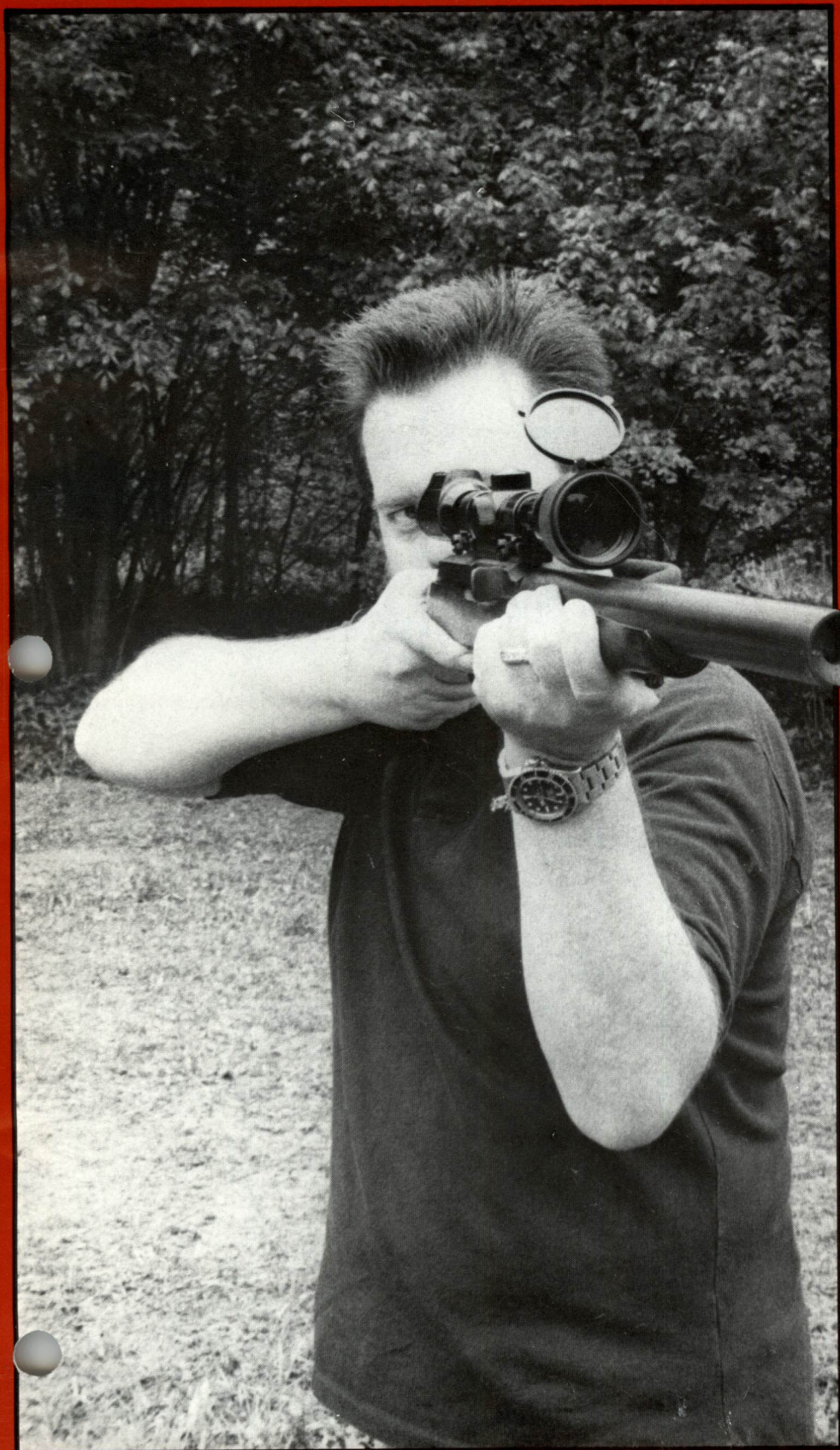


# Machine Gun News



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# THE MAGAZINE FOR FULL-AUTO ENTHUSIASTS MACHINE GUN NEWS

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On the Cover: John Leasure and the business end of the Precision Arms SR45 suppressed Marlin Camp Carbine.  
Photo by Polly Walter

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# Mail

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I received two MGDB's. At first, I thought Dan had to write two volumes. But on finding the same one in each box, I am returning the other one. The book was well worth waiting for. Nice job, Dan.

Robert B.

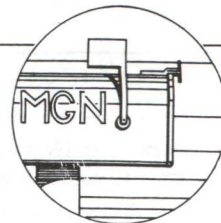
## SATISFIED CUSTOMER

I think Machine Gun News is a great publication! I usually read each issue cover-to-cover as soon as I get it. I'm writing this letter to share with your readers a very positive experience I recently had buying a new machinegun, as the result of reading one of your articles.

For the past three years, I've been interested in NFA firearms. I've been able to own or fire many of the popular hand-held submachineguns. After reading the article on "Convertible Brownings" in Machine Gun News I decided to purchase my first belt-fed machine gun, a Browning 1919A4 in 7.62 NATO. Because I had absolutely no experience with belt-fed machineguns, I wanted to buy the Browning from somebody who would show me how to set it up, fire it, field strip it, etc.

After calling several Class III dealers, I decided to buy the gun from Kent Lomont in Poneto, Indiana. He had a brand new transferrable DLO manufactured 1919A4 just waiting for a new home! When the transfer was approved, I made the five hour car trip to Poneto. Visiting Kent was well worth the travel time, because he did an outstanding job of explaining how a Browning should be handled and cared for. Further, he had all the accessories and spare parts in stock so I didn't have to place orders with other suppliers.

The next day I loaded up some belts and went out to the range. Setting up the Model 1918 tripod for the first time took me a few minutes but soon thereafter I was "getting the lead out". That Browning never missed a beat! It is so nice not having to hold the gun, just grab the pistol grip and squeeze the trigger. The cyclic rate is low enough that I could easily shoot single shots, which is nice for setting up the traverse and elevation on the tripod. Those 225 round belts are fantastic, five times the magazine



capacity of what I'm used to. Now I'll probably become an ammunition junkie. Thanks again for a great magazine!

Anonymoose

## LOOKING FOR FIREPOWER

A couple of years ago I was a member of the "American Firepower Association" and then I lost my job during which my membership expired.

Regrettably it was my favorite magazine alongside the discontinued Phil Engledrum's "Handgun Tests" series and variations.

If anyone is currently a member and has any "Firepower" to sell or pass on; I would gladly pay for shipping. (I would love my membership back!!) Can you help??

Tom Cook  
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## UNKNOWN?!!

I recently spent a week down in Salt Lake City, Utah and spoke to the only Class III storefront dealer in the region down there. During the course of the conversation I asked him why he didn't sell MGN magazine in his store?

His reponse - he had never heard of it!! Even though he supplies and services all the area regional law enforcement needs for Class III items! Amazing!?

I am sending you his name & address so that you can send him a "complimentary copy" and your bulk sales information.

W.C.

Editor's Note: We have an excellent dealer program for Machine Gun News. If you would like to sell MGN in your store or at gun shows, just call or write.

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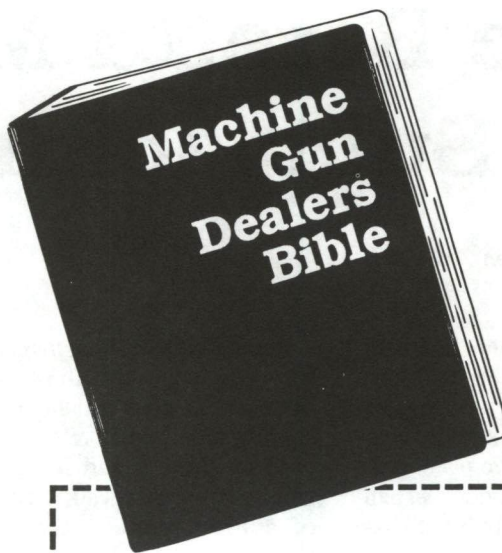
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# The Beretta Model 12S Submachine Gun

by Al Paulson

**T**he distinctive Model 12S submachine gun exudes the traditional Beretta qualities of robust engineering, and excellent fit and finish. An unusually compact design, smooth action, two pistol grips and a sturdy folding stock provide fast handling and excellent hit probability at close range. This article will look at the development of the Model 12S, evaluate its handling characteristics and performance, examine options for suppressing the 12S, and discuss its role in the modern marketplace.

This Beretta submachine gun is the culmination of an incredibly long tradition of submachine gun design. As we've seen in recent issues of *Machine Gun News*, Beretta designer Tullio Marengoni developed submachine guns that have served with distinction since 1918. His designs were characterized by superb handling and accuracy, and excellent workmanship. These Berettas had a remarkable production run from the Model 1938A in 1938 until the last batch of the Model 38/49 was made for the West German Border Patrol in 1962.

Beretta's outstanding magazines were ultimately used by about 20 different submachine guns around the world, and slightly modified Beretta magazines were used for the Uzi and Ingram submachine guns, as well. All in all, a remarkable series of achievements. But then Beretta development headed in a very different direction.

As Tullio Marengoni eased into retirement, Domenico Salza spent six years of intensive research to develop a radically new weapon. His research culminated in the Beretta Model 12, which went into production in 1959 at Fabbrica D'Armi Pietro Beretta SpA in Gardone Valtrompia, Brescia, Italy.

While constructed of a tubular receiver and stamped components to speed production and minimize cost, the stampings are unusually thick, the welding is meticulous, and the overall fit and finish exude a high quality one does not normally expect in a third-generation submachine gun. Like some other innovative designs of the period (including the Czech Model 23 and IMI

Uzi), the Beretta Model 12 features a bolt that enshrouds much of the barrel to minimize the overall length of the weapon. A grip safety on the front of the rear pistol grip, and a minimalist folding stock complete its unique appearance. Salza wisely retained the excellent magazine developed by Marengoni, but increased capacity of the standard magazine from 30 to 32. The rest of the Model 12 design, however, represented a complete departure from the older Beretta designs.

Nowhere is this departure more evident than the design of the chrome-plated bolt. The bolt is hollowed out to accommodate the barrel, which floats within the bolt during cycling. A robust feed ramp extending from the barrel locks into a notch cut in the bolt as a cartridge is fired to stabilize the barrel. Two lugs near the front of the barrel mate with notches inside the barrel retaining nut to further restrict barrel movement.

This arrangement permits a remarkably compact design. Furthermore, since the mass of the wrap-around bolt is unusually far forward at the time of firing, muzzle



climb during full-auto bursts is much less than competing designs. The tradeoff of this arrangement is that it does not provide the same accuracy at long range as a fixed-barrel design.

The bolt cycles in a receiver tube into which are stamped five deep, wide grooves to accumulate dirt and powder residue in a manner reminiscent of the German MP40. Combined with Salza's innovative bolt design and a recoil spring similar to a Sten, the Beretta Model 12 functions smoothly and reliably even when subjected to mud, sand and snow.

The Beretta's human engineering is enhanced by its excellent folding stock,

squeezed to draw the cocking handle rearward as well as to fire the weapon. It is the only grip safety on any uncustomized weapon whatsoever that is both comfortably and reliably engaged by my small hands. This feature prevents the gun from firing when dropped, which has been a chronic cause of casualties since open-bolt submachine guns were first issued. The Model 12 also includes an auxiliary push-button safety just above the center of the rear grip. It actually functions by blocking the grip safety.

Semiautomatic or full-auto fire is selected on the Model 12 by a button just above and in front of the rear grip. Pushing the button from the left side provides semi-

stamped S for the safe position, 1 for semi-automatic and R for repeat (full auto). The Model 12S also uses thicker metal for the sight guards, and incorporates both windage and elevation adjustments in the front sight.

The rear sight was changed from U-shaped notches to apertures. The latch securing the rear receiver cap was moved to the top of the receiver to facilitate fastening and unfastening. Proper latch engagement can be more easily checked at a glance with the new design, as well. And the finish was changed from phosphate to epoxy resin.

Finally, the already excellent stock was improved. The Model 12S stock locks automatically into position when opened fully. The latch at the front of the stock need not be operated, however, to open the stock from its folded position—only to fold the stock. A new latch also locks the butt securely in the folded or extended position.

The minimalist stock on the Beretta Model 12S looks too small and simple to be either robust or comfortable. Yet it is exceptionally good on both counts, enabling the shooter to quickly achieve an excellent, repeatable cheek weld. The stock remains rigid during firing. And it virtually disappears when folded out of the way, so it in no way interferes with firing the gun with the stock folded. All in all, I'd rate it as the best folding stock ever designed for a submachine gun.

Disassembly of the Beretta is simple and straightforward.

Begin, as with any gun, by removing the magazine and clearing the (continues)



The AWC MK-9 suppressor (top) has a mount for the Walther MPL and MPK submachine guns, while the shorter MK-9A can has an Uzi mount. The separate rear end cap and thermal diffuser convert either suppressor to fit the Beretta 12S. These specialized end caps actually replace the barrel-retaining nuts on the respective submachine guns.

forward pistol grip, and massive steel sight protectors which can be used as very fast auxiliary sights at close range. The forward pistol grip does take some getting used to, since it has a very different angle than the rear grip, and since few submachine guns include this feature. With experience, however, it becomes apparent that the angle of the forward grip is exactly right. The forward grip seems to reduce group size on full auto, and dramatically speed target acquisition at handgun ranges. The Beretta Model 12 was available with the previously mentioned folding stock or with a fixed wooden stock.

The Beretta's human engineering is enhanced by a grip safety on the front of the rear grip. This safety locks the bolt in place, whether it is in the open or closed position. Thus, the grip safety must be

automatic fire, while pushing the button from the right side provides full auto.

The Model 12 was sold in large numbers to the Italian army and police, Tunisia, Saudi Arabia, Libya, Nigeria, Gabon, Brazil and Venezuela. It was also manufactured under license in Indonesia and Brazil.

An improved version, called the Model 12S, replaced the Model 12 about the time Brazil began manufacturing the older version. (Beretta has a long tradition of selling manufacturing rights and tooling for old models to Third World countries.) The general characteristics of the Model 12S are summarized in Table 1.

The most conspicuous change in the 12S is the incorporation of the safety and selector into a single lever located near the top of the left side of the rear grip. The receiver is

**Table 1. General characteristics of the Beretta 12S submachine gun.**

Caliber	9x19mm
System of operation	blowback, open bolt, selective fire
Cyclic rate	500-550 rpm
Weight	7.04 lb (3.20 kg)
Feed device	double-row, double-position feed, 20, 32 or 40 rounds
Length overall, stock folded	16.46 in (41.8 cm)
Length overall, stock extended	25.98 in (66.0 cm)
Barrel length	7.87 in (20.0 cm)
Front sight	adjustable post
Rear sight	L-type flip aperture for 100 and 200 meters



weapon. Just forward of the front grip is a catch that secures the barrel-locking nut. Pull the catch away from the receiver while unscrewing the nut. After removing the nut, pull the barrel out of the receiver, which will also remove the bolt. Lift the rear of the barrel out of the top of the bolt and withdraw the barrel rearward. Now lift the latch at the rear sight and unscrew the rear receiver cap. The recoil spring can now be removed. This completes basic field stripping.

Periodically, one may wish to clean the trigger group. Remove the spring-locked crossbolt just forward of the selector lever. Set the selector to 1. Now a few slaps with the heel of the hand alternating between the front and rear of the grip will loosen the grip enough so you can slide it off the gun. No further disassembly is necessary.

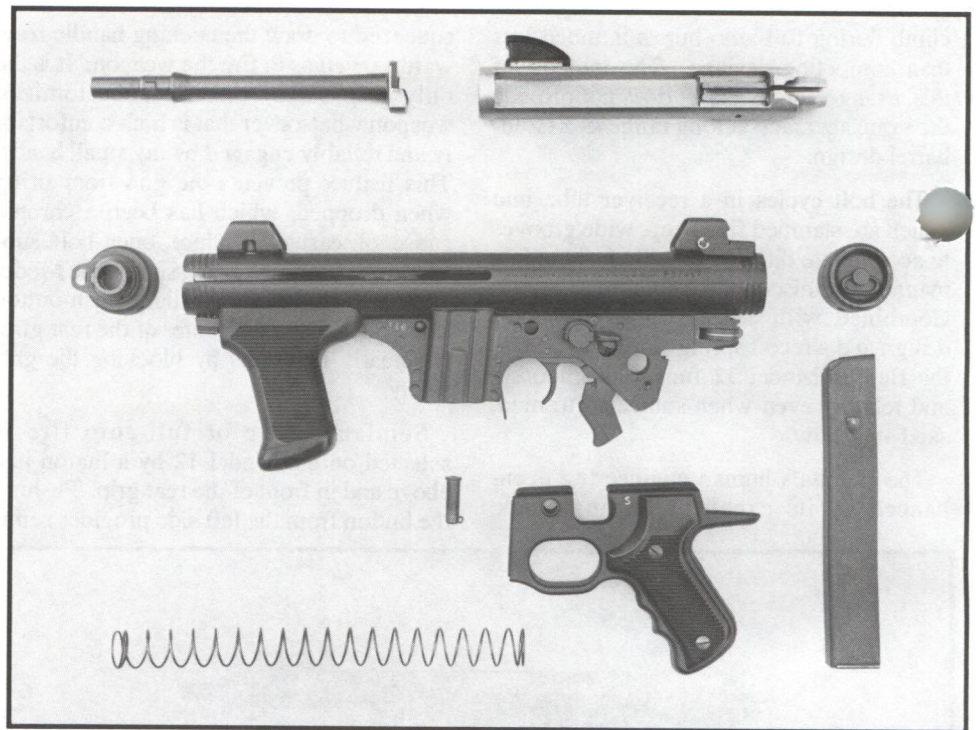
Reassembly, as you've probably read ad nauseam, is in the reverse order.

Loading magazines is brutal without a loader. The most economical alternative is to purchase a conventional Uzi loader. Since the Uzi magazine is really a modified Beretta magazine anyway, the loader works fine. Fine, that is, if you like Uzi loaders. There is a far superior alternative: the superb ML-09 loader made by Tryn Development. After years of frustration loading Beretta and Uzi magazines, I'm going to buy several more at the earliest opportunity.

For me, the Beretta 12S was an acquired taste, like single-malt Scotch whiskey. The Beretta's front grip seemed awkward initially. And I preferred the MP5's sights. But the Beretta's unusually smooth action, low cyclic rate (500-550 rpm), and excellent human engineering gave it outstanding hit probability at handgun ranges.

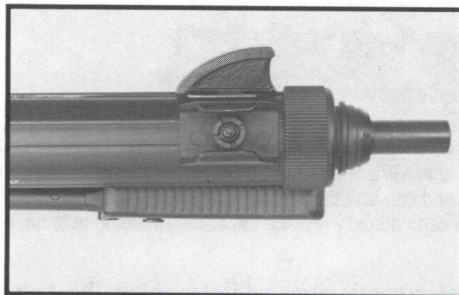
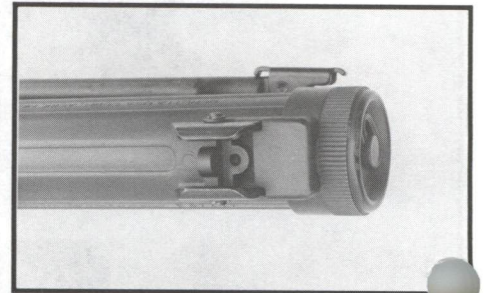
Eventually, I could easily keep two-shot bursts within the head of a Pepper Popper at 20 yards. At ranges closer than 30 yards, I could engage multiple targets more quickly with the Model 12S than any other submachine gun with iron sights. Only the Heckler and Koch MP5 came close.

My fondness for the Beretta increased even more when suppressed. The most readily available options are the MK-9 and MK-9A suppressors made by AWC Systems Technology. Here's the long and the short of what you need to know. The long MK-9 (12.0 inches, 2.0 pounds) and the short MK-9A (10.0 inches, 1.87 pounds) suppressors both feature interchangeable mounts for a variety of submachine guns including the H&K MP5, Walther, Uzi, Mini Uzi, Micro Uzi, Colt, MAC M10 and M11, and a generic mount for barrels

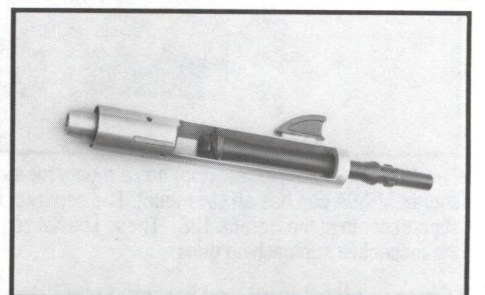


This is as far as the Beretta 12S should be disassembled for routine cleaning and maintenance.

Right: The Model 12S features aperture sights for 100 and 200 meters, a latch at the top of the receiver for securing the rear receiver cap, and a latch for locking the stock in the open position.



Robust guards protect the adjustable front sight. Note the charging handle and folded stock tight against the receiver.



The barrel floats inside the chrome-plated bolt which enshrouds it

threaded for 1/2 by 28 TPI. Both balance well on the Model 12S, but the shorter MK-9A suppressor handles best.

Sound signatures were measured using a Bruel and Kjaer Type 2209 Impulse Precision Sound Pressure Meter (set on A weighting) with a B&K Type 4136 1/4-inch condenser microphone. The microphone was placed 1.00 meter away from the front of the suppressor or muzzle, at an 90 degree angle from the bullet flight path. The meter was calibrated just before and just after each series of tests with a B&K 4230 calibrator. No instrument drift was observed. Tests were conducted with

Winchester USA 115 grain supersonic and Samson 158 grain subsonic FMJ ammunition. At least 10 rounds were fired in each test to obtain a valid statistical sample.

As the sound signatures in Table 2 show, the performance of the MK-9 was outstanding. Time constraints precluded sound analysis of the MK-9A, but subjectively it sounded about 2 dB louder. Table 3 shows that the net sound reduction of the MK-9 was 33 db with supersonic ammo and 32 dB with subsonic, which is far superior to the new Cobray M10 suppressor tested on the Cobray M11/9 submachine gun for comparison.



Table 4 shows that the Beretta's suppressed sound pressure level (SPL) was only 1/2,000 as intense as the unsuppressed gun with supersonic ammo. With subsonic ammo, the MK-9 decreased the Beretta's sound pressure level to 1/1,500 of its unsuppressed SPL. Using these fractions as a yardstick, the sound suppression of the Beretta/AWC system was 3-4 times more effective than the Cobray system.

Any way you measure it, the AWC MK-9 is an outstanding performer and an excellent choice for suppressing the Beretta 12S. And the Beretta 12S is an excellent choice for many subgun applications.

My favorite open-bolt submachine gun used to be the Sterling Mark 4. It still is at ranges beyond 30 yards. But for typical handgun ranges, my clear favorite is now the Beretta 12S. It handles, hits, and conceals under a trench coat (with a 20-round magazine) better than an Uzi or Mini Uzi. That makes it excellent for executive protection. Its compact design, smooth action, low cyclic rate, and double pistol grips make it an excellent choice as an entry weapon and for counterterrorist applications. And it has walked away with the most first-place awards for the subgun competitions at the Alaskan Memorial Day Shoot, so it's an excellent sporting arm as well. The only rub for sporting use is that every Model 12S I've ever seen has been a law-enforcement sample.

The Beretta Model 12S is manufactured by Beretta in Italy and by Fabrique Nationale d'Armes de Guerre in Belgium. It is used widely around the world by police and special-purpose troops, yet it has achieved nowhere near the acceptance as the Uzi. Yet, I believe the Beretta is a superior weapon for most applications. It certainly is in my hands. So why hasn't the Beretta achieved a bigger market share? This is especially curious considering that FN marketed the Beretta much more aggressively than the Uzi, which they also manufactured under license.

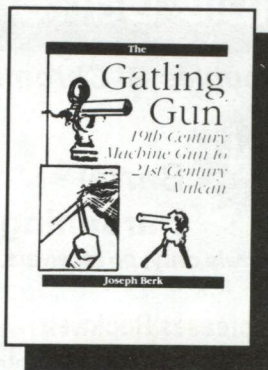
I suspect the only reason for such disparate acceptance relates to the tremendous successes of the Israeli military. People always seem to equate military success with the weapons themselves, rather than with training and individual initiative (which are the real bottom line). Ironically, the Israeli success that may have contributed more to Uzi sales worldwide than any other enterprise—the Entebbe Raid in 1976—relied upon suppressed Ingram M10 submachine guns rather than Uzis! Israeli 259 Commandos concluded that the Ingram was a superior weapon for the needs of Operation Thunderball (continues)

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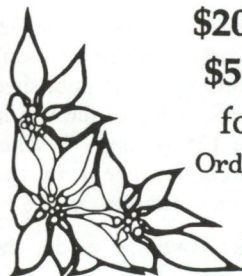
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**Table 2. Sound signatures in decibels of suppressor tests.**

Gun	Suppressor	Winchester USA supersonic	Samson subsonic
Beretta12S	None	161	159
Beretta 12S	AWC MK-9	128	127
Cobray M11/9	None	162	159
Cobray M11/9	Cobray M10	136	132

**Table 3. Net sound reductions in decibels.**

Gun	Suppressor	Winchester USA supersonic	Samson subsonic
Beretta 12S	AWC MK-9	33	32
Cobray M11/9	Cobray M10	26	27

**Table 4. Net sound reductions expressed as fractions of original (unsuppressed) sound pressure levels.**

Gun	Suppressor	Winchester USA supersonic	Samson subsonic
Beretta 12S	AWC MK-9	1/2,00	1/1,500
Cobray M11/9	Cobray M10	1/400	1/500

since it handled better in confined spaces and since it could be more easily suppressed at that time.

Contrast the Israeli successes with the bumbling, archaic Italian procedures we've seen so much in press photographs of attempts at counterterrorism, hostage rescue, and airport security. One eminent police writer used press photos related to the Dozier kidnapping as textbook examples of how NOT to conduct building searches, secure perimeters, and conduct other basic operations. Is it any wonder that the submachine guns so ineptly brandished in these photos were viewed in less than favorable light, merely by association? That old cliché about a picture being worth a thousand words still holds meaning, even in an image-saturated culture like ours. This problem may have been aggravated in certain circles because the international terrorist known as Carlos preferred the Beretta 12S over other weapons.

So did FN prefer the Beretta over the Uzi because it was a clearly superior weapon? Probably not. According to one published report, FN ceased production of the Uzi in favor of the Beretta 12S because they acquired a substantial interest in the otherwise family-owned Beretta empire.

Politics and press coverage aside, the

Beretta 12S has still achieved widespread sales worldwide. Some were imported into the United States for police sales, but the IMI Uzi and (to a much larger extent) the H&K MP5 have dominated police sales. The Beretta 12S is clearly an also-ran in the States. Yet it just might be the finest open-bolt submachine gun ever made.

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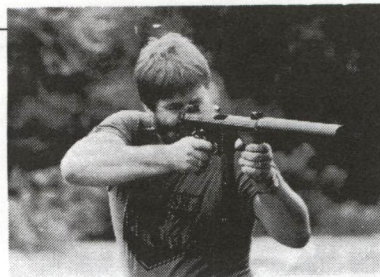
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# Raffica

by Dan Shea



I'm writing this in the middle of the month of shoots. There is a North Country Pumpkin Popper shoot in New Hampshire, Charlie Erb's shoot in Pennsylvania, a first time shoot at the Farm in Arkansas, Knob Creek in Kentucky and the Hiram Maxim Historical Society shoot in Maine. These are just a few that come to mind, I know there are others. Three happened on the weekend of October 5, and it makes it really hard to attend them. I'm kind of hoping that the organizers will take this hint, and start contacting each other, and MGN to get a calendar set up for next year. I would like to go to all of the shoots, but it's impossible when they're all back to back like that. It would be nice if some of our southern friends would organize a shoot mid-winter. Subtle hint. Speaking of shoots, there is an area that is ripe for one. I refer to the following two letters:

**Q** In the October Raffica, "Frank" asked about a place to shoot in northeastern Ohio. While looking through some old copies of MGN this weekend, I came across a letter in Vol. 2 No. 11 (Feb/89) reading, in part:

"If any of the readers are interested in starting a SMG range, I have 400 acres in eastern Ohio available."

It was signed "Mike". If Mike's address is still on file, you might put them together.

Kenneth A. Carter

**Q** I live in a state (Michigan) that the mention of the word machine gun can almost get you in the pokey. I was delighted to discover, from a recent question in Raffica, that machine guns are permitted in the state of Ohio. Since a trip to Ohio is not that far to drive, I would like to know where and when there are some "shoots" taking place?

Great magazine. Keep up the good work. I like the "white box brand" magazine cover.

Truly yours  
Theodore L.

**A** Mike, if you are reading this, I can't find your address. If you contact me I'll be happy to give you some pointers on starting a machine gun shoot. The only thing I ask in return is that you schedule it so it doesn't muddy up the water for the other shoots.

There are a lot of us who will show up at any shoot that is within range of driving, as long as we think it will be safe and properly run. Most of us have special places in our ammo boxes for certain established shoots, Knob Creek, the North Country Shoot, and the SOF convention come to mind. If you conflict with those dates, you will have trouble drawing any of the big shooters. The people that shoot truckloads of ammo are big spectator draws, and keep the firing line hopping.

**Q** If you will sir, please advise me of the correct mailing address for the .50 Caliber Shooters Association and the name of the man currently in charge.

Pete S.

**A** No problem-o.

The Fifty Caliber Shooter's Association  
Eric Williams  
11469 Olive St. Rd. Ste 50  
St Louis, MO 63141

**Q** Great magazine, keep up the good work! Let's add some more pages though. Last time I wrote you advised me to spend the time I'm not reading MGN writing letters to the President and my congressmen. I have and will continue to do so, although Metzenbaum is a lost cause.

A couple of requests for future articles: Uzi select-fire pistol, Fleming's shorty AK-47 (I've written them but have never received a response even with an S.A.S.E.), and how about an article that outlines the steps in converting an AR-15/M16 or any of the H.K. family to a belt feed. More requests: Czech Skorpion, 1/2 scale Gatling gun .22 cal, and maybe some experimental versions/new variations of M-16. So many requests....

As soon as I read the "What's New" column that featured Cherokee Accessories MG-42/22 kit for the Ruger 10/22 I wrote them requesting more info - still no answer (2 months?).

Now it is my turn to help you. Recently Ken Carter mentioned a product called Gun-Kote by Kal-Gard in an article on M-16 .22 cal magazines. (Good article by the way.) I could find no one who carries or has heard of this product. I phoned Kal-Gard and was told to talk with Richard

Williamson, who was on vacation at the time. An extremely helpful lady by the name of Judy helped me order a case to try out. I was told that it should be available through motorcycle dealers, none in my area seemed interested in helping though. The people of Kal-Gard were very helpful and I'm looking forward to checking out Gun-Kote.

In the past you have been very helpful in answering my questions so I hope you can help again. I am trying to locate a book, "Ruger Pistol Exotic Weapon System" published by Paladin Press and authored by (I think) Duncan Long. I placed a classified in MGN, Gun List, called and wrote Paladin Press, and went through a search firm called Book Look, still no book. I would settle for photo copies but would much prefer the original book.

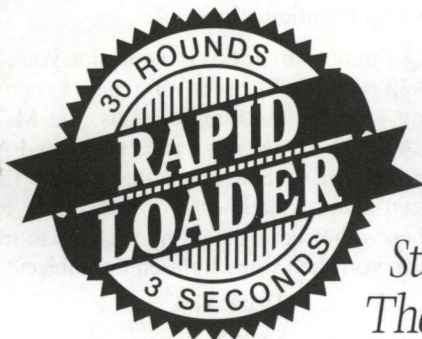
Brent R.

**A** Glad to hear that you guys are at least TRYING to get rid of Metzenbaum. Watching him and Teddy Kennedy go after Clarence Thomas for Sexual Harassment charges was sort of what I'd imagine watching Genghis Khan question Ollie North for an ethics violation would be like. Talk about a pot calling a kettle black.

Regarding Fleming and the lack of an answer on the AK shorty - rumor has it that he has an understanding with a local Chinese restaurant that he can trade in all of the stamps he steams off of the SASE's sent to him for #37, Hunan Beef, Lobster and red pepper, once a week. I can't vouch for this, but it sounds like an ethics violation to me, or at least an atrocity by the Gastro-terrorists! Where are all of these Senators when you really need a committee? Seriously, Bill says he will convert a customer's AK under folder to a 12" barreled "Tanker" for \$420 retail. Fleming Firearms - 918-665-3624. I have not seen anyone else do this conversion.

I called a few of my sources and only found one that regularly carried the "Ruger Pistol Exotic Weapons" book. That was Den's Gunshop in Lakeville, Mass. 508-947-5898. Dennis "The Booby Trap Menace" said he had several copies on the shelf.



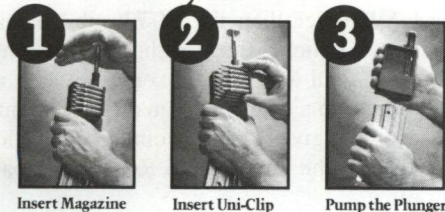


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**Q** Do you know anyone that has successfully converted an MG-34 to .308. I have a .308 barrel, but the gun jams every two or three shots. The obvious problem is the spring-loaded fingers on the inside of the feed cover that position the cartridge for feeding are placed wrong for feeding the shorter 308 cartridge. Do you know a solution. I have enclose an SASE. Thanks in advance for your help.

Chris W.

**A** The machine gunner's lament - why can't I change the caliber and have it work! Almost everything in the MG-34 is wrong for .308. Several conversions that I have seen were done by switching feed tray covers until they found one that worked. Some other hints that should be looked at are; did the gun work in 8mm? If the gun doesn't work to begin with, how can you expect it to work in the new caliber. Are you using the smallest restricting hole available in the muzzle booster (about .330)? Would a 3/8 inch spacer at the front of the feed tray keep the ammunition in line so that the spring-loaded fingers that you referred to can feed properly?

On another note, Kent Lomont (219-694-3792) has conversion sets to make an MG-42 into an MG-3 in .308. The MG-3 is current issue. If you want that SAW to

work, this is the way to do it. It's expensive, but reliable and very modern- the kit is almost a complete makeover to MG-3!

**Q** I recently noticed this interesting picture in "The Gulf War" magazine. Shown is a civilian security bodyguard for General Schwarzkopf. He is carrying what appears to be a CAR-15. What's unusual about the

carbine is the contour and length of the barrel, and the scope.

Would you please respond with any light you can shed on this weapon?

Lawrence P.

**A** The rifle is the Colt M-4 Carbine, with the unusual barrel contour being (continues)





M-72 LAW COMPARISON CHART

Characteristic	M72A3	M72E4	M72E5	M72E6
Carry Weight	2.5 kg	3.45 kg	3.45 kg	3.45 kg
Carry Length	665mm	775mm	775mm	775mm
Firing Length	899mm	980mm	980mm	980mm
Caliber	66mm	66mm	66mm	66mm
Muzzle Velocity	150m/s	200m/s	200m/s	200m/s
Effective Range	170 m	220 m	220 m	220 m
Operational Range	250 m	250 m	250 m	250 m
Dispersion @250 m	2.3 mils	1.33 mils	1.5 mils	1.5 mils
Flight time to 250 m	1.9 sec	1.4 sec	1.4 sec	1.4 sec
Armor penetration	300mm	355mm	300mm	150mm
Behind Armor Effect:	Moderate	limited	moderate	extensive

HOLE PROFILE



an indentation in the barrel for mounting an M-203 grenade launcher under it. Because the photo you sent was a photocopy of a

photograph, I had some difficulty with getting an I.D. on the scope. It is a wide field of view scope, excellent for close up shoot-

ing, which is what this bodyguard is probably anticipating.

**Q** I'm not sure if this is a question you can help with, but I've seen references to one of my all time favorite weapons, the M-72 LAW. There are references to A3 and A4 models in several magazine articles I've seen lately. I had heard of M72-A2's, but these other configurations are new to me. Can you shed some light on the subject?

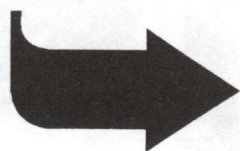
Thank You,  
Steve S.

**A** I'm not sure I want to know what magazines you've been reading, Newsweek and Cosmo probably aren't going to go in depth to such a degree.

It's been a long time since I've fired a LAW other than the M-73 sub-cal units, and I believe those didn't say anything other than M-72. I did some research and turned up a chart that you might find interesting, it gives a pretty comprehensive look at what the new LAWS Rocket is capable of.

Questions to:  
Dan Shea,  
C/O MGN,  
PO Box 759,  
Hot Springs, AR 71902

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Model	Sn	Pivot Area Wear:	Grip	Actuator Wear:	Muzzle	Blue	Additional Information
1921A	1310	Light	Brown	Very Light	Grey	90%	Finish marked from canvas case & scratches . . . . .
1921A	4418	Scratch	White	Moderate	Blue/Grey	90%	Motorcycle mount crates front of receiver . . . . .
1921A	4961	Light	Blue/Grey	Light	Blue/Grey	92%	Lower receiver edges light brown . . . . .
1921A	7951	Scratch	Blue/Brown	Light	Blue/Grey	90%	Light brown in blue on lower edge of receiver . . . . .
1921/8	10723	Light	Brown	Moderate	Brown/White	90%	Receiver old re-Blue. Nice finish. . . . .
1921AC	1743	Light	Blue/Grey	Moderate	Blue	85%	Light fine scratches few areas . . . . .
1921AC	2450	Light	Brown	Very Light	Grey	92%	Light brown on lower edge of receiver & grip. . . . .
1921AC	4950	Light	Blue/Brown	Light	Grey	90%	Slight edge wear. Few Light spots in finish. . . . .
1921AC	5579	Perfect	Blue/Brown	Very Light	Blue	92%+	Slight browning on lower edge & grip area. . . . .
1921AC	5715	Scratch	Brown	Moderate	Grey/Brown	90%	Slight browning on lower edge & grip. . . . .
1921AC	6061	Perfect	Blue/Brown	Very Light	Grey	95%	Exceptional gun. . . . .
1921AC	6123	Light	Light	Very Light	Blue/Grey	90%	Overall exceptional for our 90% grade. . . . .
1921AC	6501	Light	Brown/White	Light	Blue	93%+	Very light lower receiver edge wear. . . . .
1921AC	6810	Perfect	Blue/Grey	Light	Blue	93%	Few light stains in blue. Very nice. . . . .
1921AC	6814	Perfect	Blue	Light	Grey	92%	Slight few scratches. Colt re-barreled . . . . .
1921AC	6970	Perfect	Blue	Very Light	Blue	95%	Some very minor staining of blue. Very nice. . . . .
1921AC	7148	Perfect	Grey	Light	Grey	92%	Very slight lower receiver wear. . . . .
1921AC	7120	Perfect	Blue	VeryLight	Blue/Grey	93%	Very light browning on lower edge of receiver. . . . .
1921AC	7167	Perfect	Blue	Light	Blue	95%	Very slight lower receiver edge wear . . . . .
1921AC	8176	Perfect	Brown	Very Light	Blue	93%	Light brown on lower receiver edge . . . . .
1921AC	8264	Scratch	Blue/Brown	Very Light	Grey	93%	Very clean and nice. Few Light scratches. . . . .
1921AC	8476	Perfect	Blue	Light	Blue	95%	Very Clean, very light edge rub. . . . .
1921AC	8844	Scratch	Brown	Light	Grey	90%	Few small scratches. Brown edges on lower receivers . . . . .
1921AC	9315	Perfect	Blue	Very Light	Blue	85%	Restamped & re-blued. Interesting gun here. . . . .
1921AC	9979	Scratch	Brown	Moderate	Grey	85%+	Edge wear and few light scratches. . . . .
1921A	4080	Scratch	Blue/Grey	Very Light	Blue/Grey	90%	Restamped Auto IRS Numbered upper. Lower Match . . . . .
1921/8	10284	Perfect	Blue	None	Blue/Grey	96%	Near Mint. Outstanding gun! . . . . .
1921/8	10590	Scratch	Blue/Grey	Light	Grey	93%	Colt re-barrel/Few light scratches, wear. . . . .
1921/8	13211	Light	Blue/Brown	Moderate	Grey	93%	Very slight blue wear. . . . .
1921/8	13456	Light	Grey	Light	Blue	95%	Very light lower receiver edge rub . . . . .
1921/8	4553	Light	Blue/Brown	Light	Mottled	95%	Very light receiver wear. Compensator mottled . . . . .
1928/8	4951	Light	Blue/Brown	Light	Mottled	93%	Slight browning on lower receiver edge. . . . .
1921/8	7166	Scratch	Grey	Light	Grey	93%+	Slight receiver edge wear, few scratches. . . . .
1921/8	8786	Perfect	Brown	Light	Grey	95%	Very slight wear on edges . . . . .

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M60 Maremonts, Exc. to like new . . . . .	\$ 8,800.00	HK MP5 A3 w/3 Shot, Pre-May DS Exc. . . . .	\$ 2,495.00	Auto Ord. M1 #M538A, 98% in Box . . . . .	\$ 1,100.00
M60 Maremont, Reweld V.G. + (Well done) . . . . .	\$ 4,495.00	HK MP5 A2 SEF lower, Pre-May DS, Exc. . . . .	\$ 2,950.00	Ruger AC556K, Stainless, Exc. . . . .	\$ 1,295.00
M60 RIA, New or As New . . . . .	\$ 5,900.00	Steyr Aug, Pre-May DS, Exc. . . . .	\$ 3,200.00	Ruger AC556K, Blue, Exc. . . . .	\$ 995.00
M60 RIA, Exc., several in stock . . . . .	\$ 5,200.00	Steyr Aug, Conversion, Exc. . . . .	\$ 2,485.00	Ruger AC556, SS, Factory Marked Mini 14. . . . .	\$ 1,200.00
Ramo 50 Cal., NIB w/Spare Bbl. . . . .	\$ 5,500.00	Smith & Wesson 76, 9mm, Exc. or better . . . . .	\$ 1,095.00	Galil AR 223 Ballistic Conv. Exc. . . . .	\$ 2,495.00
E.R. Maples 50 Cal. w/Spare Bbl. . . . .	\$ 4,900.00	Mac 10 Powder Springs, .45 NIB . . . . .	\$ 995.00	M3A1 #B101 Medea Mfg. Grease Gun, 98% . . . . .	\$ 1,195.00
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UZI Conversions, Exc. or better, 9mm . . . . .	\$ 1,295.00	Colt M16A1, Like New, 95% guns . . . . .	\$ 2,095.00	Husqvarna 37/39, 9mm Pre-May DS, V.G. . . . .	\$ 795.00
GROUP UZI 9mm. NIB . . . . .	\$ 1,400.00	Colt M16A1, Exc. or Better . . . . .	\$ 1,895.00	Model 2 30 Cal. Cristobal, Pre-May DS. . . . .	\$ 975.00
FN L1A1 Australian .308, V.G. +, Rare . . . . .	\$ 2,195.00	Colt M16A1, Carbine, Exc. or better . . . . .	\$ 2,095.00	MG 30 Cal. Cristobal, Pre-May DS . . . . .	\$ 975.00
FN .308 Match, Pre-may DS, Exc . . . . .	\$ 1,295.00	Colt M16A1 HBAR, NIB, 100% . . . . .	\$ 3,500.00	GM 30 Cal. Carbine, Conversion, V.G. + . . . . .	\$ 750.00
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# BATF, Ohio Police Agencies Seek Leads on Gun Dealer Killing

Officials of the Bureau of Alcohol, Tobacco and Firearms (BATF), along with state and local law enforcement authorities from Ohio are seeking any information into the July shooting death of a Federal Firearms licensee near Cleveland, Ohio.

According to BATF officials, on Saturday, July 20, 1991, Richard Zelenik, owner and operator of the Chagrin International Arms Company in Bainbridge Township, Ohio, was shot and killed in his store during the course of a robbery. A total of 20 firearms were reportedly stolen, including seven automatic weapons.

Officials report that the prime suspect in the 'execution-style' killing is a black male; dark skin, 5 feet, 9-inches tall, weighing between 175 to 200 pounds, and in his mid-twenties. He has short black hair and was clean-shaven at the time of the shooting.

They add that two additional suspects were involved, including a woman who may have visited the gun store the week prior to the incident. She is described as a black female; dark skin, 5-feet, 7-inches or 5-feet, 8-inches tall with a slim build, long arms and small breasted. She is also in her mid-twenties, and has an unkempt appearance. Scars are visible on the right side, back and waist area.

The other suspect is described as either an Hispanic or light-skinned black male, 6-feet, 1-inch, or 6-feet, 2 inches tall with a thin build, and between 25 to 30 years of age. He was wearing shorts and a black T-shirt.

Witnesses at the scene reported seeing a black 1975 Pontiac Grand Prix fleeing the incident. It was described as being in good, clean condition, and may have mag wheels.

BATF and local law enforcement officials have designated the case a top priority, with a reward of up to \$8,000 being offered by BATF for any information leading to the

arrest and conviction of the three suspects involved. An additional reward of up to \$2,000 is being offered by Crime Stoppers of Cleveland.

Anyone with information concerning the homicide or the stolen firearms should immediately contact the BATF, Cleveland Group II, at (216) 522-3786, or the Bainbridge Township Police Department at (216) 543-8252.

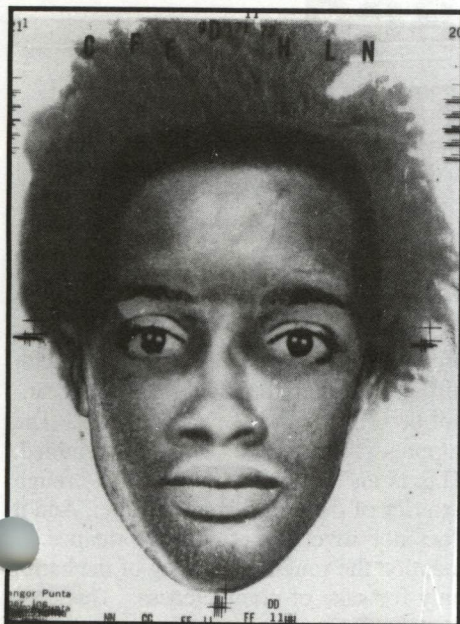
A complete list of firearms stolen from Chagrin International Arms under the National Firearms Act, included:

- Military Armament Corporation, model M-10, .45 caliber, submachine gun, serial number 13006530;
- Daniel SWD, Inc., model M-11 A1, .380 caliber, submachinegun, serial number 853800053;
- Military Armament Corporation, model M-10, .9mm, submachinegun, serial number 24009594;
- Iver Johnson, model M2 Carbine, .30 caliber, submachinegun, 9 1/2-inch, serial number BA05465C;
- Gilbert Equipment, model U.S. AS 12, .12 guage, shotgun, serial number 1000078FA;
- Heckler & Koch Inc., model HK93, .223 caliber, machinegun, 16 1/2-inch, serial number A121800, and
- Israel Military Industry, model Mini Uzi, .9mm, submachinegun, serial number MV03062.

Under Title 1 firearms:

- Ruger, model Super Blackhawk, .44 magnum revolver, serial number 83-15605;
- Smith and Wesson, model 629, .44 magnum revolver, serial number AZL0759;
- Smith and Wesson, model 629, .44 magnum revolver, serial number BBD4698;
- Smith and Wesson, model 6904, .9mm pistol, serial number AIP8279;



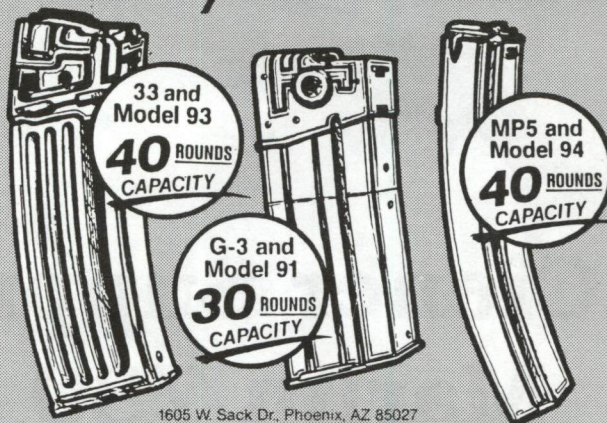


A police composite of the female accomplice, believed to have been involved in the Aggravated Murder/Robbery of a gun dealer in Bainbridge Township, OH, on Saturday, July 20, 1991

- Smith and Wesson, model 6904, .9mm pistol, serial number TCP0617;
- Smith and Wesson, model 745, .45 ACP pistol, serial number TBF0417;
- Steyr, model Maadi Arm, 7.62x39 caliber rifle, serial number S000317;
- Walther, model P-5, 9mm pistol, serial number 47598;
- Browning, model 2000, .20 gauge shotgun, serial number 002661;
- Browning, model A-Bold MED, .243 caliber bolt rifle, serial number 68114PP2M7;
- Weatherby, model Orion III, .12 gauge O/U shotgun, serial number ER00795;
- Winchester, model 94, 7 x 30mm rifle, serial number 21093664, and
- Smith and Wesson, model 686, .357 magnum revolver, serial number BDR5089.

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# Ciener Suppressed Marlin 780 Rifle

by Al Paulson

**J**onathan Arthur Ciener is the oldest active suppressor manufacturer in the United States. When he began manufacturing suppressors in 1976, a few post-auction M.A.C. suppressors were kicking around, and that was it. Since that time, his muzzle cans and integrally suppressed firearms have been known for their solid performance, museum-grade workmanship, and outstanding accuracy. This article will evaluate his economy offering, the integrally suppressed Marlin Model 780 bolt-action .22 rimfire rifle.

The Model 780 was Marlin's top of the line rifle with a 7-round detachable magazine that features a built-in catch. It was replaced by the Model 880, which is basically the same rifle with a different detachable magazine, a new safety which fires in the forward position (the 780 fires from the dangerously unconventional rear position), and other minor improvements. The 780 rifle weighs 5.5 pounds unsuppressed with its black walnut stock. The suppressed version weighs 6.06 pounds. Ciener's Model 780 is one of the few suppressed bolt-action rifles that comes with iron sights, which is why I bought the gun. This model is still available from Ciener.

The suppressor is not designed to be disassembled. In fact, the gun comes with a written statement that disassembly voids the warrantee. Nevertheless, I simply had to peek inside.

Disassembly was straightforward and intuitive. First, I unscrewed the large bolt at the rear of the magazine well, which ties the action to the stock. A light tap upward with the heel of my hand at the front of the

suppressor tube unseated the barreled action.

I unscrewed the front end cap of the suppressor and discovered that the barrel terminates several inches before the front end of the suppressor tube. A terminal expansion chamber of this sort commonly reduces the sound signature of an integral suppressor quite noticeably over the same design without this feature.

I removed the set screw on the underside of the suppressor tube near the receiver. I then twisted off the tube which was friction fit onto a shoulder at the rear of the turned-down barrel. Pulling the tube forward allowed several ounces of very small brass eyelets to fall out. The tube then easily slipped off the barrel.

A thick aluminum washer at the end of the barrel serves as a friction-fit cap to the main chamber. A sheet of Kleenex is used as packing between the washer and eyelets to ensure that the eyelets don't rattle.

To facilitate reassembly, I popped off the front sight hood, and removed the two screws holding the front sight to the tube. Using a large wooden dowel, I drove the aluminum washer out of the tube. That completed disassembly.

As the photos show, the barrel was turned down to minimum thickness, and was ported with four alternating rows of small holes. I was surprised by heavy corrosion and pitting at the rear of the barrel, since I purchased this gun new in the box from Ciener. It appears that this rifle was not stored in a dehumidified environment after production.

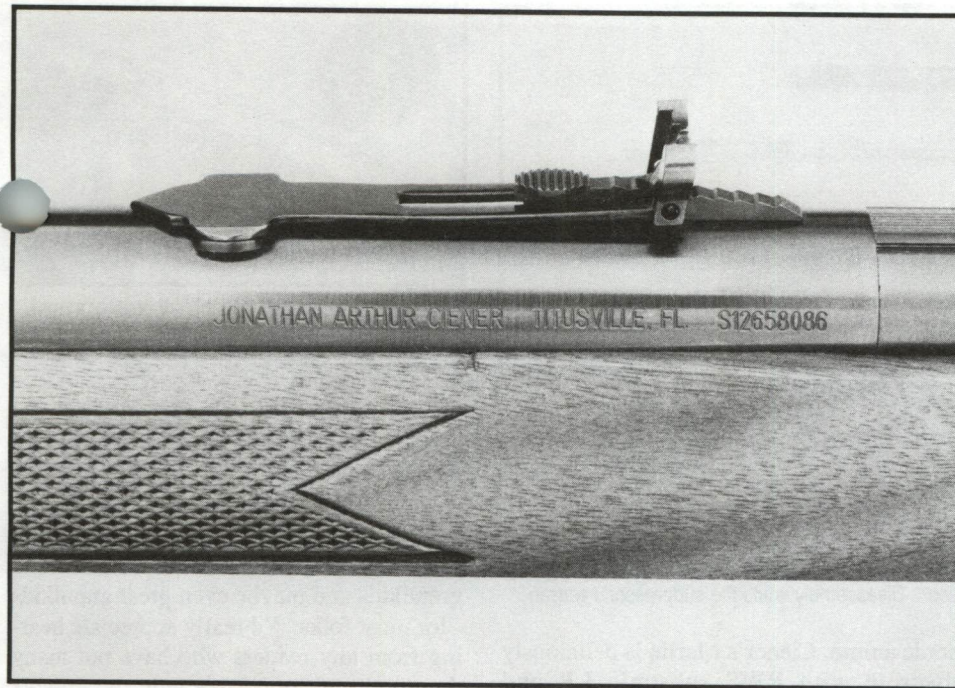
The barrel retains dense tooling marks which comprise fine sharp ridges which gripped and tore patches I used to wipe oil on the barrel, trapping scores of cloth fibers on the barrel, which were removed with difficulty using a bronze brush. This cannot be criticized for several reasons. The suppressor is not meant to be disassembled. This is an economy offering. The rough exterior of the barrel is not visible. And it does not adversely affect performance.

I mention the rough machining of the barrel only for sake of completeness. This contrasts with Ciener taking the time to crown the barrel, which does enhance performance (accuracy).

In the form letter that comes with the gun, Ciener stresses that no attempt should be made to disassemble the suppressor. He says that the design is self cleaning without periodic rebuilding. He says that the bore should only be cleaned with a **dry** brush and **dry** patch. Ciener stresses that every effort should be made to keep the inside of the suppressor dry. Considering the deep corrosion I observed on the turned-down barrel hours after the gun arrived, that seems like very good advice. The receiver can be cleaned like any firearm.

To reassemble the suppressor, I first coated the shoulder of the barrel and the threads on the front end cap with a molybdenum high-temperature anti-sieze compound, so I could once again disassemble the suppressor if necessary. Without this treatment, disassembly will become impossible after a few hundred rounds. I then slipped the suppressor tube back on the shoulder at the rear of the barrel and replaced the set screw.





The original factory sights are expertly installed on the suppressor tube, making Ciener's Marlin 780 one of the few suppressed bolt-action rifles with iron sights.

The next task was replacing the brass eyelets, which barely squeeze between the barrel and tube. This requires slow and patient refilling, which is aggravated by the fact that the crown cut into the barrel is a perfect match to the flange of the eyelet Ciener uses. To facilitate introducing eyelets, I inserted a cleaning rod into the barrel from the back end to keep them out of the barrel crown and guide them into the space between the barrel and tube. I would frequently tap the butt of the rifle on a padded carpet during this process to settle the eyelets in the tube.

Like Ciener, I then used part of a Kleenex to fill in the remaining space between the eyelets and the aluminum washer, which I tapped in place with a large wooden dowel. I then screwed the end cap in place, making sure its threads were coated with anti-sieze compound. I reinstalled the front sight, replaced the barreled action in the stock, and put the Marlin through its paces.

I measured sound signatures of a suppressed and unsuppressed rifle using a Bruel and Kjaer Type 2209 Impulse Precision Sound Pressure Meter (set on A weighting) with a B&K Type 4136 1/4-inch condenser microphone. The microphone was placed 1.00 meter away from the front of the suppressor or muzzle, at a 90 degree angle from the bullet flight path. The meter was calibrated just before and just after the tests. No instrument drift was observed. The ambient temperature was 83 degrees Fahrenheit for the Ciener/Marlin tests and 50 degrees for the Archangel/Ruger tests. Tests were conducted with RWS subsonic, Hansen standard velocity target, and

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Federal Hi-Power high velocity LR ammunition. Federal Hi-Power CB Longs were also used. Bullet velocities were determined using a P.A.C.T. MKIII timer/chronograph with MKV skyscreens set 24.0 inches apart and the start screen 8.0 feet from the muzzle. At least 10 rounds were fired in each test to obtain a valid statistical sample. Ballistic performance was calculated and graphed using an impressive computer program from Oehler Research called Ballistic Explorer. A new version which may also support laser printers should be available by the end of 1991. Upgrades are cheap, so you won't lose much by purchasing the present version now.

Here's what I learned. Ciener's suppressed Marlin performs well. It's a bit quieter than Norrell's 18-inch integral suppressor and a bit louder than AWC's classic R10 integral suppressor using high velocity and standard velocity ammo. It does not perform as well (continues)

**Table 1. Sound signatures in decibels of integrally suppressed Marlin 780 rifle compared to other suppressed rifles.**

Gun	Suppressor	Federal Hi-Power HV LR	Hansen Standard Velocity LR	RWS Subsonic LR	Federal Hi-Power CB Longs
Marlin 780	None	143	140	140	134
Marlin 780	Ciener Integral	124	121	115	111
Ruger 77/22	None	141	138	138	132
Ruger 77/22	AWC Archangel muzzle	117	114	113	106

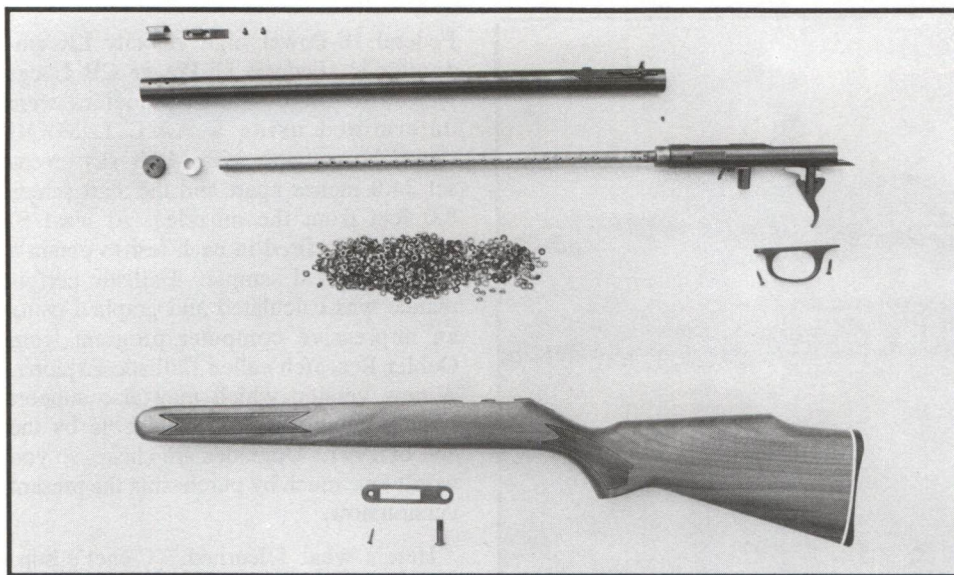
**Table 2. Net sound reduction in decibels of integrally suppressed Marlin 780 rifle compared to other suppressed rifles.**

Gun	Suppressor	Federal Hi-Power HV LR	Hansen Standard Velocity LR	RWS Subsonic LR	Federal Hi-Power CB Longs
Marlin 780	Ciener Integral	19	19	25	23
Ruger 77/22	AWC Archangel muzzle	24	24	25	26

**Table 3. Bullet Velocities in feet per second through Ciener suppressed Marlin 780.**

Suppressor	Federal Hi-Power HV LR	Hansen Standard Velocity LR	RWS Subsonic LR	Federal Hi-Power CB Longs
None	1,297	1,172	1,044	707
Ciener	1,065	986	851	568
Percent Reduction	18	16	18	20



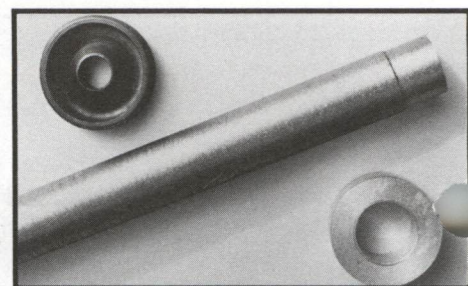


Disassembled Marlin 780 rifle with Ciener integral suppressor. Disassembly voids the suppressor's warranty and cannot be recommended.

as AWC's now discontinued Archangel, which was an exceptionally effective muzzle can (see Tables 1 and 2). The Archangel violated "conventional wisdom" which suggested that muzzle cans were not as effective as integral suppressors. The two systems do, however, produce the same amount of sound reduction with RWS sub-

sonic ammo. Ciener's Marlin is deliciously discrete with RWS subsonic LR and Federal Hi-Power CB Longs. Unfortunately, the heavy wax coating on the RWS ammo will dramatically reduce the lifespan of the Ciener suppressor and should not be used.

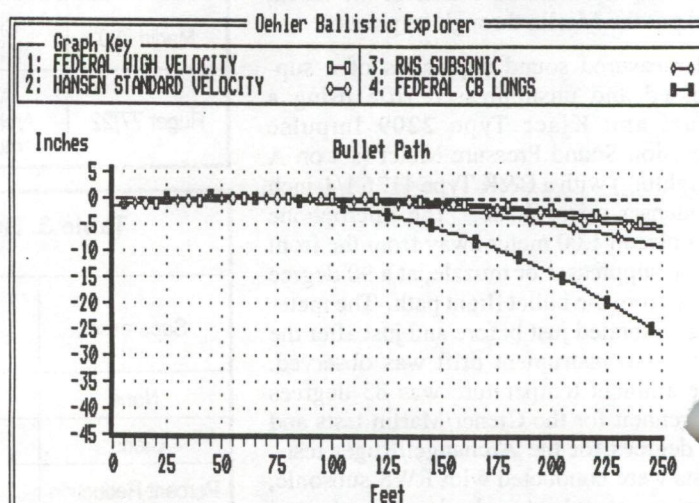
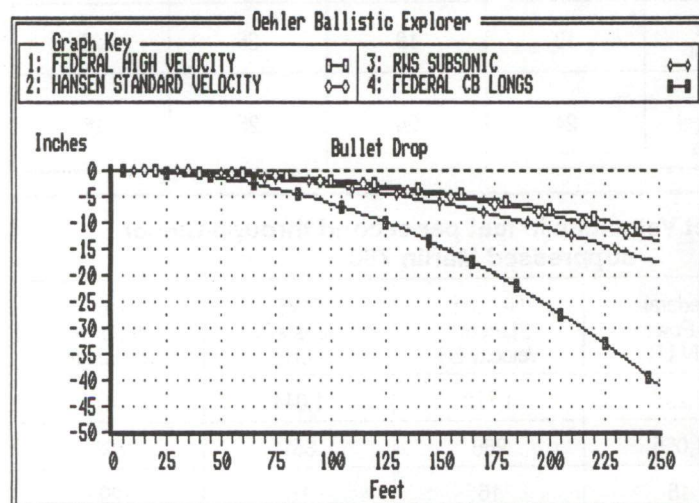
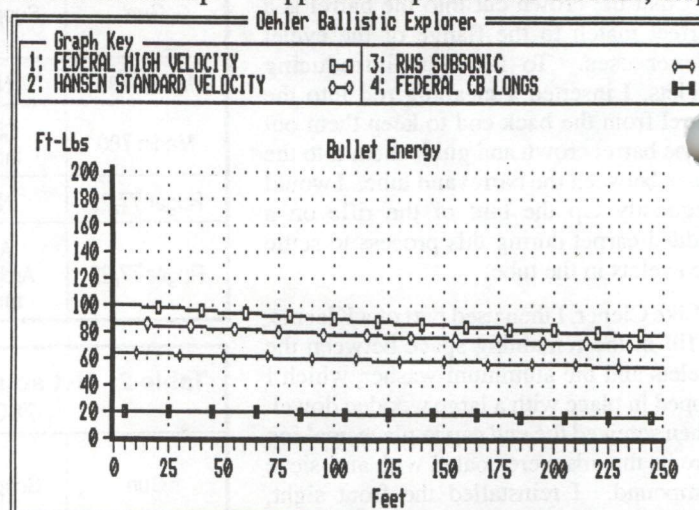
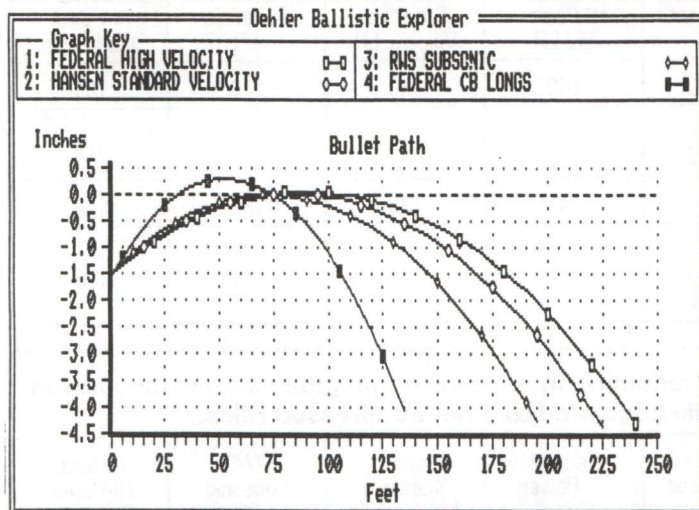
What is the lifespan of this Ciener sup-



The turned-down barrel with the suppressor's front end cap and the washer that serves as a friction-fit cap to the chamber filled with brass eyelets which surrounds the barrel.

pressor using clean ammo (like Federal high velocity and Hansen standard velocity target) if the can is not disassembled for cleaning? I'm not sure. But it should be well in excess of 10,000 rounds. That's several lifetimes - the owner and kids and grandkids and maybe even great grandkids - for most folks. I'd really appreciate hearing from any readers who have put many thousands of rounds through suppressors that were not designed for disassembly and maintenance, so I can get a better handle on this question. Lifespan aside, the Ciener suppressor does perform.

As Table 3 shows, the Ciener integral suppressor kept all loads subsonic, drop-





ping a cartridge's velocity an average of 18 percent. I used the Ballistic Explorer program to study the performance of these four cartridges in the suppressed Marlin.

Figure 1 shows the bullet paths of the rounds being tested in the suppressed Marlin. While all four cartridges shot close to the same point of aim for close-range plinking, bullet paths of the long rifle rounds began to diverge at 85 feet. The CB longs generally hit within a half inch or so of the other loads until this distance when sighted in at 25 yards. Figure 2 shows bullet energy delivered by these four cartridges out to 250 feet. Figure 3 shows bullet drop out to the same distance.

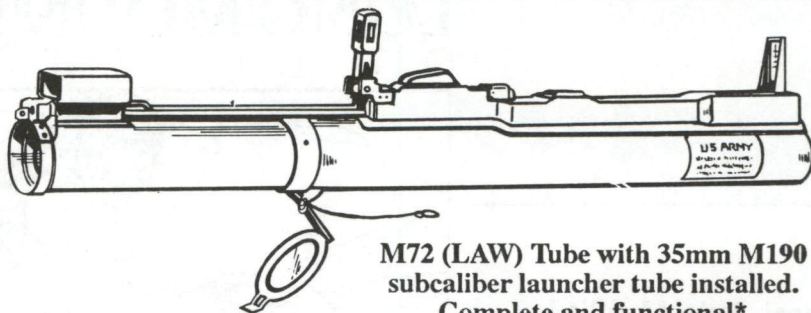
As we evaluate other suppressed .22 rifles and pistols in subsequent issues of *Machine Gun News*, these graphs will provide a valuable benchmark in addition to the sound test data. Some suppressed firearms achieve a low sound signature by excessive porting of the barrel, producing such low velocities that performance downrange is impaired severely. Even some integrally suppressed submachine guns exhibit this problem. Ciener's suppressed Marlin 780, however, delivers fine performance downrange in terms of bullet path, bullet energy and bullet drop. But the Marlin's mediocre trigger is another matter.

The poor trigger on the Marlin dramatically degraded my marksmanship. The Marlin is no Ruger 77/22. But then the Ruger is no Anschutz. I was trained to shoot target rifles at the point between heartbeats when blood pressure is at a minimum. This significantly improves my accuracy. But such discipline is meaningless with the Marlin's trigger. If you've ever shot a .22 target rifle, you'll want to invest in a good trigger job, which is easier said than done. Due to liability concerns, it's hard to find a competent gunsmith who will do a trigger job on a .22 anymore. The Marlin will be a disappointment without one. In fairness, every 77/22 I've shot needed one too—just not as badly as the Marlin.

So what's the bottom line on Ciener's suppressed Marlin 780? The rear of the barrel was corroded. That was irritating. But Ciener could prevent this problem with improved storage. He could even coat the barrels with a molybdenum resin like the military uses to refinish M16s at a cost of a dollar or two per gun. I'd gladly pay extra. The system delivers good sound suppression without sacrificing velocity or energy downrange. Its cosmetic appearance is outstanding. And it is available at a budget price. Ciener's suppressed Marlin 780 is a solid value.

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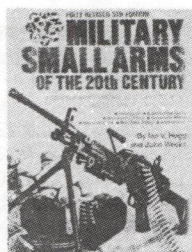
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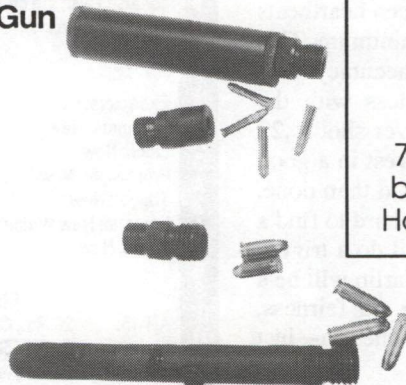


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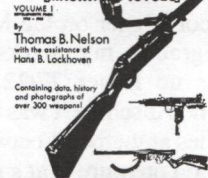
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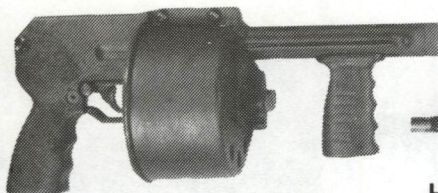
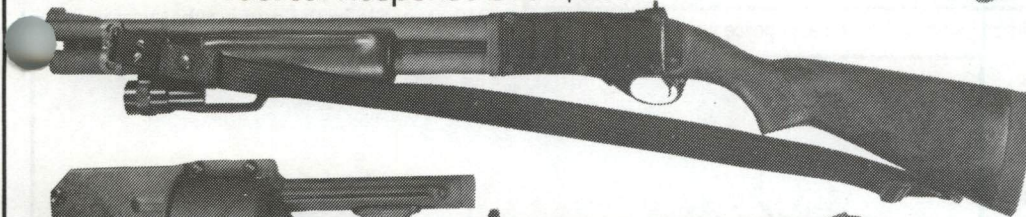
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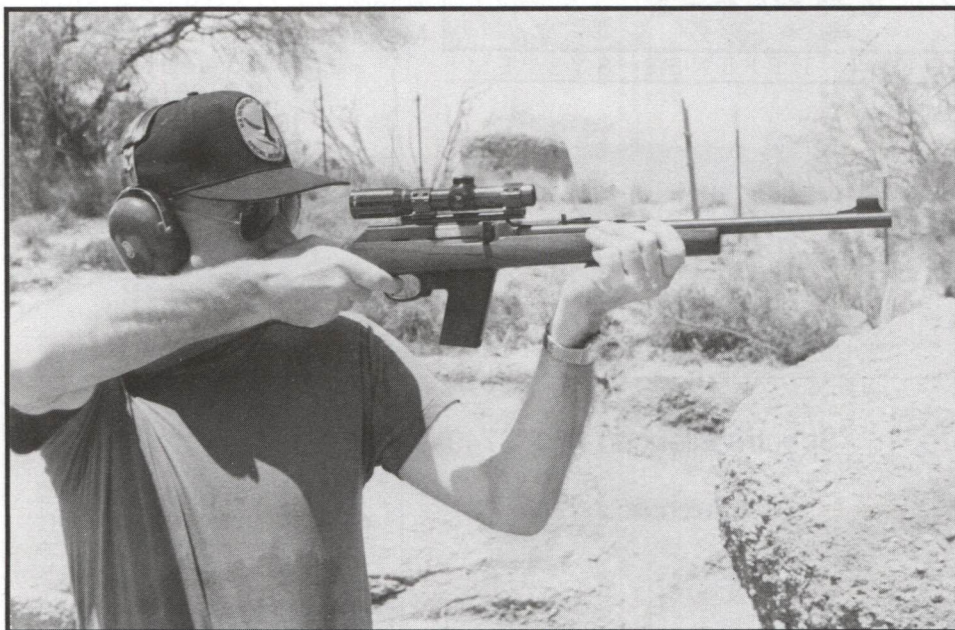
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# "SLUGGER" MARLIN .45 CAMP CARBINE

By Mark Moritz



The Camp Carbine is useful for plinking, hunting mid-size game, self-defense, or police work.

**T**his gun has potential. Marlin is marketing the Camp Carbine as a plinker. It is suitable in that role, but what gun isn't? It is not powerful enough for large game, nor is it sufficiently accurate for small game, like rabbits and squirrels. It might serve for medium game, like coyotes and javelinas, at short distances, say out to 75 yards. Its greatest potential is in an anti-personnel role.

There are repressive jurisdictions in this country, where handguns are verboten by the Gun Kontrol Nazis. In these areas, you are instructed to call 911 in an emergency, so that the police can tape record your screams while you are being raped and murdered. In these "little Lithuania's," some people purchase shotguns or rifles for self-defense in the home. These are not satisfactory. The 12-gauge shotgun is a bit vigorous for many people to handle, especially small-framed people. It is all too easy to short-stroke the common pump actions. Semi-autos depend on a strong grip for reliable functioning. The noise is devastating. Fire a round of buckshot, or even birdshot, inside a tiled bathroom, and you will find yourself on the floor, dazed and nauseated, with your head ringing and blood trickling from your ears.



With a PAI suppressor, the gun is quiet. The sub-sonic .45 ACP means stopping power with no sonic boom.

Centerfire rifles have no place in dwelling defense. They are overpenetrative in the extreme, and are even louder than shotguns.

However, a long gun in a pistol caliber is quite efficient in a self-defense role. The old M1 .30 Carbine is not a bad choice, but

it lacks reliable stopping power. The Marlin .45 Camp Carbine is a close relation of the M1 Carbine, but it spits out a heavy, thumping chunk of lead.

As a police weapon, the Marlin has great promise. The advantages of a pistol-caliber shoulder weapon are (1) extended range, and (2) greater precision. The standard police shotgun is a poor choice in many circumstances, particularly when there are hostages and bystanders. The shotgun does not extend effective range, since its best patterns come at 15 yards, and it works only out to 50 yards, tops. Past that, the pattern spread makes hits a matter of luck, and pellets that do connect have slowed down to where they do not incapacitate. Yes, there are such things as slugs, but life is not that simple. When the shooting starts, you shoot back. Usually, you do not have time to do juggling tricks with ammunition. Whatever is in the gun is what you use.

With a Marlin, an officer can take out a lunatic who is shooting up a fast-food restaurant, at a distance of 75 yards, without risk to bystanders. He could not do this with a handgun, or with a shotgun. At 200 yards, a reasonably skilled cop with a carbine can "thread the needle" and plant a .45



between the eyes of a hostage-taker. Only the most advanced pistolero could pull that off with a handgun, and as for a shotgun, forget it.

The concept of the Camp Carbine is excellent. The execution needs some serious work.

Practical accuracy requires two components: a good trigger, and good sights. The Camp Carbine has a dreadful trigger, installed by a liability lawyer, and apparently polished with sandpaper and lubricated with iron filings and oatmeal. At the range, four shooters tried to take a shot, and each of them stopped to check the safety. It was off, but each of them thought it must have been on; the pull was that hard. A trigger tune-up is in order, but it is not a job for the kitchen table; it is major surgery.

The sights are a semi-buckhorn style, with a hood covering the front blade. This arrangement would win easily, if there were ever a contest for the worst possible sight setup. The front hood is easy to remove. The factory should scrap the rear sight, and issue the gun with a receiver-mounted flip-up aperture, something like what you find on a Ruger Ranch Rifle, but with a larger hole, and less surrounding metal.

For "lawsuit-proofing," the Camp Carbine comes with a magazine disconnect, and a hold-open device. The disconnect makes it impossible to fire the gun without a magazine. (It also prevents the use of certain magazines, particularly the Mag-Pack.) The hold-open device makes it impossible to close the bolt with an empty magazine in place. The combination makes dry-fire practice a real test of dexterity — and patience. If you want to dry-fire, you first remove the magazine, then empty the chamber by retracting and releasing the bolt. Now, insert the magazine. Press the trigger. Now remove the magazine, and operate the bolt. Magazine in, press the trigger; magazine out, work the bolt. It gets real old real quick.

You might expect a big boost in velocity with the longer barrel, but that is not the case. Perhaps the powder is burning completely while the bullet is still in the barrel, and thereafter friction slows the bullet. Federal 230-grain hardball ammunition registers 830 fps over the PACT chronograph, the same as in a five-inch pistol. Federal 185-grain hollowpoints do better; they pick up about 115 fps compared to the handgun: 1091 in the carbine vs. 976 in the Colt Government Model. Remington's +P 185's break 1300 (vs. 1150 in the pistol), but the Marlin action does not look strong enough to take many of those.

Machine Gun News - December 1991

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Accuracy with hardball ammunition is not satisfactory. Even with a Burris 4X compact scope, 100-yard groups are all over the place. The gun prefers the 185-grain JHP's: around five inches at 100 yards. This is not up to Camp Perry standards, but it means you can hit a man in the brisket from the length of a football field. You cannot ask for more than that in a pistol-caliber carbine. In fact, few Com-Bloc AK-47's will do any better.

Snap shooting with the carbine is much superior to pistol performance. At 25 yards, I can get off a single aimed shot with the carbine in about half the time it takes with the pistol, and the accuracy is much better. The Camp Carbine would be a real good thing for a police officer to have in his hands when approaching a known danger situation.

If Marlin were to ask me how to improve this gun (and they have not), I would tell them:

Give it a decent trigger pull. It doesn't have to be a hair trigger, and it doesn't have to be great. Six pounds semi-crisp would be workable, and still safe.

Give it decent sights, like a flip-up "ghost ring" on the receiver, and a serrated ramped blade or square post in front.

Put in a bolt release, so you can do your dry-fire practice with an empty magazine. The magazine disconnect is probably necessary to avoid some idiot lawsuits, but reshape it so that MagPacks and other magazines will work.

Lose about a pound of weight. A plastic stock would probably do it, kind of like the one Ruger uses on its weatherproof .22 bolt action rifle. If it offends the sensibilities of Metzenbaum and DeConcini, so what? Don't think for a minute that they will not ban guns with wood stocks after they have banned guns with plastic stocks. Rub their noses in it. The answer to the charge of "It doesn't have sporting purpose" is not "Yes it does," but "Sporting purpose is irrelevant, you dimwit."

Make interchangeable magazine wells. The .45 carbine accepts standard Colt magazines. The 9mm version uses Smith and Wesson mags. It would be simple to make magazine well inserts to accept Glock, Beretta, SIG, and other magazines.

Right now, the only people who buy Marlin Camp Carbines are those who have Smith and Wesson 9's, and Colt .45's. Interchangeable mag wells would greatly expand the market.

Precision Arms International is manufacturer of suppressors. They transformed this basic .45 Camp Carbine into a quiet, practical weapon. They cut the barrel to nine inches, which is the most efficient powder-burning length for the caliber. They installed a full-length suppressor of remarkable quality. They even did a fine trigger job.

How does it work? Verrrry well, thank you. This little beauty is quiet. The only sound is the operation of the action. (For the ultimate in noise reduction, you need a locked-breech gun, like a bolt-action, or single shot.) Suppressors are not as quiet as depicted in the movies. They don't go Phhht; they sound just like what you hear when you drop the slide on your .45 pistol. It certainly does not hurt your ears, but it is about as loud as clapping your hands. Forget the Hollywood nonsense about taking out sentries on a still night without alerting other sentries.

The .45 ACP is sub-sonic, so there is no sonic boom. The sound level is about the same as a suppressed Ruger 10/22, but it hits a whole lot harder. The suppressor caused some loss of velocity, with both hardball and hollowpoints. Accuracy was unchanged: crummy with hardball, not bad at all with JHP's.

I had heard that sound suppressors make it difficult to locate the direction of fire, so I tested the premise. Now listen, kids, promise you won't try this next stunt at home: I walked downrange and let a trusted shooter fire rounds past me. I was able to identify the direction of fire, even with my eyes closed, and even with the shooter changing location. I heard two things: the clack of the action operating, and the bullet whooshing by. Because of the Doppler effect, I could distinguish the path of the bullet. However, we were in the middle of an absolutely quiet desert, with no ambient noise.

Inside a house, in a self-defense or police scenario, a suppressed .45 is lots easier on the ears. Plinking and hunting are a lot more enjoyable without all the blast, and you won't annoy the neighbors and the livestock.

Check out the Marlin Camp Carbine. With decent sights and a trigger job, it is a good replacement for the police shotgun. In America's handgun-banning gulags, it is a fine home defense weapon. MGN

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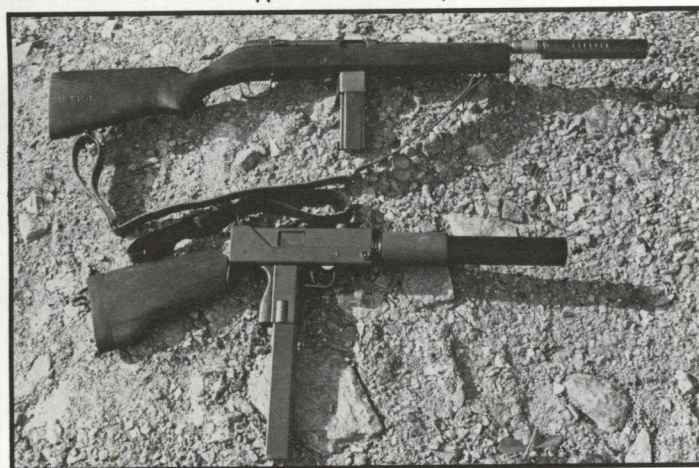


# Sound Signatures of .45 Caliber Carbine and Submachine Gun Suppressors

by Polly Walter



The Precision Arms SR45 suppressed Marlin Camp Carbine. Photo by Polly Walter



Maxim Model 1910 silencer on a Reising Model 50 submachine gun (top) and Cobray M10 suppressor on an R.P.B. M10 submachine gun. Photo by Al Paulson.

The sound signatures of suppressed and unsuppressed Marlin Camp Carbines were measured. Two suppressed Marlins were tested: the Precision Arms SR45; and the Sound Technology model designed by Mark White of Kodiak, Alaska. A new Cobray M10 suppressor was tested on an R.P.B. M10 submachine gun. And the Maxim Model 1910 suppressor was tested on the Reising Model 50 submachine gun.

Sound signatures were measured using a Bruel and Kjaer Type 2209 Impulse Precision Sound Pressure Meter (set on A weighting) with a B&K Type 4136 1/4-inch condenser microphone. The microphone was placed 1.00 meter away from the front of the suppressor or muzzle, at a 90 degree angle from the bullet flight path. The meter was calibrated just before and just after each series of tests. No instrument drift was observed. Winchester USA 230 grain FMJ ammunition was used for all tests. At least 10 rounds were fired in each test to obtain a valid statistical sample.

The sound signatures of suppressed and unsuppressed firearms are shown in Table 1, and net sound reductions are shown in

**Table 1. Sound signatures in decibels of .45 ACP carbine and submachine gun suppressors using Winchester USA 230 grain FMJ ammunition.**

Gun	Suppressor	Sound Signature	Temperature (degrees F)
Marlin Camp Carbine	None	153	66
Marlin Camp Carbine	Precision Arms SR45	135	68
Marlin Camp Carbine	None	153	78
Marlin Camp Carbine	Sound Technology	123	78
R.P.B. M10 Submachine Gun	None	162	62
R.P.B. M10 Submachine Gun	Cobray M10	145	62
Reising Model 50 Submachine Gun	None	159	62
Reising Model 50 Submachine Gun	Maxim Model 1910	137	62

**Table 2. Net sound reduction in decibels of .45 ACP carbine and submachine gun suppressors using Winchester USA 230 grain FMJ ammunition.**

Gun	Suppressor	Net Sound Reduction	Temperature (degrees F)
Marlin Camp Carbine	Precision Arms SR45	18	68
Marlin Camp Carbine	Sound Technology	30	78
R.P.B. M10 Submachine Gun	Cobray M10	17	62
Reising Model 50 Submachine Gun	Maxim Model 1910	22	62

Table 2. While the Camp Carbine suppressed by Sound Technology is the clear winner, all suppressed .45 systems in this study provide acceptable performance for sporting use, animal control and most tactical requirements. A special bolt-action system provided by AWC Systems Technology to special ops clients several years ago (it is absolutely, positively out of production) produces a sound signature similar to the Sound Technology system, but without the Marlin's mechanical noise. Called the Centurion, this bolt-action system was designed from the ground up as a

close-range sniping weapon. We'll examine the Centurion system in a forthcoming issue of Machine Gun News.

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# Tinkering With Thompsons



by Jim Klodzinski of Gunmachines

Magazine Loader for Thompson Stick Magazines

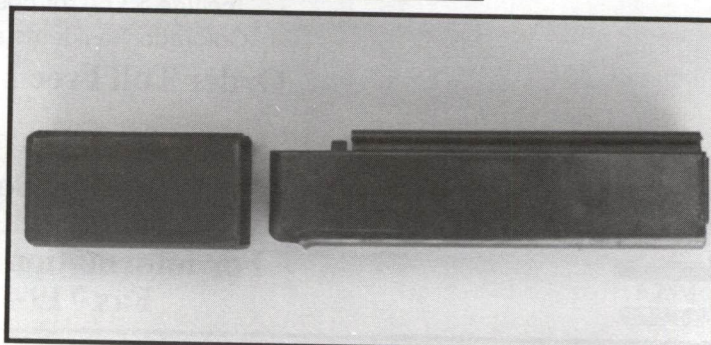
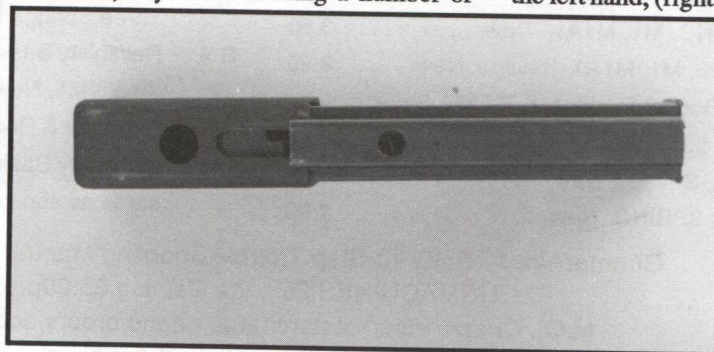
Glenn Wittenberger, an avid Thompson fan, has developed a magazine loader for all Thompson stick magazines. The loaders work on the 30 and 20 rounds stick magazines and also on the stick magazine used with the Auto-Ordnance Semi-Automatic Thompson Carbine.

The operating design is similar to an HK loader. Simply place the loader over the top of the stick magazine with the feeding hole facing to the back of the magazine. Drop a cartridge into the hole-bullet first. Push down on the top of the loader and release. The cartridge is automatically loaded into the stick magazine.

The workmanship of the loaders is top quality. I had the opportunity of testing these mag loaders at the Knob Creek Machine Gun Shoot this last October. Now, I will admit that loading one or even two TSMG stick magazines may not be considered by some as a major chore. However, if you are loading a number of

them during one loading episode then I would strongly recommend the use of this loader. With a small amount of practice and judicious positioning of the magazine and loader near the cartridges to be loaded, loading time is significantly shortened and the loading process becomes extremely easy, even for young kids. (By the way this is also a great way to get someone else to load your magazines for you!)

The technique I developed to use the loader is to hold the stick magazine horizontal to the ground with the base of the magazine horizontal to the ground with the base of the magazine pressed to your belt and with the loading hole facing upwards. The magazine and the loader are held in this position by grasping only the loader with the left hand (the right hand if you are left handed). Then, with the loader as close to the pile of cartridges as possible, with the right hand (left hand if you are left handed) pick up a cartridge and place it in the loading hole of the loader and then quickly, with the left hand, (right hand if left handed) pull



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the loader sharply toward your waist thereby seating the cartridge in the magazine. With a little practice, this process works like a fast machine. Try one and you may even begin to like the process of loading stick magazines!

The accompanying photographs show the loaders and how they fit on the stick magazines. The loaders are priced at \$37.50 each or two for \$70.00 and can be ordered now from Gunmachines. The quality and practical utility of these loaders Glen developed make the price well worth it. Congratulations Glen!

Next month I will be writing, happily, about another new Thompson product:

A 50 round drum magazine that fits and functions in the M1 and M1A1 TSMG with NO machining to the receiver of the firearm in anyway. This is quite an item. I had some at the Knob Creek Shoot and the main question asked by M1 and M1A1 owners was how soon can I get one. Answer: they will be available from Gunmachines prior to the next issue of MGN appearing in your mailbox.

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The growing dissatisfaction of many law enforcement agencies and the military special operations community in the performance of lighter weight 9mm Parabellum projectiles (under 120 grain) has prompted a switch to heavier projectile weights in the range of 147 to 158 grain. The predominant commercial heavy bullet weight 9mm ammunition in this country is based on the 147 grain projectile. Conveniently, these loads are also subsonic, which greatly interests users of sound suppressed weapons. As more agencies switch

utilizing 140 grain projectiles. The only commercial ball ammunition utilizing the 158 grain FMJ projectile is Samson/IMI (Blue tip). Some of the above loads, primarily those by Winchester, are not available to the general public. There are a number of commercial remanufacturers producing 9mm subsonic ammunition with 147 grain FMJ projectiles. Ammunition we have tested from several of these sources yield velocities ideal for handguns (around 960 fps), but the velocity in the MP5 is in the vicinity of 1,070 fps, which may be

velocity loss introduced by barrel porting in the HK MP5SD reduces the effectiveness of any ammunition utilized, providing bullet terminal performance comparable to the .380ACP cartridge. There are several muzzle suppressors which can be coupled to the barrel of the standard MP5 which provide excellent suppressed performance. Many pistols have similar weight and barrel lengths, and we utilized primarily the Beretta M9 (92F). Handguns and submachine guns have different needs and characteristics.

# SUBSONIC 9mm AMMUNITION FOR THE HK MP5

by Philip H. Dater

to the heavier bullet weights in 9mm ammunition, there is an increased desire for reloading data for these projectiles. Other than Accurate Arms, there is virtually no loading data available. We have developed some suggestions for using commonly available cannister powders for loads to be used primarily in sound suppressed weapons which will provide safe and reliable performance.

Although the theoretical wound damage from high velocity lightweight projectiles was once regarded as impressive, numerous actual shooting incidents with this type of ammunition has failed to reliably incapacitate the target. Trauma experts, such as Dr. Martin Fackler, believe that in order to incapacitate an assailant it is necessary to adequately penetrate to a vital organ, such as the central nervous system or great vessels (heart or aorta). This requires a heavier bullet which has greater energy density on target. Typically in order to incapacitate, a projectile must penetrate a minimum of 7-9 inches in 20% ordnance gelatin or 12-18 inches in 10% ordnance gelatin. Projectile expansion is secondary to penetration, and penetration is inversely proportional to expansion.

Commercial producers of 147 grain ammunition include Federal, Winchester, CCI (Blazer) with Remington producing loads

supersonic under certain conditions. There are some remanufacturers who are utilizing copper plated 147 grain cast lead bullets. We have not evaluated any of these loads.

*A report, "9mm Expanding Ammunition for Military Law Enforcement Use" by the Naval Weapons Support Center in Crane, IN, indicates that bullet weights over 154 grain are associated with increased failure to extract in the MP5.*

The primary categories of weapons we considered were the 9mm handgun and submachine gun. A well proven and widely used submachine gun available is the standard Heckler & Koch MP5 which we used for our tests. We have found the excessive

A report, "9mm Expanding Ammunition for Military Law Enforcement Use" by the Naval Weapons Support Center in Crane, IN, indicates that bullet weights over 154 grain are associated with increased failure to extract in the MP5. This was found to be due to expansion of cartridge case brass into the chamber flutes due to increased peak chamber pressure as a result of increased impulse-momentum characteristics of the heavy projectile. Although this can be corrected by changing the angle of the locking piece in the MP5 bolt (which controls cycle time), use of standard supersonic ball ammunition will decrease the service life of a modified weapon. Their conclusion is the ideal projectile weight is between 145 and 150 grains. We are familiar with several instances of failure of the holder for locking rollers in MP5 submachine guns which were fed a steady diet of 158 grain FMJ ammunition. It is also interesting that Heckler & Koch recommends against the use of any Israeli manufactured ammunition in the MP5. Although one might think this targets the "Black Tip" carbine loads, H&K includes the 158 grain "Blue Tip" subsonic ammunition.

Additional experimentation showed with the 147 grain projectile there was an increased failure to extract in the MP5 as the velocity was increased over 1075 fps.



Failure to extract was again associated with increased expansion of cartridge case brass into the chamber flutes, an indication of excessive chamber pressure. This is evidenced as heavy chamber flute marks in the brass. Many of the loads involved use tightly compressed powder charges in order to properly seat the longer projectile. Fearing the results of inadvertent bullet setback, NSWSC intentionally set bullets deeper, measuring both pressures and velocities. Increased bullet setback (and powder compression) produced increased velocity with resultant failure to extract and associated increased chamber flute marks in the brass in the MP5, again signs of excessive chamber pressure. While chamber pressure tests at NSWSC did not indicate a significant pressure difference, this was attributed to the use of a copper crusher test method that measured pressures at the case mouth. Because of the longer bullet, the standard SAAMI mid-case pressure could not be measured. The conclusion from brass deformation and flow into the chamber flutes is that peak instantaneous chamber pressures were increased. To prevent bullet setback on feeding in the MP5 submachine gun, the crimp should be

## LOADING DATA for 9mm 147 gr FMJ PROJECTILES

Powder	Wt gr.	Velocity MP5	Velocity Beretta M9
Bullseye	3.4	994	887
Bullseye	3.5	1024	891
WW231	3.8	965	881
WW231	3.9	976	893
WW231	4.0	994	895
AA #2	4.3	1000	940
AA #5	5.0	994	860
AA #5	5.1	1036	913
AA #5	5.3	1065	950
Herco	4.0	990	894

TABLE 1

## SPEED OF SOUND

The formula for the speed of sound in ft/sec is:

$$\lambda = 49.06\sqrt{T+459}$$

where  $\lambda$  is the velocity of sound in ft/sec and T is measured in degrees Fahrenheit. For example:

°F	$\lambda$
0	1,051
32	1,087
44	1,100
60	1,118
70	1,128
80	1,139
90	1,150
100	1,160

TABLE 2

such that the cartridge will withstand 75 pounds compressive force without setback. For reliable feeding and minimum chamber pressure, the overall case length should be no less than 1.115 inch and no more than 1.16 inch. With thicker case walls, military brass has a slightly smaller case volume which will increase peak chamber pressure. Commercial brass is recommended.

There are two other advantages to targeting 1,000 fps as the optimum velocity for the 147 grain projectile. One is the muzzle flash is significantly reduced from that of standard 115 grain supersonic ammunition. The second is related to accuracy and group size. There is increased bullet flight instability as projectile passes through the transonic region, and greatest accuracy is obtained when the projectile velocity is approximately less than 90% or greater than 110% of Mach 1. On the average summer day, 1,000 fps is at approximately Mach 0.9.

Functioning and cycling of a weapon is related to the recoil impulse. Utilizing the 147 grain projectile, the proven minimum muzzle velocity for reliable cycling of the Beretta M9 (92F) pistol is 975 fps. Our experience with the M9, as well as with the Glock 17/19, HK P7/P9, SIG 226/228 and the Browning HiPower is that we achieved reliable cycling with 147 grain projectiles at velocities down to near 910 fps with our pistols and 860 fps with our M9. Theoretically

there is adequate recoil impulse to cycle the MP5 at velocities down to 700 fps. However, we did not attempt to verify this lower limit. Our experience is that the 147 grain 1,000 fps loading for the MP5 also reliably functions the UZI family of submachine guns as well as the 9mm Steyr AUG, STEN, Ingram M10, and S&W M76.

In developing our loads, we utilized either CCI or Winchester standard small pistol primers. Magnum primers can dangerously increase pressures with certain powders and must not be used. We also utilized a 147 grain FMJ boat-tail projectile, which we acquired from Sandia Die & Cartridge company. We used mixed commercial cases, which may account for mild velocity variations within a given load. Although cases were assembled on a Dillon RL-1000, each individual charge was weighed using an RCBS electronic powder scale. There are few recommendations in the reloading literature for the 147 gr. subsonic 9mm load. Those listed for Accurate Arms powders are within their published guidelines. Those listed for the Hercules Powders (Bullseye and Herco) are within guidelines listed in an older Lyman handbook circa 1970. We have no facilities for measuring chamber pressures. Listed velocities are a 10 round average and were measured on a PACT III chronograph. Our results are summarized in Table 1.

(continues)



# HK

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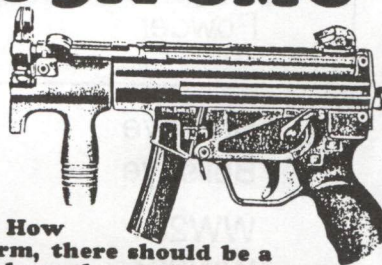
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The speed of sound varies only with temperature in the atmosphere below 45,000 feet (see table 2). For ammunition to remain subsonic when fired from the MP5, it is necessary to consider the temperatures at which it will be utilized. Since 0F is not an unreasonable operational expectation, projectile velocities in the vicinity of 1050 fps may well become supersonic on a winter day. For this reason, it is advisable to target velocities in the vicinity of 1,000 fps for subsonic ammunition in the standard MP5.

Interestingly we have found a lack of consistency in load results utilizing different lots of WW 231. In the current lot of WW 231 cannister powder being used, we have needed to increase the charge by approximately 5% in order to achieve the same velocities obtained with earlier lots. We do not have enough experience with different lots of the other powders to comment on consistency. Because of the recoil impulse characteristics of the faster burning powders, such as Bullseye, WW231, and AA #2, we do not recommend their usage. Problems have been reported of incomplete cycling of some of the higher performance handguns, such as the SIG and Glock when using the faster burning powders.

In summary, our recommendation for the 147 grain projectile is to consider 5.0 grains of Accurate Arms #5 in loads primarily the MP5. When loading for primarily the Beretta M9, we suggest 5.3 grains of AA #5. As an overall compromise for ammunition used in both handguns and submachine guns, we recommend 5.1 grains AA #5.

Please remember that these recommendations are just that, and differences in components and techniques (including the degree of taper crimp) can make significant differences in pressures and velocities. This data has been the result of our experimentation, and we suggest it as a general guide only. We would further suggest that initial loads be reduced by 10%, and during experimentation that the reloader be alert for signs of increased pressure. Neither the author nor publisher can accept any responsibility for the use of this data.

**WARNING:** The information in this article is intended solely as a guideline to assist in the reloading of ammunition for firearms in good mechanical condition. Since neither the author nor Machine News has any control over its actual publication, neither assumes any liability for its use.

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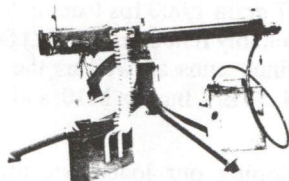
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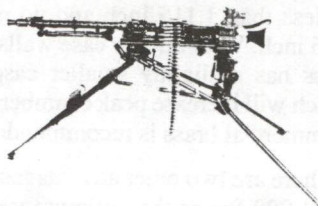
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# Increasing Your Firepower

by James L. Ballou

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However, in spite of increased cyclic rates and the ability to lay down heavy concentrations of fire, reloading hasn't change significantly. It is still a manual process, one round at a time. The axiom "the more things change the more they stay the same" was evident in the Desert Storm campaign. It was noted that in Saudi Arabia people loading magazines dropped two out of three rounds in the sand!

I personally shoot 100,000 rounds a year with automatic weapons (I have the strongest thumbs in the business!). I have often wished there was a better system for loading magazines. Now there is! C3 Systems, Inc. has introduced an improved, patented system that utilizes state-of-the-art polymer technology. The system consists of the C3 Rapid Loader™ and Uni-Clip™. The Rapid Loader is made of Dupont's Zytel™ and consists of the main magazine housing and a plunger. The Uni-Clip™ is a unique ammunition package, made of High Density Polyethylene, that holds up to 30 rounds. The Uni-Clip™ provides a compact, strong and extremely safe ammo pack. The HD Polyethylene creates a lubricated like surface on which the ammo glides when used with the C3 Rapid Loader™. The only resistance is the magazine spring.

At the latest North Country Shoot, sponsored by the Minuteman Shooting Club, in New Boston, New Hampshire I had the opportunity to field test the latest C3 Rapid Loader™. It surpassed my expectations. Using only three magazines, I was able to put 1,000 rounds of 9mm, sub-sonic am-

munition, through my suppressor-equipped MP-5, as fast as I could empty the magazines. Using the C3 Rapid Loader™ and Uni-Clip™ my assistant reloaded each spent magazines as fast as I could fire on full-auto. In fact, he actually had to wait for me! Afterwards he said he could have stayed with me using only TWO magazines.

The system offers several benefits to the professional and sportsman. It is obviously fast, 30 rounds in just seconds, and compared to hand loading it is absolutely painless. The Uni-Clip™ reduces the requirements for extra magazines since each Uni-Clip™ is the equivalent of one magazine load. Unlike magazines the Uni-Clip™ can be loaded well in advance of use, no more last minute loading just before a shoot. This will also extend the life of the magazines you already own. The time saved at the range lets you enjoy shooting instead of tediously reloading empty magazines. By the way, the Uni-Clip™ can be loaded for 20, 25 or 30 rounds to match your magazine capacity.

Some of the less obvious benefits are: the Uni-Clip™ protects the base of the cartridge and protects the primer from premature detonation; the loaded Uni-Clip™ stacks neatly in common GI ammo cans making it readily available for use with the C3 Rapid Loader™. Spare magazines are heavy and prone to damage from denting and malformation. The Uni-Clip™ can be pre-packed and delivered to the field. For those of us who have rare weapons for which magazines are unique or scarce, the C3 Rapid Loader™ solves the problem since only one magazine is required, even for 1,000 round shoots!

In conclusion, the C3 Rapid Loader™ and Uni-Clip™ is a unique loading system that expands the effectiveness and firepower of the individual soldier and makes shooting fast, easy and painless for the average sportsman.

MGN

C3 Systems  
PO Box 485  
N. Scituate, RI 02857  
1-800-421-5142

## AK-47 SEMI-AUTO PARTS KITS!

L.M.O. has a limited quantity of parts sets that were imported before congress made the provision that you cannot assemble a semi auto AK from imported parts. (Public Law 922 R, Title 18 US Code, Nov. 1990) There is no grandfather clause for these parts, they are being sold as replacement parts only. No shipping records will be kept for replacement parts sets that are paid for by postal money order. L.M.O. has been in the firearms business for 13 years, references are available.



! \$295 !

No FFL Required

! \$295 !

No FFL Required

Long Mountain Outfitters

P.O. Box 45  
Harmony, ME 04942  
207-683-2169

Parts kit is new and complete with one 30rd magazine,  
lacking only the stripped metal receiver.

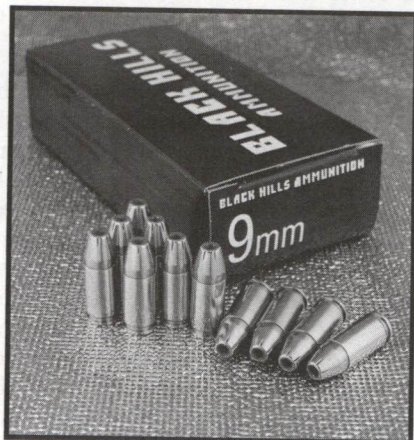


# What's New

by Chris A. Choat

## NEW 9MM FROM BLACK HILLS AMMUNITION

**B**lack Hills has announced that they have now completed development on a new 9mm 124 grain jacketed hollow point load. This new load combines velocity with a heavier bullet than the normal 115 grain load. Uniformity and functioning are excellent, just what you have come to expect from this superb ammo company. Black Hills Ammunition is sold only to dealers and Law Enforcement agencies. For more information and prices contact your local dealer or Black Hills directly at Dept. MGN, P.O. Box 5070, Rapid City, SD 57709. Their phone number is 1-605-348-5150. Fax: 1-605-348-9827.



## CLIP-FED 12 GAUGE

**E**uropean American Armory introduces the PM2 12 gauge shotgun. The PM2 is a pump action, clip fed 12 gauge chambered for either 2 3/4 or 3 inch shells. It features a corrosion resistant finish, trigger blocking safety and can be ordered with either an 18 or 20 inch barrel. The magazines are made of steel and have a capacity of 6 rounds. The PM2 can use all special 12 gauge rounds such as rubber slugs, lead slugs,

buckshot, tear gas and steel shot. The PM2 is flash light and laser adaptable and weighs 8.4 pounds fully loaded. Accessories for the gun include a folding stock, pistol grip adjustable rear sight, sling and extra magazines. For more information contact European American Armory Corp., Dept. MGN, P.O. Box 3498 Bright Station, Hialeah, FL 33013. Their phone number is 1-205-688-4442. Fax: 1-305-688-5656.

## REISING 50-ROUND DRUMS

**A**t last, there is finally a high capacity magazine for the Reising submachine gun. Si-Bar Co., a Martinsville, IN company, headed by Sam Simons is producing a 50-round



drum that fits and functions very well in the Reising. The drum is made by coupling a 12-round Reising stick with a 50-round Thompson drum. Each "unit" is fixture built, weapon tested and parkerized. This is definitely good news for Reising fanatics out there and might even make a difference in the outcome of some future submachine competitions. For more information you can contact either Sam or Kent Lomont. Sam Simons Dept. MGN, 95 Grassfork Lane, Martinsville, IN 46151 1-317-342-9689 or Kent Lomont, Dept. MGN, 4263 W 700 South, Poneto, IN 46781, 1-219-694-6792

## HECKLER & KOCH AWARDED CONTRACT FOR SPECIAL OP PISTOL

**S**eptember 12, 1991: Heckler & Koch, Inc. of Sterling, Virginia announced today that it was awarded a \$1.4 million Phase I contract to develop a new Offensive Handgun Weapons System for the US Special Operations Command (USSOCOM). The SOCOM directs the activities of America's Special Operation Forces which include the Navy SEALs, Army Special Forces and Rangers, and Air Force Special Operations Wing. H&K, Inc. is the US subsidiary of the German small arms manufacturer, H&K GmbH of Oberndorf, Germany, which in turn is a subsidiary of Royal Ordnance plc of Chorley, United Kingdom. The new pistol system will consist of a .45 caliber pistol, a laser aimer component and a suppressor. Phase I is a one-year research and development phase. Under the terms of the contract, thirty prototype systems will be delivered to the US Government for extensive test and evaluation. H&K, Inc. is the Prime Contractor for the development of the system, with H&K GmbH as a subcontractor for the pistol and suppressor components and Insight Technology Inc. of Manchester, New Hampshire as the subcontractor for the laser aiming module component. Two Phase I contracts were awarded, the other being to Colt Manufacturing Company, Inc. of Hartford, Connecticut. If the US Government decides to exercise one of two possible follow on phases, one of the Phase I systems will be selected for a continued development and/or a production phase. Production of up to 8000 pistols, if awarded, would begin in January 1994. For more information contact John Meloy, H&K Federal Operations Department, 21480 Pacific Blvd., Sterling VA 22170. Phone: 1-703-450-1900. Fax: 1-703-450-8160.



# THE FIRST ANNUAL UTAH STATE SUBMACHINE GUN SHOOT

By Steve Parker

Submachine gun competitions are popping up all over the country as more shooting enthusiasts and Title II owners are discovering the joy and exhilaration of actually shooting their investments. The Auto Collectors' Association of Utah (A.C.A.U.) decided to join in some of the fun and excitement of this shooting sport by hosting the first Utah State Championship Submachine Gun Shoot. Out-of-state shooters attending the match came from Nevada, Wyoming and Idaho. In all, thirty-eight contestants entered the competition and thoroughly enjoyed themselves, especially considering that a storm the night before dropped a foot of new snow on the range. The Hendrikson P.M.A.A. range is located half way between Salt Lake City and Park City so they do get a lot of snow in the winter months, but in April?!

First place winner and the "Top Cop" plaque went to Dennis Tueller of the Salt Lake City Police Department shooting an MP-5. Dennis had his choice of an SKS rifle or an AWC suppressor gift certificate and he chose the rifle. Second place winner and the Class A plaque went to Steve Parker shooting an MP-5, and winning the AWC suppressor gift certificate. The Class B plaque went to Chuck Hinson shooting an MK760 and the Class C plaque went to Scott Swofford shooting an MP5.

Alex Robinson, the local class III dealer provided an MP5 for the shooters who have not yet experienced the financial shock of their first submachine gun purchase. Thanks to Mr. Robinson we had ten new people try out an MP-5 and all were very impressed with this excellent firearm.

The first course of fire consisted of a vertical stake with five balloons stapled side by side. The idea was to shoot all the balloons with one continuous burst of 30 rounds full auto fire. If more than one burst fired your score would be zero. If you have never tried it before, you would probably be surprised just how difficult it can be. When you have worked so hard to

Machine Gun News - December 1991



Contestants comparing their scores against the other shooters.

develop good trigger control it is very hard to keep your finger on the trigger when your sights are bouncing all around the target. The Salt Lake City Police SWAT members who shot this stage felt it was a little strange since it goes against all normal subgun shooting tactics. However, it was a lot of fun and they did very well. Over all 16 of the 38 contestants were able to hit all the balloons.

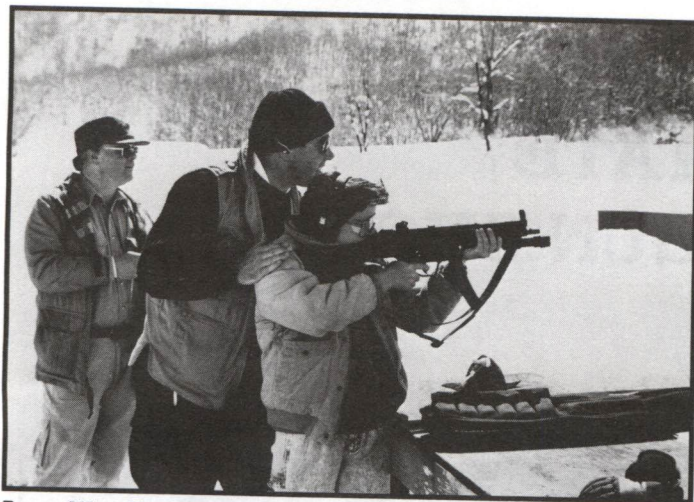
The second course of fire consisted of an eight inch steel plate and eight pop up targets, two of which were no shoots. This was an excellent tactical stage assuming you did not try to memorize the target pattern. The targets were placed behind thirty-two feet of barricade and appeared in a random sequence. Upon shooting the steel plate, a valve would open releasing bottled CO<sub>2</sub> which activated the remaining eight paper targets two at a time. Each set of two targets appeared for approximately 1 1/2 to 3 seconds. This stage required

some very quick shooting because once you started the target sequence by hitting the steel plate the paper targets continued to appear, ready or not. Dennis Tueller aced this stage with the high score of 112.97. The equipment used in this stage is manufactured by "Action Target" located in Provo, Utah.

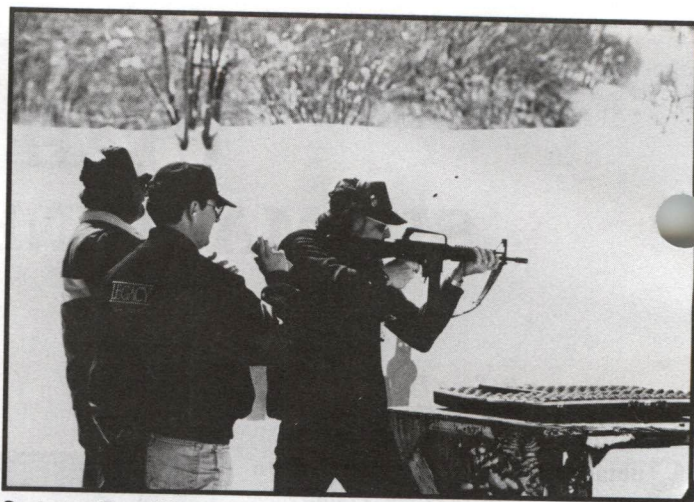
The third stage was for those who like to shoot a lot, consisting of approximately thirty steel pepper poppers. Fifteen of these poppers had two 1/2" yellow "eyes" identifying them as shoot targets. The object was to shoot half the steel targets, do a quick reload and then shoot the remaining targets. This stage was also a lot of fun with the continuous roar of many rounds fired down range. One contestant was overheard saying it must have looked like this on the Russian Front of 1944, (ie. a target rich environment) especially with a foot of new snow on the range.

(continues)





Range Officer Chuck Hinson watches as Dennis Tueller coaches his son.



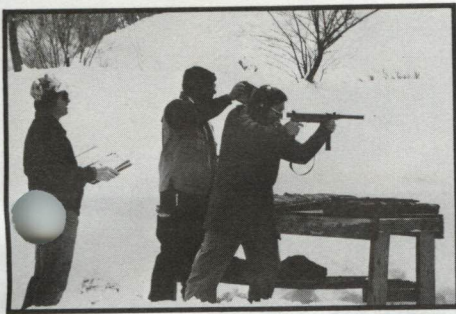
Contestant Dave Wheat fills the air with brass shooting his M16/9mm.

### A.C.A.U. 1991 SUBMACHINE GUN SHOOT

Name	Firearm	Stage 1 Balloons	Stage 2 Pop Ups	Stage 3 Poppers	Stage 4 Plates	Total Score
1. D. Tueller	MP5	125	112.97	130.50	117.80	486.27
2. S. Parker	MP5	125	104.53	128.92	118.21	476.66
3. R. Bruno	MP5	125	100.01	130.80	118.14	473.95
4. A. Newell	MP34	125	93.25	130.44	121.44	470.13
5. K. Farnsworth	MP5	125	92.80	128.28	120.29	466.37
6. B. Bailey	MP5	125	93.07	127.70	118.48	464.25
7. T. Tuft	M16/9mm	125	86.69	132.26	118.87	462.82
8. K. Hanvey	MP5	125	88.03	126.50	119.75	459.28
9. J. Masnica	MP5	100	100.93	133.50	116.68	451.11
10. C. Day	MP5	125	97.07	131.65	94.23	447.95
11. D. Wheat	M16/9mm	100	92.84	122.67	115.26	430.77
12. V. Laguna	MP5	125	92.06	121.53	89.88	428.47
13. C. Hinson	MK760	125	60.78	127.22	110.74	423.74
14. A. Robinson	MP5	100	95.82	131.00	92.89	419.71
15. C. Dringle	MP5	100	83.46	116.62	119.29	419.37
16. D. Smith	MP5	100	69.11	124.50	117.10	410.71
17. C. McKean	MP5	100	81.33	110.50	116.75	408.58
18. D. Dickson	MP5	125	81.26	126.00	75.46	407.72
19. R. Parker	M11/9	75	112.57	119.50	88.87	395.94
20. K. Matheson	MP5	100	76.19	121.73	66.75	364.67
21. G. Jensen	MK760	100	46.11	95.89	120.79	362.79
22. B.C. Hollis	MP5	100	97.26	123.03	42.33	362.62
23. B. Van Dorn	MP5	125	102.03	112.51	16.01	355.55
24. D. Floyd	M16/9mm	75	45.32	117.00	117.90	355.22
25. D. Miller	Thompson	100	83.64	103.38	62.59	349.61
26. S. Swofford	MP5	100	83.25	133.01	D.N.F.	316.26
27. A. Maxwell	M10/45	50	53.49	97.00	107.63	308.12
28. M. Cordova	MP5	0	106.03	123.80	70.70	300.53
29. D. Lloyd	M16/9mm	125	68.19	0.0	69.44	262.63
30. T. Powell	MP5K	125	18.22	104.57	0.0	247.79
31. T. Rossiter	MP5	0	64.02	126.94	44.85	235.81
32. D. Hinson	MK760	25	38.05	90.21	65.13	218.39
33. P. Stott	MK760	0	47.10	109.95	39.71	196.76
34. D. Meents	MP5	0	68.09	127.24	0.0	195.33
35. R. Sethman	Sten	0	33.40	114.90	D.N.F.	148.30
36. M. Lloyd	M16/9mm	50	0.0	105.40	0.0	155.40
37. B. Westover	M16/9mm	0	0.0	108.80	42.80	151.60
38. R. Bills	MK760	125	D.N.F.	D.N.F.	D.N.F.	125.00

(DNF / Did Not Finish)





Graydon Jensen shoots a friend's MK760. Next year he says he will be shooting his own subgun.

This stage was won by Tom Tuft of the Sandy City Police Department who placed seventh overall.

The last stage of fire consisted of five 8" X 10" steel plates set on two railroad ties. These targets had to be shot from the under-arm or hip position. It was not easy because you could not always see where your bullets were hitting. This stage was aced by fourth place winner Allen Newell from Nevada after cleaning all five plates in only 3.56 seconds with his Styer Solothurn MP34. He told us later the secret to this stage was moving your hips, not the gun, after you are lined up on the target.

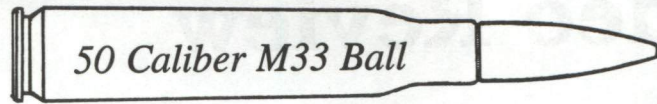
We wish to thank the following sponsors who helped to make this such a successful shoot: A.C.A.U. donated an SKS Rifle; Lynn McWilliams of A W C Systems Technology, a Suppressor Gift Certificate; Training Firearms, an MP5 K-Stock; Robinson Arms, a Title II transfer; Machine Gun News, three Gift Subscriptions; Chuck Hinson, a Defensive Weapons Training Class; Alan Dawson, .45 cal bullets and primers; Idaho Automatic Weapons Collectors' Association, an I.A.W.C.A. sweat shirt; Ron Bills, ten Mag Flashlights and one case of 9mm ammo; Dillon Precision, Collapsible Hearing Protectors; Olympic Arms, ten Minuteman Posters; and Richard Davis who donated the police prizes, ten Second Chance Vests Certificates and Video Tapes.

We would also like thank The Golf Centre who printed the Participation Certificates for all the contestants and Monte Brock who provided the submarine sandwiches for lunch.

If you are interested in one of the most enjoyable forms of firearms recreation you will ever experience, come and join us next year on May 16, 1992 for the Second Annual Utah State Championship Submachine Gun Shoot!

Auto Collectors' Association of Utah, Inc.  
PO Box 514  
Centerville, Utah 84014

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50 Caliber Ball ammunition reloaded to GI specification on once-fired US GI brass with M33 Ball bullets and non-corrosive primers.....\$85/100

50 Caliber GI Surplus Ball Ammo, cases slightly tarnished.....\$85/100

CCI #35 .50 Caliber primers, fresh and non-corrosive. \$15/100 \$125/1000

50 Caliber pulled bullets, 650 grain M33

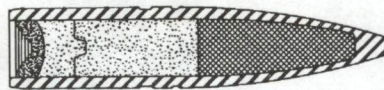
Ball, clean and shiny, no pull marks.

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RVO-57, GI surplus ball rifle powder specifically designed for loading 50 Caliber Ball ammunition. \$26 per 8 pound keg



50 Caliber M17 Tracer bullets. Pulled from damaged ammo, these are dark but sure 1600 yard trace. \$75/100

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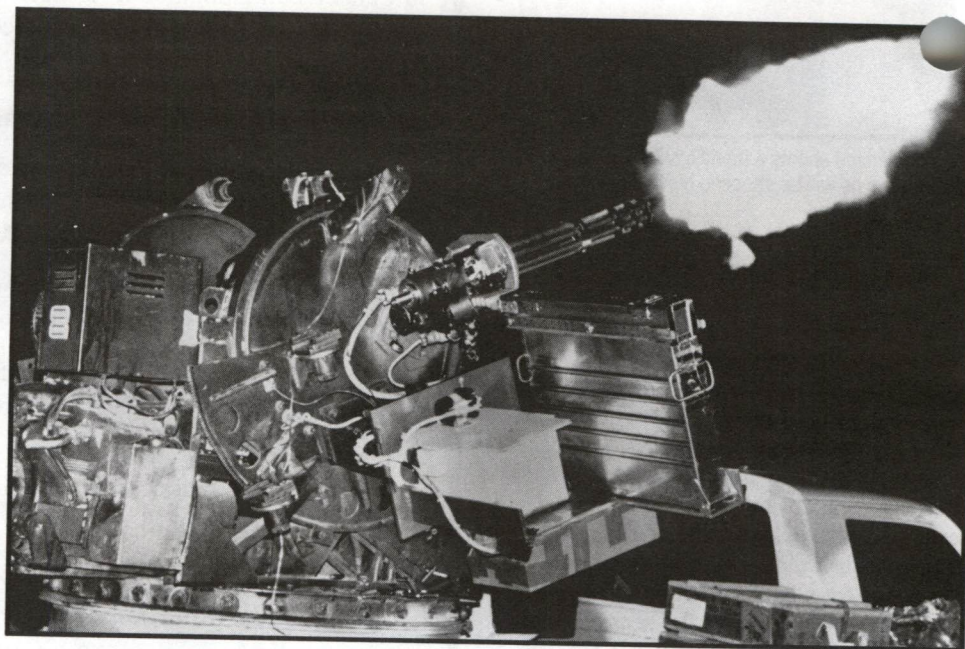
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# Video Review

## Machine Gun Magic



*by Chris A. Choat*

## from Dillon Precision

These days, for a new movie to be a hit it just about has to be an action type movie with lots of blazing machine guns, a dramatic car chase, sex and a good share of violence thrown in.

I have just viewed a video that is sure to be a hit (especially with shooters) and it doesn't have any sex or violence. In fact, it doesn't even have a chase scene. But it does have the fourth ingredient—MACHINE GUNS.

Mike Dillon, owner of Dillon Precision Products, Inc., has long been associated with the firearms industry. His bright blue reloaders and accessories grace the loading benches of both high and low volume shooters the world over. Mike and the people at Dillon have put together a new video that has got to be one of the hottest "full-auto" videos in years and they call it MACHINE GUN MAGIC.

In a recent phone conversation with Mike he told me that like a lot of full-auto enthusiasts who attend machine gun shoots, he quickly tired of shooting dirt and stationary targets. So he decided to have his own full-auto shoot and used the ultimate machine gun targets, radio controlled, drone airplanes. Living in Arizona Mike and his crew have access to miles and miles of vast desert which provided the ideal place for an "event" such as this. Needless to say this would be quite a show and needed to be recorded for posterity. The

result is the best full-auto video that I have ever seen.

Machine Gun Magic offers some historical narrative on some very interesting full-auto guns which include the Gatling gun, the Hughes chain gun and the General Electric Mini Gun. The grand finale features literally thousands and thousands of rounds of tracers fired at several radio controlled drones. My hat goes off to the pilots of these airborne targets as they even fly them at night with light sticks taped to their wings! For those of you that have never flown a radio controlled airplane let me tell you that it is a tricky proposition in daylight let alone total darkness. Mike's quad-fifties and his mini gun put on quite a show as solid belts of tracers lace the desert sky chasing the fast moving planes.

This video is first rate in every aspect. It features excellent photography, good music, well thought out narration and at a price of \$29.95, direct from Dillon, it's a bargain. Check out Machine Gun Magic from Dillon Precision because Mike Dillon definitely knows how to have a machine gun shoot. One other thing Mike, next time you decide to go play can I come over?

Dillon Precision Products, Inc.  
7442 E. Butherus Drive  
Scottsdale, AZ 85260  
1-800-421-7632

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# Fully Transferable Machine Guns and Suppressors

Aug-Black Stock 16.6 inch barrel NIB	\$3200
American 180-22LR several to choose from	\$1195
AR-10 Portuguese-308 cal. very good pre-86 DS	\$1495
Armalite 18 -223 excellent condition	
these are on the curio and relic list	\$1700
AK-47 - 7.62 x 39 underfolder NIB	\$2200
AK-47 - 7.62 x 39 full stock NIB	\$2100
AK-47 - 223 Poly Tech as new full or folder	\$1700
Bingham 22 LR carbine - with two drums,	
this gun is a closed bolt machine gun	\$ 995
Beretta BM 59-308 Cal NIB	\$1895
Buffalo Arms ANM2 30 cal no tripod rewat good gun	\$1995
1917 Browning - water cooled with two calibers 30:06 and	
308 complete with tripod new gun with reg. sideplate	\$3500
1919 Browning stripped receiver remfg	\$1295
Colt MG 40 ANM2 no bipod	\$1995
Colt 9mm CAR excellent	\$2500
Colt M16 very good	\$1900
Colt M16A1 U.S. Property Marked good condition	\$1895
Colt MXM16E1 U.S. Property Marked excellent	\$2295
Colt AR15 M16 U.S. Property Marked with early colt scope	
early 60's factory M16 excellent condition	\$2500
Colt M16A1 NIB	\$2500
Colt M16A1 heavy barrel with factory bipod new	\$3200
Colt M16 Carbine 14 inch barrel new	\$2600
Colt M16 Model 614 excellent	\$1750
Colt AR 15/16 CAR 16.5 inch barrel excellent	\$1695
Colt AR 15/16 SP1 like new	\$1495
Colt AR 15A2/16 new	\$1695
SGW M16 Sporter very good	\$1295
SGW M16 Stripped receiver new	\$ 995
Danish Madsen 50 9mm very good on the C&R list	\$ 995
FN FAL 50:00 Belgium with a Art II Scope excellent	\$2900
FN FAL Belgium with full wood imported in the 50's as a	
full auto not a converted gun one of the first FN's brought into	
the U.S. beautiful gun look's new	\$3500
C1 Canadian FAL-308 wood stock with bipod good cond	\$2500
FNC 223 with reg. rec. excellent	\$1795
G3 308 HK clone NIB	\$1795
HK21 - 308 Belt fed with two quick change barrels,	
registered receiver with a green finish works flawless	\$4200
HK33 -223 Pre-86 DS very good	\$1895
HK51 - 308 Shorty by Fleming New	\$2195
HK MP5A3 with reg. rec. has 3 lug barrel. Paddle mag release,	
push pin lower, with seals 3 shot burst, these are NIB guns	
with all German parts	\$3300
HK MP5A2 with three lug barrel, SEF lower.	
Paddle mag release by S&H	\$2700
Collapsible stocks for MP5's	\$ 225
HK MP5A3 with 01A lower 16.5 barrel excellent sear gun	\$2300
HK MP5SD with reg. rec. SEF lower suppressed, excellent	\$3400
HK MP5SD sear gun suppressed by S&H excellent	\$3200
HK MP5K pistol version of MP5 with SEF lower, vertical pistol	
grip on the front, NIB	\$2400
HKMP5KSD same gun with integral suppressor	\$2995
HK G3 308 with Hensolt scope, triple wall receiver, original gun	
imported in 1965 from the H&R Museum 100% as new	\$5500
H & R Reising 50 good condition with hard case	\$ 650
H & R Reising 50 good	\$ 495
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M3A1 Grease Gun by Ithaca Pre86 DS very good	\$1095
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MP40 Pre-86 SD matching #'s reparked	\$ 895
MP40 Dewat plugged barrel original matching #'s	\$1295
MP40 original matching #'s good finish	\$2200
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Mac 10 45 ACP Powder Springs NIB	\$ 795
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Uzi IMI 9mm reg. bolt gun excellent	\$1250
Uzi IMI 9mm pre-86 DS excellent	\$1500
1915 Vickers 8mm by Erb with tripod and shipping crate,	
fluted barrel, excellent condition	\$2500
Jap 99 by Smith good condition	\$1450

## Short Barrel Shotgun \$5 Tax Stamp AOW

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Ithaca Stake Out 12 Gauge 13 inch barrel NIB	\$ 349
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M-11 9mm wipeless suppressors new	\$ 199
MAC 45 wipeless suppressors new	\$ 199
SWD M-11 9 suppressor with wipes NIB	\$ 150
SWD M-11 380 suppressor	\$ 125
Knight M-16 suppressor used	\$ 250
Ciener Uzi 9mm suppressor with barrel	\$ 250
AWC Warp 3 22 suppressor	\$ 250

## Integral Suppressors with New Gun

Colt 9mm CAR	\$1095
Beretta 92F	\$ 895
Ruger KP85	\$ 750
Ruger 10/22	\$ 425
Ruger KMK 22 Stainless	\$ 579
Ruger 77/22 Stainless	\$ 625
Ramline 22 used	\$ 375
Marlin Camp carbine 9mm	\$ 549
Marlin Camp carbine 45 ACP	\$ 579
Walther TPH 22 Stainless	\$ 599

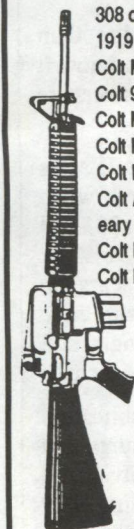
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# The Forms

by Dan Shea



Anyone who ever deals with the government knows, as soon as you think you know the rules, someone changes them. On that note; BATF has changed the phone numbers for contacting the Washington D.C. offices, including the fax numbers.

## New Telephone Numbers Firearms and Explosives Division

On Monday, September 30, 1991, the Firearm and Explosives Division's Headquarters Offices will have new telephone numbers. Please make note of these changes. The new telephone numbers are as follows:

Firearms and Explosives Division  
(202) 927-8300

Firearms and Explosives Division  
Fax (202) 927-8601

Firearms and Explosives Operation  
Branch (202) 927-8310

Firearms and Explosives Import Branch  
(202) 927-8320

Nation Firearms Act Branch  
(202) 927-8330

NFA Fax  
(202) 927-8602

Firearms Technology Branch  
(202) 927-7910

This change only involves the telephones in the Division's offices in Washington, D.C. Telephone numbers have not changed for the Firearms and Explosives Licensing Center in Atlanta, Ga.

Another interesting note: The infamous 48 Hours episode that showed how "easy" it is to convert a semi auto AK to full auto is still inspiring some of us to chase down and try to bring to justice the fearsome criminals who made these illegal conversions, i.e. the reporters. The story here is that the BATF has never prosecuted these anti-gun bozos that made the illegal machine guns, apparently for some higher purpose that they fulfilled. Like showing the public how good an idea controlling "assault rifles" is. The following letter is a response from our government when they were confronted with not punishing the law-breakers here.

U. S. Department of Justice  
Executive Office for U. S. Attorneys

*This is in response to your letter dated January 31, 1990, alleging misconduct by the United States Attorney's office for the Southern District of New York in deciding not to criminally prosecute several employees of the CBS program 48 Hours for alleged firearms violations.*

*The United States Attorney's office discussed the 48 Hours segment with the New York Division of the Bureau of Alcohol, Tobacco and Firearms (ATF). After carefully considering the prosecutive options, a joint decision was reached that criminal prosecution was inappropriate given the facts of the case. The ATF Special-Agent-in-Charge of the New York region sent a strong letter of concern to CBS concerning this incident.*

*Based on the facts, it appears that as a legal matter, criminal intent beyond a reasonable doubt would be difficult to establish. Additionally, the invocation of the qualified "reporter's privilege" and other First Amendment concerns would severely interfere with the grand jury investigation and any subsequent prosecution.*

Sincerely,  
Manuel A Rodriguez  
Legal Counsel

This reply was received by AFI and some Pro-Second Amendment Rights attorneys who wanted to know why someone could manufacture an unregistered machine gun and not be punished, while the rest of the population was prosecuted at every opportunity.

I read the constitution again, and just can't seem to find "Reporter's Privilege" in there. I did see where it says that the right of the people to keep and bear arms shall not be infringed. Maybe it's just the right of reporters. Maybe MGN should issue press cards to all of our subscribers, and they can all start doing research on machine guns without fear of prosecution. As long as there's no "criminal intent", we should be all set. Unless the "Reporter's Privilege" is only for liberal, anti-gun reporters.

Q After a long arduous process I have finally received my California license to sell and possess machine guns and other "dangerous weapons".

I have a copy of the Machine Gun Dealers Bible on order but as you know it has been delayed. Perhaps the answers are in there but.....

I have a few AR15 Auto-sears II sears with certificates stating they were manufactured prior to November 1981 and are not subject to BATF "ruling 81-4" by Shooters Equipment Co. These sears are unserialized. What can be done with these sears in terms of making something useful (transferable or Pre May '86) from them.

Is there an English "how-to" publication for new Class II and Class III dealers that really explains what is really involved and required in manufacturing and selling NFA firearms?

Is there a way to lease transferable NFA firearms from individuals without the individual being required to give up ownership, i.e., can I lease a weapon from an individual for some reasonable time (6 months or a year plus) then return it without the individual having to pay the transfer tax again?

Thanks for your help.  
Sincerely,  
James W.

A The Machine Gun Dealers Bible is being delivered right now, and it does cover all of your questions. I'll answer here for the benefit of those who have not gotten their copy yet. The Forms has gone over the "Pre-81" AR-15 sears several times. You may own these, but not if you have a semi auto AR-15, so what's the point? They could be registered as Post-86 non-transferable machine gun sears, and would be restricted to dealers and law enforcement only.

You cannot legally take an NFA firearm from the legal owner without it being transferred to you. Period. Only a bona fide employee of a special occupational tax payer may sign an NFA weapon out and have possession of it, for sales purposes. A common carrier may also transport an NFA



weapon, and people may contract to transport NFA weapons for the owner if they have a letter from the registree and copies of the forms. Don't push this one, it's for transportation purposes only. It's not really clear in the regulations, but the fact that you cannot take an NFA weapon on consignment is.

**Q** If I have an HK receiver gun which has the receiver block intact, can I modify the receiver to accept a full push pin trigger pack? What are the regs on modifications? I have seen caliber changes done, G3's turned into belt feds. Can my M11 be drastically reworked into an M60? Next question is on the Form 3 information. The information on several of my Form 3's appears to be inconsistent. Here's an example: I have an MP5 which has the manufacturer listed as Heckler and Koch, but the gun is marked MP5. Should I worry about this and try to get the Form 3 corrected? In the past I have just simply copied the information from the existing Form 3 whether I believed it or not. Which brings me to my next question. How do I know what the correct information about a gun is? Will the ATF provide information about original manufacturer, date of manufacture, model number, etc? What about marking requirements. Is the name of the manufacturer supposed to be engraved someplace on the gun? If it is not is this a problem? One last question. Why are short barreled rifles a Title 2 weapon? I can understand short barreled shotguns since shotgun pistols fall under Title 2. A short barreled rifle would not seem to need any more control on it than a pistol. Thanks for the help your column is a great help to all of us out there.

Jeff

**A** Jeff, are you from Jersey? You sure got a lot of questions for someone from Arizona. I'll try to cover them all.

1. No. Drilling the front pushpin hole for the trigger constitutes manufacturing a machine gun even though you already have a registered machine gun sear. If the swing down hole is in place, any unregistered original HK trigger pack would fit in, and since those are not restricted, the receiver would be considered a machine gun.

2. Any change that is drastic in nature should be checked out with NFA technology branch. A Sten MkII to a Sten MkV or an HK G-3 to a 21 is not a big deal. M-11 to M-60 is probably going to be a problem. I know, I know, they both start with "M", but BATF has more criteria than that. I suppose if you showed them machinist's drawings detailing how you were going to

weld extra plates on the M-11 they might let you, but I doubt it.

3. Don't sweat the small stuff. Just file a form correcting the model number. A copy of the form that it is registered on is needed, fill in the corrected info and make a note in section "h" what the change is and include a note as to why there is a change.

4. You can call NFA Branch to ask them the correct information, but I believe that they'd rather have the request in writing.

5. The name of the original manufacturer is supposed to be on each firearm along with his town and state. All other re-manufacturers need to include the same information on the firearm also. You could conceivably end up with multiple names and towns all over the receiver. Yes it is a problem when the re-manufacturer does not mark his name on it, BATF can confiscate the firearm and make a fuss about it. This is usually done in situations where the BATF agent who is investigating is searching for a problem.


6. Why is the sky blue, how can anyone take Teddy Kennedy or Barney Frank serious enough to elect them to public office, what in the world is a police department going to do with an M-11 SMG as a duty weapon - these are some cosmic

questions. So is "Why is a short-barreled rifle an NFA weapon". Could it be that the "Public Servants" who wrote these laws considered that a buttstock makes a pistol more accurate? Personally I like to hit what I aim at, and whatever helps that is welcome. These laws were supposedly aimed at "Gangster Guns". I'd be more worried about a man who had a 24" barrel in a scoped bolt action, than someone with a High Standard with a buttstock. Recognizing this, many of the pistols with buttstocks have been removed from the NFA Registry. The Curios and Relics list will tell you which ones. "Sawed-off" rifles had a lot more power than the handguns of the day (1934), and were given the same reverence that Magnum handguns were given not too many years ago, and "Assault Rifles" are being given today. Notwithstanding how few crimes are committed with them, it gives some of our more feeble-minded elected officials something to blither and blather about. That way they don't have to address the real problems surrounding them. Sigh. Off the soapbox for another month- send questions to:


Dan Shea,  
C/O MGN,  
PO Box 759  
Hot Springs, AR 71902

## POSTERS

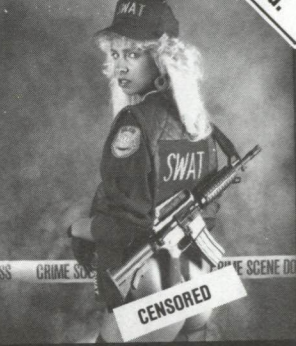
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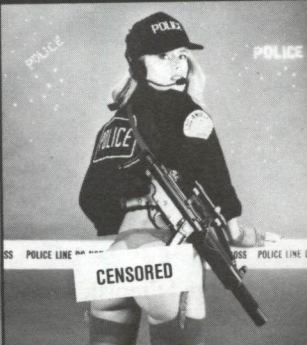
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# Archive Photo of the Month

*From the Robert Bruce Collection*



**Finland, 1939.** Snow-camouflaged Finnish Army AA gunners scan the overcast sky for Russian fighter planes, ready to unleash a storm of steel from their Model 32 Maxim guns. The American designed Maxim is the granddaddy of them all soon finding its way into every corner of the world.

Credit: US Army Mil. Hist. Inst. Negative ID: FINMAX. Copyright © 1991 Robert Bruce Photography.

*Editor's Note: Prints of this and many other historical auto weapon action photos are available by special arrangement with Robert Bruce Photography, P.O. Box 482M, Sandston, VA 23150. Send \$1 for details. (Robert is also seeking foreign-language manuals, sales brochures, etc. for auto weapons from 1900 to the present)*



# Classified Advertising

**Covert Weapons** plans and shop drawings including specifications, actions and exploded parts diagrams. Pengun, Canegun, Cigarette Lighter Gun, Belt Buckle Gun, Bolt Gun and much more. Free Catalog with self addressed stamped envelope. Sardaukar Press, Box 38531-R, Germantown, TN 38138 (xapril).

**Wanted GE-Mini Gun/parts.** Trade \$100,000 cased engraved bicentennial freedom Colt by Dwain Wright, published in Wilsons Colt engraving. The most desirable Colt in existence, help a shooter have fun! Dwain Wright - Engraver/Gunmaker, Morgan Springs Estate, Box 284, Applegate, OR 97530. (xdec)

**Rare Find** - We found a very limited quantity of quality G3 308 cal. barrels. These are new in the wrapper barrels will fit H & K 91, SAR 8, SAR 3, and other G3 type rifles. Who knows when a ban on parts will happen. Get them while they last only 150. ea. 4.00 for shipping. R Guns 140 N. Western Ave. RT 31 Carpentersville, IL 60110. 708-428-3569. Visa, Mastercard. COD O.K. (xfab)

**Transferable Machine guns,** new and collectable, too many to list please call for info/listing. Gus (203) 929-6799 or Brian (203) 268-7932 (xmay)

**Wanted PPSH41** parts set WWII or Korean War era. Must be complete with mag in VG cond. For sale: Reising 50 80% receiver and parts kit in VG cond. No mag. \$300.00 Dan, Box 471023, Tulsa, OK 74147-1023.

**Mint HK-53 Vollmer Sear Conv.** both stocks, may take semi HK 94 - 93 - 91 on partial trade. Must sell \$2,595.00 Jim 1-813-353-5274 or P.O. Box 10693, Naples FL 33941 (xdec)

**For Sale:** Pre May D.S. 34 \$1800.00, Transferable MP-40, \$1200.00, SWD 12 ga, 12" barrel, \$300.00. Will consider trades. Want Jap type 92 HMG. All NFA rules apply. Doc, 1-409-778-5326, eve.

**Colt M16A2 COMMANDO.** Documented Original direct form the factory. Fully Transferable. Acquired from Colt as a "Dealer Sample" in 1985. Mint condition. Less than 500 rounds ever fired. It shot flawlessly with absolutely no misfires or jams. \$4,500 obo (602) 253-6660. (xjan)

**Two Yugoslavian MG-42 Bolt Assemblies,** complete, new: \$150 each; 1548 Rounds 7.92 Kurz Ammo (dated 8-9-61), \$0.25 round; three original full boxes of Peters Thompson SMG Shot/Riot CARTRIDGES, excellent, \$50 box. Prefer each type of ammo sold as entire lot. Gary 612-533-4544, 6-9 pm(cst).

**"Machine Guns of Germany"** 128 minute VHS video documentary covers MG08, MG08/15, MG34, MP40, MG42, FG42, and MP44 in great detail: markings, field strip, accessories, 23 multi-camera firing demonstrations including fantastic downrange camera views of night tracer fire. \$40 postpaid, Collector Video Service, P.O. Box 714, Fort Collins, CO 80522.

**Law M72 & M190 Subcaliber Launcher.** These surplus training devices are new unfired, kit comes complete with hardware and instructions for assembly. \$400. + 7.50 S & H. Assembled Unit add \$25. New Complete Law Tube only \$150. + S&H. Limited supply, quantity discounts. Also, M73 sub-caliber training rockets available, POR. Call Sal after 8 pm EDT. 603-635-7303. Mail orders accepted, bank check only. Mil-Arms Sales 65 Dutton Rd. Pelham, NH 03076. (x)

**M-16/AR-15 Bolt Carriers.** Best prices. Compensators for M-1 Garand, Galil, AK47. Real nice M-14 receivers, semi, bar stock, free list. Western Ordnance/Smith Ent., 325 S. Westwood #1, Mesa, Arizona 85210 602-964-1799(x)

**Reising Model 50,55 .45 cal.** magazines, 30 round, all metal, blue, or parkerize, 10 1/2" long. Made in the U.S.A. Guaranteed. Not adapted from anything, made just for the Reising. \$45.00 each. Two and three cell pouches, made of this magazine of black Cordura nylon with velcro fasteners and wide belt loops. \$20.00 and \$25.00. Postage \$5.00 any size order. Money order or cashier check, any questions SASE please KC Enterprises, 7240 South Ridge Rd, Madison, OH 44057 (xJan)

**Everything you wanted to know** about gun control (and preachers were afraid to tell you!) \$2.50 postpaid. Complete catalog of Christian/Patriot/Survival books \$1.00. Bohica Concepts, P.O. Box 546-MG, Randle, WA 98377 (xdec)

**Louisiana Class II dealer** will handle and process transfers for qualified residents. Some transferable guns in stock along with a Pre-may dealer sample Sterling L3 & A1. Call 318-786-3302. (x)

**MG-34 Pre-may sample.** Non-matching Armex gun, good shooter. \$1200 or trade for assault rifles. Will handle Conn. transfers. All NFA rules apply. John 203-379-7252

**Transferable: HK33SSG,** pushpin, with Hensoldt 33ZF, set trigger, sniper stock, factory .22 unit, extra A3 stock, 2 factory 40 round magazines plus many extras in as-new condition, \$4650. MAT49 with sling and three magazines, excellent, \$1950. Colt Model 614, as-new, \$2000. AC556F, as-new, \$995. 08/15's (have two), \$550, \$700. Dewats: Jap 99, excellent plus, 4750. Chauchat, excellent plus \$450. Call Bob, evenings, (203) 661-1425. All NFA rules apply.

**For Sale:** Brand new Colt Sporter lightweight lower receiver and stock assy. complete. Bought new Colt gun for upper assy to make shorty. Don't need lower assy. \$200.00 Call Preston nights 502-737-2882 days 1-800-999-5707 toll free.

**FN-FNC NATO/STANAG** scope mount. Original Hesholdt manufactured item fits all FNC .223 rifles. \$167.00 w/shipping. Call Mark at 1-716-648-3109 N.Y.

**Machine Gun Belt Linkers - 1919 - M60 - RPD, 223 and others.** \$125.00 small unit (links 15 rounds) \$190.00 large unit (links 30 rounds) \$150.00 small, solid aluminum \$225.00 large, solid aluminum \$165.00 small, solid bronze \$250.00 large, solid bronze. 1919 sideplates, right or left - 80% complete, \$400.00 each. Instructions included. Freight please on all. Hahn Machine Co. 3101 Sussex, St. Charles, MO 63301. (314) 946-9567. (x)

**Drop-In Auto Sears** for Colt AR-15 .223 and 9mm. Fully transferable (Pre-86) to dealers and individuals. Test fired. No fitting or modifications required to your rifle. All steel construction. Use with standard M-16 parts for safe, semi, and auto fire mode. Drop-in Sear is serial numbered and registered. \$750 plus shipping. Write or call for catalog. All NFA rules apply. John Norrel, 2608 Gristmill, Little Rock, AR 72207, 501-225-7864 (x)

**1915 Chaucat (Non-Gun/Dummy Tube)** Complete & Excellent, Great Museum Display gun \$600.00 1914A4 Training Aid cut-a-way model (larger than life) \$600.00. 1918 Browning tripod, restored \$375.00. Please include sufficient postage. Mark Gaynor 116 Park St. Navarre, Ohio 44662. (216) 879-2362. (x)

**TRADE: M-37** Browning registered sideplate for 1917 or A1 registered sideplate, or need M-37 parts kit. Let me know what's out there. W. Mays 2317 Ryan Ave, Ft. Worth TX 76110, (817) 924-3648 eves.

**Colt CAR16** Many Extras \$2600.00, Ruger MKII SS Ciener suppressed extras \$500.00, Laws tube with subcaliber insert \$400.00, H & K MP5A3 post extras \$600.00, Uzi post extras \$450.00, Winchester M97 12 ga 13 1/2" TD \$500.00, All offers considered, Maine resident transfers \$50.00

**Wanted: GE Mini Gun** Transferable, top dollar paid 404-233-0769 leave message

**Wanted 1918 BAR** transferable excellent to mint. (305) 989-5510 leave a message all calls returned.

**Suppressors: Sten Gun** \$275. 870 Remington 12 Gauge \$300. Mossberg 20 Gauge \$500. 9mm-45ACP \$150. 380 SWD \$125. M-60 Suppressor \$850. 223 Suppressor \$250. 9mm-45ACP \$200. New 223 Suppressors \$275. New 9mm-45ACP Suppressors \$250. If you miss out on these suppressors you will be kicking the wife, kids, and dogs for 6 months. Call after 8 pm central 316-593-4620.

**West River Arsenal** is the only Class III dealer in 40,000 square miles handling transfers and supplying law enforcement and qualified private buyers. West River Arsenal. P.O. Box 9246, Rapid City, SD 57702 (xjun)

**Transferable machine guns:** H & K MP5-A2 9mm (Fleming) \$2200, H&K MP5-A2 9mm 3 lug barrel w/accessories (S&H conversion) \$2800, M-14 .308 cal. (Springfield Armory M1A1 receiver) \$2500, Ingram MAC-10 9mm (marked both MAC & RPB) \$650, with a C. Ray Systems silencer \$750, H&R M-50 Reising .45 cal. \$525, call Jerry at Y.O. (512) 681-4675 after 6 pm, San Antonio, Texas will consider trades.



# Classified Advertising

**MK760 Select Fire SMG 9mm 36** round, fully, transferable, new in box. \$750.00 warranty and suppressors also available. LaFrance Specialties, P.O. Box 178211, San Diego, CA 92117 619-293-3373 (xdec)

**Colorado, Law Enforcement and Residents,** Dealer will handle your Class III needs and process transfers for qualified residents. John. Days: 303-230-7614 Eves: 303-674-1760. (xJan)

**BM59, std model, RIA,** transferable, used ex. cond, \$1500. Pre 86 Dealer guns, one Belgian FN FAL receiver built on new SAR48 parts kit, beauty \$1250, one Madsen 9mm sub MG, average cond. \$500 Post 86 dealer XMI5 A1, one of a kind \$500. Rock Island Armory 309-944-6950. (xaug) (xoct)

**IBM compatible computers** to trade towards Pre '86 sample and transferable machine guns. All trades considered. Also, reasonable transfers to Maine residents. Call Michael at First Class Guns (207) 872-7824 (xaug92)

**Stan's Gunsmithing** - Class 2 manufacturer - all types of machine gun and class 3 repair and fine gunsmithing. Over 28 years experience on high quality firearms, 12 years of machine guns. Hot blueing, all types of finishes, parts made - complete machine shop. Call and I'll see if I can help with your problems. Transfer to N.H. Residents. Stan Andrews (603) 746-4387. (xapril)

**Original Pre-Auction Military Armament Corporation M-10's .45 ACP,** Consecutive Serial # set (1-3007739, 1-3007740) 100% NIB \$895 each or \$1750 for set. Call 409-962-2722. (xdec)

**TEK Conversion:** Ruger 10/22 select-fire replacement part set. Nine piece set includes; select-fire trigger group, secondary sear, secondary sear spring, bolt arrestor, select-fire hammer and arrestor spring. Parts may require light fitting. \$99.99 plus \$3.00 shipping. G.U.N. Technologys, 430 W. Hess, Coolidge, AZ 85228. NFA rules apply.

**Thompsons:** truly nice units in inventory. Too many to list in this ad. Call for info or send business size sase for current list and prices. Frank/F.D.S. (214) 539-8096 P.O. Box 292156, Lewisville, Texas 75029-2156. NFA/BATF RULES APPLY. (xSept92)

**HK Full Auto Lower Receivers** - SEF - Seal - 3 Shot Burst - These are machined and finished to fit all models of MP5 - MP5K - G3 - 33 and variants with the block in the registered receiver. Replacement Parts! No Restrictions (All NFA Rules apply) Many other HK parts and Services available. Contact Trip at Tactical Rescue Equipment, Ltd. (904) 246-4119, 1015 Atlantic Blvd #302, Atlantic Beach, FL 32233 WANTED - All HK Full Auto and Semi Auto Parts !! (xfeb)

**TARGET SPOTTER AMMUNITION** (Flash - Bang - Smoke) Available in 22 cal. LR. Send SASE for ordering information. Outland Sales, P.O. Box 965332 Marietta, GA 30066. (xDec)

**Attention: Machine Gun News** has an excellent dealer program in which you can sell our magazine in your store or at gun shows. Not only do you get point-of-sale profits, but it can create repeat foot traffic, and give you an opportunity for more related product sales. For more information write to: MGN Bulk Sales, P.O. Box 761, Hot Springs, AR 71902. Or call 501-623-4951.

**Sten Receiver blanks.** 4130 Dom Steel tubing manufactured to specific Sten dimensional requirements. Correct wall thickness (not thin wall tubing as usually sold by others). Reusable MKII template included. Our dimensionally correct template is more precise than loose original British specifications. \$19 postpaid. COD's accepted. No restrictions to purchase. (only for use in legally manufactured full auto's) John Norrell, 2608 Gristmill, Little Rock, AR 72207, 501-225-7864 (xdec)

**SGW M-16 upper conversion kit** 9mm cal., M016 Carrier, birdcage FH, 2 -32 rd. mags, mag loader, extra extractor, 11.5" barrel for mg or short rifle use excellent cond. \$310. Tom (518) 296-8471 after 6 pm EST.

**FULL-AUTO 12 GAUGE?** Collector and admirer of USAS-12 seeking a functional and transferable full-auto shotgun of any make, origin or caliber. Will pay top dollar and/or consider a trade. Call (413) 782-7000 and ask for Jeff. (xJan)

**Now you can own the beautiful color poster.** "Tracer Fire" Send \$9.95 plus \$2.50 p & h to Machine Gun News Poster, P.O. Box 761, Hot Springs, AR 71902. Or call 501-623-4951.

## CLASSIFIED AD RATES

Classified advertising rates are \$5. for the first 40 words plus 25 cents for each additional word. Minimum charge is \$5. Subscribers are entitled to one free ad (up to 40 words) per year with a paid subscription. Anything separated by a space is counted as one word. Please type or print clearly. Closing date is the 7th of the month. If you are placing a subscriber free ad we will need your name and address as it appears on your subscription.

### Mail to:

**MGN, Classifieds, PO Box 761, Hot Springs, AR 71902**

Closing Date - 7th of the month

**FAX 501 623-9832**

Please type or print clearly

**1919A4 by Group Ind.** includes uncut tripod, T & E, pintle \$2,300. Uzi Registered receiver by Fleming as new \$2,500. Texas MAC-10 9mm/45ACP in 9mm NIB \$700. 512-436-1838. (xJan)

**Visit American Armoured Foundation, Inc.** Tank and Ordnance War Memorial Museum, Mattituck, NY. At AAF we buy, sell, trade tanks, cannons, and M-G's of all types. Open every Sunday from 10:30 - 4:00. Donations are Tax Deductible. Call 516-588-0033 (xmar92)

**Colt 20 rd mags 5 for \$35.** ppd. Carbine dust covers \$12.00 per 100 ppd. Wanted .223 drum mags. Walt P.O. Box 392, Watervliet, NY 12149. (xdec) All NIB: MP5A3 \$2800, MP5A3SD \$3450, MP5K \$2000, HK33 \$2650, HK53 \$3050 - All HK's by S & H; M10 (PS) \$1000 & MK760 \$750. EX. RR Colt AR15A1 \$1600. Call John (713) 474-3308. (xfeb92)

**"Need an M2HB 50 cal or Aircraft of Thompson replica for your vehicle or plane?"** Higher quality and lower priced than the competition. Also have Jeep pedestal mounts @ \$235 incl. shipping. John's Replicas, 817 E. Birch Ave, Whitfish Bay, WI 53217 (414) 964-6978 (x)

**.45 AUTO CUSTOM TOUCHES:** The best damn book for the do-it yourselfer on the market. Fifteen chapters over 100 drawings. Gunsmith/Author J.B. Wood rates it "a good one". Bob Brownell of Brownells Gunsmithing supplies says, ".45 Custom Touches is a great book, everyone should have a copy". To get yours by return mail send \$12.95 to G.U.N. Technology 430 W. Hess Coolidge, AZ 85228. (x)

**Stoner 63A parts, accessories,** literature, information, memorabilia needed. Jerry 217/826-2919 (xmy92)

**Thermite Powder 30 lb bags** \$4.00/lb; subignitor \$1.00 each, 50/tube. M79 Hammers, precision machined 4140 steel, harden \$85. WWI tent stove with 1917 BMG and doughboy soldier on casting \$1,000.00. Frank Zega, Box 61 Wardsboro, VT 05355.

**When responding to ads ...** Tell them you saw it in Machine Gun News!

**M10-45-PS-NIB \$695 each,** 2 @ \$675 each, 3 @ \$650 each. Group Uzi \$1600. FNC S & H exc. \$1600. TNC Fleming exc. \$1300. American 180, 3 drums \$1600. SAR 48 NIB \$2400. Post May MP5SD6 LN. \$1700. MP5A5 LN. \$1100. NFA-ATF laws apply. 703-343-1452 or 703-387-1754 leave message (xJan)

**Attention Maryland Residents:** I will handle your class 3 needs and process transfers for qualified persons. Call Jim Klein at (301) 596-5513, 381-9565 (xapril)

**JR Customs Co.** - We are buying parts for M79 and M203 grenade launchers. - please send list. For sale - M79 barrels, new \$150. Limited supply of M72 LAW rocket tubes with subcal inserts and low light sights, \$300. M73 subcal rockets for LAW, \$50. Grease gun magazines \$15. Call or write for catalog or to place an order. See our ad in this issue. (xfeb)

**Arkansas has a gun range** with machine gun rentals. Located near Hot Springs National Park. Come and visit. The Farm, Inc. Gun Range. (501) 525-0462. NFA transfers to individuals (feb)



## Original Chinese AK-47 Select Fire Parts



Manufactured by Norinco - These parts are made to exact specifications and are of the highest quality!  
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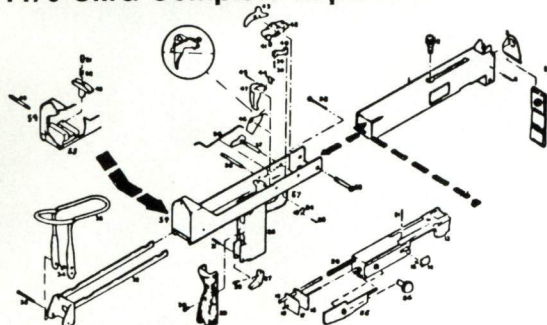


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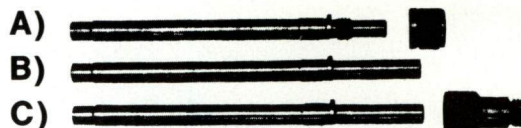
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