO or manual safety models (blued or stainless steel)
Price: \$467 to \$546



RUGER P-95

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 3.9"
Weight: 27 ounces
Grips: Synthetic, grooved
Sights: Post front, adjustable rear
Misc: Available in decock DAO models and safety models
Price: \$407 to \$453



SAVAGE STRIKER 500 SERIES

Caliber: 22-250 Rem., 243 Win., 308 Win., 223 Rem., 7mm-08 Rem.
Capacity: Internal box with 2 round capacity
Barrel Length: 14"
Length: 22.5"
Weight: Approx. 5 pounds
Misc: Left-hand bolt, right hand ejection, mid-grip, ambidextrous composite stock with grooved forend, dual pillar bedding, free-floated button rifled barrel; available in blued, stainless and stainless steel with adjustable muzzle brake (AMB)
Price: \$400 (blued), \$450 (stainless), \$500 (stainless with AMB)



SAVAGE STRIKER 516 SERIES

Caliber: 223 Rem., 22-250 Rem., 243 Win., 7mm-08 Rem., 308 Win.
Capacity: 2 rounds
Barrel Length: 12" barrel and 2" Adjustable muzzle brake
Weight: 5.5, 5.75 pounds
Grips: Synthetic or wood
Sights: Drilled and tapped for scope mounts
Misc: Stainless barreled action, left-hand bolt, right-side action
Price: N/A



SEECAMP LWS 32

Caliber: 32 ACP
Capacity: 6 round magazine
Barrel Length: 2"
Weight: 10.5 ounces
Grips: Glass-filled nylon
Sights: Smooth, no-slag, contoured slide and barrel
Price: \$425



SIG SAUER P-210

Caliber: 9mm
Capacity: 8 rounds
Barrel Length: 4.8", 5.9"
Weight: 32, 33.9 and 37 ounces
Grips: Wood
Sights: Target
Misc: Blued finish
Price: N/A



SIG SAUER P-220, P-220ST

Caliber: 45 ACP
Capacity: 7 rounds or 8 rounds
Barrel Length: 4.4"
Weight: 27.8 ounces
Grips: Checkered black plastic
Sights: Drift adjustable rear, blade front
Misc: Blue finish or ILAFLON finish and night sights available; imported by SIG Arms Inc.
Price: \$810 (blue) to \$969 (stainless and night sights)



SIG SAUER P-226 & P-229

Caliber: 9mm, 40 S&W or 357 SIG
Capacity: 10 rounds
Barrel Length: 4.4" (226); 3.9" (229)
Weight: 28.3 or 30.6 ounces (226); 28.1 or 29.5 ounces (229)
Grips: Plastic
Sights: Adjustable rear, blade front
Misc: Double action only model available; blue, two-tone or Nitron finish available; imported by SIG Arms Inc.
Price: \$851 to \$994 (Nickel/Nitron, DAO and night sights)



SIG SAUER P-232

Caliber: 380 ACP
Capacity: 7 rounds (380)
Barrel Length: 3.6"
Weight: 16.2 ounces (20.8 ounces in stainless steel)
Grips: Plastic (Hogue on selected models)
Sights: Adjustable rear, blade front
Misc: Blue, stainless, two-tone finish available; imported by SIG Arms Inc.
Price: \$518 (blue) to \$579 (two-tone, night sights)



SMITH & WESSON AIRLITE TI

Caliber: 32 H&R Mag. or 38 S&W Special
Capacity: 5 rounds (38 S&W) or 6 rounds (32 H&R)
Barrel Length: 1.9"
Weight: 11 to 12 ounces
Grips: Uncle Mike's Boot or Dymondwood Boot
Sights: Pinned black serrated ramp front, fixed notch rear
Misc: Titanium cylinder; aluminum alloy frame, barrel shroud and yoke; stainless steel barrel liner
Price: \$682 to \$699



SMITH & WESSON MODEL 10/64

Caliber: 38 Special
Capacity: 6 rounds
Barrel Length: 2", 3" or 4" (Model 10 in 4" only)
Weight: 30.5 to 36 ounces
Grips: Uncle Mike's Combat
Sights: Fixed
Misc: Finishes: Model 10 (blue); Model 64 (stainless)
Price: \$420 (Model 10) to \$454 (Model 64)



SMITH & WESSON MODEL 65LS

Caliber: 357 Mag.
Capacity: 6 rounds
Barrel Length: 3"
Weight: 31 ounces
Grips: Rosewood, round butt
Sights: Serrated ramp front, fixed notch rear
Misc: Stainless with frosted finish; smooth combat trigger; service hammer
Price: \$539



SMITH & WESSON MODEL 66

Caliber: 357 Mag. and 38 Special
Capacity: 6 rounds
Barrel Length: 2.5", 4" or 6"
Weight: 36 ounces
Grips: Soft rubber
Sights: Red ramp front, micro-click rear adjustable
Misc: Satin stainless finish
Price: \$545 (2.5") to \$551 (4", 6")



SMITH & WESSON MODEL 22A/22S

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 5.5" Bull
Weight: 38.5 ounces
Grips: Dymondwood or rubber
Sights: Patridge front, adjustable rear
Misc: Matte black finish, 22S has aluminum frame
Price: \$320 (22A) to \$379 (22S)



SMITH & WESSON MODEL 629

Caliber: 44 Mag. or 44 S&W Special
Capacity: 6 rounds
Barrel Length: 5", 6.5" or 8.4"
Weight: 47 to 51 ounces
Grips: Hogue rubber combat or wood combat
Sights: Adjustable rear, interchangeable front
Misc: Stainless finish
Price: \$670 to \$888 (Classic DX)



SMITH & WESSON MODEL 36/37/60

Caliber: 38 Special +P or 357 Mag. (Model 60 only)
Capacity: 5 rounds
Barrel Length: 1.9" (Model 36 & 37), 2.13" or 3" (Model 60)
Weight: 15 to 24 ounces
Grips: Soft rubber, rosewood or Uncle Mike's Combat
Sights: Serrated ramp, fixed notch
Misc: Finishes: Model 36 (blue steel); Model 37 (blue aluminum alloy) and Model 60 (stainless steel)
Price: \$406 to \$536



SMITH & WESSON MODEL 38/649

Caliber: 38 Special or 357 Mag.
Capacity: 5 rounds
Barrel Length: 1.9" to 2.13"
Weight: 14.5 (Model 38) to 20 (Model 649) ounces
Grips: Uncle Mike's Combat
Sights: Pinned black serrated ramp front, fixed notch rear
Misc: Finishes: Model 38 (blue) and Model 649 (stainless)
Price: \$462 to \$502



SMITH & WESSON MODEL 60LS LADYSMITH

Caliber: 38 Special or 357 Mag.
Capacity: 5 rounds
Barrel Length: 1.9"
Weight: 21.5 ounces
Grips: Rosewood
Sights: Fixed
Misc: Stainless finish
Price: \$539



SMITH & WESSON MODEL 317 AIRLITE

Caliber: 22 LR
Capacity: 8 rounds
Barrel Length: 1.9" to 3"
Weight: 10.5 (rubber grip) to 12 ounces
Grips: Dymondwood Boot or Uncle Mike's Boot
Sights: Front serrated ramp, rear fixed notch
Misc: Clear Cote Aluminum finish; Airlite LadySmith also available
Price: \$508 to \$568



SMITH & WESSON MODEL 337 CHIEFS SPECIAL AIRLITE TI

Caliber: 38 S&W Special
Capacity: 5 rounds
Barrel Length: 1.875"
Weight: 11.2 ounces
Grips: Uncle Mike's Boot; Dymondwood Boot
Sights: Black serrated front; fixed notch rear
Misc: Aluminum alloy frame, barrel shroud and yoke; titanium cylinder; stainless steel barrel liner
Price: \$682



SMITH & WESSON MODEL 442/640/642

Caliber: 357 Mag. or 38 S&W Special +P (Model 442 & 642 in 38 Special +P only)
Capacity: 5 rounds
Barrel Length: 1.9" to 1.25"
Weight: 15 to 25 ounces
Grips: Uncle Mike's Boot or Uncle Mike's Combat
Sights: Serrated ramp, fixed notch
Misc: Finishes: Model 442 (blue); Model 640 & 642 (stainless); Concealed hammer; Full lug barrel on 357 Mag.; LadySmith version also available
Price: \$505



SMITH & WESSON MODEL 686

Caliber: 357 Mag.
Capacity: 7 rounds
Barrel Length: 4", 6" or 8.4" (Model 686 also comes in a 2.5" barrel)
Weight: 34.5 ounces
Grips: Hogue rubber
Sights: Adjustable rear, red ramp front
Price: \$534 to \$550



SMITH & WESSON MODEL 617

Caliber: 22 LR
Capacity: 6 to 10 rounds
Barrel Length: 4", 6" or 8.4"
Weight: 42 ounces
Grips: Hogue rubber
Sights: Adjustable/black rear, pinned Patridge front
Misc: Stainless steel with satin finish
Price: \$524 to \$578



SMITH & WESSON MODEL 625

Caliber: 45 ACP
Capacity: 6 rounds
Barrel Length: 5"
Weight: 46 ounces
Grips: Hogue rubber combat, wood optional
Sights: Adjustable/black rear, Patridge front
Price: \$636



SMITH & WESSON MODEL 629 CLASSIC & 629 CLASSIC DX

Caliber: 44 Mag. or 44 Special
Capacity: 6 rounds
Barrel Length: 4", 5", 6", 6.5" or 8.4"
Weight: 41.5 to 54.5 ounces
Grips: Hogue rubber combat or wood combat
Sights: Adjustable rear; interchangeable, red ramp or Patridge front
Misc: Stainless finish; chamfered cylinder; full lug barrel and drilled and tapped for scope mount; Classic DX model features five interchangeable front sights
Price: \$670 (Model 629) to \$888 (Classic DX)



SMITH & WESSON MODEL 657

Caliber: 41 Mag.
Capacity: 6 rounds
Barrel Length: 6"
Weight: 48 ounces
Grips: Hogue rubber combat
Sights: Adjustable rear, pinned black ramp front
Misc: Stainless finish
Price: \$564



SMITH & WESSON MODEL 686

Caliber: 357 Mag.
Capacity: 6 rounds
Barrel Length: 2.5", 4", 6", 8.4"
Weight: 41 to 46 ounces
Grips: Hogue black rubber
Sights: Adjustable rear blade, pinned fixed front
Misc: Stainless steel with full lug ported barrel
Price: \$514 to \$564



SMITH & WESSON CS9, CS40 & CS45

Caliber: 9mm (CS9), 40 S&W (CS40) or 45 ACP (CS45)
Capacity: 6 rounds (CS45) or 7 rounds (CS9 & CS40)
Barrel Length: 3" or 3.25"
Weight: 20.75 to 24 ounces
Grips: Hogue wraparound rubber
Sights: 2-dot white rear, post with white dot front
Price: \$648 (CS9) to \$683 (CS40 & CS45)



SMITH & WESSON MODEL 41

Caliber: 22 LR
Capacity: 10 rounds
Barrel Length: 5.5" or 7"
Weight: 44 ounces
Grips: Checkered walnut with modified thumbrest
Sights: Adjustable rear, Patridge front
Price: \$801



SMITH & WESSON MODEL 410

Caliber: 40 S&W
Capacity: 10 rounds
Barrel Length: 4"
Weight: 28.5 ounces
Grips: One-piece Xenoy wraparound with straight backstrap
Sights: Post front, fixed 2-dot rear
Misc: Blue carbon steel slide and alloy frame
Price: \$563



SMITH & WESSON MODEL 457

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 3.75"
Weight: 29 ounces
Grips: One-piece Xenoy wraparound with straight backstrap
Sights: Post front, fixed 3-dot rear
Misc: Matte blue carbon steel slide and alloy frame in blue finish
Price: \$563



SMITH & WESSON MODEL 908

Caliber: 9mm
Capacity: 8 rounds
Barrel Length: 3.5"
Weight: 26 ounces
Grips: One-piece Xenoy wraparound with straight backstrap
Sights: Post front, fixed 3-dot rear
Price: \$509



SMITH & WESSON MODEL 910

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 4"
Weight: 28 ounces
Grips: One-piece Xenoy wraparound with straight backstrap
Sights: Post front with white dot, fixed 2-dot rear
Price: \$509



SMITH & WESSON MODEL 3913

Caliber: 9mm
Capacity: 8 rounds
Barrel Length: 3.5"
Weight: 26 ounces
Grips: One-piece Delrin wraparound with straight backstrap; textured surface
Sights: Post white dot front, Novak Lo Mount Carry 2-dot rear
Misc: Stainless finish and ambidextrous safety, extra magazine included
Price: \$662 to \$724



SMITH & WESSON MODEL 3913LS LADYSMITH

Caliber: 9mm
Capacity: 8 rounds
Barrel Length: 3.5"
Weight: 26 ounces
Grips: Straight backstrap gray; ergonomically correct for a woman's hand
Sights: Novak Lo Mount Carry 2-dot rear, white dot front
Misc: Stainless finish and single side safety; extra magazine included
Price: \$744



SMITH & WESSON MODEL 4006

Caliber: 40 S&W
Capacity: 10 rounds
Barrel Length: 4"
Weight: 38.5 ounces
Grips: Xenoy wraparound with checkered panels and straight backstrap
Sights: Adjustable 2-dot rear, white dot front
Misc: Stainless slide and alloy frame; ambidextrous safety; tritium night sights available
Price: \$864 to \$991



SMITH & WESSON MODEL 4046 DAO

Caliber: 40 S&W
Capacity: 10 rounds
Barrel Length: 4"
Weight: 39.5 ounces
Grips: Straight backstrap
Sights: White dot front, Novak Lo Mount Carry 2-dot
Misc: Stainless steel slide, slightly bobbed hammer and double-action only
Price: \$864 to \$991



SMITH & WESSON MODEL 5906 TSW

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 4"
Weight: 37.5 ounces
Grips: Curved backstrap
Sights: Post white dot front, Novak Lo Mount Carry or adjustable 2-dot rear
Misc: Stainless slide and frame; ambidextrous safety; traditional DA
Price: \$861



SMITH & WESSON MODEL 5946

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 4"
Weight: 37.5 ounces
Grips: Curved backstrap
Sights: Novak Lo Mount Carry or adjustable 2-dot rear, post white dot front
Misc: Stainless slide and frame and .260" serrated hammer; DAO
Price: \$822



SMITH & WESSON SIGMA SW380

Caliber: 380 ACP
Capacity: 6 rounds
Barrel Length: 3"
Weight: 14 ounces
Grips: Integral black polymer
Sights: Fixed groove in slide
Price: \$328



SMITH & WESSON ENHANCED SIGMA SERIES

Caliber: 9mm or 40 S&W
Capacity: 10 rounds
Barrel Length: 4"
Weight: 24.5 to 24.75 ounces
Grips: Integral black polymer
Sights: White or tritium dot front, fixed or tritium 2-dot rear
Misc: High capacity magazines available for law enforcement or export orders; unique, recontoured angle grip; integral accessory grooves for mounting lights, laser sights, etc.; melonite or stainless finish
Price: \$447 to \$657



SPRINGFIELD CHAMPION 1911-A1

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 4"
Weight: 28 to 34 ounces
Grips: Checkered walnut
Sights: Novak night sights
Misc: Pistol comes "loaded" with value added features; available in a Parkerized, stainless or matte finish and also in a light weight
Price: \$817 (Parkerized); \$867 (lightweight matte); \$870 (stainless)



SPRINGFIELD COMPACT LIGHTWEIGHT 1911-A1

Caliber: 45 ACP
Capacity: 6 rounds
Barrel Length: 4"
Weight: 26 ounces
Grips: Checkered walnut
Sights: Novak night sights
Misc: Pistol comes "loaded" with value added features; available in a stainless or matte finish
Price: \$826 to \$900



SPRINGFIELD FULL-SIZE 1911-A1

Caliber: 9mm, 45 ACP, 40 S&W
Capacity: 9 rounds (9 mm), 7 rounds (45 ACP) or 8 rounds (40 S&W)
Barrel Length: 5"
Weight: 38 ounces
Grips: Checkered walnut
Sights: Novak patented low mount or fully adjustable rear
Misc: Pistol comes "loaded" with value added features; available in stainless, blued, Parkerized or matte finish and in a V-12 or light weight model
Price: \$770 to \$878



SPRINGFIELD LONG SLIDE 1911-A1

Caliber: 45 ACP or 45 ACP Super/45 ACP
Capacity: 7 rounds
Barrel Length: 6"
Weight: 41 ounces
Grips: Checkered walnut
Sights: Fully adjustable target
Misc: Pistol comes "loaded" with value added features; comes with a stainless finish and is available in a Trophy Match or V-16 model
Price: \$1,002 to \$1,399 (Trophy Match)



SPRINGFIELD MIL-SPEC 1911-A1

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 3.5" (Ultra Compact), 5"
Weight: 32 ounces (Ultra Compact) to 35.6 ounces
Grips: Checkered black plastic
Sights: 3-dot Hi-Viz Fixed Combat
Misc: Pistol comes "loaded" with value added features; available in a Parkerized finish
Price: \$559 to \$682



SPRINGFIELD TROPHY MATCH 1911-A1

Caliber: 45 ACP
Capacity: 7 rounds (8 rounds in Armory Kote model)
Barrel Length: 5"
Weight: 38 ounces
Grips: Checkered walnut
Sights: Fully adjustable target
Misc: Pistol comes "loaded" with value added features; available in blued or stainless finish and in a high capacity or long slide model
Price: \$1,115 to \$1,225



SPRINGFIELD ULTRA-COMPACT 1911-A1

Caliber: 9mm or 45 ACP
Capacity: 6 rounds (8 rounds in 9mm model)
Barrel Length: 3.5"
Weight: 25 to 32 ounces
Grips: Plastic
Sights: Novak patented low mount or Novak night sights
Misc: Pistol comes "loaded" with value added features; available in Parkerized, stainless, bi-tone or matte finish and in V-10, bi-tone or stainless steel models
Price: \$817 to \$884



SPRINGFIELD FULL-SIZE HIGH CAPACITY

Caliber: 45 ACP
Capacity: 10 rounds (13 rounds available to law enforcement)
Barrel Length: 5"
Weight: 38 ounces
Grips: Checkered black plastic
Sights: Novak patented low mount
Misc: Pistol comes Parkerized
Price: \$807



SPRINGFIELD TACTICAL RESPONSE PISTOL TRP FULL-SIZE & TRP OPERATOR MODEL

Caliber: 45 ACP
Capacity: 7 rounds
Barrel Length: 5"
Weight: 37 ounces
Grips: Checkered walnut
Sights: Novak night sights
Misc: Pistol comes "loaded" with value added features; available in Armory Kote, or stainless finish; TRP-PRO MODEL is the FBI's pistol for their SWAT Hostage Rescue Team
Price: \$1,265 to \$1,395



SPRINGFIELD ULTRA COMPACT HIGH CAPACITY

Caliber: 45 ACP
Capacity: 10 rounds (12 rounds available to law enforcement)
Barrel Length: 3.5"
Weight: 33 ounces
Grips: Checkered black plastic
Sights: Novak patented low mount
Misc: Pistol comes Parkerized
Price: \$870



STEYR M-SERIES

Caliber: 40 S&W, 9X19 or 357 SIG
Capacity: 10 rounds
Barrel Length: 4"
Weight: 28 ounces
Grips: Advanced ultra-rigid synthetic
Sights: Triangle/trapezoid sighting system
Misc: Three user selectable safety conditions, integrated limited access lock with key, reset-action trigger system and true direct loaded chamber indicator
Price: \$610



STEYR S-SERIES

Caliber: 40 S&W; 9x19
Capacity: 10 rounds
Barrel Length: 3.58"
Weight: 22.5 ounces
Grips: Advanced ultra-rigid synthetic
Sights: Triangle/trapezoid sighting system
Misc: Three user selectable safety conditions; visual/felt indicator
Price: \$610



TAURUS MODEL 44

Caliber: 44 Mag.
Capacity: 6 rounds
Barrel Length: 4", 6.5" or 8.4"
Weight: 45 to 57 ounces
Grips: Soft black rubber
Sights: Micro-click adjustable rear; serrated ramp front
Misc: Features include a compensated barrel; a heavy, solid rib on 4" or vent rib barrel on 6.5" and 8.4"
Price: \$500 to \$575



TAURUS MODEL 82 & 82SS4

Caliber: 38 Special
Capacity: 6 rounds (7 rounds in Model 827)
Barrel Length: 4"
Weight: 36.5 ounces
Grips: Soft black rubber
Sights: Fixed
Misc: Heavy, solid rib barrel and key lock
Price: \$325 (Model 82 blue) to \$375 (Model 82SS4 stainless)



TAURUS MODEL 85 & 731

Caliber: 38 Special and 32 Mag. (731)
Capacity: 5 rounds and 6 shots (731)
Barrel Length: 2"
Weight: 17 to 24.5 ounces
Grips: Soft rubber, rosewood, mother of pearl
Sights: Fixed
Misc: Matte, blue or stainless finish; key locks, concealed hammer and Ultra-Lite versions available;
Model 731: 32 H&R Mag., 6 rounds, 2" barrel, weighs 17 ounces with matte stainless steel finish
Price: \$345 to \$445



TAURUS MODEL 94 & 941

Caliber: 22 LR or 22 Mag.
Capacity: 8 or 9 rounds
Barrel Length: 2", 4" or 5"
Weight: 18 to 27.5 ounces
Grips: Soft rubber
Sights: Adjustable
Price: \$325



TAURUS MODEL 445 & 617

Caliber: 44 Special (Model 445 only) or 357 Mag. (Model 617)
Capacity: 5 rounds (Model 445) or 7 rounds (Model 617)
Barrel Length: 2"
Weight: 20 to 28 ounces
Grips: Soft black rubber (617), Ribber (445)
Sights: Fixed
Misc: Options include key locks, ported barrel and concealed hammer; heavy, solid rib barrel on Model 445, also available in titanium
Price: \$345 to \$500



TAURUS MODEL 605 & 817

Caliber: 357 Mag. (Model 605) or 38 Special (Model 817)
Capacity: 5 rounds (Model 605) or 7 rounds (Model 817)
Barrel Length: 2"
Weight: 21 to 24 ounces
Grips: Soft rubber
Sights: Fixed
Misc: Available with ported barrel, concealed hammer, key lock and an Ultra-Lite version; comes in a blue, matte or stainless finish
Price: \$345 to \$440



TAURUS MODEL 608

Caliber: 357 Mag.
Capacity: 8 rounds
Barrel Length: 4", 6.5" or 8.4"
Weight: 44 to 56 ounces
Grips: Soft rubber
Sights: Adjustable
Misc: Available with ported barrel with solid or vented ribs; in a bright blue or matte stainless finish
Price: \$445 to \$525



TAURUS PT-22 & PT-25

Caliber: 22 LR (PT-22) or 25 ACP (PT-25)
Capacity: 8 rounds (PT-22) or 9 rounds (PT-25)
Barrel Length: 2.75"
Weight: 12 ounces
Grips: Rosewood, wood or mother of pearl
Sights: Fixed
Misc: Features exclusive tip-up barrel; available in blue with gold trim, nickel or duo-tone finish.
Price: \$190



TAURUS PT92

Caliber: 9mm
Capacity: 10+1 rounds
Barrel Length: 5"
Weight: 34 ounces
Grips: Checkered rubber, rosewood or mother of pearl
Sights: 3-dot fixed
Misc: Ambidextrous 3-position safety
Price: \$575 (blue) to \$670 (polished stainless steel)



TAURUS PT99

Caliber: 9mm
Capacity: 10 rounds
Barrel Length: 5"
Weight: 34 ounces
Grips: Checkered rubber, rosewood or mother of pearl
Sights: 3-dot adjustable
Misc: Ambidextrous 3-position safety
Price: \$575 (blue) to \$670 (polished stainless)



TAURUS PT111 & PT138

Caliber: 9mm (PT111) or 380 (PT138)
Capacity: 10 rounds
Barrel Length: 3.25"
Weight: 18.75 ounces
Grips: Checkered
Sights: 3-dot fixed
Price: \$425 (blue) to \$500 (matte stainless)



TAURUS PT957, PT911, PT938 & PT940

Caliber: 357 Sig (PT957) or 9mm (PT911), 380 ACP (PT938) or 40 (PT940)
Capacity: 10 rounds
Barrel Length: 3.75" (PT938), 3.6" (PT957 and PT940) or 4" (PT911)
Weight: 26.75 to 28 ounces
Grips: Checkered rubber, rosewood or mother of pearl
Sights: 3-dot fixed, night sights available (911, 940)
Misc: 3-position ambidextrous safety; PT957 is ported
Price: \$505 to \$600



TAURUS PT945

Caliber: 45 ACP
Capacity: 8 rounds
Barrel Length: 4.25"
Weight: 29.5 ounces
Grips: Checkered rubber, rosewood or mother of pearl
Sights: 3-dot fixed
Misc: 3-position ambidextrous safety
Price: \$525 (blue) to \$655 (polished stainless)



TAURUS RAGING BULL SERIES

Caliber: 454 Casull, 44 Mag. or 45 long Colt
Capacity: 5 or 6 rounds
Barrel Length: 5", 6.5" or 8.4"
Weight: 51 to 63 ounces
Grips: Soft rubber
Sights: Adjustable
Misc: Features a key lock and ported barrel
Price: \$575 (blue) to \$855 (matte stainless)



THOMPSON/CENTER ENCORE

Caliber: 22-250, 223, 7mm-08, 243, 308, 270, 30-'06 or 44 Mag.
Capacity: 1 round
Barrel Length: 12" and 15", tapered round
Weight: 64 to 64.5 ounces
Grips: Walnut with finger grooves, walnut forend
Sights: Blade on ramp front, adjustable rear, or none
Price: \$550 (12") to \$560 (15")



UBERTI 1873 BUCKHORN

Caliber: 44 Mag. or 44 Mag./44-40
Capacity: 6 rounds
Barrel Length: 4.75", 5.5" or 7.5"
Weight: 38 ounces
Grips: One-piece smooth walnut
Sights: Blade front, groove rear; fully adjustable rear available
Price: \$410 (steel backstrap) to \$475 (convertible)



UBERTI 1873 CATTLEMAN

Caliber: 22 LR/22 WMR, 38 Special, 357 Mag., 44 Special, 44-40 or 45 Colt/45 ACP convertible
Capacity: 6 rounds
Barrel Length: 4.75", 5.5" or 7.5", 44-40, 45 Colt also with 3", 3.5" and 4"
Weight: 38 ounces
Grips: One-piece smooth walnut
Sights: Blade front, groove rear; fully adjustable rear available, Bisley model available
Price: \$365 (brass backstrap) to \$435 (steel backstrap)



UBERTI 1875 ARMY OUTLAW

Caliber: 357 Mag., 44-40, 45 Colt or 45 Colt/45 ACP convertible
Capacity: 6 rounds
Barrel Length: 5.5", 7.5"
Weight: 44 ounces
Grips: Smooth walnut
Sights: Blade front, notch rear
Price: \$435 (blue) to \$475 (convertible)



UBERTI 1890 ARMY OUTLAW

Caliber: 357 Mag., 44-40, 45 Colt or 45 Colt/45 ACP convertible
Capacity: 6 rounds
Barrel Length: 5.5" and 7.5"
Weight: 37 ounces
Grips: American walnut
Sights: Blade front, groove rear
Price: \$435 (blue) to \$475 (convertible)



UBERTI ROLLING BLOCK

Caliber: 22 LR, 22 WMR, 22 Hornet, 357 Mag. or 45 Colt
Capacity: 1 round
Barrel Length: 9.9"
Weight: 44 ounces
Grips: Walnut grip and forend
Sights: Fully adjustable rear, blade front
Price: \$410



WALTHER P-5

Caliber: 9mm Para.
Capacity: 8 rounds
Barrel Length: 3.5"
Weight: 28 ounces
Grips: Checkered plastic
Sights: Blade front, adjustable rear
Price: \$900



WALTHER P-88 COMPACT

Caliber: 9mm Para
Capacity: 10 rounds
Barrel Length: 3.93"
Weight: 28 ounces
Grips: Checkered black polymer
Sights: Blade front, drift adjustable rear
Price: \$900



WALTHER P-99 & P-990

Caliber: 9mm Para., 40 S&W or 9mm x 21
Capacity: 10 rounds (12 and 16 available to law enforcement)
Barrel Length: 4"
Weight: 25 ounces
Grips: Polymer
Sights: Blade front, micrometer rear adjustable
Price: \$749 (990) to \$799 (P99)



WALTHER PP

Caliber: 380 ACP
Capacity: 7 rounds
Barrel Length: 3.8"
Weight: 23.5 ounces
Grips: Checkered plastic
Sights: Fixed; white markings
Price: \$999



WALTHER PPK

Caliber: 380 ACP or 32 ACP
Capacity: 6 rounds (380 ACP) or 7 rounds (32 ACP)
Barrel Length: 3.27"
Weight: 21 ounces
Grips: Checkered plastic
Sights: Fixed; white markings
Misc: Blue or stainless finish; made in USA, distributed by Walther USA
Price: \$540



WALTHER PPK/S

Caliber: 380 ACP or 32 ACP
Capacity: 7 rounds (380 ACP) or 8 rounds (32 ACP)
Barrel Length: 3.27"
Weight: 23.5 ounces
Grips: Checkered plastic
Sights: Fixed; white markings
Misc: Blue or stainless finish; made in USA, distributed by Walther USA.
Price: \$540



WALTHER TPH

Caliber: 22 LR or 25 ACP
Capacity: 6 rounds
Barrel Length: 2.25"
Weight: 14 ounces
Grips: Checkered black composition
Sights: Adjustable rear, blade front
Misc: Stainless or blue finish; made in USA, distributed by Walther USA
Price: \$440



WICHITA CLASSIC SILHOUETTE

Caliber: All standard calibers with maximum overall length of 2.80"
Capacity: 1 round
Barrel Length: 11.25"
Weight: 3 lbs. 15 ounces
Grips: AAA American walnut with oil finish, checkered
Sights: Adjustable rear, post front
Price: \$3,450



WICHITA INTERNATIONAL

Caliber: 22 LR, 22 WMR, 32 H&R Mag., 357 Mag., 357 Super Mag., 7R, 7mm Super Mag., 7-30 Waters or 30-30 Win.
Capacity: 1 round
Barrel Length: 10", 10.5" or 14"
Weight: 3.125 pounds
Grips: Walnut
Sights: Adjustable rear, fixed front
Misc: Stainless steel; extra barrels available
Price: \$775 to \$875



WICHITA SILHOUETTE BOLT ACTION

Caliber: All standard calibers with maximum overall length of .280"
Capacity: 1 round
Barrel Length: 14.94"
Weight: 4.5 pounds
Grips: Walnut with oil finish
Sights: Wichita Multi-Range sight system
Price: \$1,800



WILKINSON "SHERRY" AUTO

Caliber: 22 LR
Capacity: 8 rounds
Barrel Length: 2.125"
Weight: 9.25 ounces
Grips: Checkered black plastic
Sights: Fixed, groove
Misc: Blue finish or blue slide and trigger with gold frame available;
Cross-bolt safety locks the sear into the hammer
Price: \$195



WILSON COMBAT KZ-45 TACTICAL CARRY PISTOL

Caliber: 45 ACP
Capacity: 9 rounds (compact), 10 rounds (full-size)
Barrel Length: 4.1" (compact), 5" (full-size)
Weight: 29 ounces (compact), 31 ounces (full-size)
Grips: Checkered plastic
Sights: Tritium Nite-Eyes
Misc: Includes an instructional video, nylon pistol rug and 2 extra magazines
Price: \$1,030 to \$1,130



WILSON CUSTOM PISTOLS

Caliber: 45 ACP
Capacity: 8 rounds
Barrel Length: 5"
Weight: 26.5 to 48 ounces
Grips: Checkered wood
Sights: Lo-Mount adjustable, Tritium Nite-Eyes or Tactical Combat
Misc: Finish varies by version
Price: \$1,199 to \$3,495



BOLT ACTION & SINGLE-SHOT RIMFIRE RIFLES

ANSCHUTZ MATCH 54 SPORTING RIFLES, 1700D SERIES



Caliber:	22 LR
Action:	Match 54 bolt action, 5 round magazine
Barrel:	22" to 24"
Weight:	6.75 to 7.5 pounds
Length:	42.5"
Stock:	European walnut or black fiberglass w/ Monte Carlo comb
Finish:	Blue
Price:	POR
Misc:	Bavarian, Custom and Graphite Custom models available. Meistergrade model features select walnut stock and gold engraved trigger guard. Manufactured in Germany by Anschutz. Imported by AcuSport.

ANSCHUTZ 1827B BIATHLON RIFLES



Caliber:	22 LR
Action:	Super Match 54, w/ Fortner straight pull bolt, 5 round magazine
Barrel:	21.5", designed for subfreezing weather
Weight:	8.5 pounds with sights
Length:	42.5"
Stock:	European walnut
Finish:	Blued or stainless
Price:	\$1,500 to \$2,395 (left-hand with sights)
Misc:	Includes biathlon sights with snow covers, biathlon butthook, adjustable buttplate, nine-way adjustable trigger, adjustable hand-stop rail, and four five-shot clips. Optional sight set. Imported from Germany by Accuracy International, Gunsmithing, Inc.

ANSCHUTZ 1903D INTERMEDIATE MATCH RIFLES



Caliber: 22 LR
Action: Match 64, single shot, grooved receiver
Barrel: 25.5"
Weight: 10.1 pounds
Length: 43.75"
Stock: Walnut-finished hardwood
Finish: Blue
Price: \$720 to \$758 (left-hand)
Misc: Two stage adjustable trigger, adjustable cheekpiece. Imported from Germany by Accuracy International, Gunsmithing, Inc.

ED BROWN MODEL 702, VARMINT



Caliber: 223, 22-250, 220 Swift, 6 BR, 243, 6mm, 308
Barrel: 24" heavy weight or 26" medium weight
Weight: 9 pounds
Stock: Hand bedded fiberglass with recoil pad
Price: \$2,500 and up
Misc: Options include stock color, stainless steel barrel, different contour barrel, additional calibers, Jewel trigger. Features include Ed Brown Custom short single action with steel trigger guard, fully adjustable trigger and 3-position safety.

EAA/WEIHRAUCH HW660 MATCH RIFLE



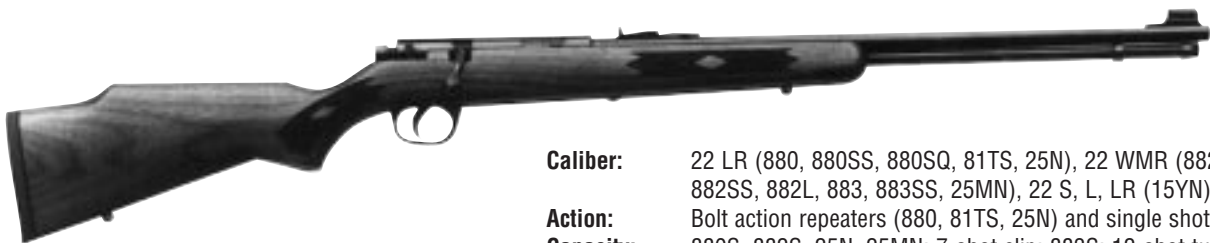
Caliber: 22 LR
Action: Bolt
Barrel: 26"
Weight: 10.7 pounds
Length: 45.33"
Stock: Stippled European walnut or laminate
Finish: Grayed
Price: \$951 to \$998 (laminated stock)
Misc: Two stage adjustable trigger, stippled pistol grip and forend, external thumb safety. Imported from Germany by European American Armory.

KIMBER 22 RIMFIRE RIFLES



Caliber:	22 LR
Action:	All New Bolt Action, 5-round magazine, Mauser claw extractor
Barrel:	22" Sporter, 24" fluted medium (HS), 18" fluted stainless bull (SVT)
Weight:	6.5 to 7.5 pounds
Length:	36.5" to 42.5"
Stock:	American, claro, AAA claro or gray laminate
Finish:	Satin
Price:	\$814 to \$1,560
Misc:	Made in USA, 2-position Model 70-type safety, receiver drilled off-center so firing pin is concentric in bolt, fully adjustable trigger, pillar bedding, free floated match grade barrel.

MARLIN BOLT ACTION RIMFIRE RIFLES



Caliber:	22 LR (880, 880SS, 880SQ, 81TS, 25N), 22 WMR (882, 882SS, 882L, 883, 883SS, 25MN), 22 S, L, LR (15YN)
Action:	Bolt action repeaters (880, 81TS, 25N) and single shot (15YN)
Capacity:	880S, 882S, 25N, 25MN: 7-shot clip; 883S: 12-shot tubular; 81TS: 17-shot tubular
Barrel:	22" Micro-Groove (15YN: 16.25")
Weight:	5.5 to 7 pounds (15YN: 4.25 pounds)
Length:	41" (15YN: 33.25")
Stock:	Press checkered black walnut, walnut or black synthetic (SS, SQ, 81TS)
Finish:	Blue and stainless steel
Price:	\$197 (15YN) to \$312 (880SQ)
Misc:	Micro-Groove barrels, Mar-Shield finish, Wide-Scan ramp front sights with adjustable rear sights.

MARLIN MODEL 882SSV



Caliber:	22 Win. Mag.
Action:	Bolt action, 7-shot clip
Barrel:	Heavy 22" Micro-Groove
Weight:	7 pounds
Length:	41"
Stock:	Monte Carlo black fiberglass-filled synthetic with nickel-plated swivel studs and molded-in checkering
Finish:	Stainless steel
Price:	\$318
Misc:	Stainless steel barrel, receiver, front breech bolt, striker knob and trigger stud. No sights are provided; receiver grooved for scope mounts, 1" ring mounts provided, safety lock included.

MARLIN MODEL 2000L TARGET RIFLE



Caliber:	22 LR
Action:	Bolt action, single shot
Barrel:	22"
Weight:	8 pounds
Length:	41"
Stock:	Black/gray laminated birch
Finish:	Blue
Price:	\$711
Misc:	Features a heavy Micro-Groove® barrel with a match chamber and recessed muzzle, fully adjustable target rear peep sight, front sights with 10 different aperture inserts, two-stage target trigger, red cocking indicator, and an adjustable, serrated rubber buttplate. Also comes with an aluminum forend rail with stop and quick-detachable swivel.

REMINGTON MODEL 40-XRBR KS



Caliber:	22 LR
Action:	Single shot, bolt action
Barrel:	24"
Weight:	9.75 pounds
Length:	40"
Stock:	Kevlar reinforced fiberglass (Remington green)
Finish:	Unblued stainless
Price:	\$1,780
Misc:	Drilled and tapped for scope mounting and or receiver sights. Externally adjustable trigger. From Remington Custom Shop.

RUGER MODEL 77/22 RIFLES



Caliber:	22 LR, 22 Magnum
Action:	Bolt, rotary magazine fed
Barrel:	20"
Weight:	6 pounds
Length:	39.25"
Stock:	Walnut or all-weather synthetic polymer
Finish:	Blue or stainless
Price:	\$525 to \$575
Misc:	Available with or without sights, Ruger rings. The All-Weather model is stainless steel with a synthetic stock. Three position safety and sling swivels.

SAVAGE MARK II-FSS & MARK II-LV



Caliber: 22 LR
Action: Bolt action
Capacity: 10 shot magazine
Barrel: 20.5" (FSS); 21" heavy (LV)
Weight: 5 pounds (FSS); 6.5 pounds (LV)
Length: 39.5" (FSS); 39.75" (LV)
Stock: Graphite/polymer (FSS); Checkered laminated hardwood (LV)
Finish: Stainless (FSS); Machined blue (LV)
Price: \$169 (FSS); \$222 (LV)
Misc: Dovetailed receiver for scope mounting. FSS has bead front sight and adjustable open rear sight. LV is precision button rifled with recessed target style muzzle. Imported from Canada by Savage Arms, Inc.

SPRINGFIELD M6 SCOUT RIFLE



Caliber: 22 LR/410 gauge combo (22 Hornet/410 combo optional)
Action: Single-shot
Barrel: 18.25"
Weight: 36 ounces
Length: 32"
Finish: Parkerized or stainless steel
Price: \$185 (Parkerized) to \$219 (stainless)
Misc: The Scout take-down survival rifle comes in a cardboard box. Features include a special lift-up stock compartment on rifle for storing extra ammunition and a front and rear sight.

LEVER ACTION RIMFIRE RIFLES

BROWNING BL-22 LEVER ACTION RIFLE



Caliber: 22 Short, Long or Long Rifle
Action: Short throw lever
Capacity: 15 (LR), 17 (L) or 22 rounds (S)
Barrel: 20" round tapered
Weight: 5 pounds
Length: 36.75"
Stock: Walnut, two-piece straight grip Western-style
Finish: Blue
Price: Grade I: \$360; Grade II: \$412
Misc: Receiver grooved for tip-off scope mounts, half-cock safety.

MARLIN MODELS 39A LEVER ACTION RIFLE



Caliber:	22 Short, 21 Long or 19 Long Rifle
Action:	Lever, tubular magazine
Barrel:	24" MicroGroove®
Weight:	6.5 pounds
Length:	40"
Stock:	American black walnut with cut checkering
Finish:	MarShield®
Price:	\$525
Misc:	One step take-down, side eject, holds up to 19 LRs, 21 Longs and 26 Shorts. Adjustable sights. Drilled and tapped for mounts.

WINCHESTER MODEL 9422 RIFLES



Caliber:	22 Short, Long and Long Rifle or 22 WMR
Action:	Side eject lever
Capacity:	15 (LR), 17 (L) or 21 (S); Trapper: 11 (LR), 12 (L) or 15 (S)
Barrel:	16.5" (Trapper only) to 20.5"
Weight:	5.5 to 6.25 pounds
Length:	33.125"(Trapper) to 37.125"
Stock:	American walnut or laminated, straight grip
Finish:	Blue
Price:	\$437 to \$488 (Legacy 22 WMR)
Misc:	Receiver grooved for scope mounting, open sights (hooded front).

PUMP ACTION RIMFIRE RIFLES

REMINGTON MODEL 572 BDL DELUXE FIELDMASTER



Caliber:	22 Short, Long, Long Rifle
Action:	Pump, tubular magazine fed (capacity: 15 in LR)
Barrel:	21"
Weight:	5.5 pounds
Length:	40"
Stock:	Walnut Monte Carlo with cut checkering
Finish:	Blue
Price:	\$392
Misc:	Receiver grooved for scope mounts, high gloss stock, and big game sights. Made in U.S.A.

TAURUS MODELS 62 SA & 62 SAC / 72SA & 72 SAC



Caliber:	22 LR, 22 WMR, 22 Mag.
Action:	Pump-action, takedown, tubular magazine
Barrel:	23" round or octagonal (16 $\frac{1}{4}$ " Carbine)
Weight:	5.75 pounds
Length:	39.25"
Stock:	Walnut, straight grip, grooved forend
Finish:	Stainless steel or case-hardened blue
Price:	\$280 to \$295
Misc:	Capacities: 10 (WMR), 14 (LR), 16 (L) or 20 (S). Manufactured in Brazil by Taurus. Bolt mounted firing pin block, Taurus security system in hammer, serrated ramp front & adjustable rear sights.

SEMI-AUTOMATIC RIMFIRE RIFLES

BROWNING SEMI-AUTO 22 RIFLE



Caliber:	22 LR, 11-shot
Action:	Blowback, buttstock fed, bottom eject
Barrel:	19.25"
Weight:	4.75 pounds
Length:	37"
Stock:	Select checkered walnut w/ pistol grip & semi-beavertail forend
Finish:	Blue or gray (gray in Grade VI only)
Price:	\$415 (\$860 Grade VI)
Misc:	Grade VI is extensively engraved and gold-plated. Manufactured in Japan. Imported by Browning.

CALICO MODEL M100FS RIFLE



Caliber:	22 LR
Action:	Blowback, magazine fed
Capacity:	100 round helical magazine
Barrel:	16.25"
Weight:	5 pounds
Length:	36"
Stock:	Glass-filled polymer
Finish:	Black
Price:	\$650
Misc:	Features include a lightweight aluminum frame, ambidextrous safety and easy take-down.

MARLIN MODEL 60 & 60SS RIFLES



Caliber:	22 LR
Action:	Semi-automatic (last shot hold-open)
Capacity:	14-shot tubular magazine
Barrel:	22" round tapered
Weight:	5.5 pounds
Length:	40.5"
Stock:	Press-checked Monte Carlo walnut finished hardwood (60) and Monte Carlo laminated two-tone black/grey hardwood (60SS).
Finish:	Blue or stainless steel
Price:	\$176 to \$281
Misc:	Receiver grooved for scope mounts. Safety lock included.

MARLIN MODELS 795 AND 7000



Caliber:	22 LR
Action:	Semi-automatic self loader, 10-round magazine with last shot bolt hold-open
Barrel:	795: 18" standard w/ 16-groove Micro-Groove 7000: 18" heavy w/ 16-groove Micro-Groove
Weight:	4.5 pounds (795), 5.25 pounds (7000)
Length:	37"
Stock:	Monte Carlo black fiberglass-filled synthetic with molded-in checkering and swivel studs
Price:	\$167 (795), \$236 (7000)
Misc:	Model 795 comes with screw adjustable open rear sight and ramp front sight with brass bead, grooved receiver. Model 7000 comes without sights, includes 1" scope ring mounts.

MARLIN MODELS 70PSS RIFLE



Caliber:	22 LR
Action:	Semi-automatic, side eject, manual hold-open
Capacity:	7-shot magazine
Barrel:	16.25
Weight:	3.25 pounds
Length:	35.25"
Stock:	Monte Carlo black fiberglass-filled synthetic with nickel-plated swivel studs, moulded-in checkering
Finish:	Stainless
Price:	\$288
Misc:	The 70PSS is a take down (removable barrel) model with grooved receivers, adjustable rear sights and ramp front. Safety lock included.

REMINGTON MODEL 552 BDL SPEEDMASTER



Caliber:	22 Short, Long and Long Rifle
Action:	Semi-automatic, tubular magazine fed
Capacity:	20-shot (S), 17-shot (L), 15-shot (LR)
Barrel:	21"
Weight:	5.75 pounds
Length:	40"
Stock:	Walnut
Finish:	Blue
Price:	\$379
Misc:	High gloss finished stock; receiver is grooved for scope mounts and big game sights.

REMINGTON M597 AUTOLOADING RIMFIRE RIFLE



Caliber:	22 LR, 22 Win. Mag.
Action:	Semi-automatic; carbon or stainless steel with alloy receiver
Capacity:	Staggered clip magazine (10-LR, 8-WMR)
Barrel:	20", free floated
Stock:	Synthetic, laminated hardwood
Finish:	Matte black or satin
Price:	\$163 to \$399
Misc:	Pistol grip, beaver-style forend with finger grooves. Unique bolt guidance system of twin steel rails; redesigned trigger; grooved for standard tip-off mounts, drilled and tapped for Weaver-type bases, adjustable open sights. Available in basic 597, 597LSS, 597SS, Magnum, Magnum LS and New Target Grade Models.

RUGER 10/22 RIFLES



Caliber:	22 LR
Action:	Auto-loading
Capacity:	10-shot rotary magazine
Barrel:	18.5" to 20" (Target)
Weight:	5 to 7.5 (Target) pounds
Length:	37.25 to 38.5"
Stock:	American hardwood, walnut (DSP), laminated (Target), composite (P)
Finish:	Blue or stainless
Price:	\$235 to \$649
Misc:	Models available: 10/22RB, 10/22RP, 10/22 DSP Deluxe Sporter, 10/22 RBI International Carbine with full-length International-style stock, 10/22 RBM 22 Mag. with a 9-shot rotary magazine, 10/22 T Target with blued, hammer-forged spiral finished barrel, K10/22 RP "All weather" with black composite stock, K10/22 RBI, K10/22 TNZ with a stainless steel finish and a laminate stock. All models feature sights (except T models) and can receive tip-off scope mounts.

SAVAGE MODEL 64F



Caliber:	22 LR
Action:	Semi-automatic
Capacity:	10-shot clip magazine
Barrel:	20"
Weight:	5.5 pounds
Length:	40"
Stock:	Black synthetic
Finish:	Blue
Price:	\$124
Misc:	Side eject; manual bolt hold open and thumb operated safety; front bead sight and adjustable open rear sight.

THOMPSON/CENTER 22 LR CLASSIC



Caliber:	22LR
Action:	Semi-automatic
Barrel:	22"
Weight:	5.5 pounds
Length:	39.5"
Stock:	Solid American walnut with Monte Carlo satin finish
Finish:	Blued steel
Price:	\$335
Misc:	Adjustable steel rear sight and ramp front. Sling, swivel studs and trigger guard safety lock included.

LEVER ACTION CENTERFIRE RIFLES

BROWNING LIGHTNING BLR



Caliber:	223, 22-250, 243, 7mm-08, 308 Win., Long Action: .30-'06, 270, 7mm Rem. Mag., 300 Win. Mag.
Action:	Lever action, front locking rotary bolt
Capacity:	4-shot detachable magazine
Barrel:	20", 22" (270 and 30-'06) or 24" (7mm Rem. Mag.)
Weight:	6.8 pounds to 7.75 pounds
Length:	39.5" to 42.8"
Stock:	Walnut, pistol grip type stock
Finish:	Blue
Price:	\$600 to \$634
Misc:	All calibers available with open sights.

CIMARRON 1860 HENRY REPLICA



Caliber:	44 WCF, 45 Colt
Action:	Lever
Capacity:	13-shot magazine
Barrel:	Carbine: 22"; Rifle: 24.25"
Weight:	9.5 pounds
Length:	43"
Stock:	European walnut
Finish:	Blue
Price:	\$1,029
Misc:	Original Henry loading system, brass receiver and buttplate.

CIMARRON 1873 WINCHESTER CARBINE REPLICAS



Caliber:	357 Magnum, 32-20, 44 WCF, 45 Colt. 38 WCF, 44 Spl.
Action:	Lever
Barrel:	Carbine: 19"
Weight:	9 pounds
Length:	43"
Stock:	European walnut
Finish:	Blue
Price:	\$949
Misc:	Introduced in 1991.

CIMARRON ARMS 1873 SPORTING MODELS



Caliber:	357 Magnum, 32-20, 44-40, 45 Colt, 38 WCF, 44 Spl.
Action:	Lever
Barrel:	19", 20", 24", 30" Tapered octagon
Weight:	7.5 to 8.5 pounds
Length:	39" to 48"
Stock:	Walnut
Finish:	Color case-hardened/blue
Price:	\$949 to \$1,149
Misc:	All Cimarron 1873 Models feature original markings including caliber markings on barrel and elevator, Model 1873 markings on tang and Kings patent marking on the barrels.

EMF 1860 HENRY RIFLE



Caliber: 44-40, 44 Rimfire
Action: Lever
Barrel: 24.25"
Weight: 9 pounds
Length: 43.75"
Stock: American walnut
Finish: Brass & blue steel
Price: \$875
Misc: First patented by B. Tyler Henry under Oliver Winchester, this is an authentic reproduction. Brass frame and buttplate. Imported by EMF Company, Inc.

EMF MODEL 73 RIFLE & CARBINE



Caliber: 357 Magnum, 44-40, 45 Colt
Action: Lever
Barrel: Carbine: 19"; Rifle: 24"
Weight: 8 pounds
Length: Carbine: 38.25"; Rifle: 43.25"
Stock: European walnut
Finish: Blue on carbine, color case-hardened on rifle
Price: \$850 to \$865

EMF MODEL 1866 YELLOWBOY RIFLE & CARBINE



Caliber: 38 Special, 44-40
Action: Lever action
Barrel: Carbine: 19"; Rifle: 24"
Weight: 9 pounds
Length: 38" to 43"
Stock: European walnut
Finish: Brass frame with blued barrel, lever, hammer and buttplate
Price: \$675 to \$690

EMF MODEL 1892 HARTFORD



Caliber:	45 Colt
Action:	Lever action
Barrel:	24", octagon
Weight:	7.5 pounds
Length:	43"
Stock:	European walnut
Finish:	Blue or case-hardened
Price:	\$590
Misc:	Exact reproduction of the Winchester Model 1892. Imported by EMF.

MARLIN 336C LEVER ACTION CARBINE



Caliber:	30-30 or 35 Remington
Action:	Lever
Capacity:	6-shot tubular magazine
Barrel:	20" Micro-Groove®
Weight:	7 pounds
Length:	38.5"
Stock:	Checkered American black walnut pistol grip stock
Finish:	Mar-Shield®
Price:	\$502
Misc:	Marlin's "no frills" 336AS, similar to the 336, available for \$429.

MARLIN 444 LEVER ACTION SPORTER & 1895 LEVER ACTION RIFLE



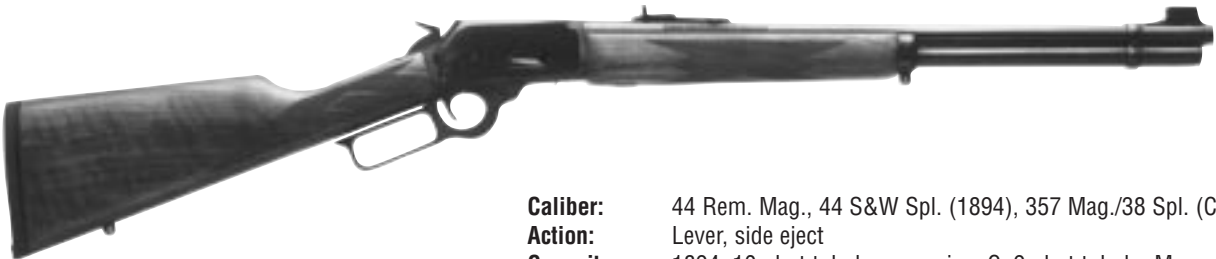
Caliber:	444 Marlin (444) or 45-70 Gov't (1895)
Action:	Lever, side eject
Capacity:	444: 5-shot tubular Mag.; 1895: 4-shot tubular Mag.
Barrel:	444: 22"; 1895: 22"
Weight:	7.5 pounds
Length:	40.5"
Stock:	Checkered American black walnut pistol grip stock
Finish:	Mar-shield
Price:	\$599
Misc:	Receiver tapped for scope mount, offset hammer spur, hammer-block safety and rubber buttpad included.

MARLIN MODEL 1894 COWBOY



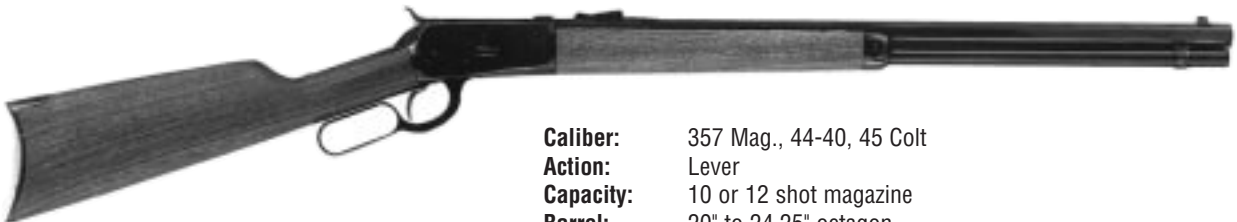
Caliber: 45 Colt, 357 Mag./38 Spl. or 44 Mag/44 Spl.
Action: Lever, side eject
Capacity: 10-shot tubular magazine
Barrel: 24" tapered octagon with deep-cut Ballard-type rifling
Weight: 7.5 pounds
Length: 41.5"
Stock: Straight grip, American black walnut, cut checkering
Finish: Mar-Shield
Price: \$775
Misc: Built to meet the needs of Cowboy Action Shooting with an adjustable Marble semi-buckhorn rear and Marble carbine front sight. Other features include a squared finger lever, straight grip stock, blued steel forend tip. Safety lock included.

MARLIN 1894 & 1894 C MODELS



Caliber: 44 Rem. Mag., 44 S&W Spl. (1894), 357 Mag./38 Spl. (C)
Action: Lever, side eject
Capacity: 1894: 10-shot tubular magazine; C: 9-shot tubular Mag.
Barrel: 1894: 20"; C: 18.5"
Weight: 6 pounds
Length: 1894: 37.5"; C: 36"
Stock: Straight grip, American black walnut, cut checkering
Finish: Mar-shield
Price: \$526
Misc: All receivers drilled and tapped and include an offset hammer spur. Safety lock included.

NAVY ARMS 1892 RIFLES



Caliber: 357 Mag., 44-40, 45 Colt
Action: Lever
Capacity: 10 or 12 shot magazine
Barrel: 20" to 24.25" octagon
Weight: 5.75, 6.25 to 7 pounds
Length: 37.75" to 42"
Stock: American walnut
Finish: Blue, polished brass, color case-hardened or stainless
Price: \$465 to \$535
Misc: Available in 1892 Carbine, 1892 Short Rifle and 1892 Stainless. Imported by Navy Arms.

NAVY ARMS HENRY RIFLES



Caliber: 44-40
Action: Lever
Capacity: 12-shot magazine
Barrel: 16.5" (Trapper), 22" (Carbine), 24.25" (military)
Weight: 7.5 to 9.25 pounds
Length: 41"
Stock: European walnut
Finish: Blue or color case-hardened, polished brass
Price: \$875 to \$945 (Iron Frame Henry)
Misc: Imported from Italy. Comes in Military, Carbine, Trapper or Iron Frame model types. Military Henry also available in .45 Colt.

PUMA MODEL 92



Caliber: 44 Mag., 38 Spl./357 Magl, 45 Colt
Action: Lever
Capacity: 10-shot magazine
Barrel: 20" (Round), 24" (Octagon)
Weight: 5.7 pounds (20"); 6.8 pounds (24")
Stock: Brazilian hardwood
Finish: Blued, stainless, brass or case-hardened
Price: \$374 to \$423 (20"); \$485 to \$514 (24")
Misc: Fixed front and adjustable rear sights, 3-piece Buckhorn sight set available for \$29.95 From Legacy Sports International.

UBERTI HENRY RIFLES



Caliber: 44-40, .45 Colt
Action: Lever
Barrel: 24.25"; Henry Carbine: 22.25"; Henry Trapper: 16" & 18", half-octagon
Weight: 9.125 pounds
Length: 43.75"
Stock: American walnut
Finish: Brass with blue or polished steel
Price: POR
Misc: Color case-hardened frame. Imported by Uberti USA.

WINCHESTER MODEL 94 RIFLES



Caliber:	Trails End: (standard or large loop) 357 Mag., 44 Mag., 44-40 45 Colt; Model 94 Legacy: 30-30, 357 Mag., 44 Mag., 45 Colt; Ranger: 30-30 Win., 30-30; Big Bore: 307 Win. and 356 Win., 444 Marlin; Trapper: 357 Mag., 30-30 44 Mag. 45 Colt; Timber Carbine: 444 Marlin
Action:	Lever, positive side ejection; hammer block safety
Barrel:	16" (Carbines), 20", 24"
Weight:	6 to 6.5 pounds
Length:	37.75" to 38.625"
Stock:	Walnut, laminated hardwood or hardwood (Ranger)
Finish:	Blue
Price:	\$337 to \$548 (Timber Carbine)

SLIDE ACTION CENTERFIRE RIFLES

BROWNING BPR PUMP RIFLE



Caliber:	243, 308 (short action), 270, 30-'06, 7mm Rem. Mag., 300 Win. Mag.
Action:	Pump
Barrel:	22", 24" (Magnum)
Weight:	7.3 pounds
Length:	43"
Stock:	Select walnut with full pistol grip, high gloss finish
Price:	\$718 to \$772
Misc:	Open click adjustable rear sight, gold bead on hooded ramp front. Cross-bolt safety behind trigger. Made in Belgium

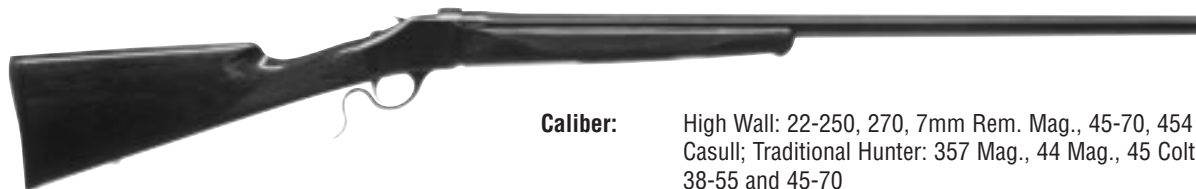
REMINGTON MODEL 7600 PUMP



Caliber:	243, 270, 30-'06, 308
Action:	Pump
Barrel:	22"; Carbine: 18.5"
Weight:	7.25 to 7.5 pounds
Length:	39.125" to 42.625"
Stock:	American walnut or black synthetic
Finish:	Blue
Price:	\$473 to \$576
Misc:	Carbine model is only available in 30-'06. Extra four-shot clip magazines available.

SINGLE-SHOT CENTERFIRE RIFLES

BROWNING 1885 “HIGH WALL” & TRADITIONAL HUNTER



Caliber:	High Wall: 22-250, 270, 7mm Rem. Mag., 45-70, 454 Casull; Traditional Hunter: 357 Mag., 44 Mag., 45 Colt, 30-30, 38-55 and 45-70
Action:	High wall falling block single shot, lever action
Barrel:	28" octagon
Weight:	8.5 to 9 pounds
Length:	43.5"
Stock:	Walnut straight grip, Schnabel forearm, cut checkering, oil finish
Finish:	Blue
Price:	\$987, \$1,208 (Hunter)
Misc:	Receiver on High Wall drilled and tapped for scope mounting. Traditional Hunter: Berger sights adj. for windage and elevation, tang mounted peep; crescent buttplate; drilled and tapped; swivel studs; classic 19th Century rifle.

BROWNING MODEL 1885 “HIGH WALL” BPCR



Caliber:	40-65, 45-70
Action:	High wall falling block single shot, lever action
Barrel:	30" part octagon, part round
Weight:	11 pounds
Length:	46.125"
Stock:	Walnut pistol grip with Schnabel forend
Finish:	Blue and color-cased steel
Price:	\$1,749, \$1,764 Creedmoor
Misc:	Features include a Vernier tang sight with indexed elevation and a built-in spirit level, and interchangeable sight inserts. Adjustable trigger. Imported from Japan by Browning.

BROWNING MODEL 1885 “LOW WALL”



Caliber:	22 Hornet, 223 Rem., 243 Win., 260 Rem.
Action:	Low wall falling block single shot, lever action
Barrel:	24" (octagon barrel with recessed muzzle)
Weight:	6.25 pounds
Length:	39.5"
Stock:	Walnut pistol grip with Schnabel forend
Finish:	Polished blue
Price:	\$987

DAKOTA MODEL 10



Caliber:	Most rimmed or rimless cartridges including Magnums
Action:	Falling block, single shot
Barrel:	23"
Weight:	6.5 pounds
Length:	39"
Stock:	XX Walnut
Finish:	Blue
Price:	\$3,495 to \$3,595 (Magnum)

HARRINGTON & RICHARDSON ULTRA VARMINT & HUNTER RIFLES



Caliber:	Varmint: 223 Rem., 243 Win.; Hunter: 25-06 Rem., 308 Win., 22 WMR; Ultra Comp: 30-06 Sprg., 270 Win.
Barrel:	22" (308 Win. or 223 with bull barrel), 24" (Varmint) or 26"
Weight:	7.5 lbs. (Varmint) to 8 lbs. (Hunter)
Stock:	Cinnamon laminate (Varmint), cinnamon laminate (Hunter), or camo laminate (Ultra Comp)
Finish:	Blued
Price:	\$268 to \$303; .22 is \$135
Misc:	Break open action with side-lever release, positive ejection. Comes with scope mount, Monte Carlo type stock.

NAVY ARMS 1874 SHARPS HEAVY BUFFALO RIFLE



Caliber:	45-70
Action:	Sharps falling block single shot
Barrel:	28" heavy octagon
Weight:	10 pounds
Length:	46"
Stock:	Walnut, checkered grip and forend
Finish:	Color case-hardened receivers, blue barrels
Price:	\$1,090
Misc:	Double set triggers, checkered wrist, optional tang sight available.

NAVY ARMS 1874 SHARPS SPORTING RIFLE



Caliber:	45-70
Action:	Sharps falling block single shot
Barrel:	32" octagon
Weight:	10 pounds
Length:	49.5"
Stock:	Walnut
Finish:	Color case-hardened receivers, blue barrels
Price:	\$1,090
Misc:	Double set triggers, pistol grip, optional tang sight available.

NAVY ARMS 1885 HIGH WALL RIFLE



Caliber:	45-70
Action:	Browning design falling block
Barrel:	28" round or 30" octagon
Weight:	9.5 pounds
Length:	45.5" (30" bbl.)
Stock:	Walnut
Finish:	Color case-hardened receivers, blue barrels
Price:	\$745 to \$915
Misc:	Available with target sights or buckhorn sight.

NAVY ARMS ROLLING BLOCK RIFLES



Caliber:	45-70
Action:	Rolling block single shot
Barrel:	26" or 30" octagon
Weight:	10 to 11.75 pounds
Length:	43" to 47"
Stock:	Walnut
Finish:	Color case-hardened receivers, blue barrels
Price:	\$765 to \$930

NEW ENGLAND FIREARMS HANDI-RIFLE



Caliber:	22 Hornet, 223, 243, 270, 30-30, 30-'06, 44 Mag., 45-70, 280 Rem., 7x57, 7x64-357, 308 Win.
Action:	Break open, side lever release
Barrel:	22", 24", 26" (280 Rem.)
Weight:	7 pounds
Length:	38"
Stock:	Walnut-finished hardwood
Finish:	Blue
Price:	\$210 to \$220
Misc:	Drilled and tapped for included scope mounts.

REMINGTON 40-XB SERIES TARGET RIFLES



Caliber:	40XB Thumbhole stock .22-250, .260 Rem., 7.62 NATO, XB Rangemaster, XB KS: 22-250, 220 Swift, 222 Rem. Mag., 223, 243, 6mm Rem., 6mm BR Rem., 260 Rem, 25-06, 7mm BR Rem., 7mm Rem. Mag., 7.62 NATO (308), 30-'06, 300 Win. Mag.; XBBR KS: 22 BR Rem., 222 Rem. Mag., 223, 6mm BR Rem., 7.62 NATO (308)
Action:	Bolt, single shot or repeater
Barrel:	XB Rangemaster, XB KS: 27.25"; XBBR KS: 24"
Weight:	10.25 pounds XB KS; 10.5 pounds XBBR KS; 11.25 pounds XB Rangemaster
Length:	24" XBBR KS to 27.25" XB Rangemaster and XB KS
Stock:	Walnut and Kevlar (XBBR KS in Remington Green Kevlar) or laminated thumbhole stock
Finish:	Unblued stainless receivers (XBBR KS carbon steel, drilled and tapped for scope mounts), barrels unblued stainless
Price:	\$1,612 to \$1,941
Misc:	Available from the Remington Custom Shop.

RUGER No. 1 SINGLE SHOT CENTERFIRE RIFLES



Caliber:	RSI-International: 243, 270, 7x57, 30-'06; V-Varmint: 22-250, 220 Swift, 223, 6mm, 25-06; B-Standard: 22-250, 220 Swift, 223, 243, 6mm, 257 Roberts, 25-06, 270, 270 Wthby. Mag., 280, 7mm Rem. Mag., 30-'06, 300 Win. Mag., 300 Wthby. Mag., 338 Win. Mag.; .218 Bee & .22 Hornet, A-Light Sporter: 243, 270, 7x57, 30-'06; S-Medium Sporter: .218 Bee, 7mm Rem. Mag., 300 Win. Mag., 338 Win. Mag., 45-70; H-Tropical: .416 Rigby & .416 Rem. Mag., 375 H&H, 458 Win. Mag.
Action:	No. 1 Single shot
Barrel:	RSI: 20"; Varmint: 24"; Standard: 26"; Light Sporter 22"; Medium Sporter: 26"; Tropical: 24"
Weight:	7.25 to 9 pounds
Stock:	Straight-grained walnut
Finish:	Blue
Price:	\$797 to \$818
Misc:	All except Varmint model include quarter rib scope mounts. Varmint has target scope blocks. Rings included with IB & IV models. Also available in K1-B-BBZ and K1-V-BBZ, standard and varmint in stainless steel with black laminated stock.

C. SHARPS ARMS NEW MODEL 1874 OLD RELIABLE



Caliber:	40-50, 40-70, 40-90, 45-70, 45-90, 45-100, 45-110, 45-120, 50-70, 50-90, 50-140
Barrel:	26", 28" or 30" tapered octagon standard
Weight:	10 pounds
Stock:	American black walnut, straight grip, heavy forend with Schnabel tip.
Price:	\$1,175
Misc:	Drilled and tapped for tang sights. Double set triggers. Re-creation of the model 1874 Old Reliable Sharps Sporting Rifle; made in the U.S.A. Available through Montana Armory.

SHILOH SHARPS 1874 MODELS



Caliber:	Long Range Express: 40-50 BN, 40-70 BN, 40-90 BN, 45-70 ST, 45-90 ST, 45-110 ST, 50-70 ST, 50-90 ST, 50-110 ST, 32-40, 38-55, 40-70 ST, 40-90 ST; Montana Roughrider: 30-40, 30-30, 40-50x1 ¹ / ₆ " BN, 40-70x2 ¹ / ₆ " BN, 45-70x2 ¹ / ₆ " ST; Business: 40-50 BN, 40-70 BN, 40-90 BN, 45-70 ST, 45-90 ST, 50-70 ST, 50-100 ST, 32-40, 38-55, 40-70 ST, 40-90 ST
Barrel:	26" to 34" available in #1 hvy., hvy. half, standard and standard half
Weight:	8.5 to 10.5 pounds
Length:	40" to 51"
Stock:	Oil-finished black walnut with a variety of buttstock options, pistol grips and cheek rests
Price:	\$1,504 to \$1,796
Misc:	Re-creation of the Sharps Model 1874; double set triggers Mfg. in USA. Barrel lengths are an option on any rifle.

THOMPSON/CENTER CARBINE



Caliber: T/C Carbine: 22 LR, 223 Rem., 7-30 Waters, 30-30 Win.
Action: Break top
Barrel: 21"
Weight: 5.25 pounds
Length: 34.75
Stock: American black walnut
Finish: Blue
Price: \$571 to \$583
Misc: Lifetime warranty.

THOMPSON/CENTER ENCORE RIFLE



Caliber: 223 Rem., 22-250 Rem., 243 Win., 25-06, 260 Rem., 270 Win., 280 Rem., 7mm-08 Rem., 7mm Rem. Mag., 308 Win., 30-06, 300 Win. Mag., 45-70 Gov't., 25-06
Action: Single shot, break open design
Barrel: 24" standard or 26" heavy
Weight: 6.75 pounds
Length: 38.5"
Stock: American walnut Monte Carlo with matching forend
Finish: Blue
Price: \$582 to \$610, SST \$650
Misc: Drilled and tapped for scope mounts, interchangeable barrels.

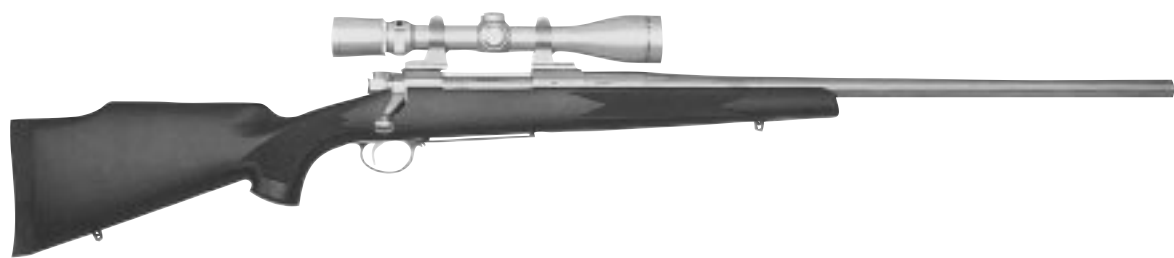
BOLT ACTION REPEATING CENTERFIRE RIFLES

ANSCHUTZ 1700D SERIES RIFLES



Caliber: 22 Hornet, 222 Rem.
Action: Bolt, Match 54 action
Capacity: 3-shot (222) or 5-shot (22 Hornet) detachable clips
Barrel: 19.5" or 24"
Weight: 6.5 pounds
Length: 39" to 43"
Stock: European walnut
Finish: Blue
Price: POR
Misc: Hooded ramp front sight with folding leaf rear, drilled and tapped for scope mounting. Manufactured in Germany, Imported by AcuSport.

ARNOLD ARMS APOLLO RIFLE



- Caliber:** Big Game Rifle: 243 Win., 6mm Rem., 25-06 Rem., 257 Arnold Mag., 270 Win., 280 Rem., 7mm Rem. Mag., 7mm STW Mag., 308 Win., 30-'06, 300 Win. Mag., 300 Arnold Mag., 338 Win. Mag., 338 Arnold Mag.; Dangerous Game Rifle: 300 Arnold Mag., 338 Win. Mag., 338 Arnold Mag., 375 H&H Mag., 416 Rem. Mag., 458 Win. Mag.Varminter I: 222 Rem., 223 Rem., 22-250, 220 Swift, 22 PPC, 6mm PPC, 243 Win., 6mm Rem., 25-06, 257 Arnold Mag.Varminter II: 223 Rem.,22-250, 220 Swift, 243 Win., 6mm Rem., 25-06, 257 Arnold Mag.
- Action:** Stainless steel or chrome-moly; available with positive feed in long and Magnum actions
- Capacity:** 3 to 4 rounds
- Barrel:** 24" to 26"
- Weight:** 7.25 to 11 pounds
- Stock:** Walnut (satin sheen) or synthetic: Pacific Research (black or new camo) or McMillan (black, woodland camo, desert camo, or fibergrain [simulated wood])
- Finish:** Standard blue, bead blast blue, or stainless steel
- Price:** POR
- Misc:** Arnold Arms offers many custom options for their Apollo Rifles including Hart, Krieger or Lilja stainless barrels, or Douglas Premium chrome-moly barrels; Jewell, Shilen, Timney, or Remington trigger systems; bench rest, prone and X-Course, and special purpose rifles; and much more. Various customizing services also available for Remington Model 700s and Winchester Model 70s at Arnold Arms' riflesmithing shop.

BARRETT MODEL 95 BOLT ACTION RIFLE



- Caliber:** 50 BMG
- Action:** Bolt
- Capacity:** 5-shot detachable box mag
- Barrel:** 33"
- Weight:** 25 pounds
- Length:** 50.4"
- Price:** \$5,100
- Misc:** Has match-grade barrel, high efficiency muzzle brake, extendable bi-pod legs and recoil pad. Scope and case are extra.

BERETTA MATO DELUXE AND SYNTHETIC



- Caliber:** 270 Win., 280 Rem., 30-06 Sprg., 7mm Rem. Mag., 300 Win. Mag., 338 Win. Mag., 375 H&H Mag.
Action: Mauser style, with claw extractor
Barrel: 23.6", chrome-moly steel
Weight: 7.9 pounds
Length: 44.5"
Stock: Deluxe features American or European walnut with ebony forend tip, Synthetic features gray composite stocks
Finish: Black satin
Price: Deluxe: \$2,470, 375 H&H: \$2,795, Synthetic: \$1,117, 375 H&H: \$1,474
Misc: Equipped with leather sling, inletted sling swivel studs, jewelled bolt, raised and checkered bolt handle panel. Swarovski scopes offered as option. Mato synthetic available with matte gray composite stock and neoprene sling.

ED BROWN MODEL 702, BUSHVELD



- Caliber:** 375 H&H, 416 Rem. Mag., 460 Wthby. & any Savanna caliber
Barrel: 24"
Weight: 8.5 pounds
Stock: Hand bedded fiberglass with Monte Carlo-style butt, cheek piece and recoil pad
Price: \$2,900 and up
Misc: Features include: Ed Brown Custom action, steel trigger guard and floor plate, 3-position safety. Options include: stock color stainless steel barrel, different contour barrel, QD scope rings and iron sights.

ED BROWN MODEL 702, LIGHT TACTICAL



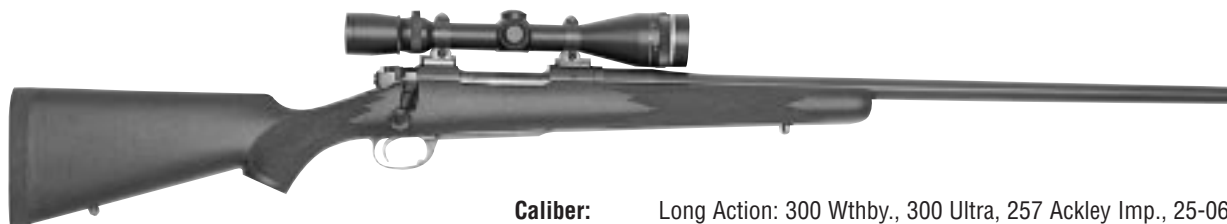
- Caliber:** 223, 22-250, 243, 7mm-08, 308
Barrel: 21"
Weight: 8.75 pounds
Stock: Hand bedded fiberglass with recoil pad
Price: \$2,800 and up
Misc: Options include: Ed Brown short action repeater, aluminum trigger guard & floorplate, 3-position safety, stock color, stainless steel barrel, different contour barrel, additional calibers and hinged steel floorplate.

ED BROWN MODEL 702, OZARK



Caliber: 223, 22-250, 243, 6mm, 7mm-08, 308
Barrel: 21"
Weight: 6.5 pounds
Stock: Lightweight Sporter, fiberglass with checkering and recoil pad
Price: \$2,500 and up
Misc: Options include: Ed Brown short action repeater with blind magazine and steel trigger guard, 3-position safety, stock color, stainless steel barrel, different contour barrel, additional calibers, hinged steel floorplate.

ED BROWN MODEL 702, SAVANNA



Caliber: Long Action: 300 Wthby., 300 Ultra, 257 Ackley Imp., 25-06, 270 Win., 280 Rem., 280 Ackley Imp., 7mm Rem. Mag., 7STW, 30-'06, 300 Win. Mag., 338 Win. Mag.; Short Action: 22-250, 243, 223, 300 WSM, 6mm, 7mm-08, 308
Barrel: 24" or 26"
Weight: 7.5 pounds
Stock: Fiberglass sporter with cheekpiece, checkering and recoil pad
Price: \$2,800 and up
Misc: Features include: Ed Brown Custom action with machined steel trigger guard and hinged floorplate, 3-position safety, 3.700 magazine box length. Options include: stock color, stainless steel barrel, different contour barrel, additional calibers, detachable box magazine.

ED BROWN 702, TACTICAL



Caliber: 7.62 NATO (308), 300 Win. Mag.
Barrel: 26"
Weight: 12.25 pounds
Stock: Hand bedded fiberglass tactical stock with recoil pad
Price: \$3,200 and up
Misc: Features include: Ed Brown Custom short or long repeater action (action length depends on caliber), steel trigger guard and hinged floorplate, 3-position safety. Options include: stock color, stainless steel barrel, different contour barrel and additional calibers.

BROWNING A-BOLT II ECLIPSE HUNTER & ECLIPSE VARMINT



Caliber:	22-250, 223, 243, 270 Win., 7mm Rem. Mag., 308, .30-'06; M-1000: 300 Win. Mag.
Action:	Bolt, 3 to 6 rounds
Barrel:	22" to 26"
Weight:	7.5 pounds
Length:	41.75 to 46.75"
Stock:	Gray/black multi-laminated hardwood with thumbhole
Finish:	Low glare blue
Price:	\$941 to \$969
Misc:	Available only with the BOSS system. Features include a top tang thumb operated safety, detachable magazine and a lightweight, 60° bolt throw for faster follow-up shots.

BROWNING A-BOLT II HUNTER



Caliber:	22-250, 223, 243, 25-06, 270 Win., 7mm-08, 280, 7mm Rem. Mag., 308, .30-'06, 300 Win. Mag., 338 Win. Mag.
Action:	Bolt, 3 to 6 rounds
Barrel:	22" (Sporter) to 26" (Magnum)
Weight:	6.5 to 7.5 pounds
Length:	41.75" (Short) to 44.75" (Magnum and Standard)
Stock:	Walnut
Finish:	Low glare blue
Price:	\$557
Misc:	Available with the optional BOSS system. Features include a cocking indicator for extra safety, a top tang thumb operated safety, detachable magazine and a lightweight, 60° bolt throw for faster follow-up shots.

BROWNING A-BOLT II MEDALLION & WHITE GOLD MEDALLION



Caliber:	Medallion: 22-250, 223 Rem., 243 Win., 25-06, 270 Win., 7mm-08, 280 Rem., 7mm Rem. Mag., 308 Win., .30-'06, 300 Win. Mag., 338 Win. Mag., 375 H&H; Gold Medallion: 270, 7mm Rem. Mag., .30-'06; Micro-Medallion: 22 Hornet, 22-250, 223 Rem., 243 Win., 7mm-08, 308
Action:	Bolt, 3 to 6 rounds (Micro Medallion: 3 to 5 rounds)
Barrel:	20" to 26"
Weight:	6.5 to 7.5 pounds
Length:	39.75" to 46.75"
Stock:	Walnut
Finish:	Polished blue
Price:	\$662 to \$1,009
Misc:	Medallion, Left-hand Medallion, Gold Medallion and Micro-Medallion models. All rifles available, in most calibers, with the optional BOSS system.

BROWNING A-BOLT II STAINLESS STALKER, COMPOSITE STALKER & VARMIN'T



Caliber:	Composite Stalker and Stainless Stalker: 22-250, 223 Rem., 243 Win., 25-06, 270, 7mm-08, 280, 7mm Rem. Mag., 308, .30-'06, 300 Win. Mag., 338 Win. Mag., 375 H&H (Stainless Stalker only); Varmint: 22-250, 223 Rem., 308 Win.
Action:	Bolt, 3 to 6 rounds
Barrel:	22" to 26"
Weight:	6.25 to 9 pounds
Length:	41.75" to 46.75"
Stock:	Black graphite-fiberglass or black laminated (Varmint)
Finish:	Matte silver gray (Stainless Stalker), matte blue (Composite), polished blue (Varmint)
Price:	\$580 to \$899
Misc:	Left-hand Stainless Stalker model available. All rifles available, in most calibers, with the optional BOSS system.

CZ USA 550 SERIES CENTERFIRE RIFLES



Caliber:	243 Win., 270 Win., 308 Win., 22-250, 300 Win Mag., 7mm Rem. Mag., 375 H&H Mag., 416 Rigby, 458 Win. Mag., 7x57, 9.3x62, 6.5x55 SE, .30-'06, 7x64
Action:	Bolt
Barrel:	20.5" to 25.6"
Weight:	7.3 to 9.3 pounds
Stock:	Walnut with high comb, checkered grip and forend
Finish:	Polished blue
Price:	\$540 to \$773

DAKOTA 76 CLASSIC GRADE RIFLE



Caliber:	220 Swift, 22-250, 243 Win., 6mm Rem., 250-3000, 257 Roberts, 7mm-08 Rem., 308 Win., 25-06 Rem., 270 Win., 7x57mm, 280 Rem., 7mm Rem. Mag., 30-'06, 35 Whelen; Short Magnum: 7mm Dakota, 7mm Rem. Mag., 300 Dakota, 300 Win. Mag., 330 Dakota, 338 Win. Mag., 375 Dakota, 458 Win. Mag. plus custom calibers.
Action:	Bolt
Weight:	7.5 pounds
Length:	43.5"
Stock:	Medium fancy English walnut or composite material
Finish:	Blue
Price:	\$3,495
Misc:	Right- and left-hand versions available. Barreled actions and actions alone. Many options available including: English and Bastogne higher grade stocks to Special Selection grades.

DAKOTA 76 SAFARI GRADE RIFLE



Caliber:	270 Win., 7x57, 280, 7mm Dakota, 7mm Rem. Mag., 300 Dakota, .30-06, 300 H&H, 300 Win. Mag., 330 Dakota, 338 Win. Mag., 375 Dakota, 375 H&H, 416 Rem., 458 Win. Mag.
Action:	Bolt
Barrel:	23"
Weight:	8.5 pounds
Length:	43.5"
Stock:	XXX fancy walnut
Finish:	Blue
Price:	\$4,495
Misc:	Left-hand versions available in all calibers. Barreled actions and actions alone available. Many wood and metal work options available. The 416 Rigby African model is available for \$4,495.

DAKOTA LONGBOW T-76 ENGAGEMENT RIFLE



Caliber:	.338 Lapua Mag., .330 Dakota Mag., .300 Dakota Mag.
Action:	Controlled round feeding, bolt action
Barrel:	28"
Weight:	13.7 pounds
Length:	50" to 52"
Stock:	Ambidextrous A-2 McMillian fiberglass in black or olive green
Finish:	Matte
Price:	\$4,250
Misc:	Guaranteed 1/2 MOA performance with effective range of 1,500 meters in .338 configuration. Utilizes commercially available match grade ammo and components. Adjustable cheekpiece and length of pull, three-position firing pin block safety, claw extraction system, positive mechanical ejector and Model 70 style trigger. Picatinny one-piece optical rail installed and a complete deployment kit including bipod, case and tool kit.

DAKOTA MODEL 97 LONG RANGE HUNTER



Caliber:	25-06 Rem., 257 Roberts, 270 Win., 280 Rem., 7mm Rem. Mag., 7mm Dakota Mag., .30-'06 Sprg., 300 Win. Mag., 300 Dakota Mag., 338 Win. Mag., 330 Dakota Mag., 375 H&H Mag., 375 Dakota Mag.
Action:	Controlled round feeding, bolt action
Barrel:	24" and 26"
Weight:	7.7 pounds
Length:	45" to 47"
Stock:	H-S Precision black synthetic
Price:	\$1,795
Misc:	Mauser-style extractor, three-position stiker blocking safety, unique bolt stop and reverse round follower Rigid cylindrical receiver, match quality free-floating barrel, fully adjustable match trigger and one-piece bedding block system.

DAKOTA MODEL 97 VARMINT AND LIGHTWEIGHT HUNTER



Caliber:	Varmint: 17 Rem., 222 Rem., 223 Rem., 220 Swift, 22-250, 22 BR, 6mm BR, 22 PPC, 6mm PPC Sako, Lightweight: 22-250, 243 Win., 250-3000 Savage, 260 Rem., 7mm-08 Rem., 308 Win., 6mm Rem., 25-06 Rem., 257 Roberts, 270 Win., 280 Rem., 7mm Rem. Mag., 7mm Dak. Mag., .30-'06 Sprg., 300 Win. Mag., 300 Dak. Mag., 375 H&H Mag., 375 Dak. Mag.
Action:	Varmint: Round short action-single shot bolt Lightweight: Controlled round feeding-bolt
Barrel:	22" to 24"
Weight:	6.5 (Lightweight) to 8 (Varmint) pounds
Length:	43" (Lightweight) to 44" (Varmint)
Stock:	X Walnut (Varmint) or synthetic (Lightweight)
Finish:	Blue
Price:	\$1,795
Misc:	Barreled actions and actions available.

HOWA MODEL 1500 SERIES



Caliber:	Short Action: 223 Rem., 22-250 Rem., 243 Win., 308 Win.; Long Action: 270 Win., .30-'06, 7mm Rem. Mag., 300 Win. Mag., 338 Win. Mag.; Varmint Heavy Barrel: 223 Rem., 22-250 Rem., 308 Win.
Action:	Bolt, 3 or 5 round capacity
Barrel:	24" (Magnum and Varmint); 22" (all others)
Weight:	7.6 to 7.7 pounds; 9.3 pounds (Varmint)
Stock:	Polymer, wood (walnut finish) or wood laminate
Finish:	Blued or stainless
Price:	\$464 to \$571 (Lightning); \$486 to \$594 (Hunter); \$496 to \$617 (Varmint); \$347 to \$470 (barreled action)
Misc:	Sights drilled & tapped for scope. Hammer forged barrel & receiver, dual lug bolt system, cramp-proof bolt with fully enclosed bolt face, cocked firing pin indicator. From Legacy Sports International.

KIMBER MODEL 84M



Caliber:	22-250 Rem., 243 Win., 260 Rem., 7mm-08 Rem., 308 Win.
Action:	Lightweight bolt with Mauser claw extractor
Capacity:	5-round magazine
Barrel:	22" (Classic); 26" (Varmint)
Weight:	5 pounds, 10 ounces (Classic); 7 pounds, 5 ounces (Varmint)
Length:	41.25" (Classic); 45.25" (Varmint)
Stock:	Claro walnut with 30 lpi panel checkering
Finish:	Satin
Price:	\$895 (Classic); \$978 (Varmint)
Misc:	Made in the U.S.A. 2-position Model 70-type safety, match grade trigger, chamber & barrel. Lightest production centerfire rifle available today.

KRICO MODEL 700 BOLT ACTION RIFLES



Caliber:	17 Rem., 22-250, 222, 222 Rem. Mag., 223, 5.6x50 Mag., 5.6x57 RWS, 243, 6x62 Freres, 6.5x55, 6.5x57, 6.5x68, 270, 7x57, 7x64, 7mm Rem. Mag., 7.5 Swiss, 308, .30-'06, 300 Win. Mag., 8x68S, 9.3x62, 9.3x64
Action:	Bolt
Barrel:	23.5" to 25.5" (magnum calibers)
Weight:	7 pounds
Length:	43.25" (standard calibers)
Stock:	European walnut with Bavarian cheekpiece
Price:	POR
Misc:	Removable box magazine, blade on ramp front, open adjustable rear sights, and sliding safety. Drilled and tapped for scope mounting.

REMINGTON MODEL 700 RIFLES



Caliber:	700 ADL: 270 Win., .30-'06, 308 Win., 7mm Rem.Mag.; 700 ADL Synthetic: 22-250 Rem., 223 Rem., 243 Win., 270 Win., .30-'06, 308 Win., 7mm Rem. Mag., 300 Win.Mag., 700 ADL Synthetic Youth: 243 Win., 308 Win.; 700 BDL Custom Deluxe: 222 Rem., 22-250 Rem., 223 Rem., 243 Win., 25-06 Rem., 7mm-08 Rem., 270 Win., 280 Rem., .30-'06, 17 Rem., 7mm Rem. Mag., 300 Win. Mag, 338 Win. Mag, 7mm Rem. Ultra Mag., 300 Rem. Ultra Mag., 338 Rem Ultra Mag., 375 Rem. Ultra Mag.
Action:	Bolt, 3 to 5 round capacity
Barrel:	22" to 26"
Weight:	6.75 to 7.5 pounds
Length:	39.125" to 44.5"
Stock:	Checkered American walnut or black/synthetic
Finish:	Blue
Price:	\$468 to \$685; \$672 to \$712 (LH Model)
Misc:	Available with sights or drilled and tapped for scope mounts. Comes with Monte Carlo cheekpiece. Fine-line engraving available on BDL. BDL Custom Deluxe available in left hand offerings: 270 Win., .30-'06, 7mm Rem.Mag., 7mm Rem. Ultra Mag, 300 Rem. Ultra Mag, 338 Rem. Ultra Mag.

REMINGTON MODEL 700 CLASSIC



Caliber:	7mm-08 Limited Edition
Action:	Bolt, four-round capacity
Barrel:	24"
Weight:	7.25 pounds
Length:	44.5"
Stock:	Checkered, satin-finished American walnut
Finish:	Polished blue
Price:	\$645
Misc:	21st annual edition - available for one year only.

REMINGTON MODEL 700 SPECIALIZED RIFLES



Caliber:	BDL DM: 270 Win., 7mm Rem. Mag., .30-'06, 300 Win. Mag., Mountain Rifle (DM): 25-06, 270, 280, 7mm-08, .30-'06; 260 Rem.
Action:	Bolt, 3 to 5 round capacity
Barrel:	22" to 24" (Mountain Rifle only in 22")
Weight:	6.5 to 7.5 pounds
Length:	41.5" to 44.5"
Stock:	Checkered American walnut
Finish:	Polished blue or satin blue (Mountain)
Price:	\$693 to \$720
Misc:	Features include a quick-release detachable magazine (DM) and pistol-grip stocks. BDL DM comes with a Monte Carlo cheekpiece stock, the Mountain Rifle with a straight comb, slim-line stock.

REMINGTON MODEL 700 STAINLESS RIFLES



Caliber:	700 BDLSS: 270 Win., .30-'06, 7mm Rem. Mag., 300 Win. Mag., 338 Win. Mag, 375 H&H, 7mm Rem. Ultra Mag., 300 Rem. Ultra Mag., 338 Rem. Ultra Mag., 375 Rem. Ultra Mag.; 700 BDLSS DM: 25-06 Rem., 270 Win., 280 Rem., 7mm-08, .30-'06, 7mm Rem. Mag., 300 Win. Mag.; 700 BDLSS DM-B: 7mm STW, 300 Win. Mag.; 700 LSS: 7mm Rem. Mag, 300 RUM, 300 Win. Mag., 7mm Rem Ultra Mag., 338 RUM; 700 Mountain LSS: 260 Rem., 7mm-08, 270, .30-'06
Action:	Bolt, 3 to 4 round magazine
Barrel:	24" to 26"
Weight:	6.5 to 7.5 pounds
Length:	41.625" to 46.5"
Stock:	Black synthetic slim-line or laminated wood (LSS only)
Finish:	Matte stainless steel or gloss
Price:	\$692 to \$856
Misc:	Stainless rifles come drilled and tapped for scope mounting with no sights. DM models feature a detachable magazine. Muzzle Brake (B) models available in two magnum calibers. Model 700 BDLSS Camo, Special Edition - RMEF .300 RUM in Realtree Hardwoods available.

REMINGTON MODEL 700 SENDERO



Caliber:	Sendero: 25-06, 270 Win., 7mm Rem. Mag., 300 Win. Mag.; Sendero SF: 25-06, 7mm Rem. Mag., 7mm STW, 300 Win. Mag., 7mm Rem Ultra Mag., 300 Rem. Ultra Mag., 338 Rem Ultra Mag.
Action:	Bolt, 3 to 4 round magazine
Barrel:	26" (heavy or fluted)
Weight:	8.5 to 9 pounds
Length:	45.75"
Stock:	Black Kevlar reinforced
Finish:	Blue or stainless (SF only)
Price:	\$769 to \$967
Misc:	SF model features a stainless, fluted barrel. Comes without sights for scope mounting.

REMINGTON MODEL 700 VARMINT SERIES



Caliber:	700 VSSF: 22-250 Rem., 223 Rem., 200 Swift; 700 VS Composite: 22-250, 223 Rem., 308 Win.; 700 VS RH & LH: 22-250 Rem., 223 Rem., 308 Win.; 700 VLS: 22-250 Rem., 223 Re., 6mm Rem., 243 Win., 308 Win.
Action:	Bolt, 4 to 5 round magazine
Barrel:	26"
Weight:	7.875 pounds to 9.375 pounds
Length:	45.5" to 45.75"
Stock:	Oil-finished laminated wood with Monte Carlo cheekpiece (VLS) and Graphite Composite or black Kevlar and graphite composite stock (VS and VS SF)
Finish:	Blue (VLS), matte (VS), satin stainless (VS SF)
Price:	\$688 to \$1,923
Misc:	Two Varmint Synthetic models offered: VS comes with a blued heavy barrel; VS SF comes with a stainless, fluted barrel.

REMINGTON MODEL 700 ALASKAN WILDERNESS & AFRICAN PLAINS RIFLES



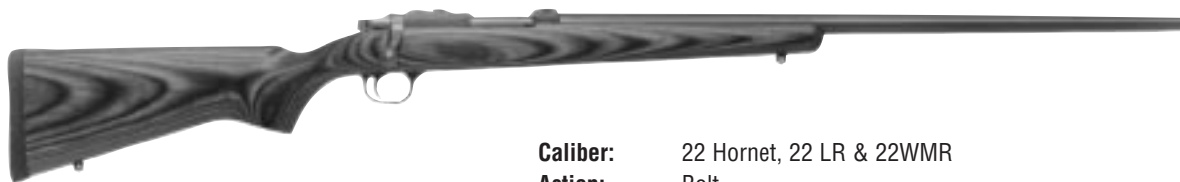
Caliber:	700 APR: 7mm Rem. Mag., 7mm RUM, 300 Win. Mag., 300 Wthby. Mag., 300 RUM, 338 Win. Mag., 338 RUM, 375 H&H, 375 RUM; 700 AWR: 7mm Rem. Mag., 7mm STW, 7mm RUM, 300 Win. Mag., 300 Wthby. Mag., 300 RUM., 338 Win. Mag., 338 RUM, 375 H&H, 375 RUM
Action:	Bolt
Barrel:	24" (AWR) to 26" (APR)
Weight:	6.75 pounds (AWR) to 7.75 pounds (APR)
Length:	44.5" (AWR) to 46.5" (APR)
Stock:	Black Kevlar (AWR), Monte Carlo laminate (APR)
Finish:	Black matte finish (AWR) or traditional blue polish (APR)
Price:	\$1,524 (AWR) to \$1,641 (APR)
Misc:	Built to order through Remington's Custom Shop.

REMINGTON MODEL SEVEN RIFLES



Caliber:	Seven LSS: 22-250 Rem., 243 Win., 7mm-08; Seven SS: 223 Rem., 243 Win., 260 Rem., 7mm-08, 308 Win.; Seven LS Lightweight: 223 Rem., 243 Win., 260 Rem., 7mm-08, 308; Seven Youth: 223 Rem., 243 Win., 260 Rem., 7mm-08
Action:	Bolt, 4 to 5 round magazine
Barrel:	20"
Weight:	6.125 to 6.25 pounds
Length:	38.75" to 39.25"
Stock:	Brown laminate, black synthetic or hardwood
Finish:	Matte flat or stainless satin finish
Price:	\$531 to \$740
Misc:	Model Seven Youth features hardwood stock.

RUGER K77/22 VHZ VARMINT RIFLE



Caliber:	22 Hornet, 22 LR & 22WMR
Action:	Bolt
Capacity:	10 shot (LR), 9 shot (WMR) or 6 shot detachable rotary magazine (22 Hornet)
Barrel:	24" heavy
Weight:	6.75 pounds
Length:	43.25"
Stock:	Laminated American hardwood
Finish:	Target gray stainless steel
Price:	\$565 to \$599
Misc:	Features integral scope bases of the patented Ruger Scope Mounting System and comes with 1" Ruger scope rings.

RUGER 77/22RH



Caliber:	22 Hornet
Action:	Bolt
Capacity:	6 rounds, detachable rotary magazine
Barrel:	20"
Weight:	6 pounds
Length:	39.25"
Stock:	Oil-finished walnut
Finish:	Traditional polish
Price:	\$555 to \$ 575
Misc:	Comes with sights or with the integral scope bases of the patented Ruger Scope Mounting System and with 1" Ruger scope rings. K77/22 VHZ heavy barrel version w/ laminated stock.

RUGER M-77 MARK II RIFLES



Caliber: M77 R: 223, 22-250, 6mm Rem., 243 Win., 257 Roberts, 25-06, 6.5x55 Swedish, 270, 7x57, 280, 7mm Rem. Mag., .30-'06, 308, 300 Win. Mag., 338 Win. Mag.; RS: 243 Win., 25-06, 270, 6mm Rem., 7mm Rem. Mag., .30-'06, 308, 300 Win. Mag., 338 Win. Mag., 458 Win. Mag.; RSI: 220 Swift, 260 Rem., 243 Win., 270, 30-'06, 308

Action: Bolt, with three-position safety

Capacity: 3 to 4 round magazine

Barrel: 18" (RSI only), 22" or 24" (magnum lengths)

Weight: 7 pounds

Stock: Checkered American walnut with pistol grip

Finish: Blue

Price: \$649 to \$735

Misc: Ruger rings included. Available with no sights (R) or open sights (RS and RSI). Features include controlled round feeding and more. RSI carbine features full-length Mannlicher style stock.

RUGER M-77 MARK II SPECIALTY RIFLES



Caliber: M77 RL: 223, 243 Win., 257 Roberts, 270, 30-'06, 308; LR: 270, 7mm Rem. Mag., .30-'06, 300 Win. Mag.; VT: 223, 22-250, 220 Swift, 243 Win., 25-06, 308

Action: Bolt, with three-position safety

Capacity: 3 to 4 round magazine

Barrel: 20" (RL), 22" to 24" (LR), or 26" (VT)

Weight: 6 (RL) to 9.75 pounds (VT)

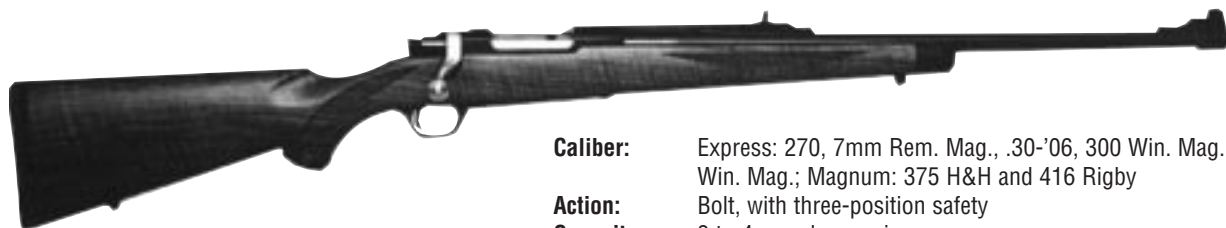
Stock: Checkered American walnut with pistol grip or heavy laminated hardwood (VT only)

Finish: Blue or target gray stainless

Price: \$649 to \$779

Misc: Ruger rings included. Other M-77 Mark II features included. LR model features a left-handed stock. RL (Ultra Light) model is extra light in weight. VT (Target Rifle) features a heavy stock and barrel, beavertail forend and a two-stage trigger. New models include RBZ in stainless with laminate stock, RSBZ Sporter in stainless with laminate stock, and LRBBZ a left-handed Sporter with a stainless finish and black laminate stock.

RUGER M-77 MARK II EXPRESS & MARK II MAGNUM RIFLES



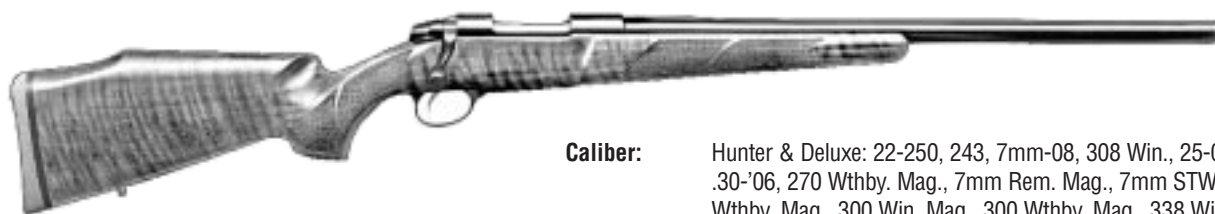
Caliber: Express: 270, 7mm Rem. Mag., .30-'06, 300 Win. Mag., 338 Win. Mag.; Magnum: 375 H&H and 416 Rigby
Action: Bolt, with three-position safety
Capacity: 3 to 4 round magazine
Barrel: 22" (standard calibers) to 24" (magnums), or 26" (VT)
Weight: 7.5 pounds (EX) to 9.75 pounds (VT)
Stock: Checkered Circassian walnut
Finish: Blue
Price: \$1,625 to \$1,695
Misc: Factory machined for Ruger scope mounts. Comes with a set of 1" rings. Features include a three-position safety, steel floor-plate and trigger guard, blade front sight and V-notch rear express sights.

RUGER M-77 MARK II ALL WEATHER RIFLES



Caliber: RP: 223, 22-250, 243 Win., 270, 280, 7mm Rem. Mag., 30-'06, 308, 300 Win. Mag., 338 Win. Mag.; RSP: 243, 270, 7mm Rem. Mag., 30-'06, 300 Win. Mag., 338 Win. Mag., RFP: 25-06, 260 Rem.; RSFP & RLFP: 243 Win., 270 Win., .30-'06
Action: Bolt, with three-position safety
Capacity: 3 to 4 round magazine
Barrel: 22" to 24"
Weight: 6.5 to 7 pounds
Stock: Black Zytel stock
Price: \$649 to \$725
Misc: Similar to M-77 Mark II but with all-weather Zytel stock and stainless steel barrel, receiver, sights and trigger group. New models available in stainless steel with laminated stocks, Ruger rings available as standard. Full stock versions now available.

SAKO 75 RIFLES



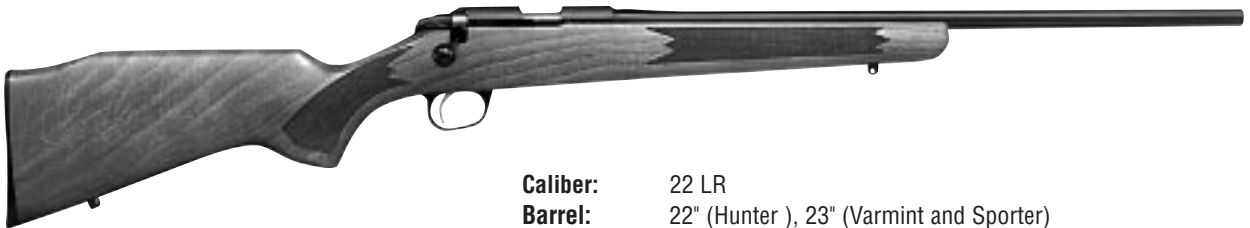
Caliber: Hunter & Deluxe: 22-250, 243, 7mm-08, 308 Win., 25-06, 270, 280, .30-'06, 270 Wthby. Mag., 7mm Rem. Mag., 7mm STW, 7mm Wthby. Mag., 300 Win. Mag., 300 Wthby. Mag., 338 Win. Mag., 340 Wthby. Mag., 375 H&H, 416 Rem. Mag.; Stainless Synthetic: 22-250, 243, 308 Win. 25-06, 270, .30-'06, 7mm Rem. Mag., 300 Win. Mag.
Action: Bolt
Barrel: 22", 24", 26"
Weight: 6.375 to 9.25 pounds
Length: 41.75" to 47.25"
Stock: Matte lacquered, lacquered, oiled or injection moulded
Finish: Blue or stainless steel
Price: \$1,115 (Hunter) to \$1,645 (Deluxe)
Misc: Magazines in 4 to 6 rounds. Imported by Beretta USA Corp.

SAKO TRG-S BOLT ACTION RIFLE



Caliber: 270, 7mm Rem. Mag., .30-'06, 300 Win. Mag., 338 Win. Mag., 375 H&H, 416 Rem. Mag., 270 Wthby. Mag., 7mm Wthby. Mag., 340 Wthby. Mag., 243, 7mm-08, 6.5x55
Barrel: 22" to 24" (Magnum calibers), 20.5" (Carbine)
Weight: 7.75 pounds
Length: 45.5"
Stock: Reinforced polyurethane with Monte Carlo comb
Finish: Matte blue metal
Price: \$875 to \$2,760
Misc: Resistance-free bolt with 60-degree lift. Recoil pad adjustable for length. Free-floating barrel, detachable five-shot magazine, full adjustable trigger. Imported from Finland by Beretta USA Corp.

SAKO FINNFIRE



Caliber: 22 LR
Barrel: 22" (Hunter), 23" (Varmint and Sporter)
Weight: 6 to 8 pounds
Stock: Matte laquer walnut; Sporter has competition stock
Price: \$825 Hunter, \$870 (Varmint) and \$925 (Sporter)
Misc: 50 degree bolt lift, free floating barrel, adjustable trigger, 5-round magazine (Sporter has 10-round magazine), Varmint has beavertail forend, Sporter has fully adjustable stock. Imported from Finland by Beretta USA Corp.

SAUER 202



Caliber: 25-06 Rem., 270 Win., .30-'06 Sprg., 308 Win., 7mm Rem., 300 Win., 375 H&H, 22-250 Rem., 243 Win., 300 Wthby
Capacity: 3 round magazine
Barrel: 24", 26"
Weight: 7.5 to 7.7 pounds
Stock: McMillan high-grade composite or walnut
Price: \$1,259 (Synthetic), \$1,249 (Walnut)
Misc: 202 Supreme available in left-hand model. Features include detachable steel box magazine, two-position safety and interchangeable barrels. Varmint model & Lightweight model also available.

SAVAGE MODEL 11/111 SERIES



Caliber: 111 G, GL, GNS, F, FL, FNS: 250 Sav., 22-250, 223, 243, 25-06, 270, 7mm-08, 7mm Rem. Mag., 308, .30-'06, 300 Sav., 300 Win. Mag., 338 Win. Mag. (available in synthetic stock models); 111 GC, GLC, FC, FLC: 270, 7mm Rem. Mag., .30-'06, 300 Win. Mag.
Action: Bolt
Barrel: 22" to 24"
Weight: 6.375 to 7 pounds
Length: 43.5" to 45.5"
Stock: Walnut finish hardwood (G-GC), black graphite/fiberglass composite
Finish: Blue
Price: \$353 to \$495
Misc: Available with top loading or detachable box-type magazines. Left-handed models and customized rifle package options available (Models 110 and 111).

SAVAGE MODEL 12/112 SERIES



Caliber: 112 BVSS, FVSS, FLVSS: 22-250, 223, 25-06, 7mm Rem. Mag., 308 Win., 300 Win. Mag.; 112FV: 22-250, 223; 112 BVSS-S, FVSS-S: 22-250, 223 Rem., 300 Win. Mag.
Action: Bolt
Barrel: 26", heavy
Weight: 8.875 to 10.875 pounds
Length: 47.5"
Stock: Laminated wood (BV-types) or black composite (FV-types)
Finish: Stainless steel or blue
Price: \$410 to \$560
Misc: Five-shot capacity and single-shot versions available (BVSS-S and FVSS-S). Thick, heavy barrel design with recessed muzzle.

SAVAGE MODEL 114 SERIES



Caliber: 270 Win., 7mm Rem. Mag., .30-'06, 300 Win. Mag., 114C, CE, U
Action: Bolt
Barrel: 22" to 24"
Weight: 7.125 pounds
Length: 43.5" to 45.5"
Stock: Oil finished walnut American
Finish: Polished blue
Price: \$525 to \$600
Misc: Drilled and tapped for scope mounts. Staggered box-type magazine is released by stock push button.

SAVAGE MODEL 16/116 SERIES



- Caliber:** 16/116 FCSAK, FCS, FSAK, FSK, FSS: 270, 7mm Rem. Mag., .30-'06, 300 Win. Mag. (US only), 338 Win. Mag. (FSAK, FSK only); 116SE: 300 Win. Mag., 338 Win. Mag., 458 Win. Mag.
- Action:** Stainless steel bolt
- Barrel:** 22" to 24"
- Weight:** 6.5 to 8.5 pounds
- Length:** 43.5" to 45.5"
- Stock:** Black graphite/fiberglass composite (SE in walnut only)
- Finish:** Stainless steel
- Price:** \$495 to \$650 (SE: \$900)
- Misc:** FCSAK and FSAK models feature Savage's Adjustable Muzzle Brake System. FSK Model features the Savage Shock Suppressor. Different models available with either top loading or detachable box-type magazines. All Model 116s (except SE) available in left-handed models. Special features included on

STEYR SBS PRO-HUNTER RIFLE



- Caliber:** 243 Win., 25-06, 270 Win., 7mm-08, 308 Win., .30-'06, 280 Rem., 7mm Rem. Mag., 300 Win. Mag.
- Action:** Safe Bolt System
- Capacity:** Detachable 4-round magazine, 3-round for Mag. Calibers
- Barrel:** 23.5", 25.5" Mag. Calibers
- Weight:** 7.5 pounds
- Length:** 44.5", 46.5" Mag. Calibers
- Stock:** ABS synthetic or Mossy Oak Breakup
- Price:** \$799 to \$1,045
- Misc:** Matte blue or stainless barrel, ambidextrous roller tang safety and removable butt spacers. Optional 10-round magazine kit and custom calibers are also available. Imported by GSI, Inc.

STEYR SCOUT BOLT RIFLE



- Caliber:** 308 Win., 223 Rem.
- Action:** Safe Bolt System
- Capacity:** 5- or 10-round detachable box magazine
- Barrel:** 19", fluted
- Weight:** 6.5 pounds
- Length:** 39.5"
- Stock:** Synthetic gray or black Zytel
- Price:** \$2,699
- Misc:** Adjustable single trigger, three-position safety with safe, loading and fire positions. Removable modular buttstock spacers, quick detachable flush mounted sling swivels. Imported by GSI, Inc.

TIKKA BOLT ACTION RIFLES



Caliber: Whitetail Hunter Synthetic: 223, 22-250, 243 Win., 7mm-08, 308, 25-06, 270, .30-'06, 7mm Rem. Mag., 300 Win. Mag., 338 Win. Mag.; Whitetail Hunter Deluxe: 223, 22-250, 243, 308, 7mm-08 Rem., 25-06, 270, .30-'06, 7mm Rem. Mag., 300 Win. Mag., 338 Win. Mag.; Continental Varmint: 17 Rem., 223, 22-250, 308; Continental Long Range Hunter: 25-06, 270, 7mm Rem. Mag., 300 Win. Mag

Action: Bolt

Capacity: 3 rounds

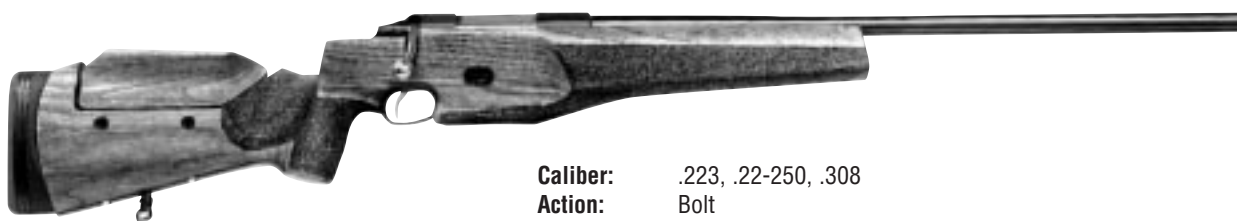
Barrel: 22.44" to 24.375"

Stock: European walnut with Monte Carlo comb, checkered grip and forend or black synthetic

Price: \$680 to \$775

Misc: Varmint/Continental has a heavy barrel and beavertail forend. Manufactured by Sako. Imported from Finland by Beretta USA Corp.

TIKKA SPORTER



Caliber: .223, .22-250, .308

Action: Bolt

Barrel: 23.5" heavy

Weight: 9 pounds

Length: 43.625"

Stock: Walnut target stock with adjustable cheekpiece

Price: \$950

Misc: Competition-style stock with adjustable buttpad and cheekpiece. Imported from Finland by Beretta USA Corp.

WEATHERBY MARK V ACCUMARK RIFLES



Caliber: 22-250 Rem., 243 Win., 25-06 Rem., 270 Win., 7mm-08 Rem., 280 Rem., .30-'06 Spr., 308 Win., 240 Wthby. Mag., 257, 270, .30-378 Wthby. Mag, 7mm, 7mm STW, 7mm Rem., 300, 300 Win., 340 Wthby. Mag., 338-378 Wthby. Mag.

Action: Bolt

Barrel: 24", 26", 28"

Weight: 7 to 8.5 pounds

Length: 44" to 46.625"

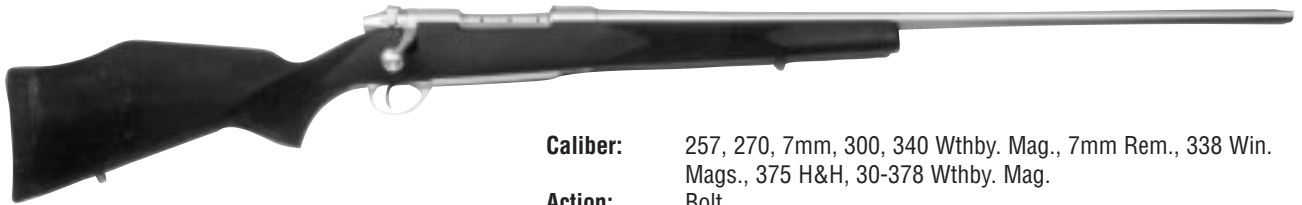
Stock: Kevlar fiberglass, Monte Carlo with aluminum bedding plate

Finish: Stainless

Price: \$1,299 to \$1,649

Misc: Uses Mark V action with heavy contour stainless steel barrel with black oxidized flutes, left-hand model available.

WEATHERBY MARK V STAINLESS & SYNTHETIC RIFLES



Caliber: 257, 270, 7mm, 300, 340 Wthby. Mag., 7mm Rem., 338 Win. Mags., 375 H&H, 30-378 Wthby. Mag.
Action: Bolt
Barrel: 20", 24" or 26"
Weight: 8 pounds
Length: 44"
Stock: Injection-moulded with Monte Carlo
Finish: 410 Series: stainless steel
Price: \$699 to \$899
Misc: Mark V action and standard caliber versions also available

WEATHERBY MARK V RIFLES



Caliber: Mark V Deluxe: All Weatherby calibers; Euromark: 257, 270, 7mm, 300, 340 Wthby. Mags., 7mm Rem. Mag., 300 & 338 Win. Mag., 375 H&H, 378 Wthby. Mag., 416 Wthby. Mag.; Lazermark: 257, 270, 7mm, 300, 340 Wthby. Mag., 378 Wthby. Mag., 416 Wthby. Mag., 460 Wthby. Mag.
Action: Bolt
Barrel: 24", 26", 28"
Weight: 6.75 to 10.5 pounds
Length: 44.625" to 46.75"
Stock: Walnut with Monte Carlo comb
Finish: High lustre finish or blue
Price: \$1,649 to \$2,464
Misc: Adjustable trigger, thumb safety, quick detachable sling swivels, cocking indicator and hinged floorplate.

WEATHERBY MARK V SPORTER & EUROSPORT RIFLES



Caliber: 257, 270, 7mm, 300, 340 Wthby. Mag., 7mm Rem., 300 & 338 Win. Mag., 375 H&H
Action: Bolt
Barrel: 24" or 26"
Weight: 6.75 to 9.5 pounds
Length: 44.625" to 46.625"
Stock: Walnut with Monte Carlo cheekpiece
Price: \$1,049
Misc: Sights or scope not included.

WINCHESTER MODEL 70 CLASSIC SUPER GRADE



Caliber:	270 Win., 7mm Rem. Mag., .30-'06, 7mm STW, 300 Win. Mag., 338 Win. Mag.
Action:	Bolt, 3 round capacity
Barrel:	24" to 26" (magnums)
Weight:	7.75 to 8 pounds
Length:	44.5"
Stock:	Walnut
Finish:	Blue
Price:	\$702
Misc:	Features include controlled round feeding with stainless steel claw extractor, bolt guide rail, three-position safety.

WINCHESTER MODEL 70 CLASSIC FEATHERWEIGHT STAINLESS



Caliber:	22-250, 243 Win., 270 Win., 6.5 x 55 Swedish, 7mm-08, 308 Win., .30-'06
Action:	Bolt, 5-round capacity
Barrel:	24"
Weight:	7.75 pounds
Length:	44.75"
Stock:	Walnut
Finish:	Blue
Price:	\$680
Misc:	Features ornate checkering, Schnabel forend, claw-controlled round feed system, inletted swivel bases, and recoil pad.

WINCHESTER MODEL 70 CLASSIC FEATHERWEIGHT ALL-TERRAIN



Caliber:	270 Win., 7mm Rem. Mag., 30-'06, 300 Win. Mag.
Action:	Bolt, 3 to 5 round capacity
Barrel:	22" to 24"
Weight:	7.25 pounds
Length:	42.5" to 44.75"
Stock:	Black synthetic composite
Finish:	Stainless steel
Price:	POR
Misc:	Features ornate checkering, Schnabel forend, claw-controlled round feed system, inletted swivel bases, and recoil pad.

WINCHESTER MODEL 70 CLASSIC SUPER EXPRESS



Caliber:	375 H&H Mag., 416 Rem. Mag., 458 Win. Mag.
Action:	Bolt, 3 round capacity
Barrel:	22" to 24"
Weight:	8.25 to 8.5 pounds
Length:	42.75" to 44.75"
Stock:	Checkered American walnut with Monte Carlo style cheekpiece
Finish:	Blue
Price:	POR
Misc:	Receiver is drilled and tapped for scope mounting. Adjustable rear sight and hooded front. The sling is positioned on the barrel to protect the hand during recoil. Controlled round feed. Left-hand option in 375 H&H only.

SEMI-AUTOMATIC CENTERFIRE RIFLES

BAER CUSTOM ULTIMATE AR M-4 FLATTOP MODEL



Caliber:	.223
Barrel:	16"
Stock:	Civilian model standard stock, law enforcement model available with collapsible stock
Finish:	Baer Coat™ finish on upper, lower barrel and free float system
Price:	\$2,195
Misc:	Jewell 2 stage trigger standard (optional single stage trigger available), LBC 4-way free float Picatinney rail system (12" standard), guaranteed to shoot 1/2" groups (1/2 MOA), many optional equipment features are available for the state-of-the-art M4.

BAER CUSTOM ULTIMATE AR SUPER VARMINT MODEL



- Caliber:** .223
Barrel: 20" (Standard), 22" and 24" (optional)
Finish: Baer Coat™ All-weather finish on upper, lower barrel and small parts
Price: \$1,989
Misc: LBC forged and precision machined "matched" upper and lower receivers, Picatinny-style flattop rail, LBC Ultimate National Match Carrier (chromed), LBC Ultimate Bolt (chromed), LBC bench rest quality stainless steel 416-7000 series barrel, 3-5 micron finish, hand lapped and polished before and after rifling, 1:12 twist (optional twists available). Super Varmint Model is guaranteed to shoot 1/2" MOA groups.

BROWNING BAR MARK II SAFARI



- Caliber:** 243, 270, 7mm Rem. Mag., 308, .30-'06, 300 Win. Mag., 338 Win. Mag., 22-250, 25-06
Action: Semi-automatic
Barrel: 20" in lightweight, 22" in standard, 24" in Magnum calibers
Weight: 7.125 to 8.375 pounds
Length: 41" in lightweight, 43" in standard, 45" in Magnum calibers
Stock: French walnut with hand checkering
Finish: Blue
Price: \$803
Misc: New bolt release lever, redesigned gas and buffer system, magazine fed, available with optional BOSS.

CALICO LIBERTY 50 & 100 CARBINE SERIES



- Caliber:** 9mm Para. (50 or 100 round magazines)
Action: Semi-automatic retarded blowback, CETME type
Barrel: 16"
Weight: 7 pounds
Length: 34.5" overall
Stock: Glass filled, impact resistant polymer
Finish: Black and phosphate
Price: \$860 to \$925
Misc: Helical fed magazine, ambidextrous safety, static cocking handle, rotating sear/striker block safety.

COLT MATCH TARGET RIFLES



Caliber: 223 Rem.
Capacity: 8 round, 5 shot detachable box magazine
Barrel: 16" to 20"
Weight: 8 to 8.5 pounds
Length: 34.5" to 39"
Stock: Composition stock grip forend
Finish: Military matte black
Price: \$1,040 to \$1,295
Misc: Features include: sling swivels, forward bolt assist.

DS ARMS SA58 RIFLES



Caliber: 308 Win.
Capacity: 20 shot detachable box magazine
Barrel: 16.25"
Weight: 8.25 pounds
Length: 38.25"
Stock: Synthetic
Finish: Military matte black
Price: \$1,595
Misc: Features include: last shot bolt hold open, elevation adjustable protected post front sight and tilting bolt locking system.

KEL-TEC SUB RIFLE 2000



Caliber: 9mm, .40 S&W
Capacity: Various double columns
Action: Semi-automatic
Barrel: 16.1"
Weight: 4 pounds (unloaded)
Length: 30" (open); 16" (closed)
Stock: Tubular steel stock with polymer butt stock
Finish: Hard anodized black (aluminum parts) and blue (steel parts)
Price: POR
Misc: By rotating the barrel upwards and back, the SUB-2000 can be reduced to a size of 16"x7" for secure storage. Also features an internal keyed deployment lock.

REMINGTON MODEL 7400 AUTOLOADING



Caliber: 7400/7400 Synthetic: 243 Win., 270 Win., .30-'06, 308 Win.
Action: Semi-automatic, gas operated
Capacity: 4-shot magazine
Barrel: 22" round tapered (18.5" Carbine .30-'06 only)
Weight: 7.25 to 7.5 pounds
Length: 42.625" (39.125" Carbine)
Stock: American walnut, deluxe cut-checked pistol grip and forend or black synthetic
Finish: Satin or high gloss finish
Price: \$509 to \$624
Misc: Gold bead front sight on ramp, windage adjustable step rear. Receiver tapped for scope, positive cross-bolt safety.

RUGER MINI-14/5 & MINI-14/5R RANCH RIFLES



Caliber: 223
Action: Auto-loading, gas operated
Capacity: 5-shot detachable box magazine
Barrel: 18.5"
Weight: 6.5 to 6.875 pounds
Length: 37.13"
Stock: American hardwood or synthetic
Finish: Blue or stainless (K-models)
Price: \$606 to \$710
Misc: Available in blue or stainless with steel reinforced wood stock, with or without rings. The ranch rifle comes with scope ring mounts cast onto the receiver. Side ejection designed for use with scope. Patented recoil buffer helps protect scope. Available with black polymer stocks in stainless steel version K Mini-14/5P (\$664) and K Mini-14/5RP (\$710)

RUGER 99/44 DEERFIELD



Caliber: 44 Mag.
Action: Auto-loading, gas operated
Capacity: 4-shot detachable
Barrel: 18.5"
Weight: 6.375 pounds
Length: 36.875"
Stock: American hardwood
Finish: Blue
Price: \$649
Misc: Standard accessories include high scope rings, cable lock with keys, scope protector and instruction manual. Rear sights are adjustable folding aperture; gold bead, front. Scope bases are integral to receiver.

RUGER MINI THIRTY



Caliber:	7.62x39 Russian Service Round, 223
Action:	Auto-loading
Capacity:	5-shot detachable
Barrel:	18.5"
Weight:	6.875 pounds
Length:	37.125"
Stock:	American hardwood or synthetic stock
Finish:	Blue or stainless steel
Price:	\$649 to \$710
Misc:	Designed for North American deer, the Mini Thirty has scope mounts cast onto the receiver and includes rings as standard equipment. Side ejection designed for use with scope. Patented recoil buffer helps protect scope.

RUGER PC4 AND PC9 CARBINE



Caliber:	40 (PC4) or 9x19 mm (PC9)
Action:	Mass impulse delayed blowback, auto-loading
Capacity:	10 rounds
Barrel:	16.25"
Weight:	6.375 pounds
Length:	34.375"
Stock:	Synthetic matte black
Finish:	Matte black oxide
Price:	\$575
Misc:	Manual push button cross bolt safety and internal firing pin block safety, bolt lock to prevent accidental unloading or chambering of a cartridge. Sights are blade front, open rear plus provision for scope mounts.

SPRINGFIELD ARMORY M1A, STANDARD, NATIONAL & SUPER MATCH



Caliber:	308 Win. (7.62mm NATO)
Action:	Rotating bolt, semi-automatic, gas operated
Barrel:	22" without flash suppressor
Weight:	9 to 11 pounds
Length:	44.3"
Stock:	Fiberglass, walnut, heavy walnut match
Finish:	Parkerized
Price:	\$1,319 to \$2,895
Misc:	Accurizing and accessories available. 5-, 10- or 20-shot box magazine.

SPRINGFIELD ARMORY SAR-8



Caliber: 7.62MM, 308
Action: Semi-automatic
Barrel: 18"
Weight: 10 pounds
Length: 40.38"
Stock: Synthetic
Price: POR
Misc: Features include: protected front post sights and rotary-style adjustable rear aperture.

THOMPSON MODEL 1927 A1



Caliber: 45 ACP
Action: Semi-automatic
Barrel: 16"
Weight: 11.5 pounds
Length: 42"
Stock: Walnut, with vertical forend
Finish: Blue
Price: POR
Misc: Deluxe and lightweight versions come with a legal 30-round stick magazine. 10-round drum sold separately. Also available, 20-round stick magazines. Available from Kahr Arms.

WILSON COMBAT M-4T TACTICAL CARBINE



Caliber: 5.56mm/223 Rem.
Action: Semi-automatic
Barrel: 16.25" OAL
Weight: 6.5 pounds (unloaded)
Finish: Hard anodize finish on receivers, mil-spec black manganese phosphate on barrel and steel component
Price: \$675 to \$1,699
Misc: Ergonomically correct pistol grip, magazine accepts all M-16/AR-15 style magazines (one magazine included).

WILSON COMBAT UT-15 URBAN TACTICAL



Caliber: 5.56mm/223 Rem.
Action: Semi-automatic
Barrel: 16.25" OAL
Weight: 6.5 pounds (unloaded)
Finish: Hard anodize finish on receivers, mil-spec black manganese phosphate on barrel and steel components
Price: \$699 to \$1,724
Misc: Ergonomically correct pistol grip; Crisp 3 to 3.5 pound trigger pull with JP trigger/hammer group.

BOLT ACTION SHOTGUNS

MARLIN MODEL 512P



Gauge: 12, 3" slugs
Barrel: 21", ported
Weight: 8 pounds
Stock: Checkered black synthetic
Price: \$388
Misc: Bolt action, thumb safety. Detachable two-shot box magazine plus one in the chamber. Adjustable folding semi-buckhorn rear, ramp front sight with high visibility fiber-optic inserts and removable wide-scan hood. Receiver drilled and tapped for scope base included. Ventilated recoil pad.

SAVAGE MODEL 210FT



Gauge: 12, 3"
Barrel: 24"
Weight: 7.5 pounds
Length: 43.5"
Stock: Glass-filled polymer
Finish: Advantage® camo
Price: \$466
Misc: Ventilated rubber recoil pad, swivel studs, lightweight, controlled round feed, triple front locking lugs, drilled and tapped scope mounting, bead front sight.

OVER/UNDER SHOTGUNS

AMERICAN ARMS SILVER I & II O/U



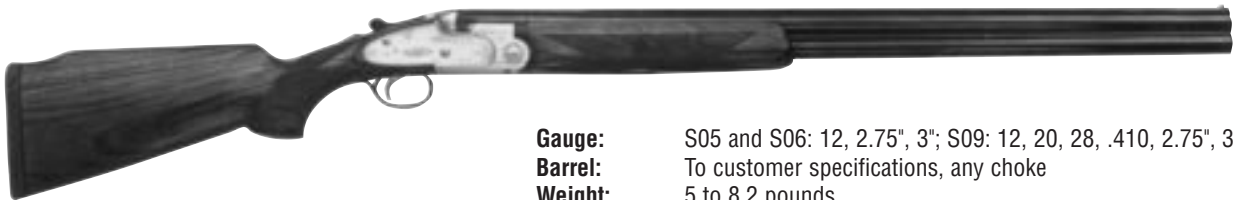
- Gauge:** 12 and 20 or 410 ga. (3"); 28 (2.75")
Barrel: 26" (IC and Mod), 28" (Mod and Full)
Weight: 6.75 pounds
Stock: Checkered walnut
Finish: Silver finished receiver, blue barrels
Price: Silver I: \$649 (12 and 20 ga.) to \$679 (28 and 410 ga.)
Silver II: \$765 (12 and 20 ga.) to \$815 (28 and 410 ga.)
Silver II Two-barrel set: \$1,239
Misc: Boxlock action, scroll engraving. Single selective trigger, manual safety, automatic ejectors. Metal bead front sights. Imported from Italy by American Arms, Inc.

AMERICAN ARMS SILVER SPORTING O/U



- Gauge:** 12 (2.75"), 20 (3")
Barrel: 28" or 30" (Skeet, IC, Mod, Full choke tubes)
Weight: 7.375 pounds
Length: 45.5" overall
Stock: Figured walnut
Finish: Chrome-nickel frame, blue barrels
Price: \$965
Misc: Sporting Clays quick-mount buttpad. Boxlock action, single selective trigger and automatic ejectors. Chrome bores. Imported from Italy by American Arms, Inc.

BERETTA S05, S06, & S09 O/U



- Gauge:** S05 and S06: 12, 2.75", 3"; S09: 12, 20, 28, .410, 2.75", 3"
Barrel: To customer specifications, any choke
Weight: 5 to 8.2 pounds
Stock: To customer specifications
Finish: S05 has light scroll pattern hand-engraved side plates, silvered, with blue barrels. EELL models have fine hand engraving.
Price: \$19,500 (S05 Trap, Skeet, Sporting Clays); \$25,000 (S06 Field, Trap, Skeet, Sporting Clays); \$42,750 (S06 EELL Field custom); \$44,500 (S09)

BERETTA SERIES 682 GOLD E TRAP, SKEET & SPORTING CLAYS O/U



Gauge: 12, 3"
Barrel: 28", 30", 32", 34"
Weight: 7.5 to 8.8 pounds
Stock: Close-grained, highly selected walnut
Finish: Greystone receiver with matte black barrels
Price: \$2,790 to \$3,845 (Gold Trap Top Combo)
Misc: Available in a single O/U barrel or a combo set with an extra O/U trap barrel set. Triggers are auto and selective on low profile box lock action. Imported from Italy by Beretta U.S.A.

BERETTA S682 SERIES O/U



Gauge: 12, 2.75", 3"
Barrel: 28", 30", 31", 32", 34"
Weight: 7.5 to 8.8 pounds
Stock: Highly select walnut, Monte Carlo style available
Finish: Oil or matte
Price: \$3,100 to \$4,610
Misc: Receiver available in Greystone or nickel finish with scroll engraving, adjustable stock available with stock memory system.

BERETTA S686 & S687 SERIES O/U



Gauge: Sporting Clays: 12, 20, 2.75", 3"; Field models: 12, 20, 28, 410 in 2.75", 3" and 3.5"
Barrel: Sporting Clays: 28", 30", 32" (Mobilchoke);
Field models: 26", 28" (Mobilchoke)
Weight: 5.3 to 8.2 pounds
Stock: Hand-checked walnut
Finish: Matte barrels
Price: \$1,869 (686 Silver Pigeon) to \$6,245
(687 EELL Diamond Pigeon Skeet 2-bbl set)
Misc: The EL & EELL versions have engraved side locks.
The 686 and 687EL Silver Pigeon versions are also available with silvered receivers.

BERETTA S686 ONYX & S686 ONYX SPORTING O/U



Gauge: 12 and 20, 3"
Barrel: 26", 28", 30" mobilchoke tube
Weight: 6.8 to 7.7 pounds
Stock: Selected walnut, checkered
Finish: Semi-matte black receiver
Price: \$1,583 to \$1,778 (X-tra Wood Models)

BERETTA ULTRALIGHT & ULTRALIGHT DELUXE



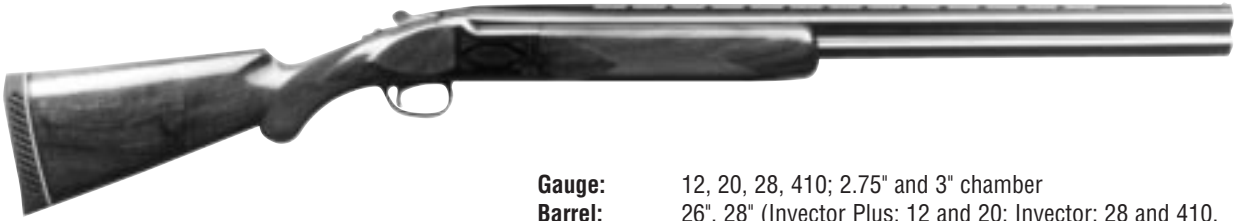
Gauge: 12, 2.75"
Barrel: 26", 28"
Weight: 5.75 pounds
Stock: Select walnut, checkered
Finish: Gloss, Ultralight Deluxe has matte oil finish
Price: \$1,869 to \$2,070
Misc: Electroless nickel finish receiver with game scene engraving.

BROWNING CITORI 425 SPORTING CLAYS



Gauge: 12 and 20, 2.75"
Barrel: 12-ga.: 28", 30", 32" (Invector Plus tubes), back-bored;
20-ga.: 28", 30" (Imp. Mod. and Imp. Cyl.)
Weight: 7.8 pounds
Stock: Select walnut
Finish: Satin finished walnut
Price: Grade I: \$1,855; Golden Clays: \$3,507
Misc: Grayed receiver with engraving, blued barrels. Barrels are ported on 12-gauge guns. Has 10mm wide vent ribs. Comes with three interchangeable trigger shoes to adjust length of pull.

BROWNING CITORI O/U



Gauge:	12, 20, 28, 410; 2.75" and 3" chamber
Barrel:	26", 28" (Invector Plus: 12 and 20; Invector: 28 and 410, Back-bored, 12 and 20 ga.)
Weight:	6.5 to 7.75 pounds
Length:	41" (24" Barrel) or 47" (30" Barrel)
Stock:	Hand checkered select walnut in all Grade I guns
Finish:	Blue
Price:	\$1,388 to \$3,334 (standard Citori Lightning Superlight and Hunting models in grades I to VI); \$1,486 (Micro Citori Lightning has 24" bbl. and Invector choke system); \$1,564 to \$1,636 (Lightning Sporting Clays w/ Invector-Plus); \$1,800 to \$3,396 (Ultra Sporting Clays and 425); \$1,636 to \$1,856 (Special Sporting Clays w/ Invector-Plus)
Misc:	Higher grade wood and metalwork is included in the higher grade models. Imported from Japan by Browning.

BROWNING CITORI LIGHTNING FEATHER



Gauge:	12, 2.75"
Barrel:	26", 28"
Weight:	7.5625 pounds to 7.6875 pounds
Length:	43", 45"
Stock:	Select walnut, checkering
Finish:	Grayed
Price:	\$1,582

BROWNING CITORI SUPERLIGHT FEATHER



Gauge:	12, 2.75"
Barrel:	26", 28"
Weight:	6 pounds
Length:	43", 45"
Stock:	Select walnut, checkering
Finish:	Grayed
Price:	\$1,592

BROWNING CITORI SPECIAL SKEET O/U



Gauge: 12, 20, 28, .410; 2.75"
Barrel: 26" to 28"
Weight: 6.6 pounds (28 ga.: 26") to 8 pounds (12 ga.: 28")
Length: 43" to 45"
Stock: Select walnut
Finish: Blue
Price: Grade I: \$1,629 to \$1,658; Grade III: \$2,310 to \$2,316; Golden Clays: \$3,356 to \$3,434. Available features: single selective, Olympic style trigger, selective ejectors, top tang safety, chromelined chambers, back-bored, and Invector-Plus choke tubes (standard on all 12 and 20 ga. models).

BROWNING CITORI SPECIAL TRAP



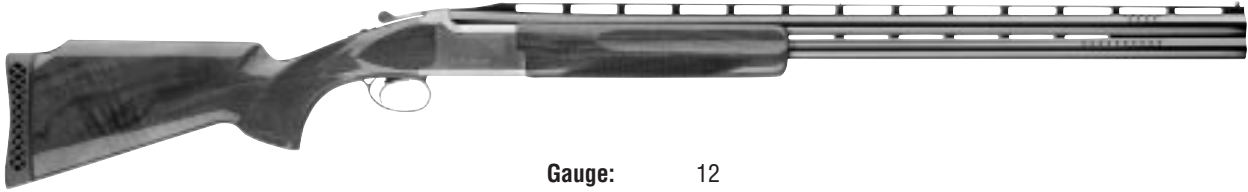
Gauge: 12, 2.75"
Barrel: 30" or 32"
Weight: Trap: 8.5 pounds to 8.75 pounds; Plus Trap: 9.5 pounds
Length: Trap: 47" to 49"; Plus Trap: 47.25" to 49.25"
Stock: Select walnut
Finish: Blue
Price: Grade I: \$1,658 to \$1,878; Grade III: \$2,310 to \$2,530; Golden Clays: \$3,434 to \$3,654
Misc: Features include: conventional or Monte Carlo stocks, chrome-lined chambers, adjustable comb stock, Invector Plus choke tubes, ventilated side ribs and back-boring.

BROWNING CITORI XS



Gauge: 12 and 20, 28, .410
Barrel: 28", 30"
Weight: 6 to 8 pounds
Length: 45.5" to 47.5"
Stock: Walnut
Finish: Silver nitride with gold accents
Price: \$2,011 (12 ga. and 20 ga.), \$2,077 (28 ga. and .410)

BROWNING CITORI XT



Gauge:	12
Barrel:	30", 32"
Weight:	8 pounds
Length:	47", 49"
Stock:	Walnut
Finish:	Grayed silver nitride with gold accents
Price:	\$1,834 (Monte Carlo), \$2,054 (adjustable comb)

BROWNING SPORTING CLAYS MODELS



Gauge:	12 and 20; 2.75" to 3"
Barrel:	Lightning Sporting Clays: 30" back-bored Invector Plus barrels and either high post tapered or lower hunting rib; Special Sporting Clays: 28", 30", 32" with back-bored Invector Plus chokes porting; Ultra Sporter (12 ga.): 28", 30" with Invector Plus chokes and porting; 802 ES Sporter: 28" with 2" or 4" Invector Plus Extension tubes
Weight:	7.3125 to 8.625 pounds
Length:	45" (28" bbl.) to 49" (32" bbl. Special Sporting)
Stock:	Select walnut, Sporting Clays stock dimensions
Finish:	Blue
Price:	Lightning Sporting: \$1,564 to \$1,636; Ultra Sporter: \$1,800 to \$3,396; Special Sporting: \$1,636 to \$1,856; 802 ES Sporter: \$1,965
Misc:	All models are specifically designed for sporting clays. All have a single selective trigger, three trigger shoes in varying styles, and adjustable length of pull. Ribs vary in all models from 1/2" low (Ultra Sporter) to high tapered post ribs (Special and Lightning Sporting). Adjustable comb is optional on all sporting clays models.

EAA/BAIKAL IZH-27 AND MP-233 OVER/UNDER SHOTGUNS



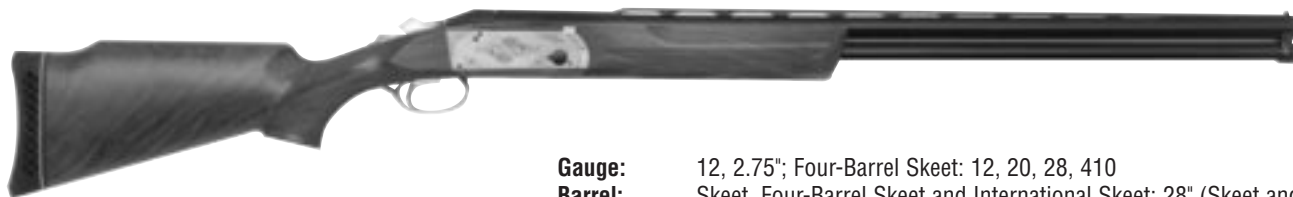
Gauge:	12, 16, 20, .410 (IZH-27); 12 (MP-233)
Barrel:	26.5", 28.5" (IZH-27); 26", 28", 30" (MP-233)
Weight:	7.28 pounds
Stock:	Walnut (MP-233), hardwood or walnut (IZH-27)
Finish:	Grayed
Price:	POR
Misc:	Hammer forged barrels, machined receivers, automatic tang safety (IZH-27), removable trigger assembly (single selective or double) (MP-233).

FABARM MAX LION OVER/UNDER



Gauge: 12 and 20
Barrel: 26", 28", 30"
Weight: 7.4 pounds
Stock: European walnut
Length: 47.5" to 51.5"
Finish: Silver
Price: \$1,899
Misc: 3" chamber, single selective adjustable trigger, auto ejectors, set of five choke tubes, locking fitted luggage case. Imported by Heckler & Koch, Inc.

KRIEGHOFF K-80 SERIES SPORTING SHOTGUNS



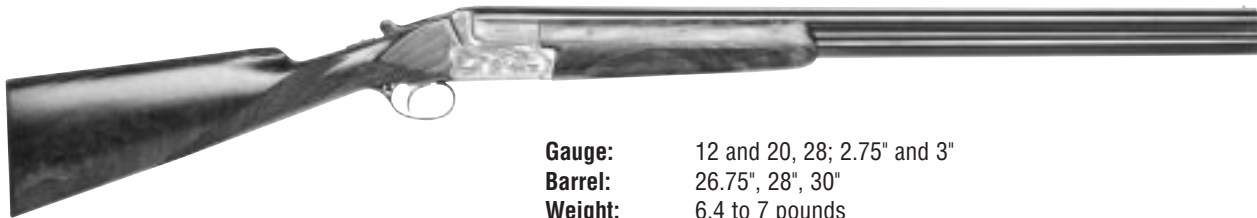
Gauge: 12, 2.75"; Four-Barrel Skeet: 12, 20, 28, 410
Barrel: Skeet, Four-Barrel Skeet and International Skeet: 28" (Skeet and Skeet, optional Tula or choke tubes); Trap: 30", 32" (IM and F, or choke tubes); Live Bird: 28", 30" (Imp. Mod. and Super Full, or choke tubes), 29" (Imp. Mod. and Special Full)
Weight: 7 to 8.5 pounds
Stock: European walnut
Finish: Satin nickel plated receiver, blue barrels
Price: \$6,900 to \$11,840 (Skeet); \$7,375 to \$9,975 (Trap); \$7,825 (International Skeet); \$16,950 (Four-Barrel Skeet)
Misc: Selective mechanical triggers, three rib designs, choke tubes available on all models at extra cost. Imported from Germany by Krieghoff International, Inc. Two barrel sets available.

MAROCCHI CONQUISTA O/U SHOTGUN



Gauge: 12, 2.75"
Barrel: 28", 30", 32"
Weight: 8 pounds
Stock: American walnut with checkering; right or left hand
Price: Grade I: \$1,995 to \$2,120; Grade II: \$2,330 to \$2,685; Grade III: \$3,599 to \$3,995
Misc: Has lower monoblock and frame profile. Fast lock time. Ergonomically-shaped trigger is adjustable for pull length and weight. Comes with five choke tubes, hard case. Imported from Italy by Precision Sales International.

MERKEL O/U SHOTGUNS



Gauge: 12 and 20, 28; 2.75" and 3"
Barrel: 26.75", 28", 30"
Weight: 6.4 to 7 pounds
Stock: Luxury grade walnut
Price: \$5,495 (200EL) to \$19,995 (303EL)
Misc: Models available 2000EL (Standard and Sporter), 2001EL (Standard and Sporter), 2002EL, 303EL. All boxlock except 303EL (sidelock). Kersten Double cross-bolt locking mechanism, single selective or double triggers, manual safety, automatic ejectors, English or pistol grip. Silver-grayed receiver with light scroll engraving or detailed hunting scenes.

PERAZZI O/U SHOTGUNS



Barrel: 12, 20, 28 ga. and 410 bore, 2.75" (3"-20 ga.)
26" to 34", standard chokes
Weight: 6.5 to 8.5 pounds
Stock: Select walnut
Finish: Deep blue to highly engraved with blue barrels
Price: MX8/MX8 Special Trap/Skeet: \$8,670 to \$9,010; MX8 Sporting Classic: \$10,950; MX12 Hunting: \$8,670 to \$9,290; MX20 Hunting: \$8,670 to \$9,290; MX28 and MX410 Hunting: \$17,330
Misc: Combo versions for trap are also available.

REMINGTON MODEL 300 IDEAL



Gauge: 12
Barrel: 26", 28", 30"
Weight: 7.375 pounds (26"), 7.625 pounds (28"), 7.875 pounds (30")
Length: 42.75" (26"), 45" (28"), 47.25" (30")
Stock: American walnut
Finish: Polished blue
Price: \$1,332
Misc: Positive closing forend latch design, mechanically set triggers and automatic ejectors.

RIZZINI MODEL S 782 EMEL



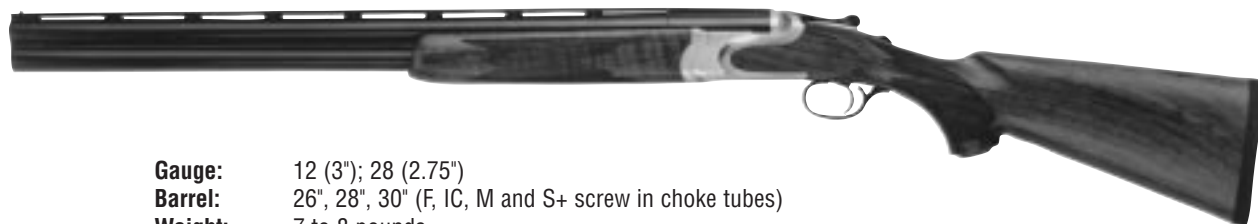
Gauge: 12, 2.75"
Barrel: 26", 27.5" (Imp. Cyl. and Imp. Mod.)
Weight: 7 pounds
Stock: Extra fancy select walnut
Finish: Silvered
Price: \$9,200 and up
Misc: Hand engraved with Bulino game scenes and gold inlays by Italy's most famous engravers. Delivered in all leather presentation style luggage case with accessories. Imported from Italy by Wm. Larkin Moore & Co.

RIZZINI MODEL UPLAND EL



Gauge: 12, 16, 20, 28, .410
Barrel: 26" or 27.5"
Weight: 6.6 pounds
Stock: Select Turkish walnut
Finish: Case-hardened
Price: \$2,800 and up
Misc: Boxlock action, single selective trigger, detailed engraving on silvered receiver. ABS type luggage case. Imported from Italy by Wm. Larkin Moore and Co.

RUGER RED LABEL & WOODSIDE



Gauge: 12 (3"); 28 (2.75")
Barrel: 26", 28", 30" (F, IC, M and S+ screw in choke tubes)
Weight: 7 to 8 pounds
Length: 43" to 47"
Stock: Choice of blue or stainless
Finish: Satin finished stainless receiver, blued rib and barrels
Price: \$1,399 (w/ Screw-in Chokes), \$1,443 (Sporting Clays—12 or 20 ga.) or \$1,889 (Woodside)
Misc: Red Label features hammer forged barrels, single selective trigger, tang safety, vent rib. Woodside series features a Circassian walnut stock with a pistol grip or straight stock. Available in 12 gauge and 20 gauge (Red Label only) with barrel lengths of 26", 28" or 30" with choke tubes, new stainless and engraved versions available. A 12 gauge Trap model with a deluxe walnut checkered stock is also available for \$2,850.

SKB MODELS 585 & 785 O/U SHOTGUNS



- Gauge:** 12 and 20, 28, 410; 2.75", 3"
Barrel: 26", 28", 30", 32", 34" (Inter-Choke tube, 12 ga.), 26", 28" (Inter-Choke tube, 20 ga.) 26", 28" (Inter-Choke tubes, 28 ga.), 26", 28" (IC & M, M & F, 410)
Weight: 6.5 to 8.5 pounds
Length: 43" to 51.4"
Stock: Walnut, checkered with high-gloss finish
Finish: Silver nitride finish with engraving
Price: Field: \$1,329 to \$2,029; Field Sets: \$2,129 to \$2,929; Sporting Clays and Sets: \$1,479 to \$2,999; Skeet and Sets: \$1,479 to \$4,089; Trap: \$1,429 to \$2,029; Trap Combo: \$2,129 to \$2,829;
Misc: Field, Trap, Skeet and Sporting Clays versions available in 585 and 785 (high grade) models; Boxlock action, automatic selective ejectors, single-selective trigger and manual safety; Gold packages available.

STOEGER/IGA O/U CONDOR AND CONDOR SUPREME DELUXE MODEL SHOTGUN



- Gauge:** 12 and 20, 2.75" & 3"
Barrel: 24" (Condor Supreme Deluxe); 26" (IC and M); 28" (M and F) choke tubes,
Weight: 7.5 to 7.8 pounds
Stock: Oil-finished hardwood, American walnut (Supreme Deluxe)
Finish: Blue
Price: \$390 (Condor) to \$490 (Supreme Deluxe)
Misc: Single trigger, vent rib, tang safety, extractors, checkered pistol grip and forend, recoil pad standard. Condor Supreme features ejectors, single selective trigger, red front & mini-beads, upgraded wood. Imported from Brazil by Stoeger Industries.

TRISTAR TR I, II "EMILLIO RIZZINI" O/U



- Gauge:** 12 and 20
Barrel: 26" to 30"
Weight: 7.5 to 8 pounds
Stock: Semi-fancy walnut, semi-beavertailed forend, black recoil pad
Finish: Blue or silver
Price: POR
Misc: Boxlock action with four locks locking system, auto ejectors, single selective trigger, auto safety. Imported from Italy by Tristar Sporting Arms, Ltd.

WEATHERBY ATHENA III, IV, V & ORION O/U SHOTGUN



Gauge:	12 and 20, 28, 3"
Barrel:	Field: 26", 28" & 30" with IMC multi choke tubes. Sporting: 28" & 30" with Sk/Sc1/Sc2/IC/Mod chokes
Weight:	6.5 to 9 pounds
Length:	43.25" to 49.5"
Stock:	American walnut
Finish:	Athena: Silvered engraved receiver, blue barrels; Orion: Blue
Price:	\$1,999 (Athena III), \$2,399 to \$2,799 (Athena IV & V); \$1,199 to \$1,899 (Orion Models)
Misc:	Selective automatic ejectors, single selective inertia set trigger.

PUMP ACTION SHOTGUNS

BENELLI NOVA PUMP SHOTGUNS



Gauge:	12, 2.75", 3", 3.5"
Barrel:	18.5" (Nova Pump Slug), 24", 26", 28"
Weight:	7.2 to 8.1 pounds (Nova Pump Rifled Slug)
Stock:	Synthetic or camo (Nova Pump)
Finish:	Athena: Silvered engraved receiver, blue barrels; Orion: Blue
Price:	\$325 to \$575 (Nova Pump Rifled Slug)
Misc:	Three choke tubes provided (improved cylinder, modified and full).

BROWNING BPS



Barrel:	Hunting/Stalker: 10 ga. Mag. 3.5", 24" or 30" Invector; 12 ga. Mag. 3.5", 24" to 30" Invector-Plus; 12 ga. 3", 22" and 26" to 30" Invector-Plus; Standard Buck Special: 12 ga. 3", 24" Slug/Buck shot; Upland Special: 12 ga. and 20 ga. 3", 22" Invector-Plus; Hunter: 20 ga. 3", 26" to 28" Invector-Plus, 28 ga. 2.75" 26" to 28" Invector; Youth & Ladies: 20 ga. 3", 22" Invector
Weight:	6.75 pounds (Youth & Ladies) to 9.5 pounds (10 ga. Hunting/ Stalker)
Length:	41.75" (Youth) to 52" (10 ga.)
Stock:	Walnut and graphite-fiberglass composite (Stalker)
Finish:	Blue and dull matte blue (Stalker)
Price:	\$408 (Buck Special) to \$602 (10 ga. Camo Pump)
Misc:	Bottom eject, vent-rib (adjustable sights on Buck Special), pump action shotguns from Browning. Stalker model has a composite stock and forend with a totally non-reflective surface over the entire gun. Imported from Japan by Browning.

EAA/BAIKAL IZH-81 AND MP-133 PUMP ACTION SHOTGUN



Gauge: 12, 3" (IZH-81), 12, 3.5" (MP-133)
Barrel: 18.5", 20", 22", 24", 26", 28" (IZH); 18.5", 20", 24", 26", 28" (MP)
Weight: 7.72 pounds
Stock: Hardwood, walnut or synthetic (IZH); hardwood walnut or polymer (MP)
Finish: Deep blue (IZH), black (MP)
Price: POR
Misc: MP-133 has a tubular magazine with 4+1 rounds, IZH-81 has push button trigger block safety. Imported by European American Armory.

FABARM FP6 PUMP ACTION SHOTGUN



Gauge: 12, 3"
Barrel: 20", 14" TriBore™ system
Weight: 6.4 to 6.7 pounds
Stock: Polymer stock and forearm
Finish: Matte, carbon fiber or black protective
Price: \$499 to \$525
Misc: Lockable hard plastic case, rear Picatinny rail, flip-up front sight or blade sight and oversized safety button; 3" chamber; cylinder barrel-threaded for chokes. Imported by Heckler and Koch, Inc.

ITHACA MODEL 37 PUMP SHOTGUNS



Gauge: 12, 16, 20, 3"
Barrel: 20" to 30" with chokes in DS, DSR, DSR1, DSR2 and CTF.
Weight: 6.75 to 7 pounds
Stock: Walnut and Monte Carlo (Deerslayer II) and synthetic
Finish: High-gloss lacquer (Deerslayer II) and camo (Turkeyslayer)
Price: \$546 to \$696
Misc: Five shot magazines, extra barrels and chokes available, bottom ejection, accommodates both right and left-hand shooters. Water-fowler, Turkey slayer and deerslayer models available in Realtree camo patterns.

MOSSBERG MODEL 500 SPORTING SERIES



Gauge:	12 and 20, 410, 3"
Barrel:	18.5" to 28" barrels with fixed or Accu-choke, plain or vent rib
Weight:	6.25 (410) to 7.25 (12) pounds
Length:	48" (28" barrel)
Stock:	Checkered walnut-stained hardwood
Finish:	Blue
Price:	\$322 to \$382 (Sporting Combos)
Misc:	White bead front sights, ambidextrous thumb safety, twin extractors and disconnecting safety. Mossberg Cablelock included.

MOSSBERG MODEL 500 SLUGSTER



Gauge:	12 and 20, 3" chamber
Barrel:	24" ported rifled bore barrel
Weight:	7.25 pounds
Length:	44"
Stock:	Walnut with dual comb
Finish:	Blue
Price:	\$367 to \$398
Misc:	Ambidextrous safety, twin extractors, recoil pad and quick detach swivel studs. Comes with scope mount. Mossberg Cablelock included.

MOSSBERG MODEL 835 CROWN GRADE ULTI-MAG SHOTGUN



Gauge:	12, 3.5"
Barrel:	24" and 28" Accu-Mag tubes, ported 24" rifled bore
Weight:	7.75 pounds
Length:	48.5"
Stock:	Cut checkered walnut or synthetic camo
Finish:	Blue or camo
Price:	\$361 to \$571
Misc:	Ambidextrous safety and twin extractors, back-bored and ported barrel. Mossberg Cablelock included.

REMINGTON MODEL 870 PUMP ACTION SHOTGUNS



Gauge: 12 and 20
Barrel: 18" to 30"
Weight: 6 to 8 pounds
Length: 39.5" to 50.5"
Stock: American walnut and synthetic (Black and camo), Hardwood
Finish: Blue, Matte black, camo
Price: \$316 to \$775
Misc: Models available: Wingmaster, Special Purpose, Express, Youth, Classic Trap, Marine Magnum, Turkey, Deer, Police and Left-hand versions.

REMINGTON MODEL 870 EXPRESS HD



Gauge: 12, 3"
Barrel: 18"
Weight: 7.25 pounds
Length: 38.5"
Stock: Black synthetic stock and forend
Finish: Matte black
Price: \$316
Misc: Features an 18" cyclinder choke barrel and bead front sight.

REMINGTON MODEL 870 SUPER MAGNUM



Gauge: 12, 3", 3.5"
Barrel: 23", 26" or 28"
Weight: 7.25 to 7.5 pounds
Length: 40.5 to 48.5"
Stock: Hardwood or black synthetic and camo
Finish: Matte or polished blue
Price: \$369 to \$649
Misc: Available in turkey and combo versions. Also available in Wingmaster, Special Purpose & Express.

WINCHESTER MODEL 1300 PUMP SHOTGUNS



Gauge:	12 and 20, 3"
Barrel:	18", 22", 24", 28" with standard Winchester tubes
Weight:	6.4 to 7.25 pounds
Length:	29" to 50"
Stock:	American walnut or WinTuff laminated with cut checkered pistol grip
Finish:	Blue and non-glare finish
Price:	\$343 (Ranger) to \$391 (Walnut & Upland Special)
Misc:	Roll-engraved receiver, cross-bolt safety, twin-action slide bars.

WINCHESTER MODEL 1300 DEER & TURKEY GUNS



Gauge:	12 and 20, 3"
Barrel:	22" to 28" (Deer: rifled, VR or smooth; Turkey: VR or smooth)
Weight:	6.75 to 7.25 pounds
Length:	42.75" to 49"
Stock:	Deer: Black composite stock and forend Turkey: Realtree® Camo synthetic
Finish:	Deer: Matte black Turkey: Matte black
Price:	\$329 (black synthetic) to \$353 (rifled barrel Deer model)
Misc:	Deer models available with either rifled or smooth barrels (with cylinder choke tube). Turkey comes with cylinder choke tube. Deer model features open sights and is drilled and tapped for scope mounting. Turkey model features a ventilated rib top, front bead sight and is also drilled and tapped for a scoped sight.

SEMI-AUTOMATIC SHOTGUNS

BENELLI LEGACY MODEL



Gauge:	12 and 20, 3"
Barrel:	24", 26", 28" (SK, IC, M, IM and F)
Weight:	7 to 7.5 pounds
Length:	49.625"
Stock:	European walnut
Finish:	High gloss etched two-piece steel/aluminum receiver with bright on lower and blue upper
Price:	\$1,380
Misc:	Montefeltro rotating bolt inertia recoil operating system.

BENELLI MONTEFELTRO SUPER 90 SERIES



Gauge: 12 and 20, 3"
Barrel: 21", 24", 26" and 28" (tubes in F, IM, M and IC)
Weight: 5.75 to 7.5 pounds
Length: 40" to 45.5"
Stock: Checkered walnut
Finish: High gloss
Price: \$975 to \$1,005
Misc: Inertia recoil, rotating bolt action. Scope mount included. Left hand version available.

BENELLI M1 SUPER 90 SERIES



Gauge: 12 and 20, 3"
Barrel: 21", 24", 26", 28" (choke tubes)
Weight: 6.8 to 7.25 pounds
Length: 39.75" to 41" overall
Stock: High impact black polymer; wood on 26", 28"
Finish: Blue (Field)
Price: \$960 to \$1,145
Misc: Ventilated rib barrel, comes with set of five choke tubes (Field), left-hand model and slug barrel available.

BENELLI M4 SUPER 90



Gauge: 12, 2.75", 3"
Barrel: 18.5"
Weight: 8.4 pounds
Length: 39.8"
Stock: Synthetic
Finish: Matte
Price: POR
Misc: Gas-operated, quickly reconfigured without tools with choice of three modular buttstocks and two barrels.

BERETTA AL391 URIKA SERIES



Gauge: 12 and 20, 3"
Barrel: 24", 26", 28", 30" 32" (Mobilchoke tubes)
Weight: 6.61 to 7.27 pounds
Stock: Select walnut, adjustable drop cast or matte black synthetic
Finish: Semi-gloss
Price: \$984 (Urika) to \$1,180 (Urika Gold Trap or Sporting)
Misc: Ambidextrous safety, magazine cut-off; available in Urika, Urika Gold (Trap or Sporting) Urika Synthetic, Urika Camouflage and Urika Youth.

BERETTA 1201FP RIOT



Gauge: 12, 3"
Barrel: 18" (fixed cylinder choke)
Weight: 6.3 pounds
Stock: Matte black technopolymer, grooved
Finish: Matte black
Price: \$890
Misc: Designed for adverse field conditions. Blade front, adjustable rear sights. Five-round magazine capacity. Imported from Italy by Beretta.

BERETTA PINTAIL AUTO SHOTGUN



Gauge: 12, 3", 28"
Barrel: 24" or 26" (Mobilchoke tubes)
Weight: 7.3 pounds
Stock: Checkered black synthetic
Finish: Matte black
Price: \$757 to \$1,047
Misc: Fully rifled barrel with 1:28" twist. Rifled slug available in combo set. Comes with sling swivels. Imported from Italy by Beretta.

BROWNING GOLD DEER HUNTER SEMIAUTOMATIC SHOTGUN



Gauge: 12, 3"
Barrel: 22" rifled or standard invector with 5" rifled tube
Weight: 7.75 pounds
Stock: Walnut
Finish: Blue or Mossy Oak Breakup
Price: \$772 to \$909 (Mossy Oak)
Misc: Special cantilever scope mount.

BROWNING GOLD SEMIAUTOMATIC SERIES



Gauge: 10, 3.5"; 12 and 20, 3", 3.5"
Barrel: 26" to 30" with Standard Invector (10 ga.) and Invector Plus (12, 20 ga.) choke tubes
Weight: 6.75 (20 ga.) to 10.9 (10 ga.) pounds
Length: 46.25" (20 ga.) to 52" (10 ga.)
Stock: Walnut, graphite/fiberglass composite (10 ga. Stalker only)
Finish: Blue, Mossy Oak Breakup
Price: POR
Misc: Self-cleaning gas system and a lightweight composite buffer and aluminum gas piston help reduce recoil. Back-bored barrels. Four-shot magazine capacity. Browning 10 gauges manufactured in Japan. Now available in camo. 12 and 20 gauges made in Belgium.

EAA/BAIKAL MP-153 SEMIAUTOMATIC SHOTGUN



Gauge: 12, 3.5"
Barrel: 18.5", 20", 24", 26", 28"
Weight: 7.8 pounds
Stock: Hardwood, walnut or polymer
Finish: Black
Price: POR
Misc: Full length rib, tube magazine holds 4 + 1 rounds. Imported by European American Armory.

FRANCHI 48/AL



Gauge: 12 and 20, 28, 2.75"
Barrel: 24", 26", 28" (Franchoke IC, M, Full choke tubes)
Weight: 5.2 pounds
Stock: Walnut with checkered grip and forend
Price: \$700 to \$950
Misc: Chrome-lined bores, cross-bolt safety, recoil operating action. Imported from Italy by Benelli U.S.A.

MOSSBERG MODEL 9200 CROWN GRADE AUTO SHOTGUN



Gauge: 12, 3"
Barrel: 24" (rifled bore or Accu-Choke tubes) or 28" (Accu-Choke)
Weight: 7.5 pounds
Length: 48" overall
Stock: Walnut
Finish: Blued, camo finish available
Price: \$517 to \$556 (Camo Shotgun)
Misc: Shoots all 2.75" or 3" loads without adjustment. Alloy receiver, ambidextrous top safety.

REMINGTON SP-10 MAGNUM AUTO SHOTGUN



Gauge: 10, 3.5"
Barrel: 26" or 30"; Remington chokes
Weight: 10.5 to 11 pounds
Length: 47.5" (Magnum Combo) to 51.5"
Stock: Walnut or synthetic (black or camo)
Finish: Matte, satin or camo
Price: \$1,265 to \$1,385
Misc: Ventilated rib barrel, three-shot magazine, full and modified.

REMINGTON 11-87 AUTOLOADING SHOTGUNS



Gauge: 12 and 20
Barrel: 21" to 30"
Weight: 6.5 to 8.5 pounds
Length: 41.5" to 50.5"
Stock: Satin finished American walnut, black or camo sythetic
Finish: Blued, camo
Price: \$756 to \$935
Misc: Available with scope mounts, rifle sights and vent ribs. Extra barrels optional. Available models: Premier (RH & LH), Upland Special, Deer and Turkey versions, Special Purpose, Police, Super Magnum 3", 3.5"

REMINGTON MODEL 1100 AUTOLOADING SHOTGUNS



Gauge: 12 and 20; 21" (Turkey and Youth)
Barrel: 21" (LT-20 Deer and Youth), 26" or 28"; Rem Choke tubes
Weight: 6.5 to 7.5 pounds
Length: 40.5" to 48"
Stock: Black synthetic or camo
Finish: Matte black
Price: \$540 to \$620
Misc: Vent Rib models standard.

REMINGTON 1100 TARGET AUTOLOADING SHOTGUNS



Gauge: 12 Classic trap, Sporting 12 and 20, 28
Barrel: 25", 28", 30"
Weight: 6.5 to 8.25 pounds
Length: 45.75" to 46"
Stock: American walnut
Finish: Polished blue
Price: \$859 to \$885
Misc: Models feature sharp-cut checkering on the stocks and vent rib barrels with front bead sight. Extended Rem. chokes.

SIDE-BY-SIDE SHOTGUNS

AMERICAN ARMS GENTRY & BRITTANY SHOTGUNS



Gauge: Brittany: 12 and 20, 3"; Gentry: 12 and 20, 28, .410 bore, 2.75", 3"
Barrel: 26", 28", IC/M, M/F (Gentry); 26", CT-3 (Brittany)
Weight: 6.25 to 6.75 pounds
Stock: Hand checkered walnut
Finish: Case-hardened, engraved, steel frame
Price: \$750 to \$885
Misc: The Gentry and Brittany have boxlock actions. Imported from Spain by American Arms.

BERETTA 470 SILVER HAWK SIDE-BY-SIDE SHOTGUN



Gauge: 12 and 20, 3"
Barrel: 26" or 28"
Weight: 5.9 to 6.5 pounds
Stock: Highly select walnut, finely checkered.
Finish: Traditional oil, matte
Price: \$3,630 to \$3,755
Misc: Auto ejection or manual extraction, Electric Discharge Machining, progressive bottom locking system, corrosion-resistant, silver chrome finish on metal parts, single selective trigger, gold inlaid Hawk's head on top lever.

EAA/BAIKAL IZH-43 AND MP-213 SIDE-BY-SIDE SHOTGUNS



Gauge: 12 and 20 (IZH-43); 12 (MP-213)
Barrel: 24", 26", 28"
Weight: 7.3 pounds
Stock: Walnut or hardwood
Finish: Matte
Price: POR
Misc: Receivers and mono blocks, automatic tang safety (IZH-443). Imported by European American Armory.

EMF 1872 STAGECOACH SHOTGUN



Gauge: 12, 3"
Barrel: 20"
Stock: Checkered walnut
Finish: Case-hardened receiver, blued barrels
Price: \$575
Misc: Functioning external hammers, two triggers, manual safety. Made in Spain by Aral.

GARBI MODEL 100 SERIES SIDE-BY-SIDE



Gauge: 12, 16, 20 and 28
Barrel: 28" standard, available in any length 26" to 28"
Weight: 5.5 to 7.5 pounds
Stock: European walnut
Finish: Color case-hardened, coin-finished optional
Price: \$3,700 and up
Misc: H&H type sidelock action, choked to customer specifications (IC-M standard), double standard trigger, upgraded wood and many other options available. Imported from Spain by Wm. Larkin Moore.

GARBI MODEL 200 SIDE-BY-SIDE



Gauge: 12, 16, 20, 28
Barrel: 26" or 28"
Weight: 5.5 to 7.5 pounds
Stock: Well-figured walnut
Finish: Case-hardened
Price: \$8,000 and up
Misc: Heavy-duty locks and magnum proofed. Barrels choked to customer specifications, sidelock action and automatic ejectors. Double triggers standard but single trigger option available. Very fine Continental-style floral and scroll engraving. Imported from Spain by Wm. Larkin Moore.

IAR COWBOY EXPOSED HAMMER SIDE-BY-SIDE SHOTGUNS



Gauge: 12
Barrel: 20" or 28"
Weight: 7 pounds
Stock: Walnut
Finish: Bright finished lock with barrel blue or color case-hardened lock and brown patina finished barrel
Price: \$1,895
Misc: Two exposed hammer models available: both in either 20" or 28" barrels. Manufactured in Italy by European craftsmen.

MERKEL SIDE-BY-SIDE SHOTGUNS



Gauge: 410, 28, 20, 16, 12, 2.75" or 3"
Barrel: 26.75" or 28"
Weight: 6 to 7 pounds
Stock: Oil finished walnut; regular or luxury grade
Finish: Hand-engraved gray receiver
Price: \$2,995 (47E) to \$9,695 (447SL)
Misc: Boxlock Models: 47E, 147E, 147EL, 1620, 1620EL, 280EL and 360EL; Sidelock Models: 47SL, 147SL, 247SL, 1620SL, 280SL, 360SL and 447SL. All Merkel Side-by-Side Shotguns are equipped with Greener cross bolt locking systems, double under barrel locking lugs and automatic ejectors. Imported from Germany by GSI Inc.

PIOTTI MODEL KING



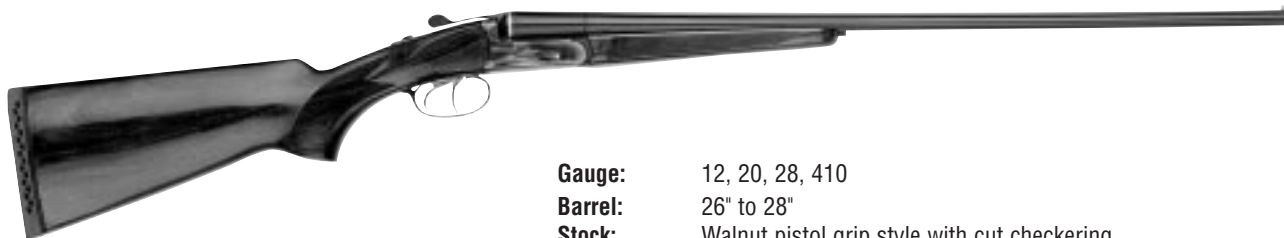
Gauge: 12, 16, 20, 28, .410
Barrel: 25" to 30" (12), 25" to 28" (16, 20, 28, .410) or to customer specs. Chokes as specified.
Weight: Built to customer specified weight
Stock: Fancy Turkish walnut or may be selected by customer
Finish: Case-hardened or coin-finished
Price: \$20,900 and up
Misc: A hand-made best quality gun. Every detail may be specified by the customer. Each gun is made to order. Approximate delivery time is 18 months. Imported from Italy by Wm. Larkin Moore.

STOEGER/IGA UPLANDER SIDE-BY-SIDE SHOTGUN



Gauge: 12, 16, 20, 28, .410 (fixed chokes);
12 and 20 (Screw-In Chokes and Supreme)
Barrel: 24", 26" and 28"
Weight: 6.7 to 7.5 pounds
Stock: Brazilian matte lacquered hardwood,
American walnut checkered stock (Supreme)
Finish: Blue
Price: \$325 to \$435 (Supreme)
Misc: Automatic safety, extractors only. Double triggers and solid
matted barrel rib. Imported from Brazil by Stoeger Industries.

TRISTAR "ROTA" MODEL 411 SIDE-BY-SIDE SHOTGUN



Gauge: 12, 20, 28, 410
Barrel: 26" to 28"
Stock: Walnut pistol grip style with cut checkering
Finish: Blued frame or case-colored frame
Price: POR
Misc: Double triggers, top tang safety, solid rib with matted sight plane.

SINGLE-SHOT SHOTGUNS

BROWNING BT-100 TRAP SERIES



Gauge: 12, 2.75"
Barrel: 32" to 34"
Weight: 8.4 to 8.6 pounds
Stock: Walnut with high gloss
Finish: Blue or stainless steel
Price: Grade I: \$1,667 to \$2,095; SS Grade: \$2,487 to \$2,536;
Thumbhole Stock: \$2,337 to \$2,825
Misc: Features include Invector Plus choke tubes (or conventional full
choke barrel on some models), conventional stock (with adjustable
comb), Monte Carlo or Thumbhole stock, high ventilated rib, front
bead/post sight, gold plated trigger, and ported barrel. Quick
removable trigger with adjustable trigger pull. Ejector selector.

EAA/BAIKAL IZH-18 SINGLE SHOT SHOTGUN



Gauge: 12, 16, 20, .410
Barrel: 26.5", 29.5"
Stock: Walnut stained hardwood
Finish: Black
Price: POR
Misc: Hammer forger steel barrel, machined steel receiver, cross trigger block safety, decocking/cocking lever. Imported by European American Armory.

HARRINGTON & RICHARDSON TOPPER MODEL 098



Gauge: 12, 16, 20, 28, .410: 3" and 2.75"
Barrel: 26", 28"
Weight: 5 to 6 pounds
Stock: Black finished hardwood
Finish: Blued
Price: \$115 to \$135 (Deluxe)
Misc: Satin nickel frame, brake open action with slide-lever release, automatic ejector. Available in Youth and Deluxe.

KRIEGHOFF KS-5 SPECIAL



Gauge: 12, 2.75"
Barrel: 32" or 34"
Weight: 8.5 pounds
Stock: European walnut
Finish: Nicked or blue receiver, blue barrels
Price: \$4,695 (KS-5 Trap: \$3,695 to \$4,120)
Misc: Adjustable rib and stock. Adjustable or optional release trigger. Fitted aluminum case included. Imported from Germany by Krieghoff International, Inc.

KRIEGHOFF K-80 SINGLE BARREL TRAP GUN



Gauge: 12, 2.75"
Barrel: 32" or 34" Unsingle; 34" Top Single, fixed full or choke tubes
Weight: 8.75 pounds
Stock: European walnut
Finish: Satin nickel
Price: \$7,950 (Unsingle) to \$9,975 (Top Single Combo)
Misc: Selective mechanical adjustable trigger. Fixed Full or choke tubes. For removable trigger option add \$1,000.

NEW ENGLAND FIREARMS PARDNER SHOTGUNS



Gauge: 12 and 20, .410 (3"); 16, 28 (2.75")
Barrel: 26", 28", 32"
Weight: 5 to 6 pounds
Length: 43" overall
Stock: Walnut-finished hardwood
Finish: Blue
Price: \$106
Misc: Side-lever action release. Youth model available.

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