

\$5 U.S. \$6 Can.

THE GUIDE TO MODERN SMALL ARMS

Vol. 9 No. 12

MACHINE GUN NEWS

JUNE 1996



H&K I.D. GUIDE:
Are Your Parts
Authentic?

The
Shooters Uzi

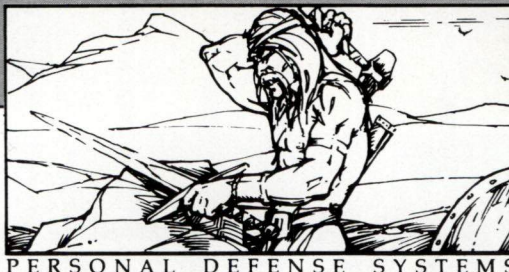
1996 Shot Show:
Hot New
Products

Precision
Shooting:
A Look at the
History of Sniping

R.A.S.E.
Innovative Suppressor Mfg.



LONG MOUNTAIN OUTFITTERS



SELLERS:
**GUNS, PARTS &
ACCESSORIES FOR SALE**
CALL L.M.O.

BUYERS:
**LOOKING FOR GUNS,
PARTS & ACCESSORIES**
CALL L.M.O.

Brokered Weapons

LMO290 - AK47 in 7.62 w/folding stock
MG892 - Colt M16A1, as new
MG893 - Colt M16 carbine 14.5"
MG348 - Transferable MP40 w/Erb tube
MG894 - Hard Times AK-47 in 7.62 x 39
MG561 - Steyr MPI-69, pre-86 DS
MG510 - Uzi in .45 cal. new in box
MG527 - Fleming AR180 in .223, new gun
MG805 - Springfield SAR 48, as new
LMO022 - Micro Uzi, bolt gun, like new
LMO283 - MP5A3, SEF lower, sear gun col. stk.
MG071 - FN Model D, pre-sample
MG072 - 1941 Johnson, pre-sample
MG074 - Madsen 1950 reg. rec.
MG081 - Celco PPS - 43 reweld
MG077 - British MK 1 Lanchester
MG084 - S&H Arms Ingram Model 6
MG560 - AUG, pre-86 DS, w/special rec. & hvy bbl.
MG065 - N. Korean PPS41 w/orgn. drum

MG963 - Ithaca M37, as new, w/13 1/2" bbl.
MG560 - Steyr Aug, DS
MG093 - Suppressed MAC 10, very good w/box
MG255 - Beretta AR 70 select fire, good shape
MG548 - Fleming G3 new reg. receiver
MG967 - MP5A3SD, pre-86 DS, excellent
MG617 - IMI Uzi pre-86 DS
MG659 - RPB MAC 10 in .45 cal. org. PS frame
MG729 - SBR Daewoo K 1 w/10 1/2" bbl. as new
MG965 - M11A1 in .308 cal., S.W.D., new in box
MG039 - Sidarme 1915 Chauchat
MG040 - Madsen M50 by S&H Arms
MG041 - VZ 58 folder, have pair
MG044 - Zastavia 56, original

MG805 - SAR 48, as new, w/mag & bipod
MG065 - N. Korean PPS41 w/orginal drum
MG097 - 1918 Marlin Rockwell, mint
MG825 - R.P.B. M1 Carbine
MG824 - AR 18 Armalite, original
MG846 - Fleming G3, HK91 conversion
MG848 - Fleming FNC w/col. stk.
MG855 - Suppressed Marlin Bolt rifle 22 mag.
MG066 - Universal U.S. carbine
MG067 - M78 Valmet, like new
MG823 - 1928 Colt drum & mag., neat
MG860 - H&R Arms M6-14 w/1 mag
MG858 - Fabrique FN G1, good shape
MG850 - Fleming MP5A3 in 90% cond
MG845 - Fleming G3, new. Call for info.
MG833 - Walther MPL, DS
MG855 - Suppressed Marlin Bolt rifle 22 mag.
MG853 - Colt M16 carbine 14.5" bbl.
MG911 - Ruger AC 566 full stk. w/short bbl.

All seller info remains confidential. BUYERS call with your needs; we'll cross with our list from dealers. All weapons preinspected before final transfer from L.M.O.

Dealers get FFL on file and call for prices.



STETCHKIN MACHINE PISTOLS!

The United States has stopped the importation of Russian material. Through a fluke circumstance, a small quantity of these ultra-rare machine pistols were allowed to come in. Because we had purchased and imported them initially in 1993, we only have a small quantity (less than 50). No more can come in! It seems that these are the only ones in the United States. These are in new condition (some storage wear) with all matching parts.

They are available to law enforcement agencies and Class 3 dealers with a demonstration request letter as follows:

I. Stetchkin Machine pistol (9x18 Makarov) with matching buttstock, 4 extra magazines, and leather sling \$800.

As a parts set these are unrestricted and can be sold to individuals:

I. Stetchkin Machine Pistol parts set, complete with buttstock and sling, and receiver torch cut per NFA guidelines (magazines are only available to law enforcement agencies and dealers who are using them for resale to law enforcement.) \$895.



P.O. Box 45, Harmony, ME 04942
(207) 683-2169 ■ Fax (207) 683-2172

Class 10

LMO4MGS@AOL.com

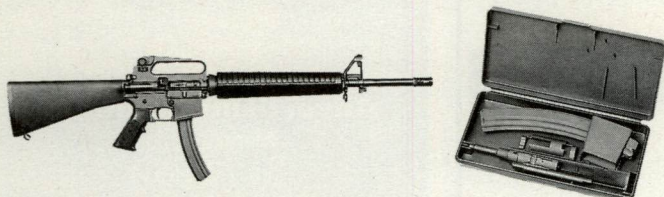


Jonathan Arthur Ciener, Inc.

Ammunition prices continue to rise. The government continues to try to restrict supply.

.22LR CONVERSION KITS

Save your valuable ammunition AND still enjoy your shooting sport AND do more for less money.



The "ATCHISSON" MKIII .22 LR Conversion Kit for

AR-15

\$139.00 w/10-rd. mag.

\$179.00 w/30-rd. mag.

Spare 10-rd. mag. \$23.00

M16

\$159.00 w/10-rd. mag.

\$199.00 w/30-rd. mag.

Spare 30-rd. mag. \$59.00

The "HOHREIN" .22 LR Conversion Kit for

Mini-14/AC556

\$119.00 w/10-rd. mag.

\$159.00 w/30-rd. mag.

Spare 10-rd. mag. \$23.00

Spare 30-rd. mag. \$59.00

Standard kit fits serial number prefix 181 thru 187.

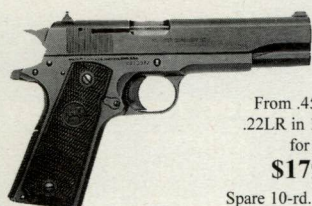
Prefix number 188 kit, add \$10.00. AC556 uses standard 30-rd. mag. kit.



The "CIENER"

1911A1 .22LR CONVERSION KIT Patented

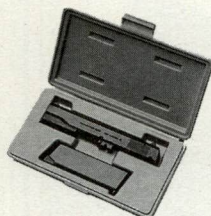
Models for full size, Combat Commander, and Officer's .45 ACP pistols (specify)



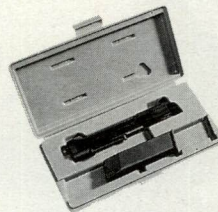
From .45 ACP to
.22LR in 10 seconds
for just

\$179.00

Spare 10-rd. mag. \$35.00



Kit in Fitted Case



From 9mm to .22LR
in 10 seconds for just

\$199.00

Spare 10-rd. mag. \$35.00



Kit on Beretta 92FS

Kit on Series 80 Colt

Rifle kits consist of all the parts necessary to change your firearm to function with inexpensive .22LR in moments.

The pistol kits consist of a new slide, .22LR barrel, return spring and guide rod, recoil buffer and magazine in a fitted plastic case.

The pistol kits and magazines are offered in Gloss Black, Matte Black, and Silver finish at no additional charge.

They function **FLAWLESSLY** (guaranteed) using quality High Velocity ammunition. The pistol kits can even use Hyper and Standard Velocity.

Order direct: No FFL required. Send Cash, Certified Check, Money Order or C.O.D. Personal check orders held two weeks to clear.

Include \$5.00 shipping per kit. Due to limited quantities, handgun kit orders are prepaid only.

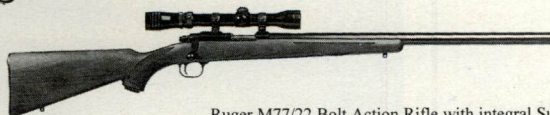
Jonathan Arthur Ciener, Inc.

Manufacturer of the Finest in Suppressed Firearms

"The Standard For Comparison"



Ruger MKII Government Model Pistol
with "HIGH VOLUME" Suppressor
Parkerized or Stainless ONLY \$599.00



Ruger M77/22 Bolt Action Rifle with integral Suppressor
Blue ONLY \$725.00, Stainless Steel ONLY \$715.00

Shipping - \$5.00 per Pistol/Supp., \$10.00 per rifle. NFA Dealer's fee is included.
Does not include Federal Transfer Tax.

NFA Licensees send a copy of FFL with EIN number and Class for our illustrated
informative catalog and confidential dealer price list.

Others send \$5.00 for catalog or \$14.00 for catalog and distinctive logo T-shirt or
Baseball cap (specify).

CURRENT RETAIL PRICES EFFECTIVE JANUARY 1996

RUGER MARK II Pistol with Suppressor	\$499.00
RUGER MARK II Stainless Steel Pistol with Suppressor	\$575.00
RUGER MARK II Pistol with 8" "High Volume" Supp. (Park. or S/S)	\$599.00
RUGER MARK II 10" Barrel Stainless Steel Pistol with Suppressor	\$599.00
WALTHER TPH Stainless Steel Pistol with Suppressor	\$799.00
Suppressor fitted to your firearm	\$399.00
WALTHER PPK, PPK/S Pistol with Suppressor (Blue or S/S)	\$889.00
RUGER 10/22 Deluxe Sporter Rifle with Suppressor	\$575.00
BROWNING BA22 .22LR Auto Rifle with Suppressor	\$679.00
RUGER M77/22 .22LR Bolt Action Rifle with Suppressor	\$725.00
RUGER K77/22 .22LR Stainless Steel Rifle with Suppressor	\$715.00
MARLIN 880 .22LR Bolt Action Rifle with Suppressor	\$549.00
REMINGTON 700 BDL Varmint Rifle w/Suppressor and Barrel cover	\$995.00
Suppressor and Barrel Cover fitted to your Heavy Barrel	\$495.00
RUGER M77V Heavy Barrel Rifle w/Suppressor and Barrel Cover	\$995.00
Suppressor and Barrel Cover fitted to your Heavy Barrel	\$495.00
AR-15/M16 Suppressor (Fits A1 & A2)	\$375.00
M1A/M14 Suppressor	\$375.00
RUGER MINI-14 Suppressor (GB model only)	\$375.00
MAC 10 (.45 or 9mm) MAC 11 (.380), or SWD M11/9 (9mm)	\$375.00
UZI SMG or S&W M76 & MK760 Suppressor	\$399.00
BARREL/SUPPRESSOR ASSEMBLY for UZI semi, M3/M3A1	
Grease Gun, or Sten MKII	\$449.00
BARREL/SUPPRESSOR ASSEMBLY for HI-STANDARD .22 Auto	\$399.00
BARREL/SUPPRESSOR ASSEMBLY for THOMPSON "CONTENDER" (.22 only)	\$559.00

WANTED: PARTS FOR MINIGUN and MK19 Mod. 3 GRENADE LAUNCHER

8700 Commerce Street

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Cape Canaveral, FL 32920

(407) 868-2200, Fax 2201

MACHINE GUN NEWS

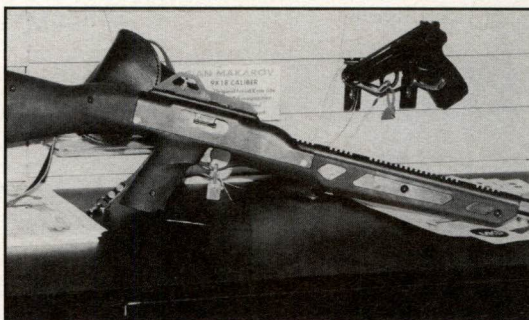
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Volume 9 Number 12

June 1996

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The new Hi-Point 9 mm semi-auto.

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On the Cover: MP5-N ("Navy") with Mickey Finn sound suppressor and Hensoldt Aiming Point Projector. Photos: Courtesy of H&K Inc

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Machine Gun News is published monthly to serve persons involved with the Class 3 industry and to provide a source for new products, news and information involving Title and related firearms.

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M2HB .50 CAL. MFG. F.N. BELGIAN

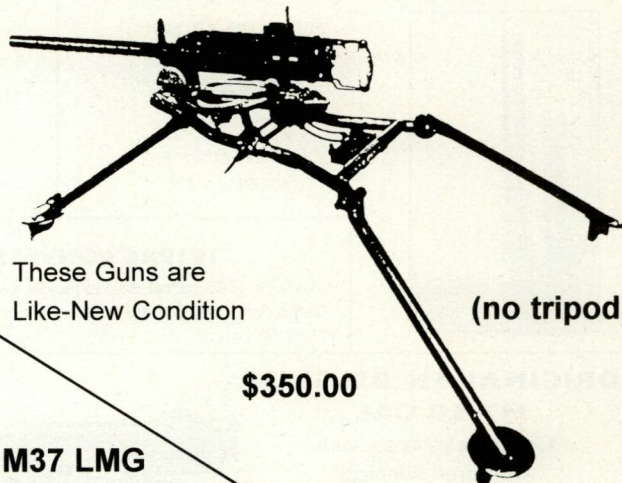


Firearm Only

Superb Quality in Excellent Condition

\$2500.00

FN MOD. 30 LMG IN .308 CAL.

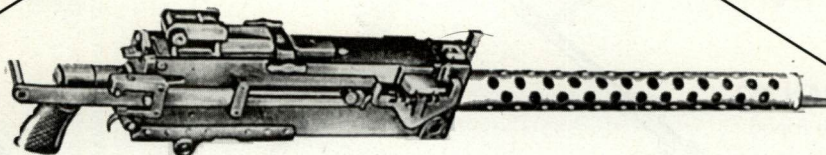


These Guns are
Like-New Condition

(no tripod)

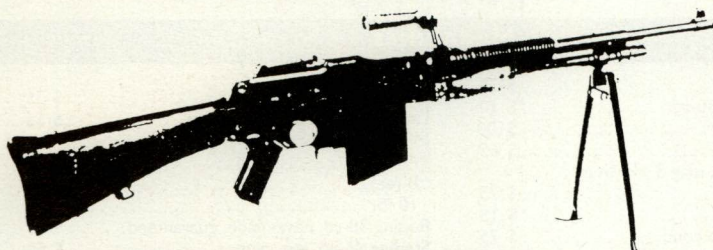
\$350.00

THE BROWNING M37 LMG



\$950.00

FN-MOD D LMG IN .308 CAL.



Made on special contract from Israeli Gov't. New

\$550.00

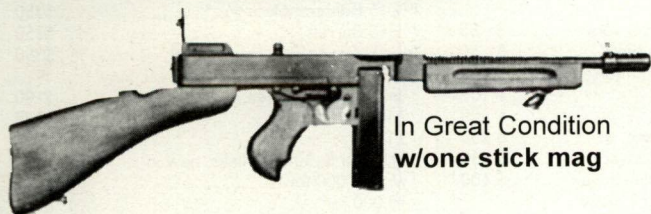
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Must have letter of Purchase or
Demonstration for Government Agency.

All Firearms in Excellent
Functional Condition

ORIGINAL U.S. G.I. WWII 1928A1 THOMPSON SMG



In Great Condition
w/one stick mag

\$450.00

Original G.I. 50-rd. drum
available additional
\$300.00

ORIGINAL U.S. G.I. WWII M1 THOMPSON SMG



In VG+ Condition

\$250.00



\$250.00

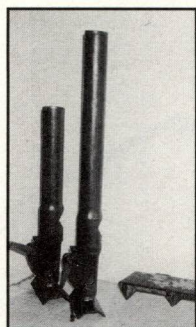
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Satisfaction Guaranteed
Please Include Shipping With Order! • Returns To Be Made Within 10 Days

BRITISH 2 INCH MORTAR



Airborne Version
(short or long)
\$150.00

Comes with orig.
shipping crate



ORIGINAL WWII MORTARS

Rendered unserviceable according to BATF specifications. However, they are still considered Title I firearms.

Must-have standard FFL license.

Original WWII Russian 82 mm Model 37 complete with baseplate and bipod

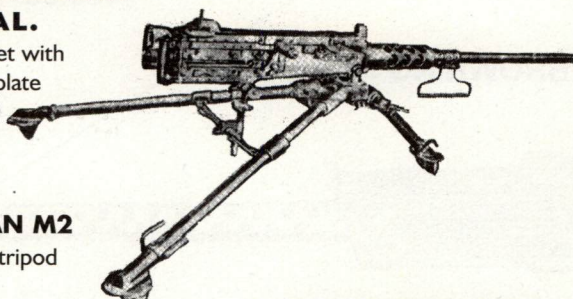
\$450.00 + shipping

1919A6 CONVERSION

Buttstock, .308 barrel, barrel jacket, bipod,
flashhider, carry handle new condition \$350.00
W/.30-06 barrel \$250.00

ORIGINAL FN BELGIAN M2 50 CAL.

Complete parts set with
registered sideplate
\$2500.00



FN BELGIAN M2

Complete with tripod
T&E pintle
\$4500.00

FN BELGIAN M2 50 CAL.

Complete parts set
no cut parts
\$1,550.00

WHY LAY IN THE DIRT?

Original WW II Vickers Tripod
w/ammo box adaptor

\$385.00



Original WW II Vickers Tripod w/ammo box adaptor for U.S. Browning BFMG 17A1, A4, M37. Includes one box.

QUALITY MACHINE GUN COMPLETE PARTS SETS

FN M2 50 cal. HB less right side plate.	\$1550
ANM2 30 cal. in .308 Browning, orig. complete	\$ 950
ANM2 30 cal. part set only	\$ 450
ANM2 Spade Grips front & rear ground sights	\$ 550
ANM2 .308 conversion parts set.	\$ 550
M1A1 Thompson U.S., G.I.	\$ 200
MAT 49	\$ 175
MAS 38	\$ 200
Italian WWII Breda Model 30 6.5	\$ 550
Beretta Model 38/44	\$ 165
MAG 58	\$4500
PPS 43	\$ 150
Madsen Model 46, .30-06	\$ 225
FND BAR .308	\$ 625
1928A1 Thompson U.S., G.I.	\$ 350
1928A1 Thompson w/flnned barrel & Lyman sight U.S., G.I.	\$ 575
1928A1 Bolt compl. U.S., G.I., N.O.S.	\$ 150
1928A1 actuator U.S., G.I., N.O.S.	\$ 85
ZK383 excellent cond. with bipod.	\$ 250
Less bipod	\$ 200
Swedish K, excellent condition	\$ 250
MG15 orig. German WWII	\$1350
FN-30 in .308 comp. less right side plate, good servicable condition	\$ 250
2 or more each	\$ 200

**Fax Ordering Line
(216) 286-8571**

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ERMA EMP 30-rd.	\$ 35	PPSh-41 Mags 30-rd.	\$ 35
M3 U.S. .45 cal.SMG 30-rd.	\$ 10	Lanchester-STEN 50-rd. mags	\$ 55
12 for.	\$100	MP40 mags 32-rd. orig WW II	
ZK383 30-rd.	\$ 65	A (ea).	\$ 55
Madsen .30-06 30-rd. mag 5—each in		B (ea).	\$ 30
original carrying can	\$ 75	10 for.	\$250
FND BAR .30-06	\$ 15	Reising 30-rd. new-made, guaranteed.	\$ 55
L2A1 30-rd., unissued cond	\$ 75	Sterling 45-rd. exc. plus	\$ 55
MP41 32-rd., very good	\$ 55	10 for	\$500
MP38/40 flat side mag	\$ 55	Orig. WWII Thompson 50-rd drum,	
Bren 8mm 20-rd. mag	\$ 65	excellent plus 95%.	\$300
PPS 43 mags 30-rd. (ea)	\$ 35		

ACCESSORIES

Vickers headspace disassembly tool	\$ 85	MG15 Bolt complete	\$350
Vickers brass tab reloadable belts.	\$ 50	MG15 Barrels.	\$350
Vickers MK1 tripod, new condition	\$ 250	MG15 75-rd drum loading tool.	\$350
FND Barrel .30-06	\$ 100	1919A4-A6-M37 IMI Mfg. .308 cal. new	
FND Barrel 8mm	\$ 200	unissued barrels (ea.)	\$100
FND Barrel .308 cal. excellent	\$ 250	2 for	\$170
1908 Maxim sled mount top strap	\$ 250	3 for	\$250
1908 Maxim steam condensing hose.	\$ 100	1919A4 IMI .308 cal. links, new in	
Orig. Bren mag. chest with 12 mags		wrap 2,000 for	\$ 75
new unissued ea.	\$ 35	10,000 for	\$350
M2 30 cal. tripod pintle T & E UK mfg.	\$ 350	1919A4 .30-06 barrels, used.	\$ 25
MG3 MG42 .308 Conversion set barrel,		5 for.	\$100
flashhider, top cover, feed tray,		1919A4 .30-06 barrels, new	\$ 50
Rheinmetall Mfg.	\$ 850	3 for.	\$100
MG3 100-rd. assault box	\$ 100	Orig. Vickers left-side plate	\$200
MG3 complete bolt	\$ 400	P17 Bolts stripped	\$ 15
MG3/42 .308 barrel 4140 Steel H.T.	\$ 250	Browning .308 broken shell ruptured	
MG15 Gunner's Wallet-complete with 2 spare		case extracting tool	\$ 15
firing pins, 2 spare extractors, 2 complete firing		British 303 broken shell extractor for	
pin holders, ruptured case broken shell		machine gun or rifle	\$ 10
extractor and oiler	\$ 450	MG34 feed trays	\$ 65
		MG34 bolt extract tool.	\$ 35

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ORIGINAL U.S. G.I. MFG. M1A1 PART SET



Minus Receiver
\$200.00

CZECH MOD ZK 383



Complete Parts Set 9mm Parabellum quick-change barrel w/bipod & 30-rd. mag. This is one of the finest quality SMGs ever produced.

Less Bipod
\$200.00

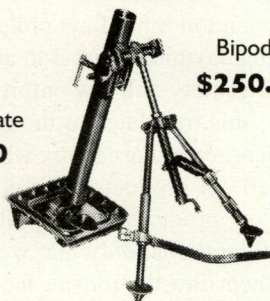
GREAT FOR NON-GUN

\$250.00

ORIG M2, 60MM WW II MORTAR

Complete. w/sight, bipod, base plate
& original. shipping crate

\$1250.00

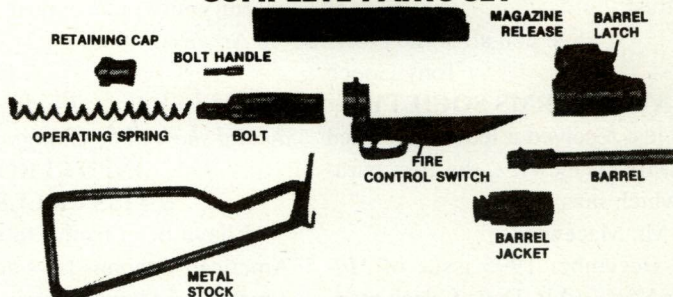


Bipod
\$250.00

Shipping crate
\$65.00

Fully transferable on Form 4
to FFL individual or dealer

ORIGINAL WWII BRITISH STEN MKII & MKV COMPLETE PARTS SET

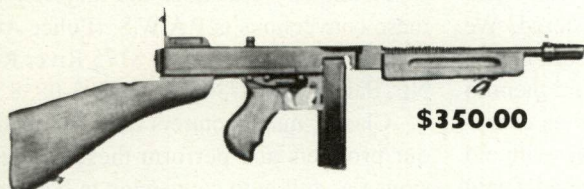


MKII. \$150

MKV \$250

ORIGINAL U.S. G.I. 1928A1 PARTS SET

Complete with lower trigger housing group, buttstock, smooth barrel & cutts compensator, stick mag., no drum



\$350.00

With Lyman sight & finned barrel
\$125.00 additional.

Original. WWII G.I. issue
50-rd. Drum
Exc. plus cond.

Orig. actuators, new-in-wrap. exc.
cond. **\$85.00**

Bolt complete with actuator
..... **\$125.00**

\$300.00

COMPLETE 1919A4 .308 CONVERSION SET

1. New unissued .308 IMI barrel.
2. Enlarged belt holding paw.
3. Front & rear cartridge guides.
4. Right rear cartridge stop.
5. .308 booster cap, muzzle bearing.
6. .308 bolt stripped.

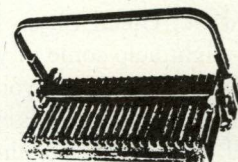
\$350.00

Will modify your 1919A4 Top Cover
to use .308 Links **\$ 65.00**

Complete Top Cover modified to use
.308 Links **\$150.00**

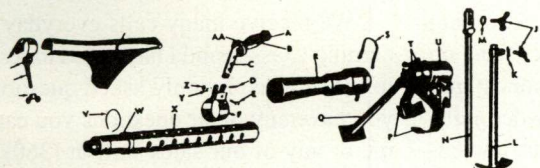
These still function in 8mm & .30-06

BROWNING M3A1 .308 CAL., LINK LOADING MACHINE



Complete with 2000
new-in-wrap IMI .308 Links
\$275.00

COMPLETE 1919A6 CONVERSION KIT



1919A6 FLASHHIDER BOOSTER

\$75.00
Very Rare!!

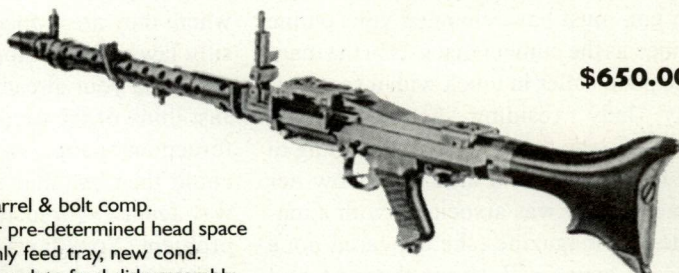
1919A6 conversion buttstock,
.308 barrel, barrel jacket,
bipod, flashhider, carry
handle new condition

\$350.00

With .30-06 Barrel

\$250.00

COMPLETE MG34 .308 CONVERSION KIT

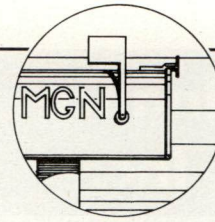


\$650.00

- .308 barrel & bolt comp.
- Set for pre-determined head space
- .308 only feed tray, new cond.
- .308 complete feed slide assembly
- .308 hard chromed reduced orifice booster cone

Installed, Test Fired, and Guaranteed

Incoming



MY BELOVED MGN

Wow, what is happening to my beloved MGN? Great issue, it was worth waiting for. I had started to worry and was going to call, 1 April, to check and see what happened. I like the color photos, especially the cover. I also like the expanded coverage inside. Please don't forget that you are the only forum we in the Class 3 world have and trust.

See you all at the creek.

Tony Gooch

MINIATURE ARMS SOCIETY

I have just received a letter forwarded to me by Mrs. Macewicz, the first paragraph of which says:

"Dear Mr. Macewicz,

In the December 1995 issue of *Machine Gun News*, a Mr. Dave Latsch mentioned the Miniature Arms Society but failed to include an address or contact person. I searched through my back issues of MGN and in the July 1991 issue, I found a two-page, beautifully and extensively illustrated article, entitled: "Tiny Thompsons, and Other Tricks." Your name and address was given as the contact."

Mr. Macewicz has died and the person to now contact is Bill Adrian, 22W071 Stratford Ct., Glenn Ellyn, IL 60137. I think it might help some of your readers if you could put a note in your "letters to the editor" department to this effect. I know I and all the members of the Miniature Arms Society would appreciate it.

Ralph Koebberman

ARKANSAS CHARM

I am writing this letter to you so I may get on your mailing list of subscribers. I received one magazine about two years ago when you offered a free sample. Since then you must have changed your phone number, as the number that was in the magazine put a caller in touch with a sweet elderly lady residing somewhere in Arkansas, who though is very charming to talk to, hadn't had a clue as to how her phone number was associated with a machine gun magazine (she appeared none the less concerned about the call and seemed to be delighted to have somebody to talk to!).

Please accept my payment for a one year subscription to your fine publication. I finally received your phone number after doing a little research and phone calling. And oh, by the way, what about giving that dear old lady living somewhere in Arkansas with your old phone number (501) 623-4951 a call? She's doing a fine job of fielding your calls with all of the charm you would expect from the good old Arkansas upbringing.

David D. Senoff

(Editor's Note: We did contact the lady and she will be changing her number.)

INPUT FROM A SWISS COLLECTOR

I have been trying to understand the American weapons laws and the way that American Federal authorities enforce their regulations. It makes no sense to any of us over here. Why can't you register an unregistered machine gun? It would certainly be to everyone's benefit to have a registered weapon as opposed to an unregistered one. Am I correct? Why can't you pay a fee and then have it registered? We do. If one is found that you would like to keep, you fill out the forms, send them to the authorities with a fee and then everyone is OK. I have found weapons with old collectors that were never registered. I paid my fees, did the paperwork, and they are now safely registered. If I had not done this there was always a possibility that they could have ended up in the wrong hands and could have been used in a crime.

I heard that you could register MG's in 1968. That is over 28 years ago! What if you just now found one like I did? Do you throw them away? I doubt it! It would benefit your government by knowing where they are, collecting proper fees, no silly lawsuits and stop putting honest gun people in your already overcrowded jails. Just think of the money that your law enforcement people would receive. They could then use that money in a positive way against your increasing gang and drug problem. Your laws are only creating a problem that should not even exist!

All I can say is that your ATF people should wake up and have another amnesty

like the one in 1968. It would benefit everyone and hurt no one. You have a great country but your laws are ridiculous!

"OTMAR"
Switzerland

OLYMPIC ARMS

I'm sure anyone who has called us here at Olympic Arms in regards to purchasing full-auto and short-barreled items has been greatly disappointed. Unfortunately, a Washington State Law prohibits us from selling anything Class 3 to anybody other than military and law enforcement agencies; this translates to the many Class 3 dealers across the country who sell or wish to sell our products. This does not mean that our products are unavailable in these configurations, only that we cannot supply them directly from the factory that way. Confused? You are not alone.

Companies outside of Washington State who are legally able to convert no Class 3 items to Class 3 can supply the consumer with our products in this form. One company that does the majority of these conversions is P.A.W.S. (Police Automatic Weapons Service) 8175 River Rd. NE, Salem, OR 97303, (503) 393-0838.

Class 2 manufacturers can also obtain our products and perform these conversions i.e., full-auto conversion to bolt carrier/shortening barrel length shorter than 16". Please contact us about being setup as a Class 3 supply source.

On items such as short-barreled uppers like our K-23 Stubbie (normally has a 6.5" barrel), we can supply you the upper with a Washington State legal 16" barrel. Then you can have the barrel shortened when it gets outside of Washington State.

We receive many calls everyday concerning Class 3, and I have tried to respond to the most commonly asked questions. If you have any other questions you can call me or any of our sales staff at (360) 459-7940.

Chris Low
Olympic Arms

Send comments and suggestions to:

MGN, Incoming

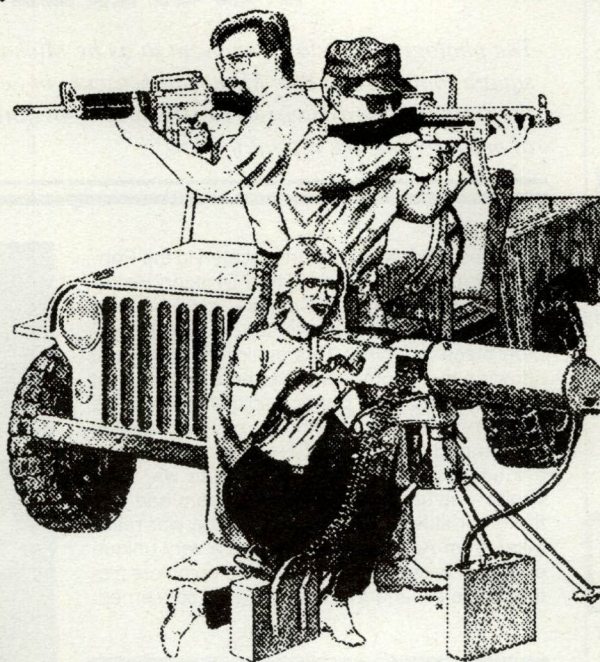
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MILITARY MUSEUM



The photographs below were sent to us by Michael Shyne who visited the one million square foot Korean War Memorial Museum in Seoul, Korea. Some photos are also of the Chinese Third Division Headquarters, Beijing. The Chinese have many examples of military fine art, a treat to view.

AR-15
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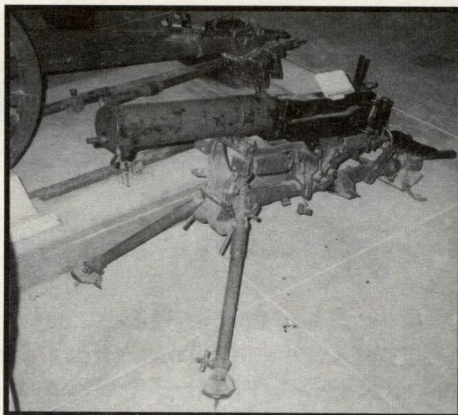
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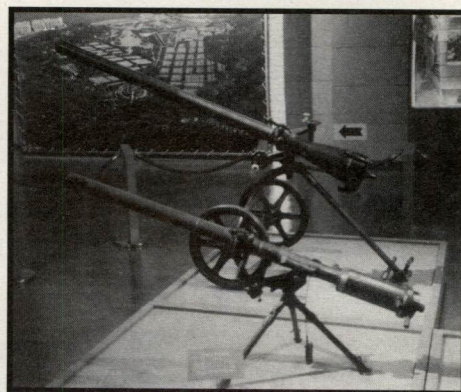
A Chinese War Art sculpture, located in the People's Republic of China, Third Division Headquarters Museum. The Chinese, more so than Americans, are very art-oriented. War art is common place in China. This sculpture is unique, showing the Thompson submachine gun. Just as many PRC Third Division soldiers died at the hands of Americans in Korea, many Americans died engaging their soldiers. Even though we are used to Japanese and German war souvenirs, it is strange to visit a museum and see the other side of the experience, the war relics taken from American side. It was a very unique experience, creating a much more complete picture to the experience of "war," for all concerned.



Chinese Maxim machine gun located in People's Republic of China Third Division Headquarters Museum.



One of the more unique exhibits in the PRC Third Division Headquarters is the early weapons collection. This photograph shows one of the world's first destructive devices, a cannon made of bamboo! Yes, this cannon was constructed with strips of bamboo banded together. It is an amazing piece of history.



Recoilless rifles on display in the Korean War memorial in Seoul, South Korea. For Americans, the Korean War is a memorable event but out-distanced in our recollection of the history of nearly every other 20th Century conflict. However, the Republic of Korea recognizes it would not exist today but for the outcome of that war and the participation of the many countries, including the United States of American, all of whom gave the soldiers' lives for the freedom of South Korea. As a result, South Korea has built a one million square foot museum, a stunning piece of marble architecture, honoring this war. It may truly be the largest military museum in the world and is worthy of a visit by anyone remotely near Seoul.

CLASS THREE SUPPLY, INC.

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MIK "HAMMER"



Benelli shotgun not included

Specifications

Barrel length: 10.4"
Overall length: 31.7"
Magazine capacity: 3

Suggested Retail
\$295.00

CTS Incorporated now offers the original **M1K "HAMMER"** conversion to all qualified owners of Benelli M1 Super 90 shotguns. Previously restricted to law enforcement agencies, this conversion allows the user to add tactical flexibility to this fine weapon.

This conversion is available on all Benelli M1 Super 90 shotguns that do not have a fixed 7-round magazine. All later production models will accept our conversion, including ghost-ring sight versions.

The **M1K "HAMMER"** conversion includes shortening your barrel and relocating the front sight. A new magazine cap will be provided and your original magazine extension will be returned to you. "Hammer" logo can be engraved at additional cost. Your shotgun will retain the ability to accept optional barrels and magazine extensions.

The **M1K "HAMMER"** is registered as a short-barreled shotgun and may only be transferred to individuals on ATF FORM 4. The transfer is taxed \$200.00 and must be approved by BATF prior to delivery of the firearm.

M1K "HAMMER" conversion on customer's shotgun;
shipping, insurance, sales tax and transfer tax additional.

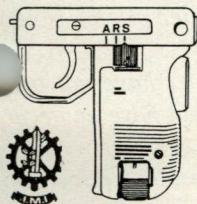
Note: The M1K "HAMMER" conversion is only available on otherwise stock shotguns. CTS Inc., may refuse any firearm that is deemed unfit. Price and specifications are subject to change without notice.

SWEDISH K PARTS

Closeout of parts for the Carl Gustaf M45B or Port Said 9mm submachine gun. All parts removed from functioning weapons in good repair.

Item	Description	Price
C0045	Left grip panel	\$ 5.00
C0046	Right grip panel	5.00
C0047	Barrel shroud with retainer (stripped)	20.00
C0048	Receiver cap	10.00
C0049	Barrel (pitted bore)	50.00
C0050	Bolt assembly	50.00
C0051	Return spring	10.00
C0052	Barrel Support	20.00
C0053	Magazine housing (removable type)	10.00
C0054	Retainer for magazine housing	5.00
C0055	Buttstock assembly	20.00
C0058	Trigger	10.00
C0059	Sear	10.00
C0060	Ejector	10.00
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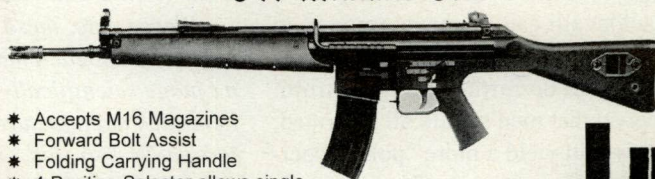


- * Contains All Internal Parts *
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- 0504000 - Grip assembly for Mini Uzi closed bolt SMG **\$495.00**
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BRAND NEW PARTS FOR YOUR UZI!

*IMI parts for Uzi SMG			*FN parts for Uzi SMG		
1000101	10.2" barrel	\$150.	1010101	10.2" barrel	130.
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1073000	Top cover assy., black	100.	1010111	Bolt	125.
1023000	Top cover assy., parkerized	90.	1010400	Grip body black	75.
1030111	Bolt	125.	1040400	Grip body parkerized	65.
1031000	Bolt/extractor/pin assy.	170.	*IMI parts for Mini Uzi SMG		
K35	Extractor/pin	45.	463000	Top cover assy., OB	150.
1060120	Return spring assy.	30.	K29	Bolt assy CB	495.
1120400	Grip body black	100.	460120	Return spring assy., OB	40.
1074000	Grip assy.	395.	910120	Return spring assy., CB	40.
1060471	Split bushing	15.	1120400	Grip body	100.
1000411	Sear	65.	464000	Grip assy., OB	450.
1060420	Trigger/interrupter assy.	75.	504000	Grip assy., CB	495.
1060431	Change lever	25.	K77	Buttstock assy.	300.
1000212	Ejector	15.	*IMI parts for Micro Uzi SMG		
K37	Grip panels/screws	40.	960101	5.2" compensated barrel	165.
K58	Grip/handguard panels/screws/nuts	85.	K23	Buttstock assy.	300.
1360000	QD buttstock wood	165.	<div> <p>Many other IMI parts available; call for information. Deduct 10% if your Uzi parts order exceeds \$1,000. Additional discounts to FFL dealers with FFL on file.</p> </div>		
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- * Forward Bolt Assist
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- * 4-Position Selector allows single, 3-rd burst and full-auto

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These weapons are not transferable to individuals.

CTS Inc. has received a small number of the famed HK G41 5.56mm machine guns. These automatic rifles incorporate the best of the M16 features with the reliability of the HK delayed blowback roller-locked bolt operating system. These weapons are in very good used condition with sling and one M16 30-round magazine included.

Terms: Law enforcement agency orders must include original purchase order. Net 30 day terms apply.

Dealer orders must include current FFL/SOT, agency demonstration request letter & 50% nonrefundable deposit.

RUGER AC556 PARTS KITS



Selective Fire, Three-Shot or Fully Automatic

CLASS THREE SUPPLY, INC. has acquired a number of RUGER AC556 Fully Automatic Rifles. These rifles, in the form of kits, are being made available to all NFA dealers and other qualified individuals. These kits consist of the following: stock, barrel, complete 3-rd./full-automatic trigger mechanism and all other parts—except the receiver. (No magazine is included.) Replacement parts only. All NFA rules apply.

AC556 Parts Kit . . .	\$325.00	30-RD. Original Ruger AC556 Magazine
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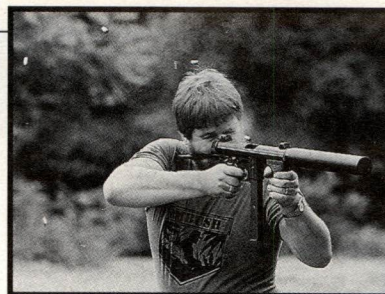
Prices subject to change without notice.
Dealers should send FFL/SOT for dealer discount.

Only 15 left!

Raffica

(full-auto)

by DAN SHEA



"The chief foundations of all states, new as well as old or composite, are good laws and good arms; and as there cannot be good laws where the state is not well armed, it follows that where they are well armed they have good laws."

—Niccolo Machiavelli

The Prince once again speaks very plainly, although the translation of time and language suffers some misinterpretation. Much in the way that the language of the founding fathers who wrote the United States Constitution is being perverted by modern anti-Second Amendment fanatics, Machiavelli can be misinterpreted to mean that only the State should have arms. Nothing could be further from the truth. He believed that men should all be armed, and that would yield a more "polite" society, a "lawful" society. Raffica is including this 14th Century quote as a reminder that the fabric that holds society together is NOT based on a wise and all powerful government; it is based on rugged individualism and personal responsibility. There is a rich heritage that we draw our historical freedoms from.

Speaking of freedom, and more specifically "lost" freedom, many of you have been asking what happened to Bill Fleming. After being convicted of evading about \$1800 in transfer taxes by transferring some machine guns through a police department (lots of controversy over THAT one), he was sentenced to 46 months in a federal penitentiary. Bill has been kept in medium security, heinous criminal that he is (After all, avoiding \$1800 in potential taxes makes one cringe in terror at what he might do next—take a right turn on red? Tear the tag off a mattress?). He now has been moved to the Federal Correctional Institute in Springfield Missouri. Those who would like to write to him may do so at William H. Fleming #06795-062 8-2, PO Box 4000, Springfield, MO 65801-4000. I am sure he would appreciate some mail.

On to machine gun questions...

Q "What is your favorite suppressor?"

A This question is asked of me almost daily. I swear, I can't go anywhere without being asked this question. At Knob Creek this Spring, I heard it so many times that I finally decided to answer it. This is going to get me some flak, and going to rattle some cages, but here goes. This is based on 18 years of experience, owning thousands of suppressors, and I am going to pick one from each of the major manufacturers that I have dealt with.

Please note: these are only my personal faves from each manufacturer. It doesn't judge scientifically or go through each item each manufacturer makes. Don't read too much into this—it's my list of PERSONAL FAVORITES!! I have elected to leave out most of the manufacturers that have gone out of business or only had small runs.

AWC/Gemini Technologies: I like their MK9K can—always have. It's short, a little fat, mounts with a three lug, and it's quiet. Keeps the nose on the old MP-5 down, and turns a corner well. I haven't had a chance to wring out the Raptor yet....

AWC Systems Technology: Hard to choose, but my favorite AWC is the Thundertrap on a .308 rifle. It's small, light, and effective, and does some neat things to the sound—actually disguises it as well as suppresses it.

Blaylock Gun Works: Dale Blaylock's best can that I have tried is his integrally suppressed Colt 9 mm unit. Hands down, this is the best of that style that I have tried.

John's Guns: John Tibbets has some interesting new items.... (see page 13)

Jonathan Arthur Ciener: Ciener's a mainstay in the industry, and I have sold hundreds of his suppressors. My faves? The M16 can and the M11 can. Both are sturdy and will stand up to sustained fire. Prices are reasonable, but Jon's technology doesn't really change. The M16 can is a two-point mount, like a Sionics can, an internal nut that threads onto the barrel,

and a clamp that goes around the barrel. People can say what they want, but I have NEVER seen one of these get enough "whip" going to self-destruct, and many of the single-mount cans have done so on full auto, usually at the most embarrassing moments for the dealer who was demonstrating them, like in front of the Marines at Quantico! The M11 can is quiet, wipeless, and user friendly. Don't overlook Jon's Marlin .22 suppressed rifle either. I have had one for 14 years that still does wonderful demos after 25,000 + rounds!

Knight's Armament Company: Where to start? Most of the KAC products have not been available to the public except in limited quantities. The SOF suppressor on the new Offensive Handgun is "trick," as is the snap-on can on the Beretta 92. The Quick Detach M16 suppressor is probably the neatest of all. It's high-tech state of the art, short, thin, and very effective.

John Norrell: I don't have a lot of experience with John's suppressors other than his extremely well-made Ruger 10-22 integral can. On one of his full-auto 10-22's, this is one neat piece—quiet and effective. There has been some recent movement in law enforcement to reviewing these as entry team weapons...more on that later.

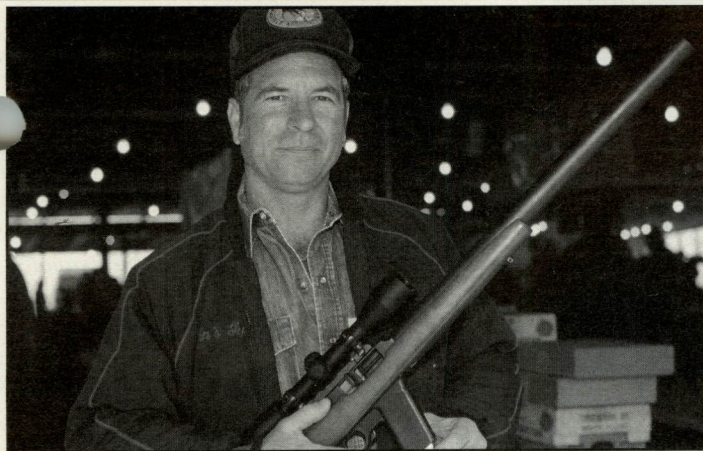
Precision Arms International: This now defunct company made some interesting suppressed pistols, and the Exactor .22 pistol they did was neat, had 20 shots of .22 cal. and was fairly quiet.

RASE: I have not tried any of their cans, as of writing this article, but do have some on order and will report later.

S & H Arms of Oklahoma: Curtis does a real nice Ruger MKII pistol. The workmanship is excellent, the suppressor technology is modern, and the pricing is very reasonable.

Sound Technology: I have not tried their suppressors yet but have an accurized 10/22 on order.

SSK Industries: The .300 Whisper cartridge by JD Jones is a real interesting



John Tibbets (John's Guns) holding a Marlin Camp Carbine suppressed.



A Marlin Camp Carbine suppressed.

one, look forward to some tests in MGN. I have not personally tried one out.

My personal favorite suppressor? [Drum roll.] THE MARLIN .45 CAMP CARBINE! At this point, Raffica ducks and swerves to avoid the thrown verbal tomatoes. Seriously. I know, I know, it's a terrible firearm to suppress. The unlocking of the bolt makes it virtually impossible to adequately suppress for a purist's standards.

Its redeeming features? The host weapon is in .45 ACP, my favorite SMG-size cartridge; it is in the rifle configuration which lends accuracy and velocity, is semi-automatic—quick back-up shots—and it has nice lines.

No one is going to make a Marlin .45 that is going to win "quietness" contests. I used to sell them to PD's that had special needs—like in "Pit Bull Removal." One of my friends on a Tactical team had a PBR problem, in which the charging animal was shot numerous times with 9mm handguns. Each shot struck the head and bounced right off. Net result? One severely PO'd, totally irrational, charging meat grinder, and several Tactical Officers with Pucker Factor 10. Eventually the animal succumbed to a .45 round, as I recall. This was in the mid-1980's, and I received an immediate call for a rifle type .45 caliber suppressed weapon, and it had to be on a PD budget. This led to my bringing in a Marlin 45 that was done by Precision Arms. To all accounts, this firearm has proved reliable and beneficial to the team, and I have sold many others over the years.

Most of the suppressor manufacturers will not do a Marlin in either 9 mm or .45. I think that is their loss. John Tibbets (John's Guns, 3010A Hwy 155 N., Palestine, TX 75801, 903-729-8251) made one for me a little while ago. He retained 16.25" of barrel, did his porting correctly

(i.e. nice and clean, not too many) which allowed for the bullet retaining accuracy and velocity.

There is just something about that 230 grain slug slamming downrange. Very satisfying, and when it's suppressed, it is one impressive weapon!

On a parallel note, Ken Christie (Ken Christie Enterprises Inc, 7240 South Ridge, Madison, OH 44057, 216-428-5551) has a needed accessory to the Marlin. He sells a conversion unit to make the magazine well take the same magazines as your sidearm, or in the case of this .45, I suggest the 14-shot para-ordnance magazine. This addition really brings the tactical application of the suppressed .45 to new levels. He offers six mag models for the .45 and thirteen models for the Marlin 9 mm. He requires the gun be sent in to him for the conversion process. Cost varies by conversion from \$84.95 to \$184.95.

There, I did it. C'est la vie.

Q I have heard for some time that the Group Industries Uzi will soon be on the market but I cannot find anyone who can tell me how to get on a mailing list for notification. If you could tell me how to contact the company that will be

distributing them please let me know.

Husker

A That project is still progressing, and your best bet is to watch Machine Gun News for updates on it. For those not familiar with the subject, Group Industries was auctioned off last summer, 1995, and 3300 registered transferable Uzi receivers were sold in one lot. The company that owns them now has said there is no news yet, but they are trying to ensure a quality product when they bring them to market.

Q I was wondering if you could give me some information on how to obtain a 10.5 inch barrel for a Colt SMG 9 mm. I would also like some info on how to cut down a 16 inch barrel to a 10.5 and threading it for the flash suppressor (i.e. how difficult is it??). I have checked with BATF and will use this information accordingly. Any info will be greatly appreciated.

Mike

A Well, Colt is not selling SMG barrels on the open market. The 9 mm carbine barrels are another story, but they are in high demand. Cutting one down under 16 inches in length, and installing it on a semi-auto would, of course, require registration and tax payment under the NFA. Installing it on a registered machine gun is no problem. Cutting it off should be done by a qualified machinist, using a metal lathe. Threading should be other than 1/2-28: either 1/2-36 or 1/2-32. Colt uses 1/2-36. This fine thread is used so that you cannot accidentally install an M16 .223 (1/2-28) caliber flash hider on the barrel. This would be disas-



A Marlin with Para-Ordnance mag well.

trous, as the 9 mm bullet will not pass through the .223 opening. One drawback to the fine thread is that cross-threading a suppressor or flash hider is very easy to do.

Q I am looking for information on Soviet machine guns.

Ziv

A Can you be a little more specific? Most of the books that cover machine guns cover the Soviet guns, at least lightly. If you want to get deeper, one of the best sources for information is Colonel George Chinn's "The Machine Gun," volume II in particular. This volume, published by the Department of the Navy, Bureau of Ordnance in 1952, covers Soviet machine guns up until 1952. The whole five-volume set is one of the classics of the Class 3 world, and no Reasonably Knowledgeable Individual should be without it. Two other fine resources, if you can find them, are D.N. Bolotin's Soviet Small Arms and Ammunition published in English by the Finnish Arms Museum Foundation, Jokelantie 63, 05800 Hyvinkaa, Finland, and Fred A. Datig's "The History and Development of Imperial and Soviet Russian

Military Small Arms and Ammunition 1700-1986" published by Handgun Press, PO Box 406, Glenview, IL 60025.

Q Just subscribed to your magazine and love it! This is not exactly an MG question, but I thought you might be able to help me out. I have recently purchased a Russian 7.62 Nagant revolver which was made in 1932. Now the question: on the side of the frame is stamped "Made in Russia"...in English! Why wouldn't this phrase be in Russian? Hope you can explain it to me. It's driving me nuts!

Jim Tuszka

A Really a pretty simple one, Jim. The U.S. import regulations require that imported firearms state the country of manufacture. On the other hand, I do not mind discussing this seemingly normal revolver in MGN because it has a secret redeeming feature: it is the only revolver you could truly suppress!

The 1895 Nagant uses the rimless 7.62 mm Russian Nagant gas sealing cartridge. The projectile is seated behind the forward rim of the case, and the cylinder moves forward and seals up to the chamber when

you are firing. There is virtually no gas released at the cylinder/barrel contact point. Now, just why is that so desirable?

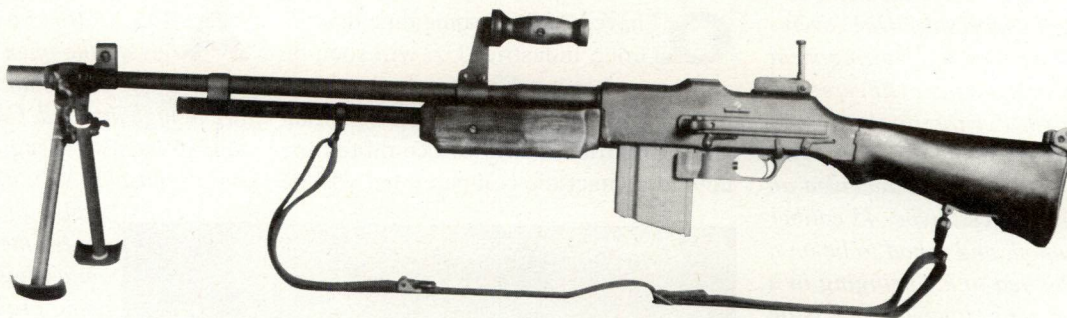
The Nagant is a revolver; it's going to fire every time, and if it doesn't, the next chamber has a round that will fire. You want the double-action version (Officer's) if available. It doesn't leave incriminating brass on the ground. The projectile travels at about 1000 feet per second—no supersonic crack. It makes a VERY interesting package for the "special operative." These are available for about \$100 on the retail market, although ammunition is scarce. I expect we will be hearing from the suppressor manufacturers fairly shortly...

Q Is anyone doing a .45 ACP conversion on the HK MP5 or HK94 guns anymore? I saw an SP89 in a shop in Albany, GA recently that had been converted to .45 ACP and used Reising mags. The dealer didn't know who did the conversion and I couldn't find any markings on it other than HKs. Any information would be appreciated.

Randy

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A I have only seen the ones that Bill Fleming did a few years ago. I haven't seen any others. There were magazine problems on those firearms that made it to market. Stan Andrews was making some mags for the existing MP5's in .45 cal, but it was on a custom basis (Stan's Gunsmithing Service- 603-746-4387). If anyone has information on another conversion being done, send it in to Raffica.

Q As a believer in preventive maintenance as a way of protecting my investment, I hope that you can address my concern regarding replacement of the cams located in the front of the MG-34 receiver.

It appears that the front face and top edge of the lower cam on my receiver has been hammered out of shape by one of the bolt guides, while the upper cam is the proper shape and shows very little wear, so I'd guess that the upper cam is a replacement.

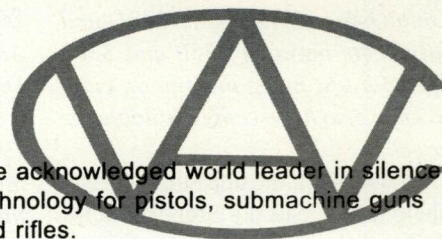
I hope that you can advise me as to what you think about this problem, and how I could either replace the damaged cam, or recommend a Class 3 craftsman that might be able to replace the damaged cam and restore the receiver to good-as-new condition.

David

A I honestly don't have a lot of knowledge in this area of the MG-34, so I called Bob Landies and got the following answer:

"As the bolt moves forward, the rollers ride up on the bolt cams (they're like rails) and guide the bolt rollers into the barrel cams. These barrel cams bear the brunt of that forward stroke of the bolt. On the extraction/ejection cycle, the reverse occurs. The bolt rollers come backwards and impact on the cams in the receiver. The rollers and the cams are supposed to be hardened to the same C-level, but many times that is not true. The roller may wear first, or the cam may wear first. Cams that have worn 20 thousandths or so will cause problems on extraction and may easily be overlooked as the root of the problem, driving the gunsmith crazy."

Those cams are riveted directly to the receiver. It is necessary to drill them out, then set up a jig to set the replacement cams exactly, and rivet them in place. This procedure is performed on a regular ba-



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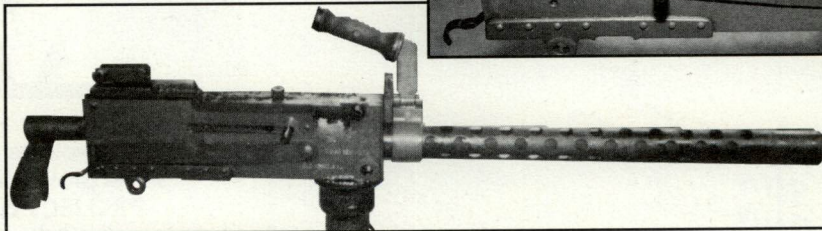
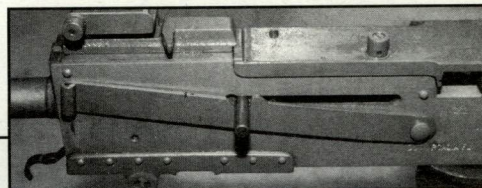
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.30-06; 1917A1 - .30-06; M37 - .30-06; AN-M2 .30

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sis at Ohio Ordnance (216-285-3481) and generally costs between \$250 and \$300 complete with test firing the gun on completion. They also have cams available for \$85 per set.

Q I'm writing in the hope that you can help me. I read the Stoner articles and was impressed, but I was hoping for more on the AR-10B. The reason is that I have an AR-10 kit and have been looking for a lower receiver for a year and a half now with no luck. I would love your help, if you could ask Stoner or the people at Knight's if they have the blueprints for this, or if a reader has the blueprints, or if you could forward this to them. I could have someone make me one. I don't know if the patent is expired but I would think so. I've talked to forty people with kits but they had no luck finding a receiver or even parts. If there are any readers out there with parts, I would like to find the ejection port door and the original hand guard set-up. The MGN is a great source of information so keep up the good work.

Randy W.

A There really haven't been many receivers for the AR-10 out there. I

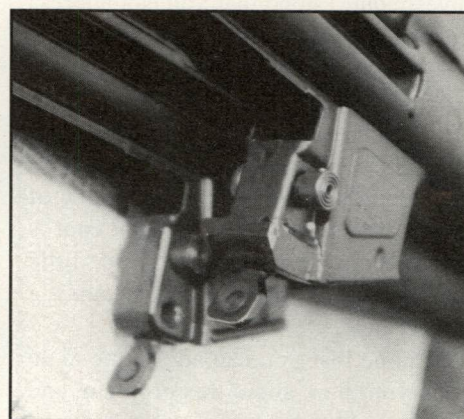
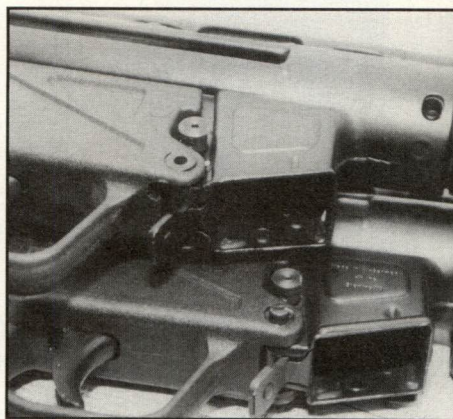
know that the receiver prints exist, but the AR-10 is in active production for Armalite Division of Eagle Arms. (Eagle Arms Inc., P.O. Box 457, Coal Valley, IL 61240. 309-799-5619.) Perhaps you can speak with them about purchasing a receiver. Most of the parts sets that have been sold are in relation to people who already have live guns and need replacement parts, and those people who are making "wall hanger" nonfiring replicas.

Q In one of your answers you stated: "Of the 3 types of HK receivers, the most expensive and sought after is the MG

receiver, then the registered receiver, and lastly the registered auto sear." How can you tell this by looking at the weapon? Also, can you tell by the Form 4? Also, I have seen advertisements for the Uzi, as Uzi Type A, Type B. What is the difference in regards to Class 3 weapons?

Gene Hirte

A The "machine gun receiver" is either an original HK MP5 which is only available as a dealer sample firearm unless it came in the country before December 1968 (I believe only two did), or it is an HK-94 that was registered as a ma-



Both photos: Top converted HK94 with clip on housing Bottom MP5 with swing down trigger housing

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chine gun before May 19, 1986, and had the receiver modified to accept a "swing-down" machine gun trigger pack. There were other "registered receiver" HK guns made into machine guns before 1986, but they had a "clip-on lower" installed that would fit on the semi-auto gun (see photos). In reality, that clip-on lower is capable of converting any HK to select fire, so it must always be kept with the registered receiver. Herein lies the problem. The clip-on lower is essentially the same as the registered sear type conversion, but the receiver is registered instead of the sear. If there is a problem with either a registered sear, or a sear that is in a registered receiver clip-on lower, it cannot be replaced—it must be repaired.

With the swing-down lower machine gun receiver, you can replace the trigger/sear group with any of the HK lowers, gaining 3-shot, 2-shot, 4-position, etc., with ease. That is what makes it so desirable. You cannot take the block off the front of a clip-on lower type receiver and convert it to swing-down. ATF Technology considers that creating another machine gun.

Looking on your paperwork, see who's name is in section 3 or 4. If it is other than HK, then the manufacturer registered the gun. Look under model and see if it's "HK Sear" or "MP5." Finally, looking at section H may give you a clue. If it says "Installed in semi-automatic...." then it's a sear gun for sure.

Uzi "Type A" or "Type B" is a reference to the model of a semi-automatic Uzi that was used as a host weapon for the machine gun conversion. It really makes no difference at all, except that the "Type A" sites are set up for a 10" SMG barrel and the "Type B" sites are set up for a 16" barrel. When the "Type B" is set up with a 10" SMG barrel, as most registered machine guns are, the point of impact will be significantly different at longer range. You will need to mentally correct for this at long range.

Q I am writing to have another question answered. And I am certain you will want to edit this to protect the vendor's reputation. I purchased a suppressor for two of my 9 mm pistols. After obtaining two match-grade barrels, I had each fitted and threaded by the suppressor manufacturer as they requested, to insure proper alignment of barrel and suppressor.

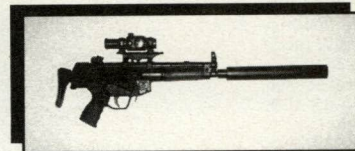
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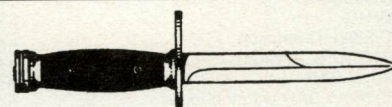
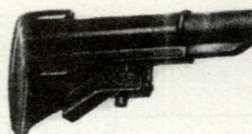
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I remember reading an article in *MGN* by a well-known Title 2 who mentioned that muzzle strikes were common with external suppressors. Have you found this to be true as well? Do you have any suggestions as to a cure? My previous experience with their products has been great.

Russell D

A Well, it's common to have muzzle strikes on an improperly aligned suppressor. Most of the manufacturers want you to send the pistol for them to thread and align. *FRUEBTGS (For Reasons Unexplained By The Gods of Suppressors)* there are some guns that will always have those strikes no matter how many barrels you replace or how many machinists do the aligning. Theory goes that recoil has moved the barrel/projectile alignment just enough so that in the microsecond after the projectile leaves the barrel and enters the suppressor, the front rim of the suppressor has moved into the path. I don't know if I buy that, because many of the strikes are on the upper rim, which would be counter to recoil movement.

I do know that many of the manufacturers will only sell their muzzle "cans" as a set, with a pistol that they have tried out. I recommend buying these "systems." At least you have the recourse of returning it to the manufacturer and not hearing about how terrible the machine work was. In this particular case, I think you should call the manufacturer, explain the problem again, and I am sure that he will take care of it in some manner. He has a very good reputation.

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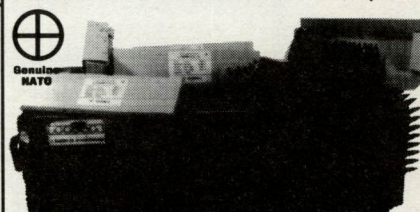
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7.62x54r LIGHT BALL AM-0510-C320	German Military Arsenals	1980s	Steel	Steel Core FMJ	20rds	320rds Plastic Sleeve	20 lbs	No	No	\$44.50 (*.14rd)	5.75	9.00	12.00	(85 72)
30.06 Steel Core G.I. BLACK TIP AM-0485-C250	F.N. Belgium	1960s	Brass	Steel Core FMJ	250rds	250rds .30 Cal Can	20 lbs	YES	No	\$87.50 (*.35rd)	5.75	9.00	12.00	(FN 67)
30.06 Ball AM-0447-C250	F.N. Belgium	1960s	Brass	Lead Core FMJ	250rds	250rds .30 Cal Can	20 lbs	YES	No	\$72.50 (*.29rd)	5.75	9.00	12.00	(FN 67)
30.06 Blank ON LINKS BELTS AM-0480-C250	F.N. Belgium	1970s & 60s	Brass	Star Crimp	250rds	250rds .30 Cal Can	16 lbs	YES	No	\$12.50 (*.08/rd)	5.00	8.00	10.00	(FN 65)
30.06 Blank ON LINKS BELTS AM-0482-C250	I.M.I. Israel	1990s	Brass	Star Crimp	250rds	250rds .30 Cal Can	16 lbs	YES	YES	\$34.50 (*.138/rd)	5.00	8.00	10.00	(IMI 30 91)
30.06 Blank, Star Crimp Bulleted AM-0482-C400	I.M.I. Israel	1990s	Brass	N.A.	20rds	400 rds .50 Cal Can	35 lbs	YES	YES	\$49.00 (*.125/rd)	7.50	13.00	18.75	(IMI 30 91)
7.65 Argentine 7.65x54 AM-0326-C1500	Argentine Military Arsenals	1980s	Brass	N.A.	15rds	1500 rds	90 lbs	YES	No	\$172.50 (*.115/rd)	33.00	35.00	38.00	(7.65 SF 81)

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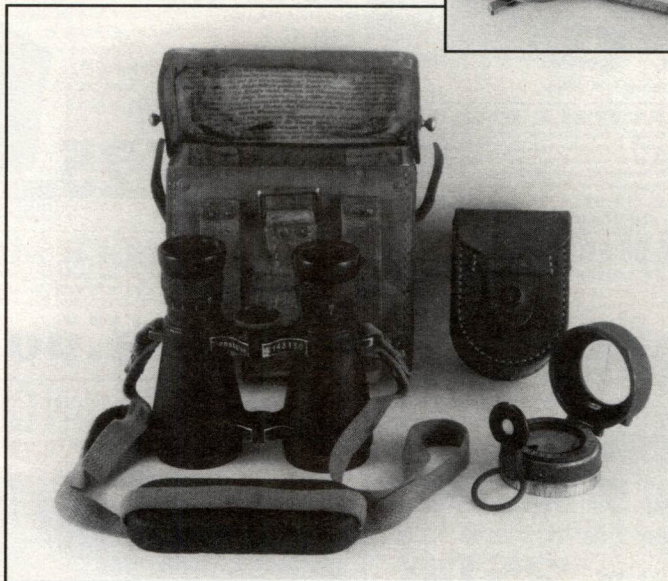
Machine Gun Miscellany

by ROBERT G. SEGAL

Tools of the Trade

The serious aspect of classic machine gun marksmanship lies in the science of mathematics, particularly in the understanding of geometry and algebra. In today's high-tech world of large main frame computers, compact handheld computers, laser sights, laser range finders and Global Positioning System satellites, the micro-chip has pretty much taken the manual labor out of determining fire control techniques. Our discussion here will focus on the old fashioned method of using fairly simple tools, and the most complex tool of all, the human brain, in determining

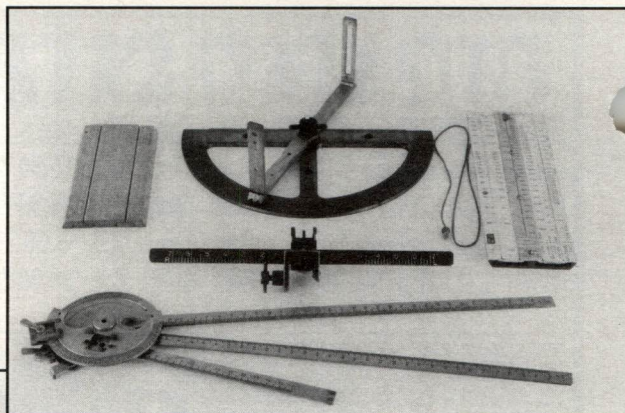
fire control methods that were used prior to the "electronic computer age." It was not all that long ago that all high school students knew how to use a simple manual computer called a slide rule. Today you can't even find one, except in an antique store or flea market, let alone ask a high school student to use one because they don't know how. Prior to the "electronic computer age," there were a number of simple manual computer tools used by machine gunners to assist in determining angles, elevations and distance whether in direct line-of-sight or out of direct line-of-sight. These manual computer tools include various optical devices, aiming circles, leveling bubbles, slide rules, range charts, compasses, fire control data, range finders and tables of fire charts. These tools were essential to enable the qualified machine gunner to solve the most complicated firing problems for the most difficult method of employment: indirect laying of fire.



Always the soldier's friend, binoculars and a compass will see them through. On the left is a World War I Imperial German Army machine gun crew pattern 08 field glass complete with leather case. Note the instructions for use in the lid. On the right is a World War I U.S. lensatic compass and case.

There are two basic methods of employment for machine guns: direct laying of fire and indirect laying of fire. Direct laying of fire is when a target is visible to the gunner and he can train the weapon directly upon the target after determining its direction and elevation by the direct line of sight. There is no "mask" of the target such as a hill, woods, smoke or darkness. The guns can be laid quickly and accurately with fire easily adjustable since the target can be seen. (Of course, the danger here is that if you can see the enemy, they will, in all likelihood, be able to see you!) The gunner primarily uses the leaf sights that are a part of the gun, telescopic sights, direct fire sights or, in the case of an aircraft threat, special anti-aircraft sights.

Indirect laying of fire is the method used to employ the machine gun when the target can not be seen by the gunner since the target is "masked." There are four basic elements to be considered with indirect laying of fire: direction, elevation,



Above: A number of tools as used by machine gun crews.

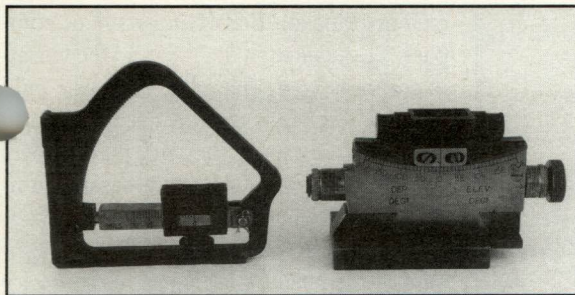
Rear left is a boxwood Mk III (.303 Vickers M.G. for Mk. VII Ammn.) slide rule with table of fire information dated 1936. In the center rear is a German World War I machine gun battery fire-control quadrant. Right rear is another slide rule, M.G. Mk IV, .303 Vickers machine gun for Mk. VIII ammunition, dated 1942.

In the center is a Foresight Deflection Bar Assembly Mk I for use with the lensatic dial sight for the Vickers water-cooled machine gun.

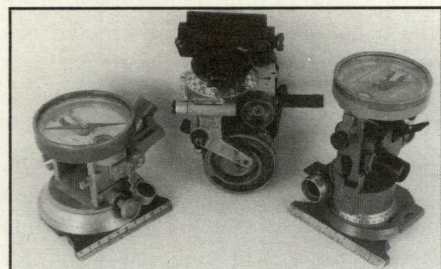
In the foreground is a protractor device used in conjunction with the indirect fire sight and fire control director as used by machine gun battery commanders. This unit was made in Germany in World War I for use by the Turks who were supplied with German Maxim guns and is marked with a Turkish insignia.

clearance of the "mask" and clearance of friendly troops. Certain fire control instruments such as the range finder, binoculars, compass, aiming circle, clinometer, aiming stakes, drawing board and protractor assist the machine gunner to obtain the necessary data required to properly set the gun in action. This method is best utilized when a number of guns are used in battery. In the attack, indirect laying is used to neutralize critical enemy positions, interdict routes of approach and harass rear areas. In the defense it is used to supplement or concentrate fire in emergency areas and to interdict critical routes and areas.

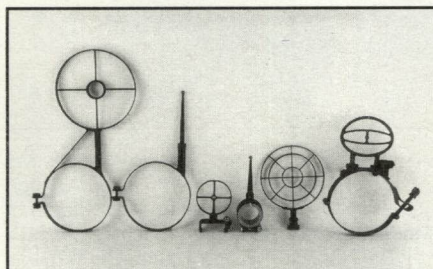
The azimuth type range finder usually used by machine gun crews is a telescopic instrument used to measure the distance to an object, usually from 400 yards to 10,000 yards. The range is determined by a method of triangulation. The optical system is, in effect, two periscopes laid horizontally so that their objective prisms are



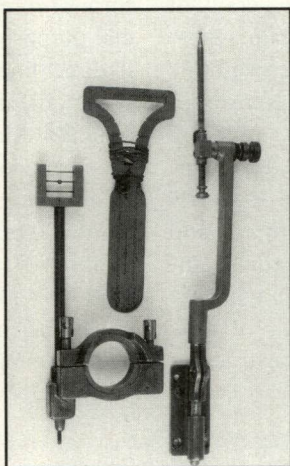
Two different styles of clinometers. On the left is an M1917 clinometer as used on the Brownie M1917A1 water-cooled machine gun. On the right is an Australian manufactured clinometer Mk II used with the British Vickers Mk I water cooled machine gun.



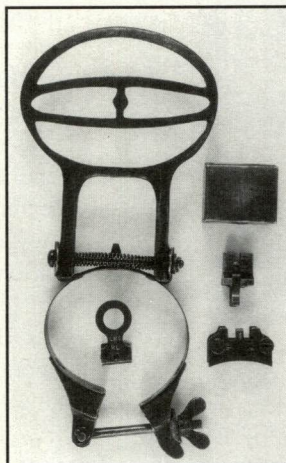
On the left is an indirect fire sight and fire director for the German Maxim machine gun. Made in Germany by Emil Busch in 1917, it was used by the Turks during World War I. It has a combination of German and Turkish numerals. In the center is an optical lensatic dial sight Mk II as mounted and used on the British Vickers Mk I water-cooled machine gun. On the right is an indirect fire sight and fire director for use with machine gun batteries. Made in Germany in 1929 for a Turkish contract, it is, however, marked in western numbers. Note the compasses on the two German models for determining magnetic azimuths.



Various anti-aircraft sights for machine guns. From left to right, the first two units are the front and rear AA sights for the Vickers Mk I water-cooled machine gun. The next two units are the rear and front AA sights for the AN-M2/MG-40 .30 cal. machine gun. Next is the AA sight for the German MG-34 machine gun and on the far right is the AA sight for the Browning M1917A1 water-cooled machine gun.



Anti-aircraft sights front (left) and rear (right) for the French Hotchkiss Model 1914 machine gun. In the center is an aircraft distance estimating device for use with the Hotchkiss M1914 anti-aircraft sights.



Accessory sights for the Lewis Gun. On the left is the large front folding AA sight. In the center of the clamping device is the rear AA sight that attaches to the regular rear Lewis gun sight. On the right is a set of rear and front direct fire luminous sights used for night firing. The little metal box that these fit in is marked Sights, Luminous, Lewis .303 Gun. Manufactured by B&H Ltd., Birmingham.

a set distance (usually 80 centimeters) apart, but there is only one eyepiece. The two images pass through an ocular prism before entering the eyepiece which splits the image into two images. The operator sees two images of the same object, one erect and one inverted. The range is determined by placing in coincidence the two images by manual adjustment of a roller on the instrument and then reading the range on a distance scale.

Binoculars are a flexible tool that enables the gunner to survey the terrain, select targets, find aiming stakes, observe bullet strikes and, when the reticle is marked, can be used to determine small horizontal and vertical angles in mils. A mil equals one yard at one thousand yards.

The aiming circle, or fire control director, is basically a small and compact

surveying instrument consisting of a compass, telescope, azimuth micrometer and angle of site micrometer. When mounted on a tripod and its bubble centered, it is used for measuring azimuths and can determine both horizontal and vertical angles (angles of site) which can then

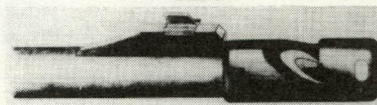
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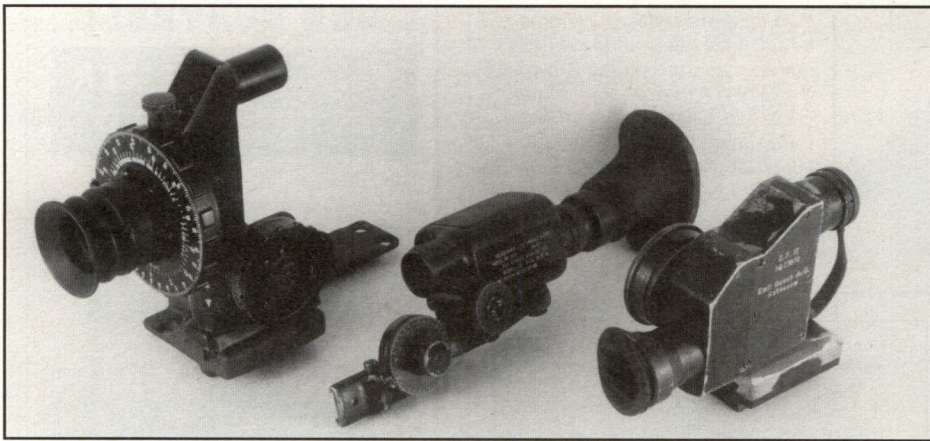
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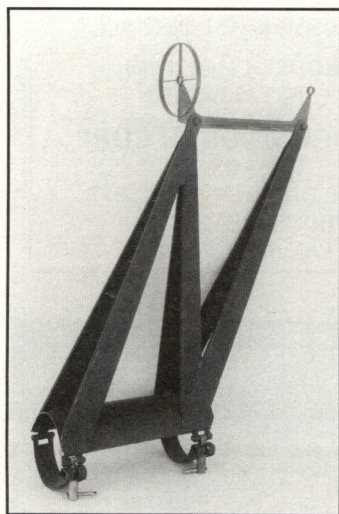
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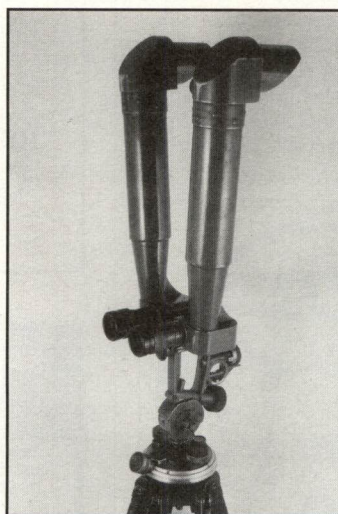
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A trio of prism type telescopic sights for machine guns. On the left is the Sight, Telescopic, M1 used on the .50 cal. Browning M2 HB machine gun. This one was made by the Fairchild Aviation Corporation in 1941. In the center is the Warner & Swasey Telescopic Musket Sight Model of 1908 on mounting rail. This sight was used on the Model 1909 Benet-Mercie machine rifle. On the right is a Z.F. 12 telescopic sight manufactured by Emil Busch A.-G. of Rathenow that was used with the German Maxim MG 08 machine gun.

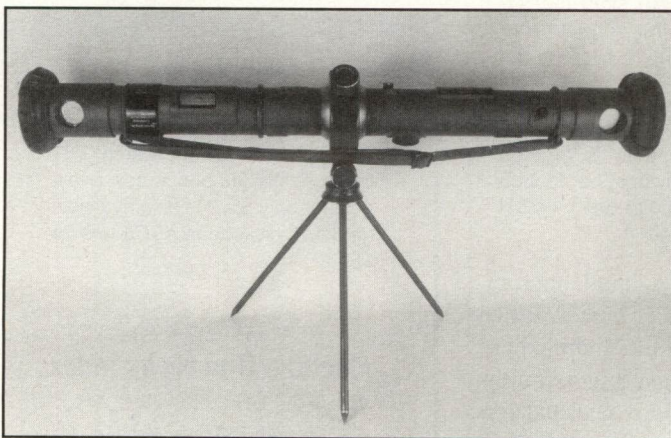


This extremely large combined ring and post anti-aircraft sight is for the Browning .50 cal. M2 water-cooled machine gun when mounted on the M3 AA mount.



German World War I Maxim machine gun battery commander's rabbit ears periscope manufactured by G.P. Goerz, Berlin mounted on a tripod.

U.S. World War I range finder, 80 cm Model of 1918 Barr & Stroud type. Manufactured by Kueffel & Esser Company, New York.



be accurately plotted to solve geometric firing problems. The optical telescope that is attached to this instrument is generally of the prismatic type. There are two basic types of compasses generally used by machine gun crews. They are the prismatic compass and the lensatic compass. Both types are generally of the same construction

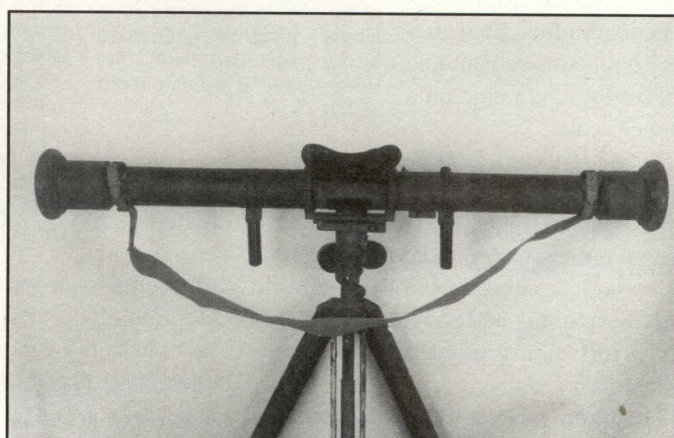
except the needle dial of the prismatic compass is graduated in degrees and the lensatic compass is graduated in mils. The only other difference is that the prismatic compass uses a prism to magnify the numbers on the needle dial while the lensatic compass has, mounted in the rear sight, a magnifying lens which also enlarges the numbers of the needle dial for the user. A very versatile tool, its primary purpose is to obtain magnetic azimuths and be used as a marching compass. The lensatic compass is preferable for machine gunners because its reading is in mils.

The clinometer, or gunner's quadrant, is a graduated arc for setting off angles in mils. It enables the gunner to lay the gun in elevation, or when the gun is laid, for measuring its angle of quadrant elevation.

The drawing board and protractor is used to draw geometrical figures from which directional and elevation data are obtained. Thus, the known angles and ranges can be plotted and unknown angles and ranges determined by using geometric and algebraic formulae.

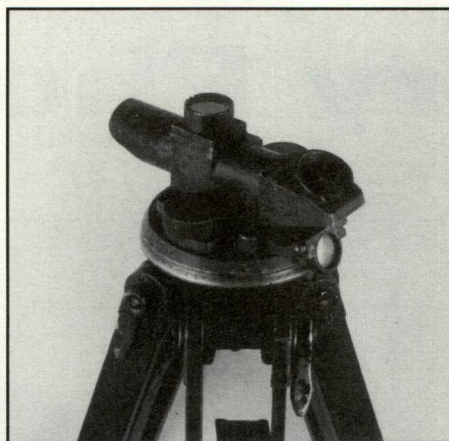
Anti-aircraft sights are the simplest form of direct fire sight and serve a special purpose because though the target is in direct line of sight, its speed and quickly variable distance require a different set of skills. Aircraft should be normally engaged at about one thousand yards or less. Generally speaking, an aircraft that travels at 200 m.p.h. covers about 1,000 yards in about 10 seconds. Thus, when an aircraft is within range, the machine gun should be firing for that full 10 seconds. It is also important that the gun be shoot-

German World War II range finder EN 34 (Entfernungsmesser 34). This model, manufactured by Carl Zeiss, is 70 cm in length with magnification of 11 power and a range of 219 yards to 10,930 yards. It was used by MG34 and MG42 machine gunners. Note the small tripod that is used for the gunner's assistant to use in the prone position.



ing tracers so that the gunner can see his stream of bullets. If tracers are unavailable, ball ammunition can be used though the hit probability will be much lower. For range estimation purposes the gunner needs to be able to approximate the distance involved. A very loose rule of thumb is that at 1,000 yards the general outline of the plane is discernible. At 700 yards, the wheels, rudder, wing struts and tail skid is observable. At 500 yards, small projections from the aircraft and the antenna can be made out. At 200 yards, symbols, numbers and letters can plainly be seen. For nonoverhead targets, the gunner should lead the target by one plane image for each 100 yards. (e.g. a plane 700 yards away would be lead by seven target lengths). For targets that will travel directly overhead the following rules apply. For inbound targets, the tracers should appear to pass directly over the nose of the target. For departing targets, the tracers should appear to pass just under the target.

Of course it is essential that the machine gunner understand such fundamentals as the cone of fire, beaten zone, ef-

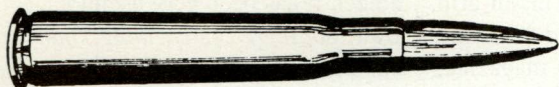


Mounted on a tripod, this German World War I direct-fire sight was used by the Maxim machine gun battery commander.

fects of ground slope, center of impact, windage, range determination, fixed fire, traversing fire, searching fire, frontal fire, overhead fire, oblique fire, flanking fire, enfilade fire, plunging fire and grazing fire. Anyone can pull a trigger and riddle a target at a couple of hundred yards. But it takes great understanding and skill to be able to hit a target that is 1,500 yards away on an upward slope and is hidden

by a hill on which your own troops are advancing. That is the true art and science of mastering the machine gun. Machine gun shoots such as Knob Creek are a wonderful forum for the hobbyist, shooter or collector to enjoy the thrill of close range direct fire. But the true skill of the machine gunner is determined by the knowledge and employment of indirect fire. Unfortunately, there are not many places where this skill can be practiced by the recreational shooter. Thus, it is the least known and least understood method of machine gun marksmanship. It is, however, the most important for a true comprehension of the capabilities of man and gun working in unison. It is interesting to note that the primary role of indirect fire has now been taken over by the use of mortars rather than the heavy machine gun. Though the basic skills are still being taught to machine gunners in the military today, there is a high degree of reliance on the new high-tech aids. One shudders to think of what will happen when the micro-chip fails, the battery dies or someone pulls the plug. **MGN**

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Mystery Photo

by DAN SHEA

Mystery Photo is a regular MGN feature. Each month we present a photograph of an interesting part or accessory (we promise not to put ridiculous screws or nuts in here). Each will be something of interest to the Class 3 community. You can send in your answers to Mystery Photo c/o MGN PO Box 459, Lake Hamilton, AR 71951, fax them to (501) 525-7519, or E-mail them to MGNews@aol.com. We will accept interesting photos from the readers, as long as they are accompanied with a full description of the parts in the photo. Those of you who answer correctly will be awarded the "Order of the RKI," a certificate that proclaims you to be a "Reasonably Knowledgeable Individual." This certificate is suitable for framing and will make a nice conversation piece on the wall next to your other accolades and honors. Besides, it gives you bragging rights!

Ryan O'Rourke: This must be one of the more popular (i.e. easier) Mystery Photos you've printed in a long time. It's certainly the first one I've seen where I had even a hope of knowing the answer. My first reaction was that it was the trigger assembly to some kind of European BAR, but after ingesting a healthful malted beverage or two and perusing my tattered copy of Small Arms of the World, I concluded otherwise. Could it be the trigger assembly to a Colt Monitor? (Also, is it mere coincidence that there was an article on the BAR/Monitor series of weapons in the same issue?)

As a resident of the People's Republic of California, I am for all practical purposes forbidden to own Title II weapons (and a long list of "semi-automatic assault weapons" as well) by our benevolent and all-knowing masters in Sacramento. An RKI certificate is about as close as I can get to the real thing....

Dan: Definitely one of the most popular we have been swamped with answers, or rather "attempted answers." I will sleep better tonight, knowing that the benevolent and wonderful powers that be in California have kept the citizens from owning a rare \$5000 collector's piece. Did you



March 1996 Mystery Photo answer. (Photo: Jim Bonis)

know the Monitor doesn't even have a dreaded bayonet lug? Well, your answer is not *QUITE* right, but a pretty good shot from someone who lives under such a shadow of oppression...an RKI to you.

Barb Hummel: This is the first time I've tried to answer a Mystery Photo, so here goes. The March Photo looks like a complete trigger housing with the pistol grip for a BAR. (Maybe a Colt model?) Hope I'm right! Thanks for the great magazine, I have to tear it away from my husband every month so I can read it!

Dan: Sounds like you need a "his and hers" subscription, Barb.... Yes, it is a pistol grip from the Colt model of the BAR... There is a little more to it....

Mike Brown: I'm not an RKI by any means, but perhaps a Relatively Observant Individual. Being a rank novice in the Title 2 world, I hope that trait will help me to become an RKI.

It looks to me like your mystery photo is assembled into the Colt Monitor machine rifle on page 19. There's some lack of detail on the page 19 photo, but the lines seem to flow. If not the same, then from the same family.

Dan: Close, Mike, close....

Les Ramsey: I think you gave it away by

posting the BAR story on page 16. Close examination of the grip appears to be the lower receiver (?) of the Type D BAR on page 17. I just don't know what the two screws are securing to the mag area on the left side of the lower receiver. Oh well, its fun guessing anyhow. Please keep up the excellent articles. Especially like "The Forms" area. As a Type 01 and 03 license holder, it has been very useful.

Dan: So, there is something "odd" about this Monitor trigger group???

Jon Carter: I received the March MGN today and on opening the "plain white wrapper," I was immediately struck by the new, eye-catching cover. The new look is impressive; the extra pages are, as usual, full of interesting material. I wish MGN the best with it, and hope the new, larger, size can continue. I know (on a much smaller scale) how tough it is to fill pages at times. Although the new covers are eye-catchers on the newsstand, I would vote for a more conservative appearance—image of the sport and the full-auto shooter, etc.

The Mystery Photo appearing on page 14 appears to be the trigger group of FN-D BAR, although I've never seen one with the "add-on" magazine reinforcement ears used to modify some of the earlier U.S. Model 1918 guns. (These were incor-

porated in the design of later-production U.S. models.)

I then turned the page and read the immediately following article. *MGN* seems to be really growing up; it is becoming compartmentalized.

Dan: Glad you like where we're going, Jon. The covers are a little "eye candy" to help bring in new readers. We are not slipping into the "Drugstore Rambo" mode. I will tell you that at our writer's meeting at Knob Creek, the professionalism and dedication to providing the reader with top-notch, state of the art articles was very evident. You do have to let us have a little fun though. An FN Model D pistol grip, with add-on mag reinforcement ears? That's a pretty good guess, Jon....

Robert Riddervold: Your March '96 Mystery Photo caused quite a debate in our local Class 3 shop. One side said that it was the trigger group of a Type D BAR; the other side said it was a Colt Monitor trigger group. The debate went back and forth like a well-known beer commercial, "Type D! Colt! Type D! Colt!" Not until I produced specimens of both wonderful weapons was the debate settled. It is definitely a Colt Monitor trigger group. The tip-off is the mag catch in the trigger guard and the flanged mag guide at the front of the housing. The Type D has a flat mag guide and the catch is located on the bottom of the housing. By the way, the answer is on page 19. Readers, compare the picture of the Monitor with the picture of the Type D on page 17 and you will see the difference.

In response to the query of K.S.B. as to where the movie houses are getting their post-86 subguns, four words... Title Two Manufacture License!! If we can't buy 'em,

we make 'em. Keep up the good work and thanks for the BAR article. Happy shooting everyone!!

Dan: I got a real nice mental picture from your description of the controversy in the gunshop, and this is a nice detail of the analysis process that goes on whenever anything strange shows up—an RKI here.

Phillip Bowman: I believe the Mystery Photo in the March '96 issue to be a trigger housing for a variant of the BAR known as the "Monitor," which was produced by Colt. A question about the magazine guards though. They have been secured with screws, unlike the ones machined in the housings of other BAR rifles. I read that this type of guard was on the 1918A2 as issued to troops during WWII. I could not find them on any other type of BAR or Monitor. Are they late or early types or just "add ons?" Thanks for answering.

Dan: An RKI to you, Phillip.

Skot Ingram: Hmmm...looks like a Colt Monitor (BAR) lower, with an added magazine guide rib (maybe a WWII A2 revision of sorts). The wood grips are a different shape than the D model and the grip angle is different than the Swedish version. Interesting as usual.

Dan: Another RKI.

Eugene Wollak: I just received the March issue of *MGN* and would like to take a shot at an RKI. I think the March 1996 Mystery Photo shows the trigger group from either an M1918A2 BAR modified with a pistol grip, or from a T34 Automatic Rifle. I base this on enough ignorance to be dangerous and the following process of elimination:

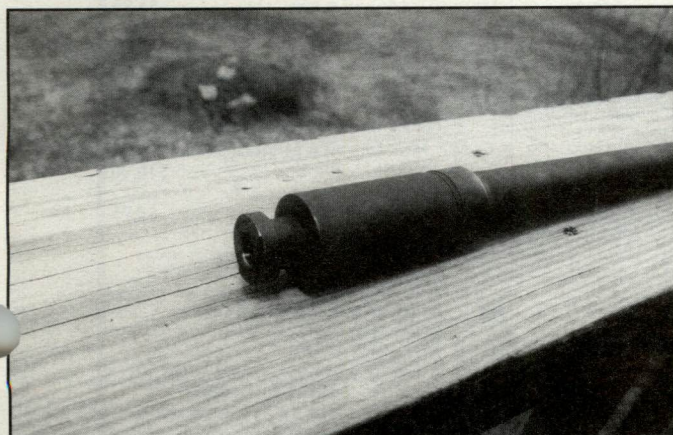
1. In all my photos of BAR variants,

only the M1918A2 has a left-side magazine guide rib that curves around to the base of the trigger housing. I have seen some that were integral with the housing and others that were attached mechanically as this one is. I don't think this is a modification of an M1918, M1918A1, M1922, or Colt Monitor, as these have a straight vertical rib projecting from the front of the housing which would have to be machined down to make the attachment. The FN Model D is different in this area, and in the shape of its pistol grip, from U.S. rifles.

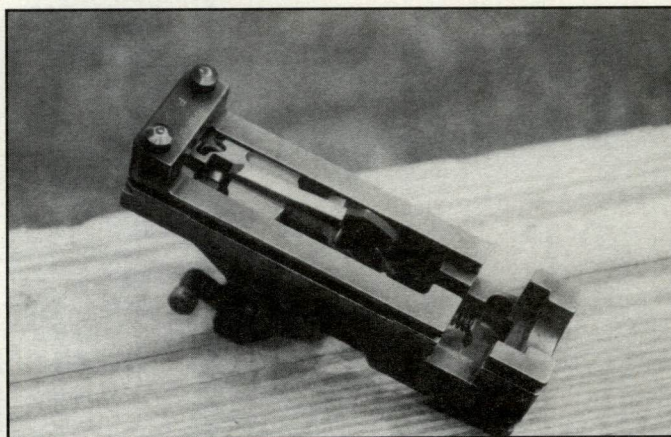
In his discussion of BAR's in *Machine Guns*, author Jim Thompson mentions wartime modifications to M1918A2's, and specifically pistol grips. In *MGN's* February 1996 coverage of the 1995 Fun & Freedom Shoot, there is a photo on page 46 captioned "Bob Spencer demonstrates how to fire a BAR M1918A2," and that weapon appears to have a pistol grip. Thus my first guess.

2. On the other hand, I don't know what that slot-shaped thing is forward of the magazine release button. It doesn't appear in any of my BAR photos, and its contrast with the surrounding finish suggests it is not original to the mechanism but a modification. Also, the selector lever pin aft of the trigger is missing. I can't tell from the photo whether the hold was filled in, but I assume it was because I've never seen a BAR without one. Although I don't have a photo of a T34 to compare, I know its starting point was the M1918A2, so I thought these features might be part of the conversion. Did the T34 have a single rate of fire?

On the slight chance that I am close, or the even slighter chance that I am right, I hope this qualifies me for an RKI. And



June 1996 Mystery Photo A.



June 1996 Mystery Photo B.

while I don't want anything I didn't earn, would my return address help me toward it at all?

John M Chudzik: Regarding your March Mystery Photo, I can only imagine that you are taking pity on us and wish to send out a lot of RKIs. At first glance, it would appear to be the trigger group from the FN Type D BAR on page 17 of the March issue. But that would actually be too easy; the length and shape are wrong. My guess is that it is actually the trigger group from a Colt "Monitor" machine rifle as shown on page 19. I also would guess that the trigger group has been modified to include the 1918A2 magazine guide ears as they do not appear to be part of the original machining as the later A2's had. I have seen two of these "Monitors" at gun shows and recall that they did not have the ears affixed.

I also note that there is a flange and pin installed forward of the trigger pin which does not appear on the sectional diagram. It would appear to be in a good position to interfere with the mechanism and act possibly as a lock-out device?

Dan: *Ta-Daaa! These are the best answers we received but nobody really nailed it. I was wondering if someone was going to notice the odd protrusion sticking up in the middle, and the flange and pin. This is a rate-reducing mechanism that was initially tried in a Monitor, and the ears were add-ons for the magazine.*

The following is a list of RKI's whose responses could not be printed due to lack of space.

Mystery Photo Roll of Honor

Doug Andrews
Ramsey Bear
Brad Brooks
Phil Blacher
John Chubbs Chupela
John Defibaugh
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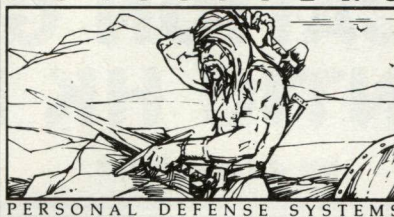
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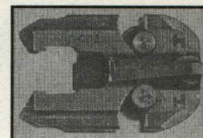
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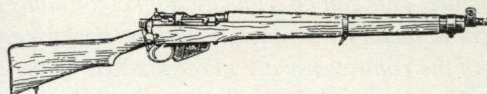
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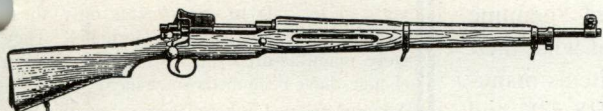
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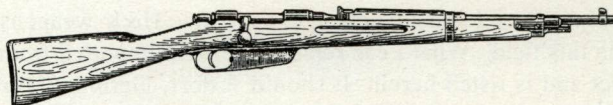
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IDENTIFICATION GUIDE TO AUTHENTIC HK PARTS

by Jim Schatz

MGN's loyal readers have been asking (more like demanding) for some type of guide to help them identify which parts of the HK weapon systems are original West German manufacture. This can be a touchy subject for many in the industry, as originality of parts is critical to factory warranty, as well as performance. Many of the parts that are in the middle of the controversy are never marked by the original manufacturers, which makes the identification procedure all the more difficult.

Jim Schatz is in the Federal Operations Department of Heckler & Koch Inc., and is well-known to the readers of MGN. In response to our requests for information on the markings, Jim submitted the following correspondence. This is an MGN special, which we hope will help those involved with the HK firearms accurately identify the items that they are purchasing and using.

One note: Most of the smaller parts are not marked at all, but the XX mark on hammers indicates that the hammer has been milled out on the right side for the 3-shot burst mechanism. The relieved area will interfere with this hammer functioning in a standard HK trigger housing, and an unmodified hammer will not function in a burst group trigger housing. Many of the newer West German burst hammers are marked with a "3" at the top left, denoting burst.

We hope to bring you more information like this in the future.

—Dan Shea

In response to your inquiry concerning authentic HK GmbH-produced parts and their markings, I submit the following information for your review and that of your readers.

As in everything, there are no absolutes in life. This same rule of thumb applies to this subject. There have been many changes over the decades that H&K has been producing weapons and I make no claim to be an expert in this field. What I can report to you is fact and is listed herein. It should provide good, solid guidance for the many H&K aficionados out there.

More important to law enforcement and military users is the information concerning the availability of substandard counterfeit parts, accessories and weapons that regularly become available on the U.S. market and fail in ways unimaginable for genuine H&K parts. These items are not built in accordance with official H&K design, production and quality assurance standards, and are not subjected to the governmental quality and proof-firing controls as those parts, accessories and weapons produced by HK GmbH and HK-UK.

Items that are not produced by the H&K factories in Oberndorf, Germany (known as "HK GmbH") and Nottingham, England

(HK-UK) are not considered "genuine H&K products," regardless of what their packaging may claim. Only items manufactured at HK GmbH and HK-UK and marked as "Made in Germany" and "Made in England" imported through our U.S. facility known as "HK Inc." are warranted, repaired or serviced by H&K. There were a few exceptions prior to 1980 where genuine H&K weapons, parts and accessories were imported from HK GmbH in Oberndorf, Germany, through SACO, through Harrington & Richardson (H&R) or through HK Inc. in Arlington (Arl), Chantilly or our current facility in Sterling, VA. HK Inc. will also not service or support weapons that were originally produced by HK GmbH, sold to a third party by the original customer as used and "reconditioned" by a firm other than H&K.

Rule of thumb: If "Made in Germany" (or "W. Germany") or "Made in England" and "HK Inc." or "HK," in "Arlington" ("Arl"), "Chantilly," or "Sterling, VA" is not present (stamped, rolled or engraved) on the receiver of the weapon, usually on the right side of the magazine well, it's not genuine H&K.

If counterfeit H&K weapons, parts or accessories are sent to HK Inc. for service

BUYER BEWARE DO NOT BE FOOLED BY LOOK-ALIKES

There are a lot of look-alike products being sold today that are not produced by HK. There are also used MP5s available that were not reconditioned by HK, GmbH or imported by HK, Inc. Here are some important markings to look for: German export law requires that "Made in West Germany" or "Made in W. Germany" appear on the firearm. This usually appears on the magazine well and reads:

Made in W. Germany
HK Inc.

Sterling, Va. (Older models may say Chantilly or Arlington, Va. or indicate SACO as the importer.)

HK weapons will also be stamped "HK-MP5" without acceptance/proof marks. If the firearms say just "MP5" and does not state where it was made, you can be sure it is not a genuine HK product, and it does not meet HK specifications and quality-control requirements.

In regard to the used MP5s currently being advertised for sale to departments only, these weapons will say "Made in Germany." They were manufactured during 1970-74. Design changes have been made since then.

Advertisements for these firearms state that they have been "factory reconditioned." However, HK, GmbH **did not** do this work, and these weapons may not meet HK or GmbH's specifications and quality-control requirements.

Buyers must understand the following:

- * HK's warranty **does not** apply to these firearms.
- * HK, Inc. **will not** repair these weapons.
- * HK, Inc. will not supply parts or accessories for these weapons.
- * If accessories or parts are obtained commercially for these weapons, **they may not fit properly.**

In order to obtain all of the benefits that Heckler & Koch Inc. gives you when purchasing new HK products, please insure that you are dealing with an authorized HK dealer or representative

or replacement and are determined not to be "genuine H&K," they will immediately be returned to the customer without action. H&K will not service or warranty any product that it has not produced just as Colt would not service, warranty or take responsibility for, let's say, Steyr products. For good reason, too. We have heard of and seen H&K-style counterfeit parts from these licensee's that had failed prematurely, many times in weapons belonging to

MARKINGS ON THE MP5

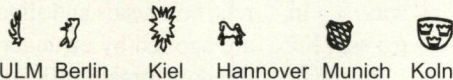
- ① Company Name—HK
- ① Model—MP5/MP5SD/MP5K/MP5SF/MP5-N/MP5-40/MP5-10
- ① Serial Number—Prefix of letter or two-digit weapon identifier
- ② Quality Control Stamp—Eagle with "N" for nitro cellulose
- ② Date Code—

A	=	0	F	=	5
B	=	1	G	=	6
C	=	2	H	=	7
D	=	3	I	=	8
E	=	4	K	=	9



J is reserved for Proof house use and on HK parts not required to be proof tested such as magazine housings.

- ② Proof Mark—Six Proof Houses in Germany. ULM is utilized by HK



ULM Berlin Kiel Hannover Munich Koln

- ③ Caliber—9mm x 19 / .40 S&W / 10 mm
- ④ Place of Manufacture—Made in W Germany or Made in Germany
- ④ Place of Import—SACO, Arlington, Va.
HK, Inc. Arlington, Va.
HK, Inc. Chantilly, Va.
HK, Inc. Sterling, Va.

Legend

- ① Located on top of the receiver between scope mounts.
- ② Located on top of receiver between rear scope mount and rear sight.
- ③ Located on the left side of the magazine well.
- ④ Located on the right side of the magazine well

law enforcement customers who thought they were buying genuine HK GmbH-produced products. Bought at a great price to find out later that not only were the items genuine H&K but there was no one to go to resolve their problems. Things like broken hammers, locking pieces and even locking rollers: parts that are normally so durable that we believe they are made from the same material as woodpecker lips!

Lives were put on the line unsuspectingly by a fly-by-night importer trying to make a fast buck. The adages of "You really do get what you pay for" and "Buyer beware" apply perfectly here.

Since 1959, HK GmbH has licensed fourteen manufacturing facilities throughout the world to produce "H&K weapons" for the host country specifically for use within the confines of that country for po-

MARKINGS ON THE HK RIFLES

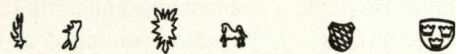
- ① Model—G3, HK33, HK33K, HK53, MSG90, PSG1, etc.
- ① Serial Number—Prefix of letter or two digit weapon identifier
- ① Company Name—HK
- ① Caliber—7.62 x 51 mm and 5.56 x 45 mm
- ① Quality Control Stamp—Eagle with "N" for nitro cellulose
- ① Date Code—

A	=	0	F	=	5
B	=	1	G	=	6
C	=	2	H	=	7
D	=	3	I	=	8
E	=	4	K	=	9



J is reserved for Proof house use and on HK parts not required to be proof tested such as magazine housings.

- ① Proof Mark—Six Proof Houses in Germany. ULM is utilized by HK



ULM Berlin Kiel Hannover Munich Koln

- ② Place of Manufacture—Made in W Germany or Made in Germany
- ② Place of Import—SACO, Arlington, Va.
HK, Inc. Arlington, Va.
HK, Inc. Chantilly, Va.
HK, Inc. Sterling, Va.

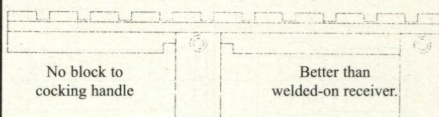
Legend

- ① Located on the left side of the magazine well.
- ② Located on the right side of the magazine well

MP5 Rail TM \$150

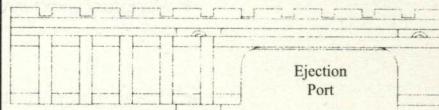
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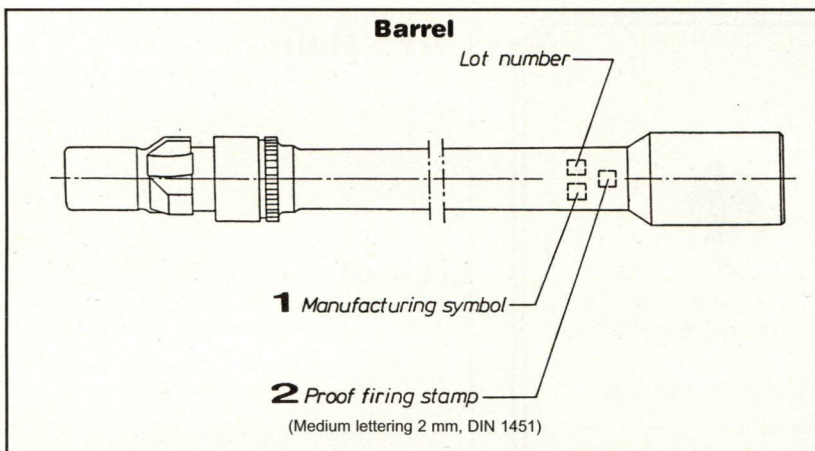
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lice and/or military use. These countries include Thailand, Columbia, Greece, Pakistan, Mexico, Iran (when the Shah was in power!),

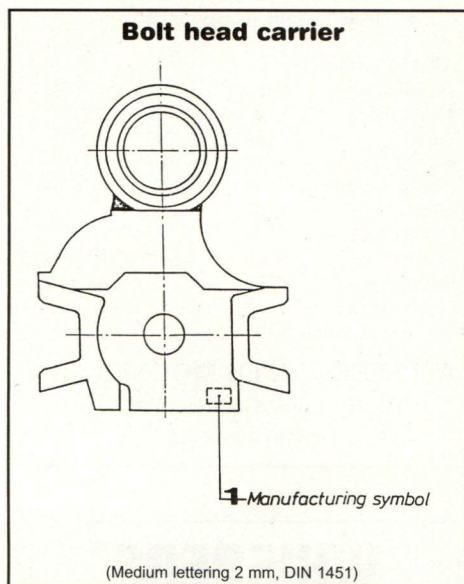
lished and producing weapons, they were free to produce the weapons from whatever materials they chose, using any method of production and quality assurance standards (if there were any at all) decided upon by the host country. The weapons and parts produced at HK GmbH and HK-UK and the materials used in their construction are closely monitored by governmental officials from Germany and the UK who are on-site at these facilities each working day.

The proof markings you see on the barrels, bolt heads and slides of H&K firearms are applied by or under the supervision of the government officials from Germany or the United Kingdom once they have been proof fired and inspected in accordance with strict production standards as outlined in H&K's Technical Terms of Delivery (TTD). The drawings attached are from the TTD for the MP5 and provide detailed standards for the materials and methods used to produce and inspect the weapons before they can be released for shipment. H&K maintains current TTD's for all of the weapons it produces. The Technical Terms of Delivery are truly H&K's production and quality assurance "bible."

HK GmbH has little hope of preventing the licensees from exporting their counterfeit H&K products as the license agreement is between the German government and that of the host country. It would be like trying to sue the country of Iraq for the deaths of American servicemen lost during the Gulf War. Many of the licensee countries, in need of hard currency, capitalize on the good reputation of and the demand for the "H&K product" by exporting the counterfeit weapons they produce in violation of the licensee agreement.

Enough on the boring background information. How can readers identify genuine H&K parts and weapons? The attached pages describe the genuine HK GmbH and HK-UK markings and their locations on the weapons. These markings (remember there are always exceptions to every rule!) are generally the same for genuine H&K submachine guns, rifles and machine guns. Weapons produced at HK-UK have the "EN" prefix before the serial number, which stands for "Enfield," and their proof mark is a crown with "LPN" over a two-numeral year stamp (i.e. "89") found the barrel and or barrel extension. All weapons are marked as such. Unfortunately all parts are not.

Those parts that are proof marked are

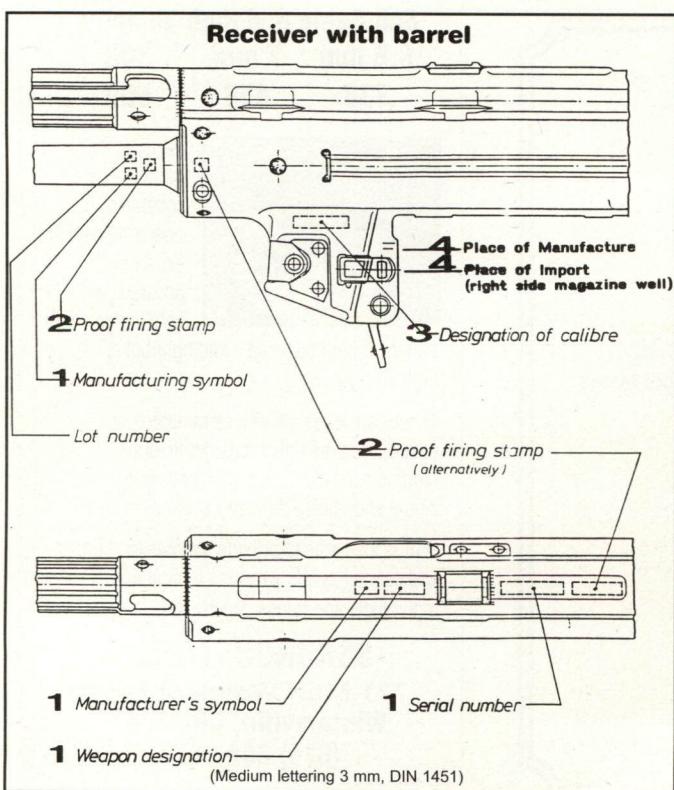


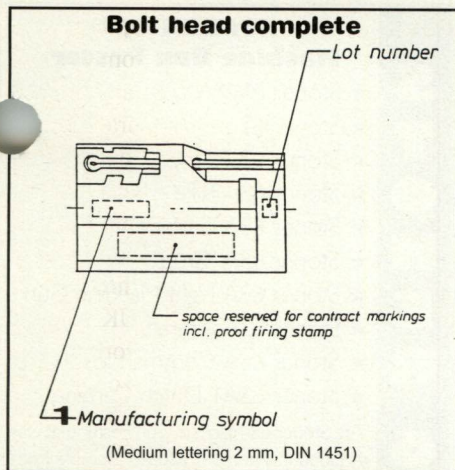
Turkey, Norway, Burma, France, Portugal, Saudi Arabia, Sweden, and the United Kingdom. This license agreement was between the governments of Germany and the host country and prohibited (at least in theory) the host country from producing weapons, parts or accessories for export. To my knowledge, with the exception of the production facility in England (HK-UK) which is run by HK GmbH, there have been no exceptions. Contrary to some reports, H&K has never employed and does not employ any of these licensee's to manufacture or supply any component parts, accessories or complete weapons whatsoever for sale by HK GmbH, HK-UK or HK Inc.

HK GmbH received either royalties for the production of these items at the licensee plant or lump payment for providing the

machinery and know-how for the host country to produce these weapons for official internal use. This arrangement was a requirement of the customer for H&K to sell the G3 rifle or other weapons to the host country and would be similar to the Beretta M9 being adopted by the U.S. Armed Forces with the stipulation that it be built in the United States as part of the terms of the contract. This arrangement is often referred to as a "turn-key" operation: we set it up and when it's done, we turn the keys to the plant over to the happy customer.

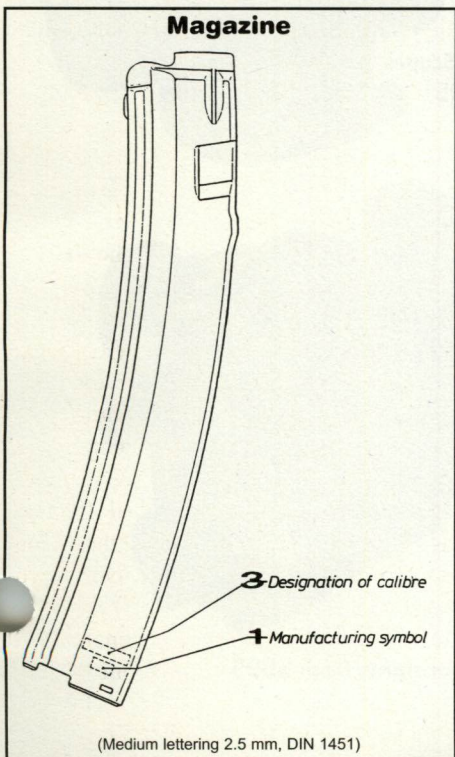
Once these licensed facilities were estab-





all pressure bearing parts such as barrels (or receivers/frames with barrels fitted to them), receivers, bolt heads, pistol slides, etc. Look for one of the German or UK proof marks on the parts as described on the attached pages. These pressure bearing components as well as magazine housings, bolt carriers and a few other assorted parts are marked with the month and year (8/89). This was changed in the early 1980's to the two-letter date code described on page 28. Ironically enough, it is this date code that is most often added to counterfeit parts by the licensee or importer trying to pass the parts off as genuine HK GmbH or HK-UK parts.

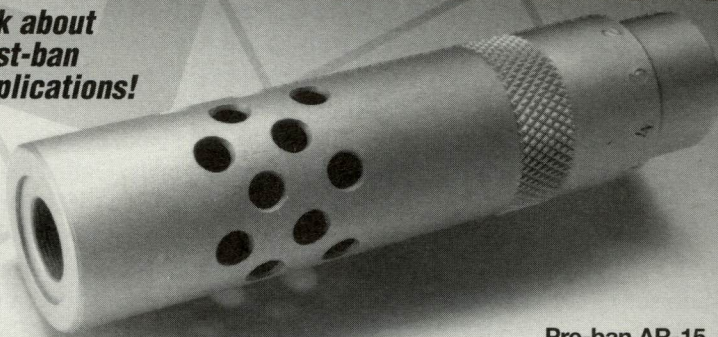
A few years back, a company that shall remain nameless was importing hundreds of thousands of dollars worth of counterfeit H&K parts from one of the worst



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abusers of their license agreement with HK GmbH, the government run Pakistan Ordnance Facilities (POF). These parts included MP5, MP5K and HK33 bolt carriers and magazines.

The importer tried unsuccessfully to convince the U.S. Customs Service that the parts were German-made and even had POF add the HK GmbH-style letter date code to the parts prior to shipment. Not only were the letters etched on the parts, a production process not used at HK GmbH, but they were not even of the correct size of type style. So much for those parts. They're now probably melted-down paperweights in Bethlehem, PA!

The H&K licensee in Greece, Hellenic Arms Industry (EBO), is another one of the more commonly encountered suppliers of counterfeit H&K parts. There were MP5's imported from Hellenic that were sold to American law enforcement customers where the assembly groups would not even interchange between guns. Genuine H&K magazines and accessories purchased by the customer for use with these MP5's would not fit into or onto these weapons because of the poor tolerance and quality controls applied during the production of

these items. Don't even ask how the weapons worked, when they did work!

As for the smaller parts like extractor springs, firing pins, etc., beware! They are not marked for obvious reasons but most importers would find little profit in importing such inexpensive items such as these. More commonly found are the larger, assembly group items like bolt components and magazines that bring good returns for the importers efforts.

The H&K Weapons System is imported and supported in the United States only by Heckler & Koch Inc. of Sterling, Virginia. A product bought through HK Inc. or one of our many H&K authorized dealers, distributors or law enforcement specialists is genuine H&K, the real thing, produced in historic Oberndorf, Germany or Nottingham, England! If you buy from someone else, beware! We have made a commitment decades ago to support our product sold in the United States and we stand ready at all time to do just that. As we say, "In the world of compromise, some don't." Buying an H&K-like product of questionable origin from someone else is compromise at best, more like a risk.

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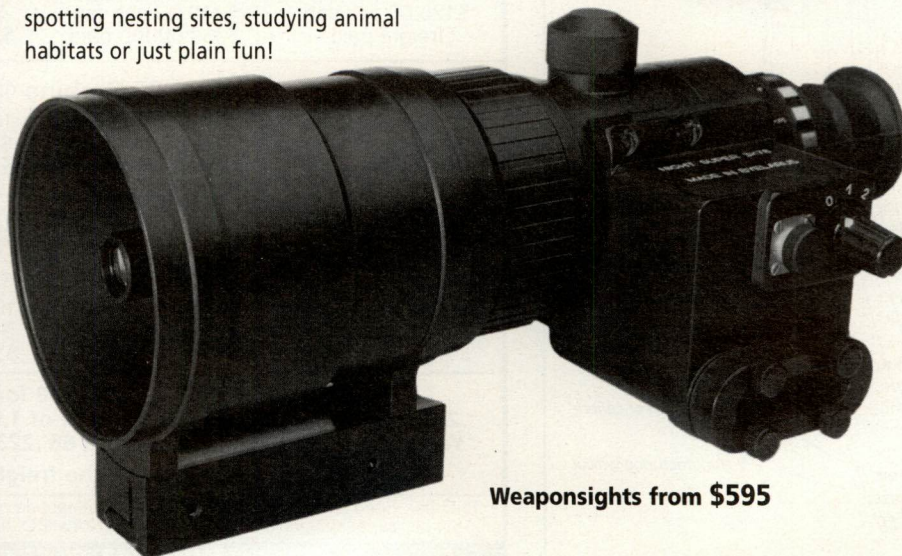
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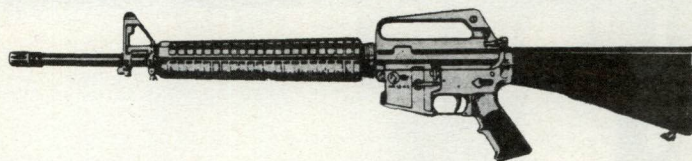
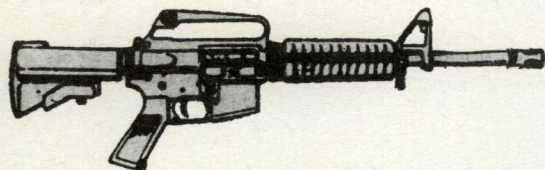


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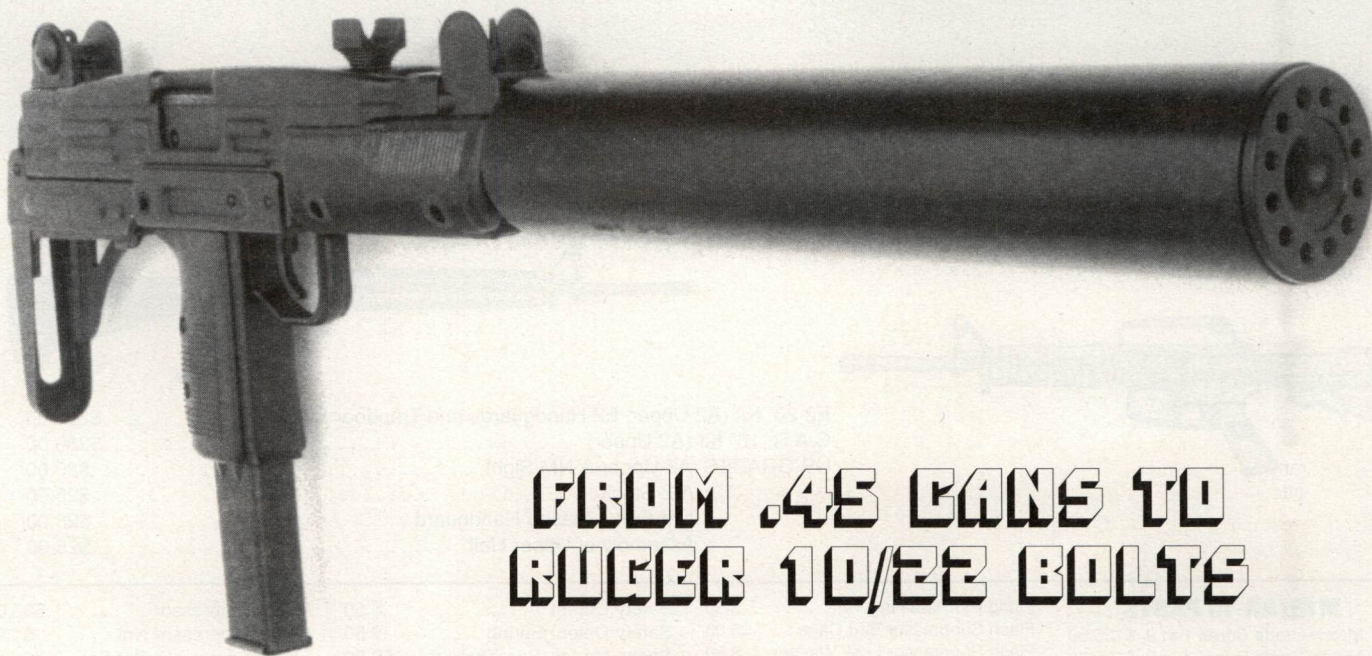
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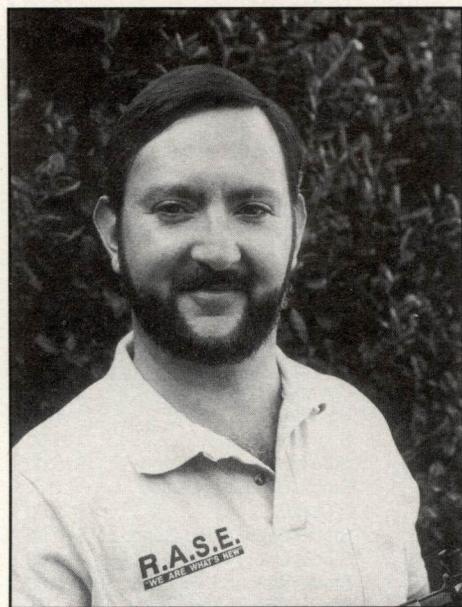
R.A.S.E. INNOVATION:



FROM .45 CANS TO RUGER 10/22 BOLTS

by Al Paulson

I've learned a lot from Ralph Seifert over the last few years. A former research engineer at Grendel, Seifert is the owner of R.A.S.E., an innovative Class 2 manufacturer specializing in suppressors as well as .45 ACP conversions for the AR-15 and M16. While folks who know him tend to

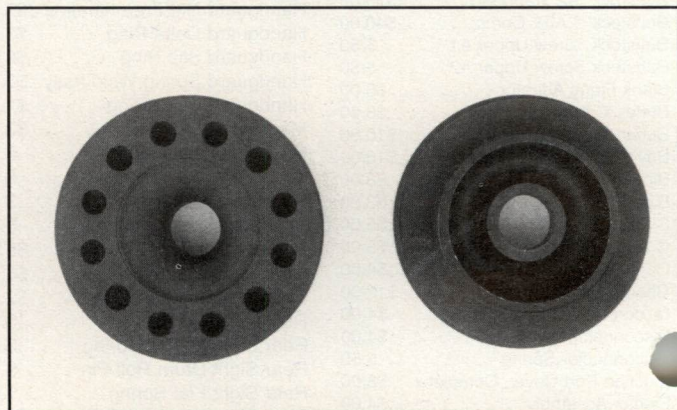


A former research engineer at Grendel, Ralph Seifert is the owner of R.A.S.E., an innovative Class 2 manufacturer specializing in suppressors as well as .45 ACP conversions for the AR-15 and M16.

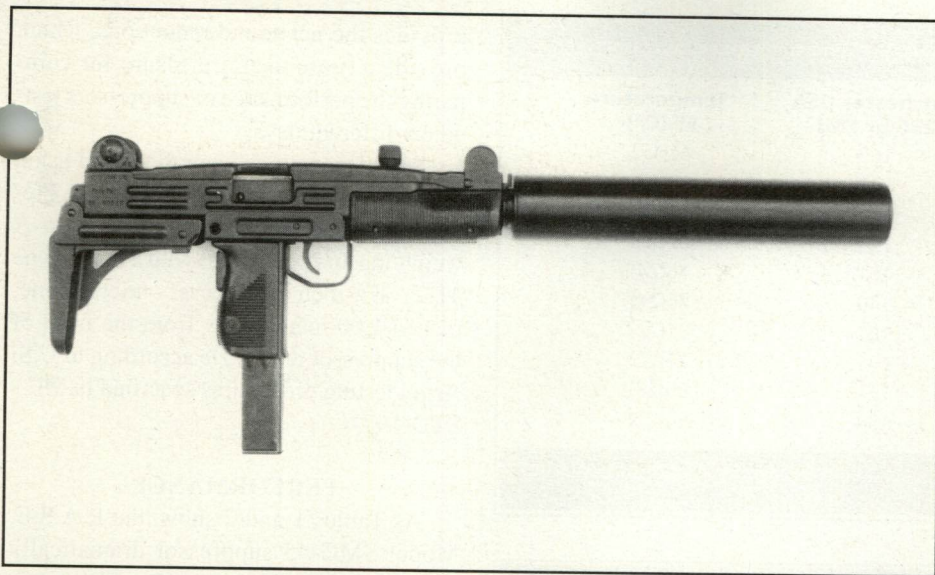
describe Seifert with words such as "personable" and "gracious," I particularly enjoy dealing with him because of the stimulating way his mind works. Seifert delights in approaching technical problems from a fresh perspective. Furthermore, he's willing to share his expertise with other manufacturers, several of whom have incorporated his ideas into their product lines. This article will explore two very different examples of the technical innovation Seifert brings to the table: a superb suppressor for the Ingram M10 .45 ACP submachine gun; and his simple yet invaluable bolt modification that can dramatically improve the reliability of suppressed and unsuppressed Ruger 10/22 rifles—especially with standard velocity and subsonic ammunition.

R.A.S.E. submachine gun suppressors are a coaxial design superficially similar to Dr. Philip Dater's classic MK-9 suppressor. Drawing on earlier work by Dater and adding his own experience as a design engi-

neer, Ralph Seifert developed coaxial suppressors that do not generate the distinctive ring sometimes experienced with competing coaxial designs. This ringing is caused when combustion gases vent from the primary expansion chamber into the outer coaxial tube, causing an additional component to the weapon's sound signature that sounds like a "clank" to the shooter. The inner tube of Seifert's design contains a primary expansion chamber just in front of the muzzle terminated by a structure he calls a *gas reverser* and then a baffle stack, all of which is surrounded by a secondary expansion chamber.



Details of the front and back surfaces of the R.A.S.E. reflective front end cap. Note the numerous sets of holes in the front end cap, which provide redundant attachment points for a takedown tool should one or more sets of holes eventually wear after repeated disassembly.



The Uzi variant R.A.S.E. SMG-9 suppressor mounts on this weapon by replacing the barrel-retaining nut.

A particularly innovative feature of Seifert's design is a spiral structure shaped like a double helix in the outer tube. Seifert calls this double helix a *centrifugal gas separator*. It partitions gas based on velocity, so the gas cannot escape from the outer coaxial tube until a considerable amount of energy is lost. Furthermore, this double

other design features, the double helix gives R.A.S.E. muzzle cans a softer sound signature than competing designs.

The inner and outer suppressor tubes, and the front end caps are constructed of 6061-T6 aluminum which has been bead blasted and finished in black anodizing. The baffles are 18-8 stainless steel and the

**Furthermore, he's willing to share his expertise
with other manufacturers, several of whom
have incorporated his ideas into their product lines.**

helix simultaneously contacts both the inner and outer coaxial tubes, which probably helps deaden the ringing of the tubes, similar to holding your finger on a small bell when it is rung. When combined with

mount is blued 4140 tool steel. These robust suppressors have a comparable length but slightly larger diameter than Dater's MK-9 suppressor, which is a 9 mm design. All R.A.S.E. 9 mm submachine gun sup-

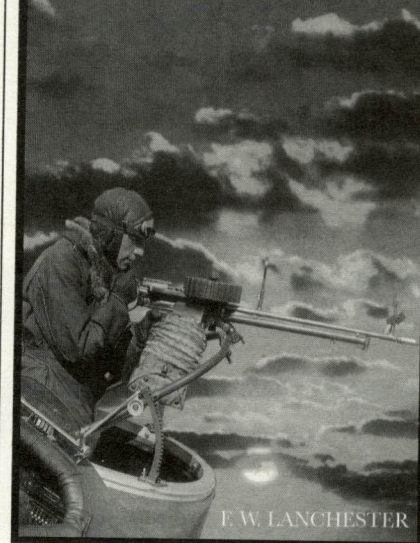


The R.A.S.E. SMG-45 suppressor dramatically outperforms other .45 ACP suppressors tested in this study.

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Table 1. Sound signatures in decibels of .45 caliber submachine gun suppressors.

Gun	Suppressor	Winchester USA 230 gr FMJ	Temperature, F° (C°)
Reising Model 50	None	159	62(17)
Reising Model 50	Maxim Model 1910	137	62(17)
Ingram M10	None	162	62(17)
Ingram M10	Cobray M10 .45	143	62(17)
Ingram M10	None	161	76(24)
Ingram M10	Cobray M10 .45 ^a	140	76(24)
Ingram M10	None	161	71(22)
Ingram M10	Cobray M10 .45 ^a	141	71(22)
Ingram M10	None	161	80(27)
Ingram M10	R.A.S.E. SMG-45	134	80(27)

^a Rebuilt by AWC with Dater stainless steel baffle stack and reflective front end cap replacing WerBell-style spirals and wipe

Table 2. Net sound reductions in decibels produced by .45 caliber submachine gun suppressors.

Gun	Suppressor	Winchester USA 230 gr FMJ	Temperature, F° (C°)
Reising Model 50	Maxim Model 1910	22	62(17)
Ingram M10	Cobray M10 .45	19	62(17)
Ingram M10	Cobray M10 .45a	21	76(24)
Ingram M10	Cobray M10 .45a	20	71(22)
Ingram M10	R.A.S.E. SMG-45	27	80(27)

^a Rebuilt by AWC with Dater stainless steel baffle stack and reflective front end cap replacing WerBell-style spirals and wipe

pressors have from 12 to 15 baffles, an outer diameter of 2.2 inches (5.6 cm), range in length from 12.12 to 12.5 inches (30.8 to 31.8 cm) depending on the mount, and weighs from 30 to 35 ounces (851 to 992 grams) also depending on the mount. The variant with a mount designed to replace the barrel-retaining nut on the Uzi submachine gun is 12-7/16 inches (31.6 cm) long, weighs 30.3 ounces (859 grams), and features 14 baffles plus the gas reverser. The R.A.S.E. .45 caliber suppressor is also 12-7/16 inches long, but it weighs 35.6 ounces (1,009 grams), employs 13 baffles plus the gas reverser, and features case-hardened threads for mounting on the coarse threads of the Ingram submachine gun.

While the R.A.S.E. is one of the largest and heaviest submachine gun suppressors in the marketplace, it handles very well on Ingram-type submachine guns and acceptably well on the Uzi, which are the only submachine guns I've personally used with R.A.S.E. muzzle cans. Is the R.A.S.E. suppressor's bulk a fair trade in terms of its sound suppression? I tested the can to find out, and compared its performance to a number of other .45 caliber suppressed systems.

TESTING PROCEDURES

Unsuppressed weapons were tested on each day of research as a control or benchmark, since temperature and other environmental variables affect the burning characteristics of gunpowder, which may cause some day-to-day variation in unsuppressed and suppressed sound signatures. The data of suppressed and unsuppressed sound signatures in Table 1 represent the mean (average) value of at least 10 shots. Table 2

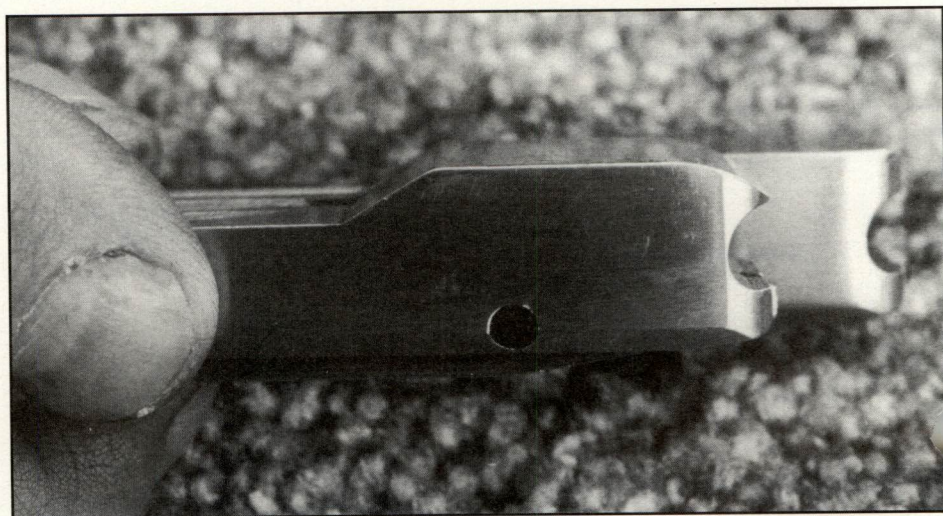
provides the net sound reductions, which provide a more useful measure for comparing the performance of suppressors tested on different days.

Sound signatures were measured using a Brüel and Kjaer Type 2209 Impulse Precision Sound Pressure Meter (set on A weighting and peak hold) with a B&K Type 4136 1/4-inch condenser microphone, placed 1.00 meter away from the front of the suppressor or muzzle according to U.S. Army testing procedures specified in MIL-STD-1474C.

PERFORMANCE

As Tables 1 and 2 show, the R.A.S.E. Model SMG-45 suppressor dramatically outperforms every other .45 caliber muzzle can tested to date. Considering that the decibel scale is logarithmic rather than linear, the 27 dB reduction provided by the R.A.S.E. can clearly leaves the other suppressors in the dust. Even the new .45 caliber SOCOM pistol can apparently only delivers a 24 dB reduction. What the numbers don't show is that the R.A.S.E. suppressor really helps to tame the .45 caliber Ingram in terms of shot dispersion, which provides a considerable advantage whether the submachine gun is being used for sporting or tactical applications. The R.A.S.E. SMG-45 is my favorite suppressor for the Ingram M10 .45 caliber submachine gun.

While Seifert's .45 can is a superb performer, I'm personally getting a lot more use out of Seifert's solution for improving the reliability of Ruger 10/22s of all persuasions: unsuppressed rifles, integrally suppressed rifles, rifles with muzzle cans, short-barreled rifles, and even Norrell se-



The rear of the Ruger 10/22 bolt in the foreground was chamfered by hand to generally conform with Ralph Seifert's technique for improving reliability.

lect-fire conversions. Since the entire bolt, bolt spring and follower subsystem can spawn interrelated problems, a bit of back-sound is necessary to place Seifert's solution in context.

IMPROVING THE 10/22 BOLT, BOLT SPRING AND FOLLOWER

The main operating (recoil) spring is a weak point in the design of the Ruger 10/22. The fit between the operating spring and its spring guide is tight, creating friction that wastes some of the energy available to cycle the bolt. The spring is normally a bit stiff. This is usually acceptable in an unmodified 10/22, but the spring can be too stiff for some suppressed systems, depending on such factors as porting, suppressor volume and baffle design. If one continues to experience feeding problems, removing a coil or two from the operating spring might help. Do not, however, make any changes to this spring if feeding is not a problem.

The best way to remove a few coils is to use a cutting wheel on a Dremel tool. The springs are usually quite soft as springs go, and are easy to work. Compress the spring with the bolt handle and buff the exposed portion of the shaft to make it slick. Buff only that portion of the spring guide that rubs against the hole in the bolt handle.

A more expensive but interesting alternative is to replace the factory spring-guide-handle assembly with a titanium Power Custom extended bolt handle, which features a lighter (4 ounce; 113 gram) spring with polished guide rod and a longer, curved bolt handle that's easier to grasp when charging or clearing the chamber (available as part #713-301-103 from Brownells, 200 S. Front Street, Montezuma, IA 50171-9989, phone 515-623-5401, fax 515-623-3896). A nice touch with this system is that economical replacement springs can be fitted to the assembly.

Ralph Seifert has come up with a simple bolt modification that can eliminate the need for using a shortened recoil spring in suppressed Ruger rifles and pistols. The technique also works when using low-recoil-impulse rounds with unsuppressed delayed blowback arms in general, and can even improve the reliability of the Colt Model 1911 .45 pistol and its descendants. Seifert points out that the hammer in delayed blowback firearms provides a considerable amount of the mechanical resistance to rearward bolt travel as extraction



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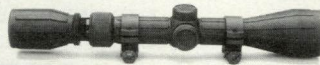
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begins. The hammer operates as a lever against the resistive force of the hammer spring. Anything one can do to apply the rearward force of the bolt farther up the lever (i.e., hammer), away from its pivot point, will provide more leverage against the hammer spring.

This means that the bolt loses less momentum to the hammer spring so it has more momentum to compress the main operating spring. Applying these principles to the Ruger 10/22 rifle, Seifert chamfers the bottom rear edge of the bolt with a 45-degree bevel across the entire rear of the bolt. When modifying a Ruger Mark II pistol, he chamfers the bottom rear section of the bolt just below the firing pin.

While this may not provide a stand-alone solution to cycling reliability, Seifert's bolt modification can dramatically enhance other strategies such as polishing the bolt. It still may be necessary with some combinations of barrel, ammunition and suppressor design to shorten the recoil spring. But if the bolt is chamfered as Seifert suggests, it will not be necessary to remove as many coils from the main operating spring. The resulting spring will be longer and will provide more reliable feeding and chambering. If one is experiencing problems with bolt cycling, I highly recommend trying Ralph Seifert's technique.

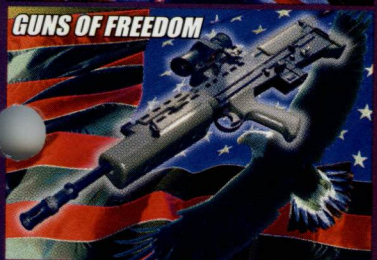
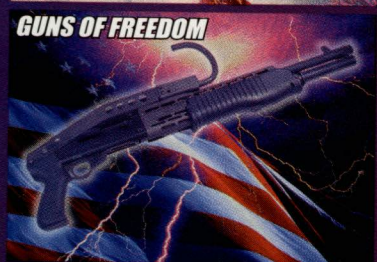
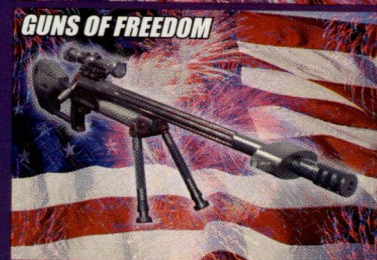
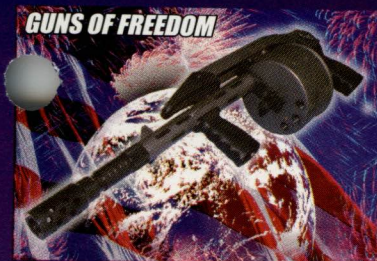
Mark White of Sound Technology is so impressed with Seifert's modification that he adds this chamfer to every Ruger 10/22 bolt that goes through his shop. I have gradually added this modification to all of my own 10/22s as well. This chamfer is especially desirable on John Norrell's select-fire 10/22 rifle, although special care must be taken not to destroy the heavily modified bolt. Combined with polishing the bolt and follower, Seifert's bolt modification enables Norrell's select-fire 10/22 to function reliably with a much wider range of ammunition. Dr. Philip Dater of Gemtech has just tried Seifert's bolt modification, and he likes it too. It looks like Ralph Seifert has developed an influential innovation for the Ruger 10/22.

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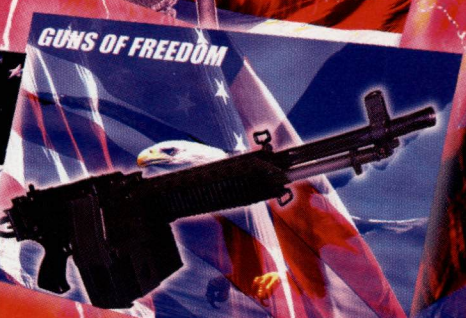
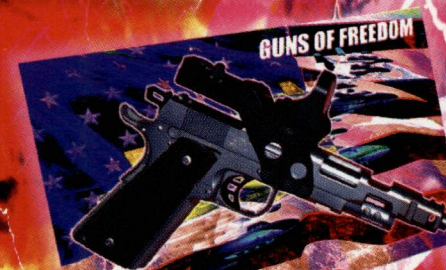


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SHOT SHOW 1996 REVIEW

Text and Photography by Jim Bonis

DATELINE DALLAS!

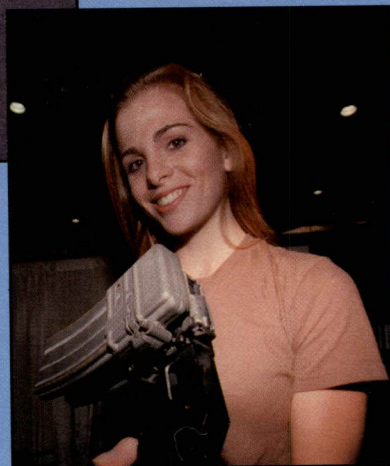
The 1996 Shot Show opened with high expectations that this year would bring a turnaround from '95s dismal sales figures. The accessory market carried a lot of dealers in 1995, as gun buyers bought leather and camo and the like. This gave the accessory market a big sales boost and those manufacturers and related widget makers were anticipating another healthy year.

The NSSF (National Shooting Sports Federation) is the sanctioning body for the Shot Show, and they have a vested interest in the health of the firearms industry. In spite of this, they inexplicably denied booth space to many companies, including *Machine Gun News* due to their concern about main-



Above: L.A.R. Corporation has raised fifty-caliber woodwork to the state of the arts. Their big .50 now features a custom laminated woodstock that is actually remarkably comfortable to hold even though you'd cry the first time you dinged it.

Right: Boonie-Packer Products has the ready-mag on the market. It holds an extra 20- or 30-round magazine right next to the loaded magazine on a standard AR-15 or M16 receiver without any modifications to the gun. It's a great feature for people in the action combat machine gun competition.



Gun Power Corporation of Great Britain introduced their .177 caliber air rifle featuring a laser sight and the scariest cosmetics they're legally allowed to have in Britain. The compressed air tank on the back looks like standard issue splatball equipment.



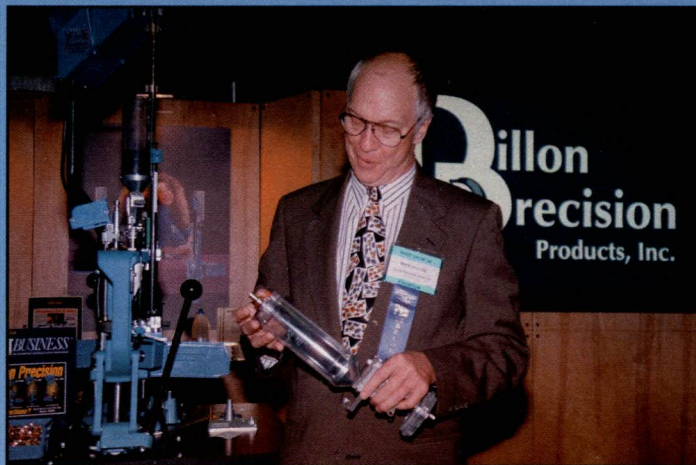
The coolest new toy at the show award goes to LaserMax's new, laser-sighted laser weapon. The cartridges inside give a burst of light which is intensified by the tube on the front.

taining a "sporting atmosphere." (In deference to their sensibilities, I told them I would keep my bandolier of .50 cal. APIT under my photo vest, and not wear my kevlar helmet on the show floor.) I think they realized the errors of their ways, as they announced some changes in this area for next year.

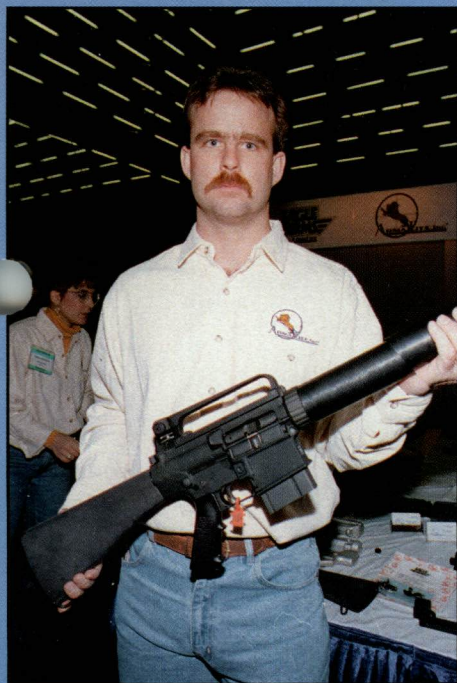
This oxymoron of "sporting only" is a major irritant to many exhibitors, particularly those who have significant law enforcement ties. I spent most of my time wedging my slightly overweight 6'2" frame into cramped backspaces behind booths to see all the really innovative stuff that wasn't out for public display. At next year's Shot Show (Las Vegas, Jan 30-Feb 2) the NSSF will allow the display of law enforcement merchandise, and this should make things significantly more exciting in

that this is the area where most of the innovation is happening.

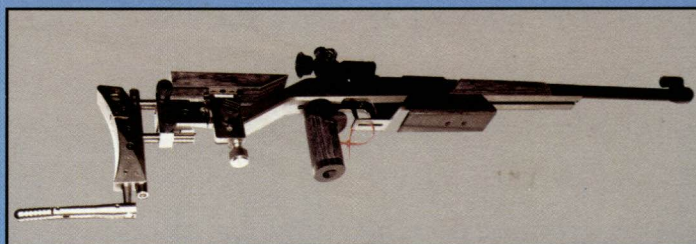
The show was immense. There were 1450 exhibitors filling 433,000 square feet of exhibit space. The show is one of the twenty largest trade events in the world. It has grown from primarily hunting and guns to include apparel and almost every shooting sports related accessory you can dream of. If you were there for every second the doors were open at this four day event, you could only spend 1 minute and forty seconds at each booth. With some manu-



Dillon Precision President, Mike Dillon, holds the new, low-powder level indicator that is available as an accessory to any existing Dillon reloader. When the powder level drops too low, the light winks and the alarm sounds. It beats the heck out of having to go back and junk a load of ammo because you don't know whether the last ten cartridges have got any powder in them.



Eagle Arms/Armalite introduced a new .308 caliber semi-auto rifle, their model AR-10.



Walther Corporation of Germany introduced a new .22 long rifle, sniper training rifle. It really is adjustable to just about any human that wants to hold it and the trigger pull is measured in grams rather than in pounds.



Midway Corporation also introduced a new series of stainless steel case-length gauges. If you've ever got 8 mm mixed up with your .308, you'll appreciate having one of these laying next to your reloading bench.



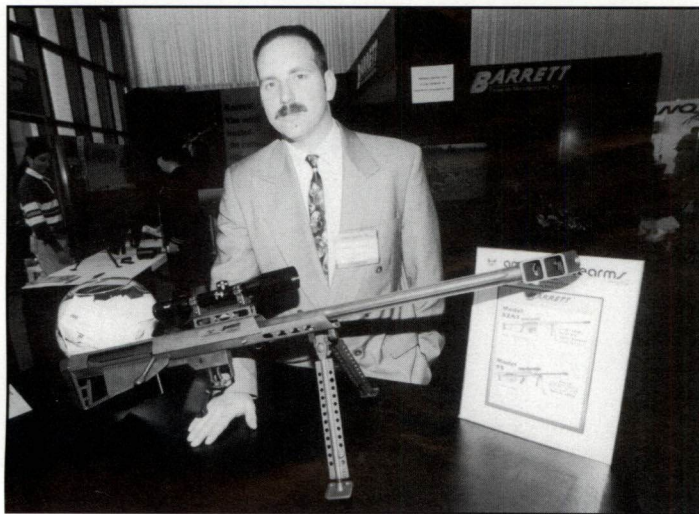
Master silencer maker, Jonathan Arthur Ciener displays his custom pistol riflestock. Along with a full line of suppressors, Ciener makes sub caliber inserts for .22 long rifle versions of the M16 and AR-15, Mini-14 and several pistols.



Hi-Point salesperson Kelli Day holds the new Hi-Point 9 mm semi-auto. It is somewhat similar to an Uzi with the magazine feeding through the pistol grip and standard blowback design. You can see how compact the gun is and the ergonomics are remarkably good.



Dave Eliason of Bushmaster Firearms proudly holds their new 7.62 x 39 AR-15 upper.



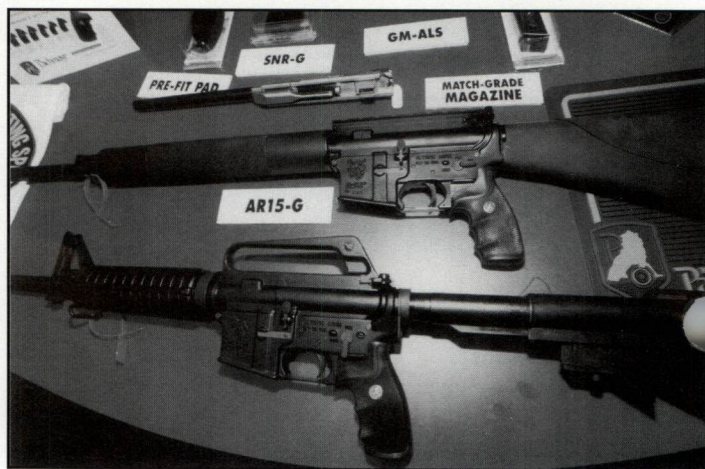
Barrett Manufacturing Manager, Barry Lambert, smiles beside his bolt-action, .50 caliber bullpup rifle. Their number is (615) 896-2938.



If you just can't find those replacement 20 mm projectiles, Dangerous Dave of the Old Western Scrounger has that and just about every other obsolete, hard-to-find part and component you can think of. His number is (916) 459-5445.



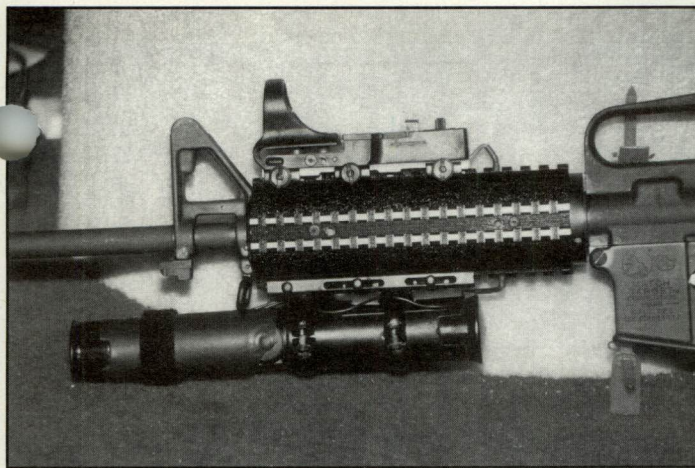
Winchester has introduced a new virtual-reality trap shooting setup. The neat thing about this is that it exposes the video arcade crowd to the shooting sports. The bad thing about this is that Charles Schumer will point out that once we have this, we really no longer need guns for any sporting purposes.



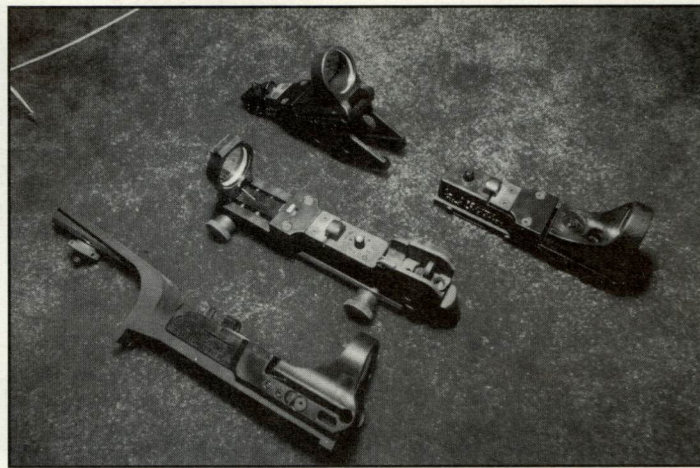
Pachmayr Corporation has introduced new pistol grips that fit AR-15/M16 style rifles. It's nice to see the accessory market moving to support Class 3 guns.



Brad Domagala, dealer liaison for Avis Sports is a good guy to know, if you're interested in upgrading your dealership. They have marketing, merchandising, and touring programs that can help dealers get about the business of marketing for the 90's. His number is (919) 726-6186.



C-More Systems has introduced a new forearm version using the Pickatinny rail system. It looks like a bit of a knock-off of the Knight's Armament rail interface system. On the top is a C-More sight, on the bottom is a foldable flashlight prototype. C-More has rounded out their laser sighting system.



At lower left, the prototype version of the C-More Systems Colt/AR-15 weapons mount. In the center is the standard Weaver rail weapons mount. At the top of the photo is the pistol mount. On the right side is the economy version of the Weaver rail mount.

THE SHOW

facturers exhibiting over 600 products, it works out to about a second or so for each item on display. Further complicating things is that the halls are not divided by product category. The moral is that you need to plan who you want to see, or you will get on the plane to leave and realize that you missed three halls altogether.

Laser Max had a neat "light" machine gun on display that literally was a Buck Rogers style beam gun. Instead of bullets, they had approximately 9 mm diameter cartridges that emit a flash which is directed through an intensifier tube and focused laser style. It would blind an opponent and do a major number on night-vision equipment, but its main benefit may be in psychological control of nonlethal crowd/riot

situations. They also had a new green laser that was significantly brighter than the red wavelength in daytime use.

Situation simulation technology was out in force, with Winchester's virtual reality trap and skeet set-ups, and F.A.T.S' projected systems with the subject matter on laser discs. You shoot a light beam out of a toy gun at the screen and the computer keeps score. The realism is stunning,

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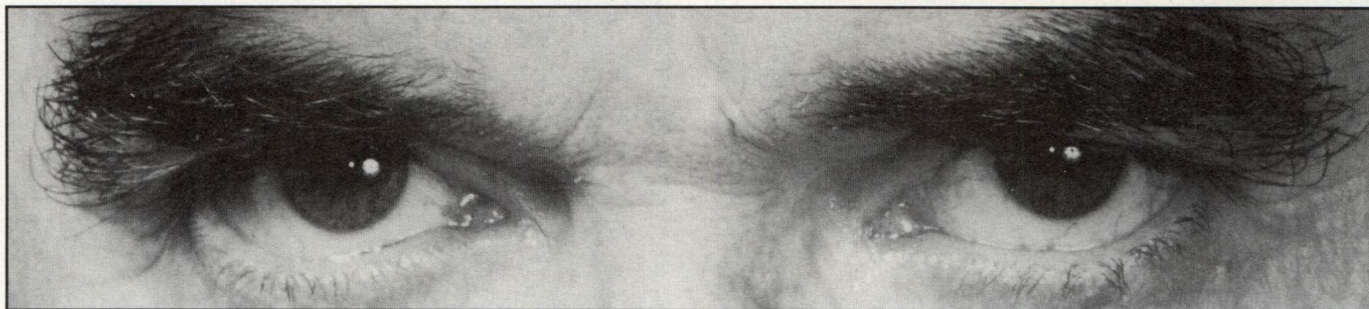
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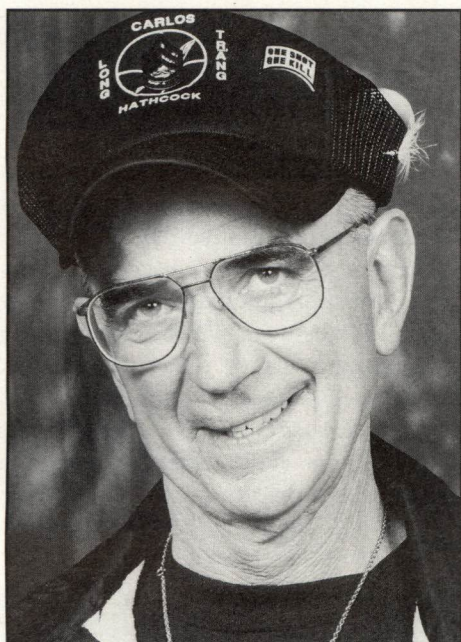
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SNIPING LEGEND CARLOS HATHCOCK



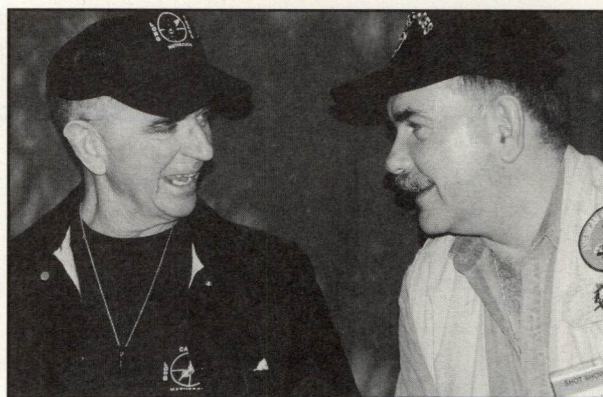
Wearing his trademark Long Trang hat with the white feather protruding from the left side, Carlos Hathcock is a remarkably softspoken gentleman. With over 93 confirmed kills (probably double that number in actuality), it is remarkable that he retains such a pleasant and engaging demeanor.

He sat for a quick show-floor studio set-up. A never ending crowd of onlookers, vets and well wishers made posing him difficult. While setting up, I spoke with him at some length. He was very excited about the new venture with Talon. In this age of media-created illusionary legends, it was refreshing working with the real thing. But looking through the camera's viewfinder into his eyes was a very unnerving experience. In many years of photographing people, I have never seen eyes with that level of intensity. If the eyes are truly the window of the soul, there is far more inside this man than the 93 confirmed sniper kills he made in Vietnam. It takes a special breed of soldier to lie in the jungle for days awaiting that one critical shot. Those of us who were too young for Vietnam and too old for Desert Storm have a deep gratitude for men like Hathcock and others who fought so that we wouldn't have to. In spite of what you hear on MTV and in the papers, the youth of today have the sincerest gratitude for the veterans who gave of their lives to preserve the freedom we have today.

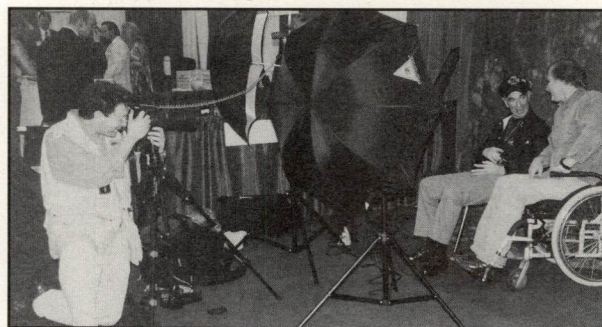
One thing about the Shot Show is that you never know who you're going to bump into around the corner. Sniping legend Carlos Hathcock was signing photographs in the Talon Manufacturing booth. He has teamed up with them to produce a line of Match Ammunition that is reportedly half MOA. Mark Markovsky (All Navy Hi-Power Rifle Champion in 1991/1992) was the project leader for Talon, and they tested over 75 different combinations of primer/brass/powder/bullets before coming up with the final .308 ammo. The finished versions utilize Vitavhourri Hi-Energy powder, Benchrest primers, specially uniformed brass, and a custom version of either the Sierra 175 grain Match King or 155 grain Palma bullet. It is sold under the White Feather Brand name and the first production run is packaged in custom, collectable wood boxes.

Carlos has had some misfortune in prior business dealings and is now working with agent and friend Richard P. Carroll of Southern Gun Works (804-934-1423/fax 804-925-1177—109 Cherry St., Suffolk, VA 23434). These first collectors boxes of twenty rounds each are being sold by Hathcock directly through Southern Gun Works to aid in the considerable medical expenses from his wartime wounds.

Gunnery Sgt. Hathcock was kind enough to



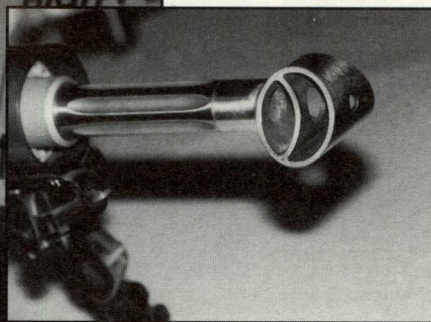
Seen here with a fellow sniping guru, author of the *Ultimate Sniper*, John Plaster, Gunnery Sergeant Hathcock shares some friendly memories.



Hathcock shares a moment with a fellow vet while photographer Jim Bonis focuses. His eyes have an intensity that is tough to describe, and unnerving to look at. Photo: John Plaster



John Gangl has raised AR-15 making to an art form with his "The Edge" series of guns. His company, J.P. Enterprises makes AR-15s out of T70-76 milled aluminum with stainless steel match barrels. They retail in the \$2000-3500 dollar range.



They feature a custom muzzle brake that looks remarkably similar to a 70's era Soviet tank.

with targets ranging from ducks to bad-guy shootouts. There is also a version that works with actual arrows striking a screen in front of a projected image. As yet no one displayed a simul-system using full-auto fire, but several companies indicated interest. The potential customer draw of these sys-

tems in the retail environment is awesome. Expect the price to continue to drop.

The "hit of the show" goes to Knights Armament's new SR-50 .50 cal. BMG semi-auto rifle. This monster is a remarkable feat of engineering and is another joint project between legendary gun maker Gene

Stoner and Reed Knight. Knight's has built a sub-MOA gun for \$2000 less than anything else on the market. The simplicity of the design is remarkable.

If you have never attended a Shot Show, it's worth the price of a ticket just for the sheer magnitude of the event. There were about 16,000 attendees. Exhibitors, press, and assorted others brought the total to approximately 29,000. It is limited to the trade and you need a valid FFL to get in or to be listed as an employee or family member of a NSSF member dealer. This basically

means that if you have a friend of a friend who has an FFL, you can get in. Or you can carry seventy pounds of cameras and lights, and they just assume you're a pro and give you a badge. (Works for me!)



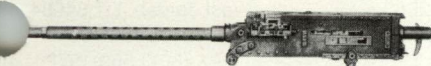
THOMPSON SMG M1/M1A1

New, orig. Kerr style olive drab slings. With parkerized hardware, SHORTER than a standard Kerr sling. Orig. WWII issue not often seen in new cond. . . . \$25.00
Standard Kerr slings, early WWII Kakai color, excellent to new. Issued for use with all Thompsons, M1 rifles, M1903's, etc. . . . \$10.00
Bolt, new in GI wrap . . . \$59.00
Buffer, new in GI wrap AOC marked . . . \$ 6.95
Buffer, new in GI wrap . . . \$ 5.95
Magazine 30 round, gray . . . \$ 7.95
Magazine 30 round, blue . . . \$ 9.95
Wood set, all three pieces, vg-exc. . . \$12.95
Wood set, with butt plate, sling swivels, etc. . \$29.95

MAGAZINES

BAR, new in wrap . . . \$ 9.95
FAL, para alloy, 20 shot, exc. . . \$19.95
FAL, standard 20 round, VG-exc. . . \$ 9.95
Johnson, .30-06, 20 shot. . . \$22.95
Madsen, 9 mm SMG . . . \$24.95
Madsen, 7 mm LMG . . . \$15.95
Madsen, .30-06 LMG . . . \$17.95
MG-34 ammo can with 5 belts & loading tab, WWII . . . \$34.95
M3/M3A1, 30 round, unissued in G.I. wrap 15 mags . . . \$129.95
Yugo, Type 56. . . . \$ 39.95
VZ-58 7.62 x 39 mm 30 round, exc. . . \$ 39.96
ZB-26 8 mm, 40 shot . . . \$149.95

BRITISH ANM2 Machine Gun Spares Set



These kits came from British guns used in RAF Scout and Bomber planes and are in .303 British caliber. These are the model with the hold-open style lock frame group and side-fire selector. Ideal for building dummy guns or spare parts for both British and U.S. guns. Can be used

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MADSEN LMG leather gunners kits. Three leather cases of spare parts, tools, and accessories. Contains spring tool, broken shell extractor, hammer, screwdriver, and other special tools. Spare parts include firing pin, extractor, and many other parts. In addition, they have two different oil cans. Condition of parts and tools is excellent, leather cases show some wear.

Sets . . . \$49.95
Madsen Spider anti-aircraft sight set. Front spider sight attaches to barrel jacket. Rear sight attaches to the standard rear sight. Finish is dark black. Condition is excellent.
Sights . . . \$49.95
Gunnery kit and Spider sight . . . \$89.95
HOTCHKISS Large leather wallet-style gunners kit. Has anti-aircraft sight, firing pin, wrench, broken shell extractor, and other small parts. Condition of parts and tools is excellent, leather pouch shows some wear.
Sets . . . \$49.95

as .303 conversion sets for U.S. guns in .30-06. Over the years many shooters have converted .303 guns to shoot 7.62 x 54R. Barrels are excellent with bright and shiny bores. Kits come with bolt, barrel and barrel extension, barrel muzzle bearing, lock frame, back plate, top cover, and small parts.

. . . \$149.95
Kit with special aircraft ring sight and post. . . \$189.95
Kit with sights and aircraft cradle as used during WWII . . . \$249.95

BRITISH MG ITEMS

"Box, Spare Parts and Tools Vickers, .303 INCH MG MkI" is what it says on the top of these well-made WWII wood boxes. Each box is about 9 x 15 x 7 inches with brass hardware and two leather handles. Set up to hold everything in fitted compartments. Ideal for display or to hold all your special tools and parts. Boxes are excellent to new. . . . \$59.95

Vickers long range front sight, clamps onto present front sight and new front sight slides from side to side—has new graduations left and right. New in canvas carrying case. . . . \$24.95
BREN spare barrel cases, also fits a STEN MkII. Has outside compartments for lots of extra items, new. . . \$14.95

BREN full gun covers also covers mounted magazine. Covers complete gun and snaps on bottom, new. . . \$19.95

STEN sling, also fits Sterling SMG, new. . . . \$ 9.95
BESA 7.92 mm broken shell removal tool. . . \$18.95
BESA combo wrench. . . . \$15.95

M3/M3A1 Grease Gun Survival pac of needed spares



M3/M3A1 New G.I. sear, extractor, 4 recoil and 4 magazine catch springs. These will cure most problems of used guns. . . . \$24.95
G.I. magazine springs. Get these to insure your pre-ban magazines stay usable, replace springs that have taken a "set" 5 for. . . \$10.00
For 5 springs and 5 followers . . . \$12.95

MADSEN MG ITEMS

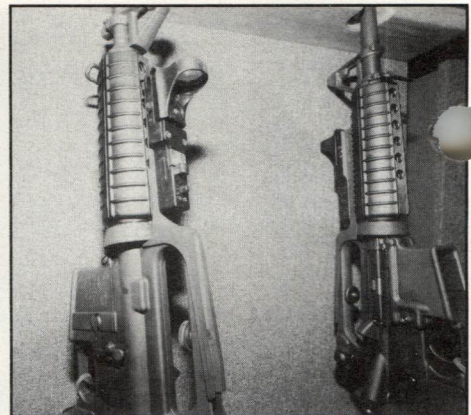
9 mm pouch holds 6. . . . \$24.95
9 mm M1950 SMG barrel, unissued original . \$65.00
LMG tool and spare parts sets, 3 leather cases with broken shell extractor, various other tools, firing pins, hammer, more than 30 parts. . . . \$49.95



The sales staff at Springfield Armory gaze proudly over their new tactical counter sniper rifle in .308 caliber.



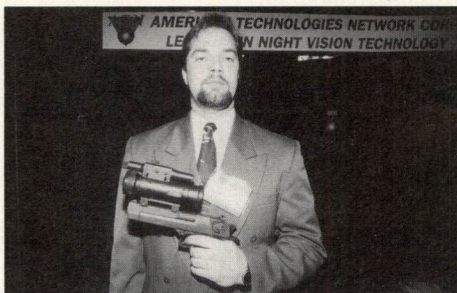
At the top of the photo is the .308 caliber, heavy-barreled counter sniper rifle just introduced on the SAR-8 frame. It features a new and modified trigger and an integral sight base welded into the upper receiver. Second from top is a standard SAR-8 with the politically-correct thumbhole stock and a pretend suppressor. Third from top is a .223 caliber SAR-4800 modeled after an FN-FAL. On the bottom is a short-barreled .308 caliber SAR-4800 which also features a pretend flash suppressor, and in the short-barreled configuration it should probably give a real macho flame burst in front of it.



Colt firearms is aggressively pursuing the law enforcement market again utilizing the C-More Technology scopes on a custom, long eye-relief scope mount that they've developed. There is also a shorter eye-relief version that mounts on the match versions without removing the existing sight tower.



Mounted here on a Desert Eagle .44 Magnum, the eye-relief is roughly the length of an average arm. It has the added advantage of being so heavy that it is lethal when thrown at an intruder even after the gun is out of bullets. The company had problems during the entire show with the show's "political correctness officers" as this setup didn't seem particularly sporting.



James Munn, Marketing Director for American Technologies Network Corp. models their new pistol mount, night vision device.



Talon Manufacturing Company executives surround Gunnery Sergeant Carlos Hathcock. The two have worked together on a new special line of sniper/premium match ammunition called White Feather. Carlos Hathcock and former Navy shooting champion, Mark Markovcy combined to do a premium grade of .308 caliber sniping ammunition. The first several thousand rounds were allocated to limited edition boxed sets for Carlos Hathcock and those can be obtained by calling (304) 264-9714.

Shot Show Sources

American Technologies

Network Corp.
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S. San Francisco, CA 94080
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FAX (415) 634-8440

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FAX (919) 726-1443

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FAX (615) 896-7313

Booney-Packer Products
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Salem OR 97309
(800) 477-3191
FAX (503) 581-3191

Bushmaster Firearms
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Windham, ME 04062
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(800) 998-SWAT
FAX (207) 892-8068

C-More Systems
7553 Gary Rd
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(703) 361-2663
FAX (703) 361-5881

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(407) 868-2200

D.P.M.S., Inc.

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Scottsdale, AZ 85260
(602) 948-8009

Eagle Arms/Armalite

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Coal Valley, IL 61240
(309) 799-5767

Gun Parts Corporation

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Springfield, VA 22151
(703) 321-8558
FAX (703) 321-8408

Hi-Point Firearms

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Dayton, OH 45415
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FAX (513) 275-4991

J.P. Enterprises

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St. Paul, MN 55127
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Knights Manufacturing

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Vero Beach, FL 32968
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FAX (407) 569-2955

L.A.R. Corporation

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West Jordan, UT 84084
(801) 255-7106
FAX (801) 569-1972



The exuberance on the face of the Knight's Manufacturing staff is due to the fact that they had far and away the hottest new gun at the show. The SR-50 is a new fifty-caliber BMG semi-automatic rifle.

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FAX (309) 944-3676

Talon Manufacturing

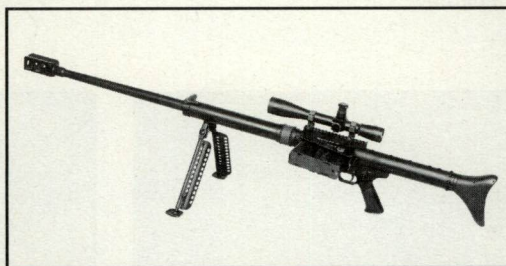
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Seen here in an *MGN* world exclusive are the first photographs of serial number one: the Stoner rifle Model 50.



The take down of the gun is remarkably simple and it takes down to its shortest component: the barrel. The remarkable simplicity of its design has enabled Knight's Manufacturing to price the gun nearly \$2000 less than its nearest competitor. Having shot this rifle on a trip to the factory, I can attest to its accuracy, but its light weight gives your shoulder a pounding. A padded buttstock at the back would make life a lot more enjoyable. Look for a complete feature on this gun by *MGN* Technical Editor, Dan Shea, in a future issue.

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I am interested in purchasing registered machine guns.

One or complete collections.

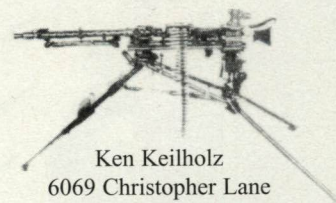
I am especially interested in Old Maxims of any kind.

Also any and all World War I and World War II machine guns.

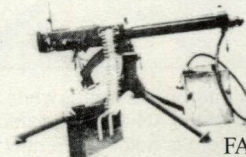
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Cash paid for machine gun accessories, related parts and mounts.



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Steve Casey of Steyr Manufacturing, USA, models a tricked-out, back-room-only Steyr machine gun featuring their new flashlight mounts accessory.

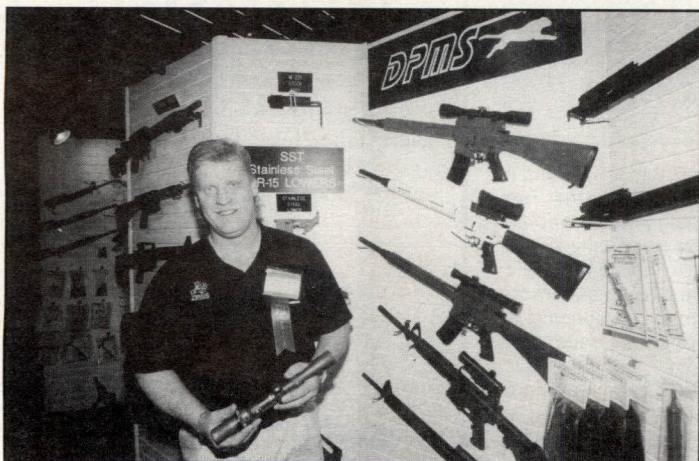
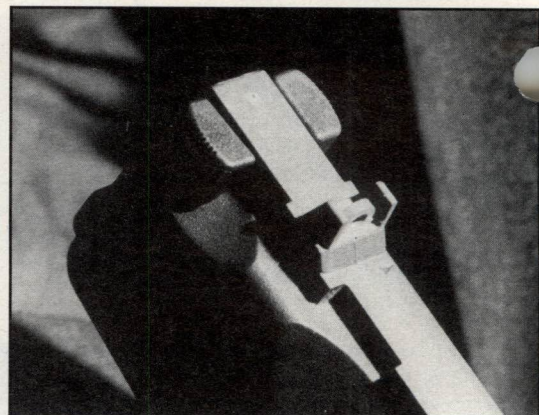


As you can see here, a change in the magazine well and a new magazine gets you on your way to converting your AUG to 9 mm. The barrel and bolt parts must also be changed but they are all currently available from Steyr.

Right: Steyr showed a new version of their remarkable 9 mm TMP machine pistol. Currently available only to law enforcement, it features a threaded barrel shroud on the front end to allow the easy attachment of silencers and accessories.



Far Right: Also new on the TMP is a rear ghost ring sight that improves accuracy. At this point, we don't know whether it will be available for semi-auto SMP versions already on the market.



DPMS Corporation introduced a red, white, and blue colored series of their custom version of the AR-15. The patriotic color scheme should drive the liberals nuts. Tom is holding the new version of the Leatherwood sniper scopes that DPMS is distributing.



Also new from DPMS is a pump-action .223 caliber pistol. This brings up an interesting dilemma for holders of 30-round magazines. If a 30-round magazine isn't used for a semi-auto rifle or pistol, then supposedly it's still legal. Does that mean we can still manufacture them?



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British solid brass regimental rods—one piece, 36" long, uses standard cleaning tips, Vickers, Enfield, Bren, fits any 30 cal., and clean up to look BEAUTIFUL!

ea	\$12.95
3 for	30.00
Vickers sectional steel rods...	9.95
Thompson WWII steel one-piece, ea	3.00
DSHK sectional rod, complete	45.00

ALPHA 1947 LMG PARTS

Bolt carrier	\$18.95
Bolt, stripped	34.95
Firing pin	8.95
Barrel, complete	18.95

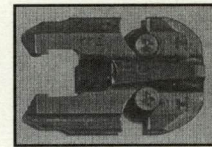
MAGAZINES

M14 mags., new, 20-rd Norinco	
ea	\$16.95
3 for	45.00
MP-5 mags., German curved	
30-rd ea.....	85.00
3 for	225.00
BAR mags., refinished	
20-rders ea	6.00
5 for	25.00

BREN PARTS

ZB26 bolts	\$24.95	Barrel, MKII, used	65.00
Tube, return spring	12.50	Fouling tool	8.95
Return spring	5.00	Broken cartridge ex.	14.95
Extractor, 303	8.00	Buttstock tool	8.95
Bolt, 303	22.00	Piston post (bolt cam)	9.95
Buffer spring	4.00		
Barrel, MKI, used	85.00		

MG-42 BOLT HEADS



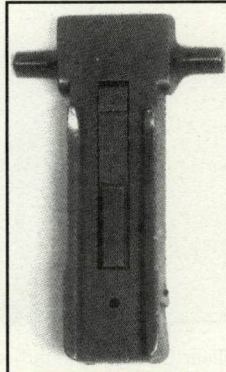
This is the part that breaks on your MG-42 bolt assembly. The other problem is that after about 10,000 rounds, the firing pin hole enlarges. These are rare as can be, and we have a small quantity left.

Post war mfg., excellent.

Like-new condition ea....	\$ 85.00
3 for	225.00
New—brand spanking new!	
ea.	125.00

1918A2 BAR PARTS

Actuator	\$ 6.95	Gas cylinder lock	3.25
Actuator spring	4.75	Hammer	8.45
Bolt	8.75	Key buffer	2.60
Bolt guide	5.85	Mag catch	4.55
Bolt guide spring	4.55	Mag catch spring	4.00
Bolt link	16.25	Mag release	8.00
Bolt lock	16.25	Pin, gas cylinder	2.25
Bolt sub assy.	40.65	Rear sight base (stamped)	12.35
Buffer assy, complete	104.50	Receiver rails, pair	20.00
Buffer head	7.45	Recoil spring guide assy	9.75
Buffer spring	5.85	Sear	7.80
Butt plate assy (old)	11.70	Sear carrier assy	13.00
Cap tube assy	15.00	Sear pin	2.25
Change & stop spring lever	8.00	Sear release	4.85
Change lever	7.45	Sear release stop lever	6.00
Counter recoil spring	3.60	Sear spring	6.00
Ejectors, FN-D or 1918	7.50	Selector lever	7.45
Extractor spring	4.50	Stock retainer sleeve	5.20
Extractors	7.15	Swivel assy, butt, old or new	5.85
Firing pin	5.85	Trigger	8.75
Forearm screw, long	2.25	Trigger connector	8.00
Forearm screw short	2.25	Trigger guard assy, complete	106.10
Friction cup and cones	4.85	Trigger guard pin	2.25
Front blade sight	4.85	Broken cartridge extractor	8.50
Front sight base	6.50	Israeli gas port tool	7.50
Front swivel	3.60		
Gas cylinder	14.50		
Gas cylinder body	14.50		



VICKERS

303 extractor, stripped	\$12.00
Lock body	15.00
Brass belt spacers, long	
2 for	1.00
Brass belt leaders	5.50
Broken shell extractor tools	
3 part- NEAT!!!	24.95
2 part-still neat!!	9.95
standard	8.95

CHATELLERAULT 1924/29 LMG

Bipod, complete ..	\$28.95	Flash hider cone ..	12.95
Blank firing attach.	12.95	Forend, wood, new	32.95
Bolt	75.00	Firing pins	6.95
Buttstock conn....	12.00	Operating tube...	12.95
Cocking handle...	15.95	Trigger group complt.	85.00
Dust cover assy ..	15.95	Trigger group strip	29.95
Ejector	7.00		

M3 GREASE GUN PARTS

Housing assembly ..	\$19.95
Trigger guard	4.00

CZECH MODEL 25 SUBMACHINE GUN

Recoil/ejector assy., new	\$18.00
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Ordering is our standard, minimum Shipping, and handling is \$3.25, up to 1 lb. Call for shipping.



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A typical military sniping team, with the observer/spotter on the left and shooter on the right. In a real situation, the barrel and lenses would be obscured with camo and foliage.

Precision Shooting

A Brief History of Sniping in America



Officer George Lainhart, sniper, City of College Park Police Department SWAT Team, in front, carries highly modified Remington Model 700. Matt Fabbri, former Navy SEAL Sniper, in rear, carries scoped M14.

As part of MGN's ever-expanding coverage, we are, this month, initiating a column dealing with weapons and equipment related to sniping for the military and police contingency.

by Mark White

For the uninitiated, military sniping usually involves precision shooting with a limited number of rounds directed towards high-value targets of opportunity in a fairly large operational theater. Shots are occasionally taken under 200 yards, but usually the range is considerably greater, with 400 to 600 yards being the norm. At medium range the U.S. .308 round is the preferred choice. With proper ammunition the .308 is effective out to roughly 1,000 yards. Beyond 1,000 yards our beloved .50 BMG is the preferred choice, and this has been proven accurate at ranges exceeding a mile. The .50 was especially valuable in Desert Storm, where the terrain did not afford cover, forcing troops to reach out and touch at distances greatly exceeding 1,000 yards.

Domestic or law-enforcement sniping

usually involves a raid, counter sniping, or a hostage/rescue situation. Typically, the ranges are much closer (83 yards average), the officer will be closely tied to his supervisor by radio and will be deployed as part of a team. If a hostage is involved, extreme precision will be necessary in order to totally neutralize the perpetrator without injury to the hostage. Often two police snipers will both fire at the same perpetrator at the same time, and this can be extremely effective. It is important that the muzzle of a police rifle be stabilized or compensated so one can see his shot strike and assess its effect immediately.

We must also add a third category to the list, and this involves military forces being deployed in a "peace keeping" role, as U.S. and NATO forces currently are in

Bosnia. Here we have enemy snipers preying on innocent civilians from hidden positions in an area where high ground and cover are abundant. We need sniper/observers equipped with the finest optics and rifles that will reach out and neutralize at extreme ranges.

Only part of a sniper's role involves shooting with extreme accuracy. The use of optics and skill at concealment allow observation and communication to a considerable degree, and these skills are at times even more important than the ability to shoot what one is looking at.

A BRIEF HISTORY OF THE DEVELOPMENT OF THE SNIPER

Any history is a story of how different countries have had to learn the same simple things over and over and over. The old proverb—"In time of peace, prepare for war" was good advice 2,000 years ago. It is true today, and it will be true 2,000 years from now. Countries, which have had to use hunting as a way of life, have historically had more success in war because the process of learning how to be a good stalker and marksman starts very early in life. A country cannot take firearms from its citizens and then suddenly expect them to be able to perform as soldiers by giving them a crash course in riflery three weeks before they are dumped on a battlefield.

It is interesting to look at the early attempts to colonize North America. Starting with Leif Erikson about the year 1000, wave after wave of settlers hit the beaches and attempted to build settlements—only to be slaughtered and driven off by natives armed with bows and flint tipped arrows. It wasn't until the 1500's that the development of the muzzle loading firearm and a crude gunpowder made from charcoal, sulfur and urine (saltpeter) allowed settlers to repulse their attackers and gain a foothold. As Americans learned to hunt, the crude musket turned to a more highly developed rifle with a long barrel to take better advantage of the slow-burning impulse from crude gunpowder of the day.

The native bows propelled arrows to about 150 feet per second, while the more developed bows of desert tribes near Turkey and Asia were capable of moving carefully streamlined arrows to velocities approaching 300 feet per second. North American natives often hunted humans as they hunted game, shooting arrows from concealment at individual targets. The American settlers learned from the natives,

also discharging a single shot from concealment at individual game animals. Their rifles were capable of discharging a single .40 caliber ball to roughly 1,000 feet per second. While native arrows worked best within 30 to 40 yards, a rifle ball extended that range to 100 yards.

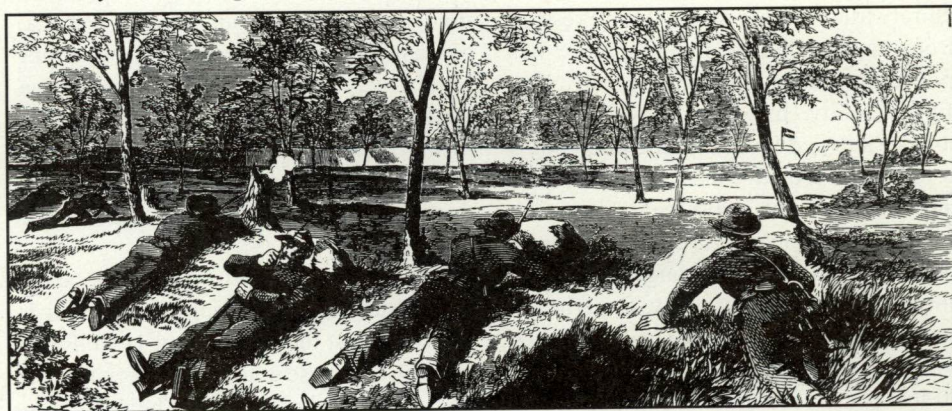
German-American emigrants improved their rifle-making skills, and the colonists honed their ability to use them effectively. When the British .69 caliber muskets were discharged at massed enemy troops within 100 yards, they were quite effective. They were quite useless when aimed at individuals hiding behind cover beyond 150 yards.

When the struggle for state rights turned into the American Civil War in 1861, the rifle had been further developed. The Confederacy enlisted about a million men. The tradition of hunting in the South was well developed, and rifles were in a state of flux, as the move from muzzle loader to the more rapid breech loader was in progress. Interestingly, well over a hundred years later that strong southern tradition of hunting and firearms still exists today. Enfield and Springfield .58 caliber infantry rifles were accurate and deadly to 400 yards. The Confederacy imported very expensive rifles from England made by Whitworth and by Kerr. These were fitted both with fine metallic and telescopic sights. Although still loaded from the muzzle and propelled with black powder, these rifles and the men who fired them were extremely accurate. The soft lead bullets were easily accurate out to 800 yards, and kills were recorded up to ranges of 1,500 yards. Gone were the blazing red and white uniforms which made such wonderful targets. Replacing them were subdued gray, and many of the elite pinned leaves to their

caps and uniforms so as to cloak their positions even more.

The Union side amassed roughly three million men, and while extreme accuracy was not as rigorously embraced in the more industrialized North, it was not neglected either. Berdan made a pitch to the North's leadership, and organized two regiments of Sharpshooters, apparently so named because they used mostly breechloading, falling block rifles produced by Christian Sharps. Outfitted in dark green uniforms, the men and their .52 caliber Sharps rifles could each fire a shot every six seconds—withering fire when directed from prone by groups of men at advancing columns. While the Sharps rifle was a good 500-yard gun, many of the elite in Berdan's Sharpshooters regiments laid aside their Sharps rifles and took up more accurate rifles with telescopic sights when the occasion called for it. After the war Berdan went on to Russia, where he spent many productive years helping that country produce rifles and ammunition. The primer which bears his name, is used in almost all the cartridges in countries from Europe eastward to the Pacific Ocean.

There are several possible derivations for the word sniper. Some roots start with the word snip, which means to cut or take a little bit off. In sawmills, the word snipe refers to an extra little bite that a planer takes off when it comes to the end of a board. Some sources trace the word back to British hunters in India, who used to shoot at small birds called snipes, but I think this is a stretch. Because they often shot in small numbers, snipers usually took long shots at more valuable targets, such as ranking officers. The universal definition of sniping today refers to carefully aimed fire.



"Berdan's Sharpshooters picking off the enemy's gunners." This period woodcut portrays Berdan Sharpshooters firing on Confederate artillery positions at Yorktown in April 1862. The sharpshooter fired heavy civilian target rifles during the early months of the 1862 campaign in Virginia. Artwork courtesy of Roy M. Marcot author of the book *Hiram Berdan*.



"Waiting for Rebs." A photograph of "California Joe" (Truman Head). He was a grizzly member of Colonel Hiram Berdan's 1st Regiment of U.S. Sharpshooters. He is holding a .52 caliber, percussion, breechloading single-shot rifle, and is clothed in the distinctive green uniform of his colorful unit. Photograph from the book *Hiram Berdan* by Roy M. Marcot.

The development of gunpowder made from nitrated cellulose (usually the leftovers of cotton, called linters, and/or wood pulp, both of which are treated in nitric and sulfuric acid), the metallic cartridge, and jacketed bullets allowed ultimate improvements in velocity and trajectory. While the bow was limited to about 300 feet per second, blackpowder and a rifled tube advanced that to about 1,500 feet per second. Nitrated cellulose (smokeless powder) provided more energy for acceleration, while the metal case and a jacketed lead bullet allowed the pressures to reach higher levels before the cork was popped and the mass of burned gas expanded to push the projectile out of the bore. It has often been said that all burning takes place before a projectile can move from its case. In reality that may not be entirely true, but it is mostly true. Pressure drops rapidly before the projectile has moved more than ten inches, greatly limiting velocity. In any event, smokeless powder allowed bullets of the late 1800's to reach a speed ten times that of the bow and arrow—about 3,000 feet per second. Speeds beyond that figure are possible in extreme cases, but by and large we are still limited to that velocity today. Experimentation and small technological advances will give us 20 feet per second here and 60 feet per second there, but it will take a major technological advance in propellants to give us another two or three thousand feet per second. If a powder could be de-

veloped that truly burned and gave pressures hovering around 50,000 pounds per square inch all the way to the muzzle, much higher velocities would be possible.

Mausers' bolt action rifle of 1888 propelled a 7.92 mm, 154 grain jacketed bullet to roughly 2,900 feet per second. After much experimentation with expanding and fragmenting bullets, the Hague convention of 1899 limited most of the nations of the world to fully metal jacketed bullets for military use. Domestic snipers in our nation's police departments are not so restricted, and may use any type of bullet their department dictates in use against criminal suspects.

Mausers' bolt action rifle showed its worth in the hands of Boer marksmen at the very end of the 19th Century. Again it was a story of men who had grown up hunting and shooting—this time in Africa, against the British. Shooting from cover at relatively long distances in their native land, the Boers delivered devastating fire to the British regulars sent forth to war against them. The British learned a little during this war but apparently did not take it to heart.

Gamekeepers (ghillies) from the Scottish Highlands were employed by British forces against the Germans in 1916. From an early age these ghillies had been trained as stalkers and observers. Their skills in concealment and as observers were legendary after WWI. The ghillie suit was developed during the 1800's for stalking deer

on Highland estates. American military snipers make their own suits during training, a rite of passage and a practice that has much to commend it. Each suit is individually tailored, and incredibly effective. After watching the two snipers in the accompanying photos take their positions in full sunlight, I could not detect them from five feet away. In fact, for these photos we had to intentionally undo much of the camouflage to allow the camera to see the snipers, their firearms, and observation equipment.

During the First World War (1914 - 1918), the Germans improved the already excellent '98 Mauser by fitting a telescopic sight to it. They trained snipers in movement, concealment, and marksmanship, being the first Europeans to do so in a meaningful way. Special ammunition was fabricated to enhance the accuracy of an already excellent rifle. The French and British were unprepared in this, and their troops suffered greatly at the hands of the Germans. By 1916 the British had set up sniper training schools, and the two-man, observer/shooter teams became standard. The successful snipers on the Allied side turned out to be troops from the U.S., Canada, Australia and South Africa who had had prior experience hunting and stalking. Eventually the Allies prevailed with greater resources and improved tactics.

One would think that Britain, France, and the U.S. would have kept up the science and practice of sniping in the brief twenty years between WWI and WWII. In fact, they dropped and discarded it like a worthless garment. The Soviets, however, maintained the practice and equipped well over 60,000 bolt-action rifles with 3 1/2 and 4-power telescopic sights. When Germany invaded Soviet Russia, many of its soldiers were wasted by a vast force of Soviet snipers. Since the only effective defense against a sniper is a counter sniper, Germany increased its force of snipers as well—pressing into service hunting guides, gamekeepers and poachers.

Not every soldier needs to be a sniper, but it is foolish to maintain any armed force without a certain percentage of them. Depending on the terrain and type of deployment, from two to ten percent of an invading or defending force should be snipers. To enter into battle without a properly trained and equipped sniping contingent is to go naked and defenseless before the enemy. If we learn anything from military

history over the last two hundred years it should be to maintain this vital component. Over and over, we see the same mistake repeated again and again.

The Finns were skillful snipers. They took a terrible toll on the Russian invaders during WWII, yielding only to a force which was vastly larger in number, and superior in resources.

In Vietnam the Communists had trained quite a number of snipers, who exacted a terrible toll on the South Vietnam and American troops sent forth to fight in heavy jungle. It was a repeat of the same old story. In spite of America's great wealth and air superiority, the troops on the ground took a beating. It was near this time that the change was made to the smaller .223 round, and a lighter weapon to handle it. The .223 was effective out to 200 yards, and in a stretch, possibly to 300 yards. Since many of the NVA snipers operated beyond that perimeter, they were quite safe. Again, the most efficient defense against a sniper is another sniper.

Eventually Marines brought in accurate .30-06 ammunition and bolt-action Model 70 Winchesters sighted with 8X Unertl scopes, turning the tide. The old rifles were eventually upgraded to Reming-

ton 700-40's in .308, and sighted with Redfield 3X to 9X variable scopes. In later years the rifle was again upgraded and is now designated the M40A1.

As the end of the 20th century draws to a close, there have been sufficient minor actions — Grenada, the Falklands, Panama, Somalia, and the major Allied effort called Desert Storm. Although reduced in number, sniping programs are finally being maintained in the U.S. and Britain, where they are said to be the best in the world.

The shot per enemy casualty rate during WWI was 7,000 to 1. During WWII the rate had grown to 25,000 rounds per casualty. During the war in Vietnam, estimates vary from 50,000 to 200,000 rounds per enemy casualty. Contrast this with sniper rates of 1.3 to 1.7 rounds per enemy casualty, not including practice and sighting rounds.

In studying available literature on the history of sniping, five universal truths may be learned. 1. It takes years of prior training and conditioning to develop the skills necessary to be a good sniper. A background of hunting and shooting at long distance is a must. One of the reasons for the tremendous number of casualties dur-

ing the American Civil War (714,000) was that the participants of both sides had grown up hunting and shooting. 2. Many countries view *shooting* and *hunting* as *undesirable* and *politically incorrect*. They are the ones who will suffer most at the hands of the enemy when (not if, but when) war breaks out. They will generally be viewed as weak, unprepared, and loathsome by the enemy. 3. Snipers are universally feared and hated in combat. Their logbooks and rifles, viewed as staunch friends in battle will be their undoing if their positions are overrun and they are captured. 4. The most effective snipers work as a pair, and are those who are considered elite, who move freely and at will, and whose duties involve only sniping and observation. Observation is often more important than shooting, but the two must work hand in hand. 5. Not only must the individuals be trained and prepared for this calling at an early age, the equipment (ranging, optical and ballistic) must remain in a state of continuing development in order to keep pace. The above precepts are the most important directives history has to tell us. To ignore them will be very costly in human lives. The concept of world peace is a myth.

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Vietnam. A Marine Sniper has a bead on a Viet Cong at over 1000 meters. Using a 3 to 9 power scope, a Remington 700 Rifle has accuracy up to 1100 meters. Credit: Defense Department photo (Marine Corps). Courtesy of John Appleton.



Vietnam. Scout Snipers, of First Marine Division, working as a scout sniper team with the 7th Marines in the Republic of Vietnam. Using the binoculars wider field of view, the spotter directs the rifleman to a target's position. Credit: Defense Department photo (Marine Corps). Courtesy of John Appleton.

Snipers work best when deployed as a team. One man should be the observer, armed with an accurate semiautomatic rifle with a scope, and perhaps a grenade launcher. He should also carry a good telescope. Rapid fire may on occasion be needed to keep their position from being overrun. The other member of the team should carry a bolt-action rifle, and for extreme accuracy it should be a single shot. Much effort has been directed towards making semiautomatic and repeating rifles as accurate as single-shot rifles, but few if any have succeeded. A fixed power scope should be about 10X, while a vari-

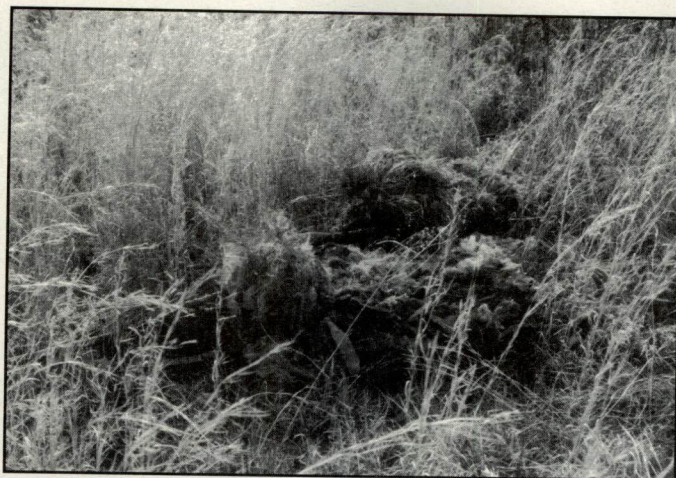
able power may range from 4X to 20X. A variable power is most useful IF it will hold together during battle conditions. In some instances a single sniper (lone wolf) will be able to go where a team can't. A lone wolf moves much more easily and will attract far less attention. It is interesting to note that WWII was more modern, with trucks, tanks and aircraft allowing fairly rapid movement. The ability to machine metal had also increased, which would lead one to believe that accurate rifles would proliferate. While in theory this might have been true; in practice it may not have been. The semiautomatic rifle allowed rapid follow-up shots, but muzzle blast and the shock of recoil made those shots difficult to execute at extreme range. While self-loading rifles could in theory be accurate, they often were not. They were certainly serviceable inside 200 yards, but were not good 700-yard rifles. Few had the extreme range potential of a bolt action. Much accuracy was sacrificed in the interest of making a rifle useful as a short spear or a stabbing tool. As we get into the 21st century, the availability of reliable ammunition should lay the fixed bayonet to rest.

Silencers were occasionally used by both sides on rifles in the 8 mm and .30-06 class. These were useful in reducing flash and recoil and in keeping one's position hidden. In the future small silencers should be used on all infantry rifles, as they take the major edge off muzzle blast and flash at night. At close range the noise is reduced to a bearable level, to the benefit of the shooter and his comrades. At longer ranges the sound will be greatly reduced, adding to greater concealment. Most of the short assault rifles of Soviet Russia now carry small combination suppressor/flash hiders. All of the battle rifles the Finns use in training are equipped with slightly longer suppressor/flash hiders of greater efficiency. Although basic design has changed little since Hiram Maxim's



Vietnam. Marine Sniper with Starlite scope is silhouetted while taking aim at the enemy at Dusk on Operation Shelby 15 miles south of Da Nang. Credit: Defense Department photo (Marine Corps). Courtesy of John Appleton.

Sniping team set up in an open field. They show up in this overhead photo but are virtually undetectable from ground level.



1910 U.S. silencer, the use of tough alloy steel has brought weight and bulk down to a very reasonable level.

The Finn suppressors are attached to their barrels with a two-point mount, making for a rigid and reliable system. The overall lengths of these rifles are much shorter than Vietnam era U.S. designs of the 60's and 70's.



A side view of woods setup. The observers M14 lies at his side beneath the visual cloak.

Due to mass communication and cheap and rapid air transport, the nature of war in the world has changed. Current theory and practice is to ignore small squabbles between countries unless they appear to have the potential for turning into larger conflicts and wars. When situations reach this point, a number of allies will act as world police and deliver carefully measured blows to the transgressors. As such, more of the conflicts are limited in scope. It is in these scenarios that troops, with the temperament and training of snipers, are particularly useful.

In the fighting of Vietnam, one of the things that alerted many snipers to enemy activity was the glint of ejected brass reflecting in sunlight—such a little thing, in theory, but a serious deficiency in practice. It is important that all the details be attended to when equipping a force where stealth and invisibility are important.

At present, the U.S. has the Remington 700 fitted with a heavy barrel chambered in .308 and fitted to a synthetic stock. Australia, Canada and Britain have the British Parker Hale bolt gun in .308. Britain recently adopted a newer rifle based on their domestic L96A1, produced by Accuracy International. A similar firearm is also chambered in 7 mm Mag, .300 Win Mag, and the 8.6 mm or .338 LaPua Mag round.

For ranges up to 700 yards the .308 is quite adequate. The often ignored 7 mm

Mag has an excellent ballistic coefficient, and reaches out easily to 1,000 yards, as does the .300 Win Mag. The .338 Lapua Mag round fires a 250 grain bullet at about 3,000 feet per second. Its medium/heavy status gives it a good 1,000-yard range with enough power to injure enemy soldiers inside vehicles. Of course, for serious long distance work, the .50 BMG round will reach out and touch at well over a mile, easily penetrating any body armor. Armor-piercing rounds are available for the .50 BMG, and they will usually penetrate light vehicle armor. The .50 BMG has been used as a single-shot sniping weapon in all of the wars and police actions the U.S. has been involved with since WWII.

In months to come, we will discuss rifles, training, equipment and tactics for those who are involved in extreme accuracy and precision shooting.

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UZI

The Uzi submachine gun is probably one of the most recognizable subguns in existence. A dark, sinister aura seems to surround the Uzi. This is due, in part, to its popularity in the movies. If you have ever had the opportunity to fire a full-auto Uzi, you immediately realize it is not the devastating weapon depicted in the movies. Compared to an M16 shorty on full auto an Uzi is quite meek, and real ones run out of ammo quickly. The Uzi has also been seen in many media photos taken throughout the world. One famous photo in particular was the one taken of the Secret Service agent pulling an Uzi out from under his coat at the 1981 assassination attempt on President Reagan.

Uzi production began in the early 1950s. Israel and many other countries have utilized the Uzi for police as well as military use. The Uzi submachine gun was developed by an Israeli Army officer Uziel Gal. Rather than rely on other sources for weapons the Israelis wanted a weapon indigenous to their own country.

The Shooter's Uzi

This article deals with the most common type of Uzi submachine gun in civilian shooters possession: the converted from a semi auto, registered receiver or registered bolt gun. These are not highly regarded or rare collectors items. They are not an item that you dare not fire for fear of destroying its value, they are for fun and enjoyment SHOOTERS. The converted Uzis are not, however, the least expensive subguns available. They are not quite at the bottom end of the Class 3 market price scale. Often they command higher prices than original nonconverted weapons as the MAC 10 or Reising.

The Uzi submachine gun is an open-bolt, blow-back-operated, select-fire weapon. The weapon weighs 8.9 pounds with a loaded 25-round magazine. It features an easily removed 10.2 inch barrel, a grip safety in addition to the selector safety on the trigger housing. The receiver, top cover and trigger housing are manufactured from sheet metal stampings. The cyclic rate ranges from 600 to 650 rounds per minute. Magazines are available in 25-, 32- and 40- round capacity. The finish is either an epoxy type black paint or parkerized. The semi-auto Uzi, the weapon from which many registered full-auto Uzis originated, is a closed-bolt type weapon in its semi-auto form. In addition to the stan-

dard size Uzi, there is the Mini and Micro Uzi.

A large problem to a potential Uzi owner is the quality of the conversion of any particular gun. There are many Uzis that were converted to full auto "at home," on Form 1's by individuals, and others converted by the many Class 2 manufacturers—some still in business today and others who have long since vanished. One other major factor in the reliability of any gun is the quality of the parts used in the conversion. There are many, many companies that have manufactured parts for the Uzi. Some are very good, some are not up to spec and may need some alterations to work reliably.

The Uzi submachine gun is amazingly accurate, partly due to its barrel length. The part of the barrel that is visible on the weapon belies its 10.2 inch length most of which is hidden inside the receiver. With the stock fully extended and magazine inside the pistol grip, the weapon is very well balanced. Recoil from the 9 mm round in the Uzi is minimal. The wooden stock that is available for these weapons is a better design than the metal folding version for accuracy. If you follow any of the subgun matches at the major shoots, you will occasionally see an Uzi among the dominant MP5s in the top ten shooters. It takes a highly skilled Uzi shooter to be competitive with the MP5s in these matches.

Parts and Accessories

One very big advantage to the Uzi is the large quantity of parts and accessories available: brass catchers, magazines, parts kits, to name a few. It has always appeared to me that a gun's popularity depends a lot on the accessories available for it.

Original Israel Military Industries (IMI) Uzi parts and parts kits are plentiful and reasonably priced. I would recommend the use of genuine IMI parts whenever possible. Parts made in Belgium are sometimes available as the gun was also produced under license in that country.

Group Industries, who manufactured the American made Uzi, also had high quality parts. Group Industries run of full-auto Uzis was cut short due to the infamous 1986 law prohibiting further manufacture of new machine guns after May 19, 1986. The Group guns I have examined have been of excellent quality and have been very reliable. Group Industries converted IMI semi Uzis to the full-auto configuration prior to manufacturing their own versions of the weapon.

by Frank Iannamico

Barrels

The 10.2 inch Uzi barrel is probably one of the most popular after-market items. The barrel is very easily removed by simply unscrewing the barrel retaining nut with your fingers. Owners of semi-auto-only Uzis should be aware that it is illegal to install a short barrel on a semi-auto gun. One of the keys to a reliable functioning weapon is the proper barrel. Problems will arise if the barrel has been manufactured with the incorrect chamber dimensions for open bolt operation. The sixteen inch original barrel on the semi-auto Uzi carbine is utilized in many conversions by cutting it to the subgun length of 10.2 inches. This is cost effective for the company or individual that did the conversion; however, the problems you may encounter with such a barrel are many: failure to extract the fired cases, and bulged brass casings. The very bottom of the case will appear to have a ridge or bulge about 1/8th inch from the case rim. If you attempt to reload these cases, you are in for problems with cases being stuck in the chamber and broken extractors. Many after-market barrels share the same problems. The original IMI manufactured barrels will cure this problem; none of these barrels are chrome-lined for durability. One difficult problem with original submachine gun barrels is that, they will not fit a semi receiver without some machining to fit. An original subgun barrel has a larger diameter than a semi barrel where it mounts in the receiver. Many companies that offer original barrels for sale often offer them already machined to fit semi receivers on legally converted guns. Machining an original barrel to fit a semi receiver requires a lathe and an experienced machinist.

Magazines

As with every other machine gun, spare magazines are a very popular item. This is due in part to the desire to load magazines at home rather than the shooting range. In the case of the Uzi magazines, this is es-

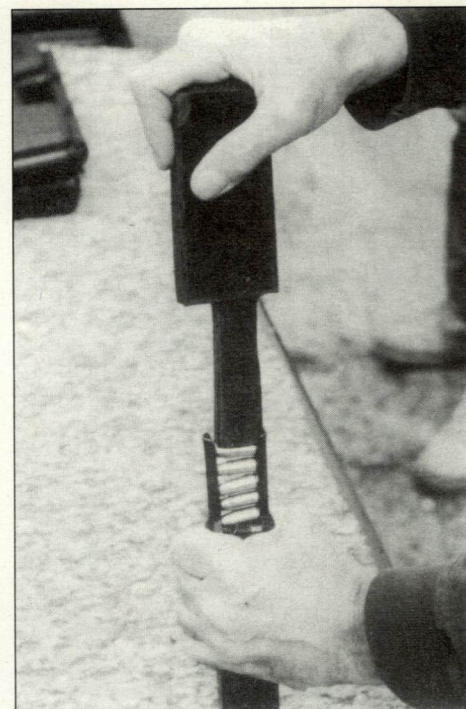
pecially true as these magazines can be very hard to load, at least the last five rounds. There is an original loading tool that helps to ease the process, although not completely. I solved this problem by making a loading tool that is used in conjunction with the original loader. This tool is easily made out of wood or plastic (see photo). The tool is used to help push the rounds into the loading tool and into the magazine.

As with the barrels, there are many sources of magazines for the Uzi. The magazine, as with any other gun, can be a real source of problems as far as reliable functioning. I have tried many after-market magazines, mostly the 32-round capacity ones. I purchased these after-market magazines because the original 32-round mags are difficult to find. The problems I had with after-market magazines were with the springs. If I would remove the spring from the mag and stretch it, then reinstall it in the mag, the gun would function with it for a few loadings, then jam until I would again remove the spring and restretch it—not fun effective. To prevent jamming and misfeeding problems, purchase only the original mags; the 25-round mags, unlike the 32-round mags are plentiful and cheap. At least they used to be before the passing of the crime bill. An interesting aside is that I gave the after-market mags to a fellow who had a semi-auto Uzi that fired from a closed bolt, and they were 100% reliable in that gun.

I have found that the Uzi magazines need periodic stripping and cleaning to be reliable. If your gun suddenly develops jamming and feeding problems, clean the mags. I suggest lubing the magazines with a dry type lube to keep powder residue to a minimum.

Trigger Housings

The semi-auto trigger housing can be successfully used in a full-auto conversion. The only reason to change it would be for cosmetic reasons, i.e., the correct selector

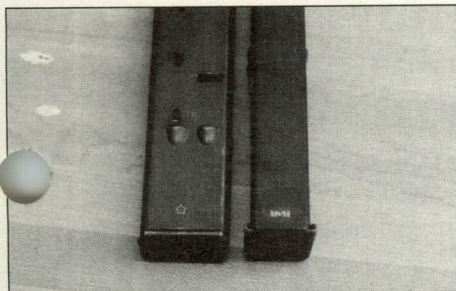


Homemade loading tool greatly eases mag loading.

position markings. The semi-auto housings are marked "F" in the fire position and "S" in, of course, the safe position. Converted guns sometimes have a hand-stamped "A" on the housing designating the full-auto position.

Original Uzi subguns have housings marked in several different ways: A-R-S, D-E-S, or are marked in Hebrew.

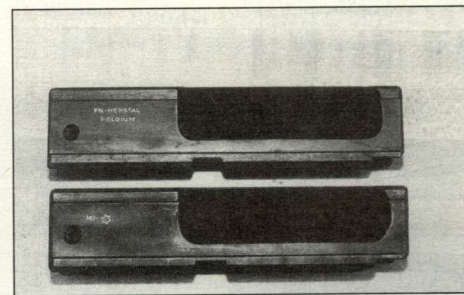
The A-R-S marked housings are the most common, although there are Hebrew marked housings available from parts dealers. Complete housings are expensive, although the stripped ones are reasonably priced. The parts can be easy enough to install by any RKI, and a schematic of the inner workings of the housing and trigger group. One alteration to the subgun housing is required to install a machine gun housing on a semi receiver. The rear mounting hole on the subgun housing is smaller than the hole in the receiver that the take-down pin fits in. It is a simple procedure



Original 32-round magazines, IMI marked on back side.



Original SMG trigger housings. Left: export type housing. Right: Hebrew marked housing.



Original SMG Bolts. Top: FN manufactured. Bottom: IMI manufactured.

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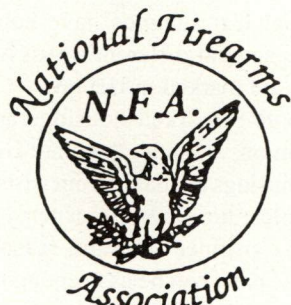
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to redrill the hole to the correct dimension although the hole is a metric size. If you measure the existing hole in the receiver, you can come close to the correct size by using a number-sized drill bit of the right size. (Numbered drill bits are sized in thousands of an inch rather than thirty-seconds of an inch.) Use a drill press so the hole can be accurately drilled through both side of the receiver.

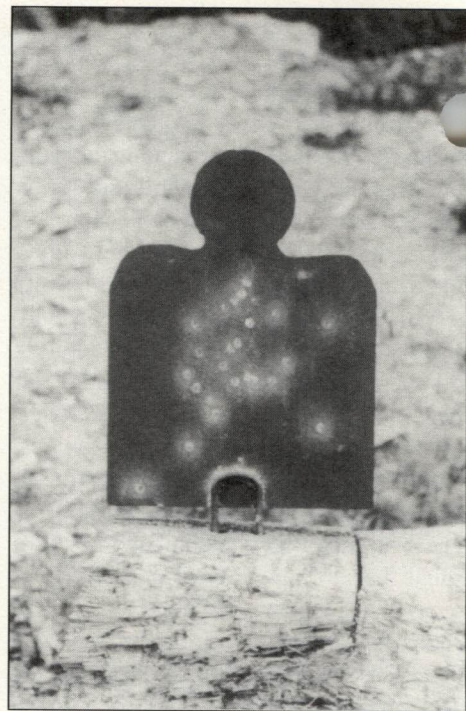
Top Covers

Like the trigger housings, the top covers on converted Uzis are often the original semi-auto covers, again to keep the conversion cost down. The semi covers work fine on the converted guns. The original submachine gun covers feature a ratchet type top cover; this is a safety feature for open-bolt guns. If while cocking an Uzi your hand would accidentally slip off of the cocking handle before the gun was fully cocked, the ratchet feature would stop the bolt from moving forward and inadvertently firing the weapon. For those who want them, the ratcheting top covers are plentiful and available from dealers and parts suppliers.

Ammunition and Reloading

The 9 mm cartridge is a little finicky when it comes to reloading. This is due in part to its slightly tapered case. Another reason is the many, many different ammo manufacturers. The problem here lies in case dimensions—most of all case thickness. Reloading problems with 9 mm ammo are not unique to the Uzi. Every subgun that uses this caliber seems to have some sort of problems, usually case bulging at the area just above the rim. I have found that certain brands of brass are much better for sub-gun use than others. The best brand to use is either Winchester or any U.S. GI brass. The big disadvantage to GI brass is of course crimped primers. Although the bargain price of this brass in addition to its longevity make it an attractive option.

As far as bullets, I shoot cast lead almost exclusively. This is due to price, and the fact that the lead extends barrel life. I use 125 grain round-nose slugs. These are the best for reliable feeding in the Uzi. The chrome-lined Uzi barrels are very easy to clean lead and other fouling out of. My favorite load for 9 mm subguns is 4.5 grains of Winchester 231 powder with the 125-grain bullet. I have chronographed this load out of a Beretta Model 92 at 1020 fps (feet per second).



Steel target shows 100% hits after 25 round full-auto burst from Uzi.

There are "authentic" original Uzi submachine guns on the market, however, very few are fully transferable to individuals; most if not all are dealer samples. If you could find a fully transferable original Uzi, the asking price would be very high, and the gun would then fit into the "too valuable to shoot" category. If you are like most Class 3 enthusiasts and do not have a dealers license, you will have to be content with a converted version of the Uzi—but really what is wrong with that? It's still a lot of fun.

Sources for Uzi Parts and Accessories

A & D Global

P.O. Box 5111
Palatine, IL 60078
Phone 708-934-8982

Class Three Supply

P.O. Box 1119
Hermitage, PA 16148
Phone 412-962-1890

Firearms Accessories, Inc.

P.O. Box 23
Mehoopany, PA 18629
Phone 717- 833-4713

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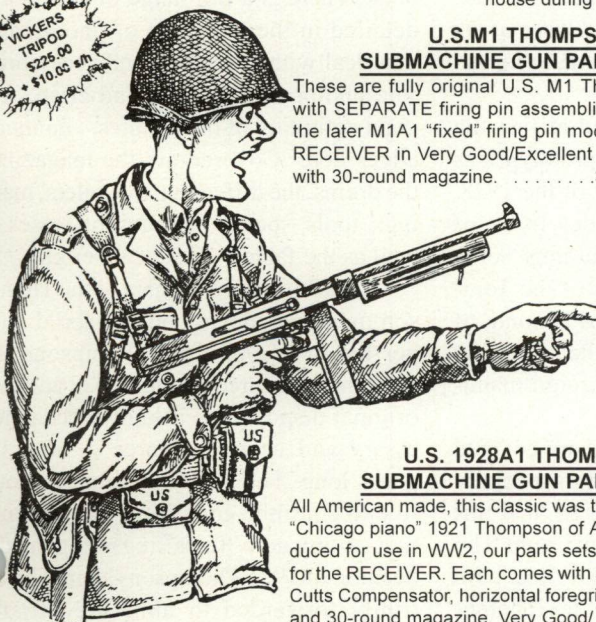
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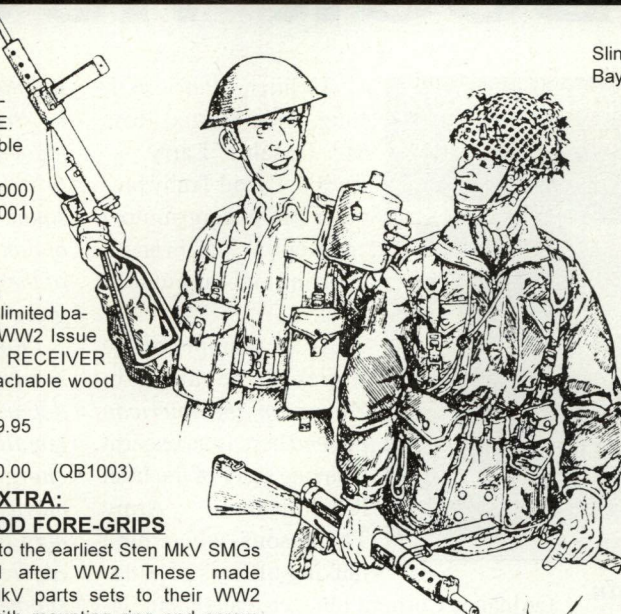
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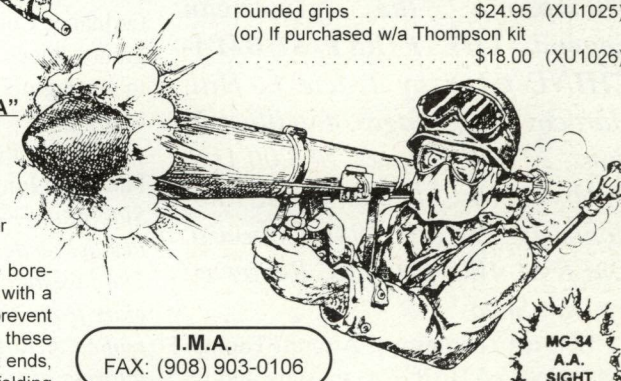
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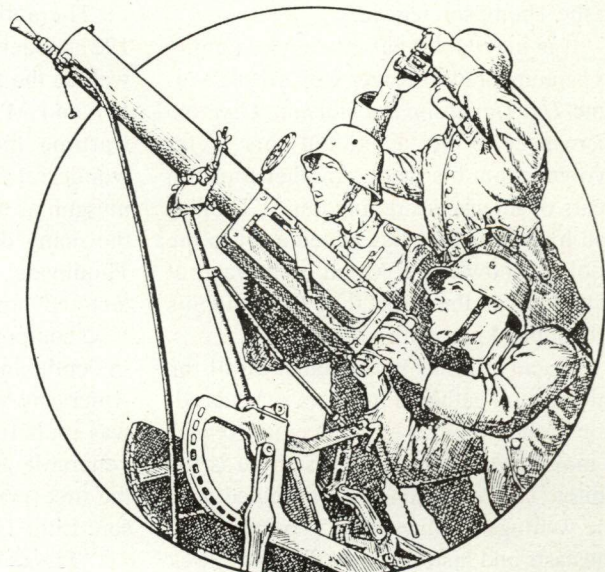
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MGN Book Reviews

Thompson: the American Legend THE FIRST SUBMACHINE GUN

Tracie L. Hill



Thompson: the American Legend. THE FIRST SUBMACHINE GUN by Tracie L. Hill. Hardcover, 584 pages, 456 illustrations, 22 color plates. \$85.00 U.S. Published by Collector Grade Publications, PO Box 1046 Cobourg, Ont K9A 4W5 Canada. Reviewed by Dan Shea

Belt-fed Thompsons? Aircraft Thompsons? Belt-fed BAR's? Gangsters and G-men, Bonnie and Clyde, and the true story of the IRA Thompsons!

No matter who you are, on what part of this planet, the Tommy gun has had an effect on your history. This "first" submachine gun has a fascinating story, and author Tracie L. Hill has put together an equally fascinating volume, doing justice to the Thompson legend.

It is inevitable that this book is going to be compared to Roger Cox's 1982 volume *The Thompson Submachine Gun*. No disrespect to Mr. Cox, but this is far evolved from his work. Another fourteen years of intense searching out of Thompson historical data has added a lot to the pool of knowledge. Much of it was not available at the time that Cox did his groundbreaking work.

Tracie Hill has put together all of the information gathered from his years as editor of the "Thompson Collectors News," a monthly newsletter of which he is the editor. That experience is combined with the writings of nine other Thompson enthusiasts and historians; MGN's own Rick Cartledge, William M. Douglas, William

J. Helmer, Patrick J. Jung, Rick Mattix, Ross M. Opsahl, Larry L. Ruth, J. David Truby [another MGN contributor] and Keith White, in an interesting and easy to read style.

As an example of the stories to be found in *Thompson: the American Legend* here is an excerpt from the story of the Irish Republican Army Thompsons, where high ranking officers of Auto-

Ordnance Corporation were caught "in flagrante delicto" on June 12, 1921, in a plot to smuggle Thompson submachine guns to the IRA:

"To the Echo of a Thompson Gun" by Patrick J. Jung (Page 54), "When the East Side plans were uncovered, the authorities descended upon all persons involved. The investigation was headed by a young man from the Bureau of Investigation named J. Edgar Hoover, and along with attorneys from the Department of Justice, federal agents confiscated the 495 Thompson guns found on the East Side and all the records of the Auto-Ordnance Corporation. The serial numbers of the weapons (only one hundred guns still had readable numbers) on the ship matched those of the guns sold to Rorke, thus confirming his complicity."

The author does not stop at just the 1921 models. He covers the prototypes as well as the later productions of the 1928, M1 and M1A1. This includes loads of wartime memorabilia, including some wonderful full color posters of the Tommy gun at war. Action photos abound, of the many different forces that used the Thompson, as well as the foreign manufactured variants.

Thompsons in the movies are covered in depth, and most will admit, especially Americans over thirty-five or so, that this was their first exposure to the gun: The venerable gangster movies starting with the first screen appearance of the Thompson; *Little Caesar* (1930).

"Lights! Cameras! Tommy guns!" by Keith White. Later in the film, Edward G.

Robinson is attacked by rival mobsters as he strolls down a city street. The gun is hidden inside a passing delivery van. Only its muzzle can be seen, although the sound track effectively conveys the sense of danger. The audience hears the screams of the pedestrians as bullets smash a plate glass window near the targeted hoodlum.

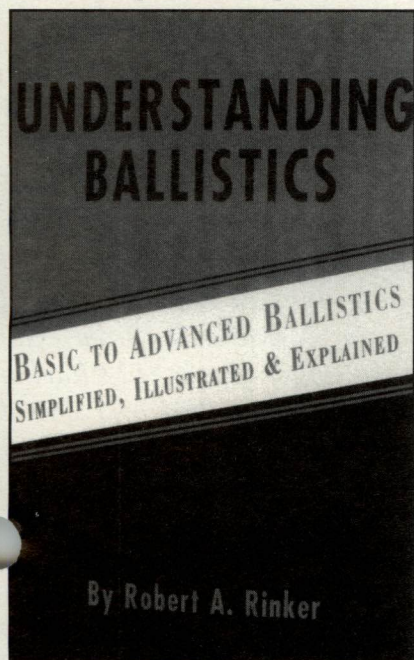
Robinson survives the attack. Literally survives. In the days before special effects departments invented "squib" charges (small electrically detonated powder charges which simulate bullet impacts), movie bullet holes were created by marksman firing live ammunition. Actors were required to stand by while well-paid sharpshooters shattered glass or shot holes into the structures surrounding them. Dangerous work!

Once again, a civilian related occupation for a machine gunner! Too bad they did away with Thompson movie marksmen by using squibs, but one must suppose that OSHA would have gotten rid of them anyway.

Like most collectibles, the Thompson accessories have their own following, and most collectors of these fine guns spend years looking for ways to make sure that the pieces they are collecting are authentic, and correct to the period. Those individuals will be extremely pleased with this book. There is a full range of accessories detailed in the hundreds of photographs that deal with variations and accessories. The photos are all clear and crisp, with good definition of the features—no murky edges here! Covered are the magazines, the drums, the different parts, oilers, markings, tools, special ammunition, cases, as well as the fabled .22 subcaliber kit!

A staple of any treatment of the Thompson must include an updated serial number list of 15,000 Colt Thompsons that were manufactured up until 1922 and their original dispositions if known. This necessary and useful resource is now 160 pages long. The author, of course, would like to continue compiling this information, so any new "finds" regarding the disposition of 1921 Thompsons should be carefully forwarded to him care of "The Thompson Collectors News," at B/H Publications, PO Box 8710, Newark, OH 43058.

Of course, no firearms collector or Class 3 dealer can be without this book. Eighty-five dollars is short money for the treasure you will get from reading this book, and the information gleaned from it. If it saves you from mistaking one item for another, or allows you to identify one almost overlooked part in a pile of otherwise unexceptional junk...it will have quickly paid for itself. This reviewer considers "Thompson; The American Legend" to be required reading.



Understanding Ballistics: Basic to Advanced Ballistics Simplified, Illustrated, and Explained by Robert A. Rinker. Softcover, 373 pages. Available from Mulberry House Publishing Company, PO Box 575 Corydon, IN 47112. Reviewed by Dan Shea.

Buck Frederick, an old friend and faithful correspondent, forwarded an address and short book review to me a couple of months ago. "Dan," the note read, "you will enjoy this book. The author understands his subject, and can explain it clearly. It is well written, interesting, deep enough where it has to be, and light enough to digest." With such high praise, I immediately ordered the book.

Ballistics: The science of projectiles. Sounds simple enough. Put the cartridge in the firearm, point it, fire it, and the bullet travels down range, sort of arcing downward and losing energy as it travels. That's all it is, correct?

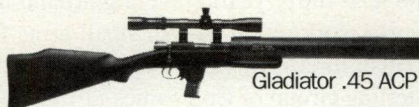
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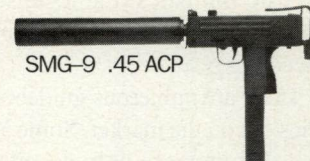


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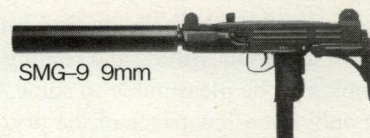
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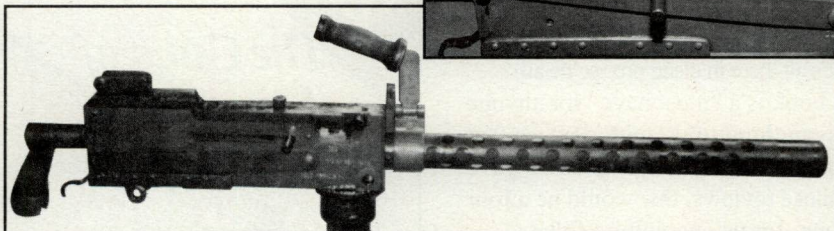
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Very much "incorrect." Actually, Ballistics is broken down into four groups: Interior Ballistics (what happens in the firearm until the projectile leaves the muzzle), Exterior Ballistics (events between the muzzle and the impact point), Terminal Ballistics (event after impact), and Forensic Ballistics (the legal study of all as applied to police investigation and court procedures).

There are numerous guidebooks to ballistics out on the market. Some are so technical that they are only capable of being used as a reference book—to find a definition or a formula. Sitting and reading such a book may be pleasurable to some, but I can only last a few pages of the dry, line-by-line "formula and fact" format before dozing off.

The author of this book has managed to bypass the snooze button. He starts the reader with the basics, then moves to the math, then the physics (Newtonian and Galilean) and does so without reducing the uninitiated to tears, by using a neat technical writer's trick: let them know what's coming in the next chapter is only for those who wish to study deeper, and let them bypass it. Personally, I tried to digest as much as I could, then went back to the formulas later.

There are twenty-eight chapters: Primers, Powders and Gas Expansion; Recoil; Gyroscopic Stability, Velocity and Drag; Trajectory, Minute of Angle and Evaluation of Target Groups; Maximum range, Terminal Ballistics, etc.

Want to calculate a bullet drop from your .30-06, uphill, in the wind, with a handload? How about what it's got left for energy when it gets to the delivery point? Are you fine-tuning where your bullets are going? Want to learn how to use a chronograph? It's all there in clear, precise detail.

This book is a "must have" for anyone who has anything to do with devices that launch projectiles downrange. If I gave stars in these reviews, this would be a four out of four...for us gun culture folks.

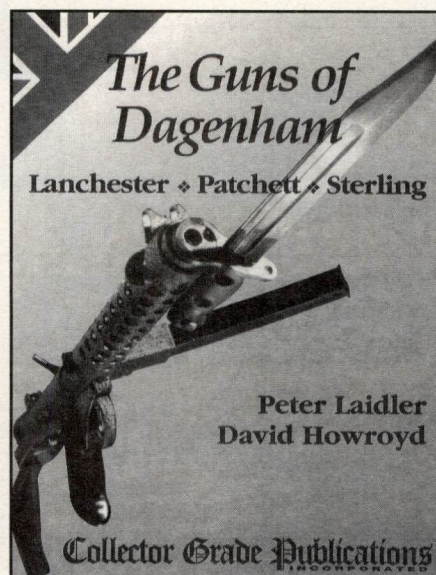
***The Guns of Dagenham* by Peter Laidler and David Howroyd. Hardcover, 336 pages, 371 illustrations. \$47.50 U.S. Published by Collector Grade Publications, PO Box 1046 Cobourg, Ont K9A 4W5 Canada. Reviewed by Dan Shea.**

The authors of this book on the Sterling, Lanchester and Patchett submachine guns have impeccable credentials. Peter Laidler spent two years, from 1963 to 1965, in the British Armorer's course, then was a member of the team of Technical Armors at the School of Infantry. He spent the next thirty years traveling around the world working on British small arms for British forces. David Howroyd joined the Sterling Group of Companies in 1944 as a toolmaking apprentice, and stayed with the company until his retirement in 1988, where he had excelled to General Manager and Works Director of the Sterling Armament Co Ltd. That makes one author with thirty-two years of field experience with the Sterling series, and the other with forty-four years of institutionalized knowledge of the whole series of guns.

You can bank on the accuracy of the in-depth information contained in this book.

The Lanchesters, Patchetts, and Sterlings have been existing in a sort of black hole of information in the general arms community. Several books have been written on them, but they never had any real depth, at least to my desires, anyway. *The Guns of Dagenham* fills in just about all of the possible information that you could ask for, neatly organized, and fully illustrated.

Collector Grade Publications (*The Black Rifle, The Devil's Paintbrush, War Baby, etc.*) is well known for producing top quality books on firearms. This offering continues that tradition. The photography is crisp and clear, with many close-up studies of the parts being discussed.



There are many historical photos, and the combined seventy-plus years of experience the authors have also produced many first hand anecdotes and personal photos.

No stone is left unturned in *The Guns of Dagenham* (the title is a reference to the town the factory is located in). The reader will find full historical information, detailed analysis of the firearms, illustrations of the function and evolution of the Sterling, troubleshooting tips, as well as photographs of just about every accessory and model ever offered.

***History of Modern U.S. Military Small Arms Ammunition* by F.W. Hackley, W.H. Woodin, and E.L. Scranton, volume II 1940 to 1945, ISBN 0-88227-007-9, 300 pages, 230 exact scale drawings, and 100 photographs. \$40.00 plus \$3.00 shipping. Available from Gun Room/Rutgers Press, 127 Raritan Ave., Highland Park, NJ 08904. Phone (908) 545-4344, fax (908) 545-6686. Reviewed by Mark White.**

For those who came in late, volume I covers the time period 1880-1939 and is currently out of print. The revised edition of volume I has been ready for press for some time and is supposed to be published sometime during 1996. If and when it is printed, it will be available from Robert Buttweiler Ltd., Box 721793, Houston, TX 77272. His phone number is (713) 879-6027, Fax 5526, in case one wants to goad him.

Volume III, covering 1946-1977, is in the works and will probably be available before the end of this century. Bill Woodin has been my contact for much of this, and he may be contacted at (520) 298-2954, Fax 1007.

With all of that said, volume II is still in print and presently available. Covering only four years, one might expect this work to be very brief. Not so. This 8 1/2" x 11" book contains roughly 300 pages, 230 exact scale drawings, and 100 photographs. Cartridges were a very important component during our frantic fight for survival during WWII. While this book lacks .22 rimfire ammo used in suppressed pistols for covert ops, it has almost everything else, from the .38 caliber pistol ammo, rifle ammo, and machine gun ammo—

up through the experimental .60 caliber stuff.

WWII was a very exciting time and a very important part of America's history. The total wartime production of .30 caliber rifle/machine gun ammunition exceeded twenty-five billion rounds. Production for the .50 BMG exceeded ten billion rounds. The variety of ammunition types is considerable. For instance, the lowly .38 special round was used in pistols as a shot cartridge, as a tracer, and as an igniter in cluster bombs, grenades and flame throwers. Experiments that shooters of the .50 BMG, 1000-yard matches are trying today (such as solid steel, copper, and oilite bronze bullets; squeeze bore ammo, and smooth bores for hyper velocity gains) were all tried back then. Been there. Did that.

The first third of the book is devoted to small arms ammunition, i.e., .38 and .45 ACP pistol, .30 cal. M1 Carbine, and .30-06 rifle. The remainder is devoted to the .50 BMG ammo in a myriad of variations.

It's all there in minute detail, a veritable blizzard of dates, modifications, specifications, mutations, loadings and headstamps. While not as riveting as *The Long Walk* (the classic true story of POW's in a Siberian prison camp and their escape on foot to Allied Forces in India), it is well written, well organized, interesting, authoritative, and informative. If you are a small-arms buff, or a user/collector of WWII ammunition, you will find a need for this book. Buy a copy before it too goes out of print.

German Military Letter Codes: The Manufacturer's marks of the Third Reich, 1939-45 by John Walter. Hardcover, 128 pages, \$10. Published by Small-Arms Research Publications, East Sussex, England. Available from International Military Antiques Inc., PO Box 256 Millington, NJ 07946 USA (908) 903-1200, fax (908) 903-0106. Reviewed by Dan Shea.

Every collector of military arms comes across manufacturer's codes on the items they are examining. Sometimes the person doesn't even realize the significance of the small letters and numbers. It may not make a difference to the shooter down at the range. It may not make a difference

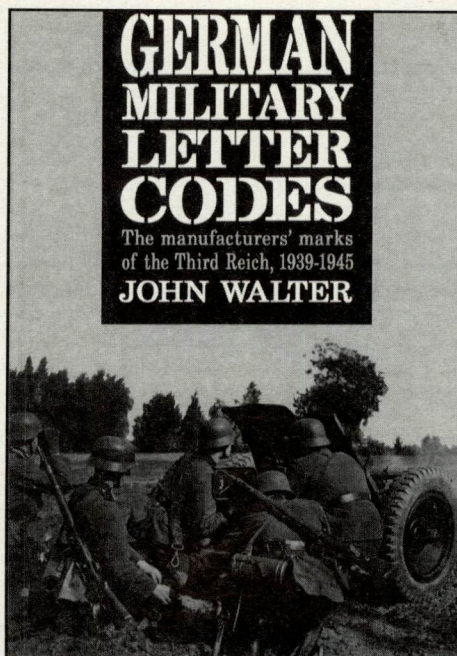
to the casual plinker who bought a Mauser K98 and shoots any ammo he can find. To the machine gunners, serious collectors of German militaria, or any Class 3 dealer, an understanding of these codes is critical.

WWII Germany (Third Reich) was perhaps the most prolific user of manufacturer's codes. Almost every item in the military inventory had a three-letter mark, including many of the parts that make up each piece. On inspection of a machine gun, you will find many different codes on each different piece.

Up until this book came to my attention, I have relied on small charts in the back of various books. On reading Walter's introduction, I began to realize that many of these charts were wrong and had compounded their mistakes by each new author using the last as a basis for his work!

Most of the book is an alphabetical listing of the manufacturer's codes, with a reverse index in the back that lists manufacturers alphabetically, then their codes. Not exactly a New York Times Best Seller list candidate—this is a reference book—but it does fill a niche that has been vacant too long. In the front of the book, Walter discusses the manufacturing and procurement procedure in the Third Reich, and how to find and interpret the codes. This is accompanied by some nice crisp photography, showing various types of German firearms and equipment and some typical marking placements.

German Military Letter Codes is indispensable to anyone "in the biz," serious collectors, and in reality, anyone who



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comes in contact with WWII German militaria. It's inexpensive at ten bucks, and readily available from IMA. Give them a call and say you read about it in *MGN*.

The Standard Catalog of Firearms 6th Edition by Ned Schwing and Herbert Houze. Soft-cover, 928 pages, 2300 photos. \$29.95. Published by Krause Publications, Gun Book Dept MGN, 700 E State St, Iola, WI 54945-9989. Reviewed by Dan Shea

Although this book is a classic resource for regular firearms dealers, it is not usually mentioned in Class 3. This is too bad, because there are several points that make it an essential tool in the Class 3 dealer or enthusiast's library:

1. They cover 1100 manufacturers of firearms, and more than 1200 firearms, cataloging them all with six grades of condition and retail values for every condition. This type of information is essential in the "horse-trading, gun swapping business." Most of the Class 3 dealers out there are deficient in the general smarts about regular firearms values. Many of us will look at an absolutely cherry Model 70 Winchester in .458 and ask, "What, a bolt-action rifle for this Uzi? Naaaawww." Or, trade into something that is totally valueless because it "looked neat and valuable." The tuition costs of learning to be a gun dealer can be horrendous! This book, combined with a few other similar tomes, can help you identify the good deals and bad deals when someone walks in and says: "Hey, I'll take that MP-5, but I need to sell this here Luger to get some of the money, or will you take cash and trade?"

2. While the authors try their hardest to assign values to the semi-automatic "assault weapons," such as the HK, FAL, etc., it is much too volatile a market to trust to the numbers in here. What IS wonderful, is that they have done a very thorough study of the collector type "Any Other Weapons" such as the Marble's Game Getter, the Auto Burglar, and the Handi-gun. There is a good history of each, as well as numerous other oddities that got zapped with special tax in the National Firearms Act of 1934. There are numerous photographs of each model, and the price of the book is validated by this information alone.

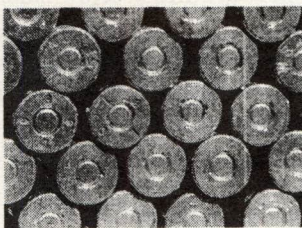


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The Machine Gun Dealer's Bible

The newly revised *Machine Gun Dealer's Bible* is a hands-on reference guide that is available anytime you need it. If you're already a dealer or an FFL, who is contemplating becoming a machine gun dealer, you will have an easy step-by-step guide to refer to. From getting a license to actually doing business, the *Machine Gun Dealer's Bible* will provide you with the information you need. This book will save you a lot of aggravation, time and money.

Written by Dan Shea, Technical Editor of *Machine Gun News*, the *Machine Gun Dealer's Bible* explains:

Individual Ownership

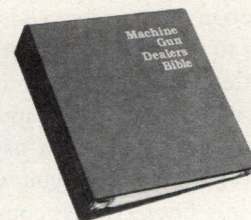
First Time Buyers
Individual Practices
Qualifications for Ownership
The Process
Law Enforcement Signature

Getting A License

Purpose
Type of Business
Locating
Types of Licenses
SOT Classes
FFL Process

Dealing with NFA/BATF

Working Relationship
Filing Transfers
Tracking Transfers
Procedure or Legality Question Answered
Finding Out the Registration Status of a Firearm and more....



From the space to store your essential original documents, to the specially-designed bound record book, to the resources section, to the copies of all of the federal forms that can be taken out for use or photocopying, the *Machine Gun Dealer's Bible* is meant to be your working tool. The entire book is meant to be part of your daily business. The three-ring binder format allows the insertion of update packages when the *Machine Gun Dealer's Bible* needs a revision.

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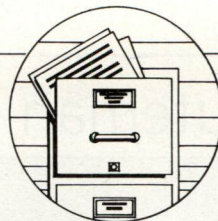
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The Forms

by DAN SHEA

Lots of information this month. First off, the long anticipated Charts of National Firearms Registry activity for 1995 are included in the following pages. *MGN* traditionally tries to get them from the ATF in February of each year, but things have been held up a little. If you have never seen these charts before, get ready for some eye-opening information. I suggest that you get a back issue that contains last year's charts, April 1995, and compare the registration and activities by state. Many dealers and manufacturers use this info to plan their business moves.

Destructive Devices are still the majority of new forms, and these are the distraction devices used by law enforcement agencies. It has recently been suggested that a separate Registry be established to track these items, because the sheer volume of them is interfering with the Registry. There is a change in the way we get the charts, and they are broken down by type of firearm, as well as by month of activity.

Magazine Ban info: Just as all of the Form 6's to import pre-1994 large capacity magazines were about to be cleared on April 5th, Treasury sent a message over to hold them.

They did not want any magazines released until the CFR had been totally written to the new regulations. As of today, April 28, 1996, it looks like the ATF is definitely going to have to comply with the law as written: Large Capacity Feeding Devices manufactured before 13 September 1994, are ALL grandfathered for private ownership in the United States, including magazines that are overseas. As long as an importer can document that they were manufactured before 1994, he can bring them in. It's just a matter of time.

Problem solving with the ATF: Sources tell me that there is a new "problem squad" in Washington, and they are directed to make Senators and Congressmen happy. As FAST as they possibly can. What does

this mean? Well, if you have a legitimate complaint, treat the ATF personnel courteously, and then call your congressman. It seems that after the well-deserved congressional scrutiny of the Waco and Ruby Ridge hearings, the powers that be at the ATF do not want to sit on the hot seat anymore. Parts of the agency had degenerated into almost non-functionality lately, while others were doing just fine. If you are an American citizen who needs to solve a problem, here is your ticket to getting action. Make sure that you have 100 percent legitimate standing, don't get a congressman involved on speculation.

An alert reader in northern Virginia faxed *MGN* a copy of an article that appeared in the March 1996 "FAQ" column of *Supply Line*, an MVPA Publication (P.O. Box 520378, Independence, MO 64052-0378), "What about 'memorial' vehicles?" wherein the author speaks about government donated property. I have made the point numerous times that you cannot just buy that 57 mm gun off of the front lawn of the VFW and register it. MVPA quotes Title 10, USC 2572 Donation Agreement which states "The donee agrees not to use the donated property as security for any loan, nor sell, lease, rent, exchange the property for monetary gain or other use, without the prior written approval of the donor" which is the United States Government. Basically, don't try it. There is no "statute of limitations" on this. If you take possession of this type of equipment (e.g. tanks, vehicles, cannons, etc.), then the U.S. government can just show up one day and take it back, no matter how many receipts you have for it. In addition, if you registered it as your own manufacture, there will probably be additional questions raised. Caveat Emptor!

Q Is a PIAT a registered firearm?

Anonymous

A The Projector, Infantry, Anti-Tank, a WWII British anti-tank grenade/

rocket thrower, has been removed from the National Firearms Registry. It is still considered a firearm and should be treated as such in all transactions. Individual to individual transfers, within a state that allows firearms sales, are all right. If a dealer is involved, or you cross state lines, then the Federal laws apply.

Q I have a "friend" who has two Manville gas guns. One is a 12 gauge 24 shot, and the other is a pistol with five 12 gauge cylinders. Do these require registration.

Anonymous

A This "Anonymous" character is writing in a lot recently. To your question—Manville made his amazing guns in the late 1930's, hoping to give law enforcement a better edge against gangs and thugs. His 12 ga. design will in fact chamber regular ammunition, and since it is "non sporting" and is over 1/2" in diameter, it might be construed to be a Destructive Device like all those Strikers and Streetsweepers...except, it does not have a buttstock, so it is an "Any Other Weapon" requiring registration under the National Firearms Act (Title II GCA 68). The cylinder on the five-shot pistol is an alloy, not bakelite as some think. If these are registered, they are fine. If not, then they are considered contraband. If they don't have barrels on them, then they are not even complete firearms, they are just receivers. It is possible, if this is your case, to register them as "Any Other Weapons" on a Form 1, or have a Class 2 manufacturer do it on a Form 2. Once the Form 1 is approved, you could then go locate a barrel and install it. This may sound like a "quick way out." I caution against "shenanigans." If the barrel is in it, it is contraband and should be turned over to ATF, law enforcement agency, or a state affiliated museum.

This brings up another interesting thought. Manville made several larger

models: 25 mm and 37 mm. You might have seen them in "The Dogs of War" (great movie!). Some of these Manville guns were supplied with 12 gauge inserts. If that is what you have, simply remove the inserts and destroy them, and your Manville gun will be totally in compliance. Make sure you do not have solid ammunition for it; that could be another sticking point.

Incidentally, to the readers: I am looking for a book called "Tear Gas Munitions" by Swearngen (Publisher Charles Thomas, 1960's I believe). If you see a copy or have a spare, I am willing to purchase it. Provided the price is REASONABLE, of course!

Q Hey, Dan! did you notice the mistake in the new "Yellow Book?" Page 96 says a dealer can't keep pre-86 dealer samples when he gives up a license! I called ATF on it, and they said it remains as always.

Denny
A Actually, no, I hadn't noticed it. Well, it's in the procedures section, page 96, center column, section 10 "G" 1—Going Out of Business. The first paragraph makes the post-1986 dealer sample restrictions comments, and the second one clarifies it with "When you, as a Special Occupational Taxpayer, go out of business as a dealer in NFA firearms, you may, if you are a sole proprietorship, retain those weapons imported or manufactured prior to May 19, 1986, the effective date of 18 USC 922 (o)." The mistake where it says "These firearms may only be transferred to approved law enforcement/government agencies as sales samples" was intended only for post-1986 machine guns. In my humble opinion that is the SECOND mistake—922(o) has been thoroughly trashed in several courts, and the post-86 dealer samples are still chattel property and should not be subject to such restrictions. The dealer sample scenario still has not been completely played out yet.

Q Due to the bogus "Crime Bill" and its limitations on the dreaded threaded barrels, can a Class 2 manufacturer thread a post-ban AR-15 barrel for adaptation for a suppressor? If he can't, then can he permanently install a suppressor?

SRB
A From all accounts that I have seen, only if the suppressor stays with the barrel at all times—not really permanent-

BUREAU OF ALCOHOL, TOBACCO AND FIREARMS NFA WEAPONS I INVENTORY – BY STATE OF CURRENT OWNER

Data Through December 95

STATE	MG	SI	SR	SS	DD	AW	UNC	TOTAL
ALABAMA	9552	1090	356	1016	5438	934	15	18401
ALASKA	1055	388	44	144	905	271	18	2825
ARIZONA	8320	3373	592	662	18940	692	34	32613
ARKANSAS	2409	852	133	397	1680	429	30	5930
CALIFORNIA	12068	1329	978	3419	43542	3431	89	64856
COLORADO	2893	983	237	672	6540	754	34	12113
CONNECTICUT	14005	1781	344	359	2518	540	34	19581
DELAWARE	108	13	30	114	167	31		463
DISTRICT OF COLUMBIA	1863	58	27	121	2115	62		4246
FLORIDA	12713	6010	378	1326	30717	2053	58	53255
GEORGIA	16651	7271	338	4406	5634	1307	61	35668
HAWAII	203	7	39	30	366	35	4	684
IDAHO	1483	356	131	189	2049	435	22	4665
ILLINOIS	8588	318	370	1115	12245	940	54	23630
INDIANA	9412	2333	210	2496	10066	836	71	25424
IOWA	1030	74	159	467	3094	862	26	5712
KANSAS	1205	58	175	459	4156	637	21	6711
KENTUCKY	4444	722	222	555	3276	546	38	9803
LOUISIANA	3222	649	176	508	6751	479	20	11805
MAINE	1566	371	144	191	780	629	20	3701
MARYLAND	6247	1549	237	539	15444	669	33	24718
MASSACHUSETTS	3994	167	268	367	1974	761	56	7587
MICHIGAN	5684	686	342	639	4539	1105	59	13054
MINNESOTA	2531	460	227	691	6538	1231	66	11744
MISSISSIPPI	2226	69	106	356	1003	298	10	4068
MISSOURI	3480	386	298	1140	5154	1126	63	11647
MONTANA	1225	55	118	155	714	331	12	2610
NEBRASKA	1277	187	155	378	1045	637	24	3703
NEVADA	3734	819	100	237	2759	339	14	8002
NEW HAMPSHIRE	3038	375	88	98	715	267	12	4593
NEW JERSEY	3232	540	134	635	13191	407	28	18167
NEW MEXICO	2258	431	155	256	5182	188	17	8487
NEW YORK	4373	172	415	680	8099	1042	49	14830
NORTH CAROLINA	5413	1398	237	687	7390	602	39	15766
NORTH DAKOTA	814	968	61	114	353	144	7	2461
OHIO	11324	2179	576	1168	20364	1439	133	37183
OKLAHOMA	6943	1288	333	837	2640	911	38	12990
OREGON	4023	1808	570	727	4316	1268	58	12770
PENNSYLVANIA	11629	2069	643	939	6945	1328	215	23768
RHODE ISLAND	345	9	33	50	712	39	6	1194
SOUTH CAROLINA	2248	277	192	737	3514	543	18	7529
SOUTH DAKOTA	679	69	60	127	333	319	12	1599
TENNESSEE	5512	1938	230	935	7924	868	35	17442
TEXAS	17309	14596	1215	3258	20721	3189	194	60482
UTAH	6023	309	74	205	2894	187	11	9703
VERMONT	812	68	43	36	2630	203	4	3796
VIRGINIA	10533	1884	374	981	16817	1536	55	32180
WASHINGTON	1748	331	450	485	7590	1273	27	11904
WEST VIRGINIA	1331	195	160	183	290	322	3	2484
WISCONSIN	3244	837	188	553	7153	634	20	12629
WYOMING	1080	96	78	168	31338	280	13	33053
PUERTO RICO	637	4	6	2	34	1		684
VIRGIN ISLANDS	29							29
TOTAL	247765	64255	13249	37009	371294	39390	1980	774942

MG-Machine Gun, SI - Silencer, SR- Short Bbl Rifle, SS - Short Bbl Shotgun,
DD- Destructive Device, AW - Any Other Weapon, UNC - Unknown

Bureau of Alcohol, Tobacco and Firearms
NFA Registration Activity - Current and Prior 4 Quarters
WEAPON TYPE: DESTRUCTIVE DEVICE

Month Year	F1	F2	F3	F4	F5	F9	F10	LTR	OTHER	TOTAL
JAN 95	48	148	604	9	2664	1273				4746
FEB 95	50	5297	3	10	4988	503				10851
MAR 95	27	7288	16	6	3650	430	1			11418
QUARTERLY TOTAL	125	12733	623	25	11302	2206	1			27015
APR 95	63	2728	30	9	4366	1304				8500
MAY 95	87	3931	24	9	6400	924	8	1		11384
JUN 95	51	5892	2063	9	4131	1732		1		13879
QUARTERLY TOTAL	201	12551	2117	27	14897	3960	8	2		33763
JUL 95	86	6181	583	5	2947	383	1			10186
AUG 95	70	8669	89	13	5005	1055	1			14902
SEP 95	40	6950	274	8	6933	1295	1			15501
QUARTERLY TOTAL	196	21800	946	26	14885	2733	3			40589
OCT 95	34	5052	532	8	4937	517				11080
NOV 95	52	6746	1	8	3318	814				10939
DEC 95	14	4766	394		2427	562				8163
QUARTERLY TOTAL	100	16564	927	16	10682	1893				30182
4 QTR TOTAL	622	63648	4613	94	51766	10792	12	2		131549

WEAPON TYPE: SILENCER

Month Year	F1	F2	F3	F4	F5	F9	F10	LTR	OTHER	TOTAL
JAN 95	1	270	356	161	71	21				880
FEB 95	3	223	275	132	59		3			695
MAR 95	1	185	337	114	82					719
QUARTERLY TOTAL	5	678	968	407	212	21	3			2294
APR 95	4	222	180	93	77	15				591
MAY 95	3	328	398	184	48	15				976
JUN 95	3	442	253	198	104					1000
QUARTERLY TOTAL	10	992	831	475	229	30				2567
JUL 95		299	453	122	80	6				960
AUG 95	2	373	269	164	40	7	1			856
SEP 95	2	107	183	201	254					747
QUARTERLY TOTAL	4	779	905	487	374	13	1			2563
OCT 95		185	177	134	91	20	1			608
NOV 95	2	194	136	168	69					569
DEC 95		6	127	89	105	4				331
QUARTERLY TOTAL	2	385	440	391	265	24	1			1508
4 QTR TOTAL	21	2834	3144	1760	1080	88	5			8932

WEAPON TYPE: MACHINE GUN

Month Year	F1	F2	F3	F4	F5	F9	F10	LTR	OTHER	TOTAL
JAN 95	3	423	733	577	514	34	334			2618
FEB 95	2	933	959	468	667	222	184	1		3436
MAR 95	12	580	716	357	560	65	93	1		2384
QUARTERLY TOTAL	17	1936	2408	1402	1741	321	611	2		8438
APR 95		722	775	403	595	309	139	3		2946
MAY 95		6031	1020	590	569	5747	122	1		14080
JUN 95	1	465	556	471	452	464	124	5		2538
QUARTERLY TOTAL	1	7218	2351	1464	1616	6520	385	9		19564
JUL 95		1912	834	399	472	1496	39		1	5153
AUG 95	5	815	747	589	497	616	57			3326
SEP 95		1036	450	550	528	345	102			3011
QUARTERLY TOTAL	5	3763	2031	1538	1497	2457	198		1	11490
OCT 95	2	1737	676	313	3873	1835	76			8512
NOV 95		9706	410	519	460	7988	31			19114
DEC 95	1	894	466	254	2050	506	50	5		4226
QUARTERLY TOTAL	3	12337	1552	1086	6383	10329	157	5		31852
4 QTR TOTAL	26	25254	8342	5490	11237	19627	1351	16	1	71344

F1-Form 1: Registered by Individuals. F2-Form 2: Registered by Class 2 or Importer and still in their possession. F3-Form 3: Possessed by S.O.T. (Class 3 Dealer, Class 2, 7, 9, 10). F4-Form 4: Individual: tax paid. F5-Form 5: Law Enforcement and for repair. F6-Form 6: Imported. F9-Form 9: Permanent Exportation. F10-Form 10: Acquired by Certain Governmental Entities. LTR-Letter: Amnesty period re. by letter. 4467-Form 4467: Registered during the '68 GCA Amnesty. OTHER-Other Category: For "who knows what."

ly attached. Just present with the barrel. If any manufacturers have this in writing, please pass it on.

QI'm a C&R license holder and considering purchasing the *Machine Gun Dealer's Bible*. Question: Does it cover those issues regarding C&R problems and interests? Is there a separate section for C&R? Hopefully the C&R stuff is not mixed up with the other stuff as the Fed publications seem to do! I do have a direct, immediate question though. If I've gotten an item through my C&R (NFA or otherwise) do I have to hold it for any period of time before I can dispose of it (sale or gift)? I understand that only a bound book entry is required, but the Fed literature has me confused on the issue of a retention period. Is a separate bound book needed for NFA items? Thanks, much. You've a great publication that is read cover to cover as soon as it gets into the house.

HBP

AFirst, the *Machine Gun Dealer's Bible* covers a LOT of information, and the C&R section covers most of the information that you need. As far as "when" can you sell something—immediately. You are not a dealer, but you are not restricted from trading and selling to increase your collection. On the other hand, a pattern of sales is going to eventually lead to some questions as to whether you are collecting or "in business." If that isn't clear enough, I suggest having a paid lunch with a good lawyer. Ask him about "intent." He should be able to clear it up. Are you dealing or collecting and occasionally selling some of your collection?

QI recently received a machine gun transferred tax paid on a Form 4. Both the transferor and I hold C&R Federal Firearms Licenses. In the "Approved" box the following was stamped: GROUP "A." I have received other machine guns on Form 4's, but have never seen this before. Is this condition attached to the approval or just some sort of new notation for categorizing transfers?

Lelan

AGroup A is the group of examiners at the National Firearms Act Branch of ATF in Washington that does the Form 4 transfers. This group is who all correspondence, regarding a Form 4 transfer or Form 1 filing, should be directed. NFA used to assign examiners by alphabetical

order, but last year decided on the "team" method.

Q I have a question, sirs. If I purchase a full-auto weapon and the weapon wears out or the bolt breaks etc., can I get another full auto bolt etc., or is the gun finished? Is the paperwork only for that bolt?

J.F.

A That is the dilemma, isn't it? You cannot replace the registered part, only repair it. If you have a registered receiver and the bolt wears out, you can get a new bolt. If the receiver is destroyed, you are out of luck. People with "registered drop-in sears" face this question all the time, and there is brisk, good business to be had by talented gunsmiths who can repair these sears.

Q Help! I'm so confused. Can a Class 3 dealer transfer a post dealer sample (if he has conveyed it to himself/his collection)?

I think I need Knob Creek. Who do I contact for fees, schedules, directions, dates, accommodations, etc. Where is the nearest airfield if a private plane option available?

Is there a "Gun Digest" type book published that would detail potentially available full autos? I know I want some but not what's out there. Are select fire Calicos available? If not (post-86)? Can a Class 2 manufacturer convert my semi-auto Calicos to select fire? Can virtually any semi auto be converted to select fire (theoretically)?

Mike

A You can't transfer the post-1986 dealer sample to your own collection! If you mistakenly kept one after ending your Special Occupational Tax status as a Class 3 dealer or Class 2 manufacturer, you will be assessed a \$200 transfer tax when the ATF takes it. You can transfer it to another Class 3, Class 2, or law enforcement agency, but you will have to pay the \$200 transfer tax even though it is a restricted firearm; the tax is levied on all nonexempt transfers. You are nonexempt if you ended SOT status.

Knob Creek information is in MGN's "Calendar of Events" March 1996 issue, or call them for details at (502) 922-4457.

"The Machine Gun Dealer's Bible" has a machine gun section that details much of what is available out there to

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1,000,000 → 223/SS-109, 62 gr. U.S. Steel penetrator bullets. Grade 1 \$25,000.

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1,000,000 → 30 caliber, 163 gr. AP bullets. Grade 2 only \$95,000. 250 sample pack \$50.

1,000,000 → 50 caliber tracer bullets \$250,000. 100 sample pack \$100.

1,000,000 → 50 caliber API bullets \$300,000. 100 sample pack \$100.

1,000,000 → 50 caliber hollow tracer jackets \$65,000. 100 sample pack \$20.

Quantity Buyers Special Prices

223/SS-109, 62 gr. U.S. Steel penetrator bullets grade 1 10,000/\$500	45 ACP 230 gr. conical point plated bullet 10,000/\$300, 100 sample \$5
308 150 gr. tracer bullets grade 2 10,000/\$2,500	50 cal. tracer bullets 1000/\$800, 100 sample pack \$100
250 sample pack \$75	50 cal. API bullets 1000/\$900, 100 sample pack \$100
30 cal. 163 gr. AP bullets grade 2 10,000/\$1,500, 250 sample pack \$50	50 cal. sabot AP bullets 1000/\$300, 100 sample pack \$40
30 cal. (308 or 310 dia.) 123 gr. bullets 10,000/\$1,000, 250 sample pack \$50	50 cal. hollow tracer jackets 1000/\$150, 100 sample pack \$20
.30-06 silver steel or green anodized case dummy rds. \$10,000/\$400, 100 sample pack \$10	WC-872 or WC-860 50 cal. powder 8#/\$40, 32#/\$99, 96#/\$250
9mm Luger tracer ammo 1000 rds/\$350, 50 rd sample box \$25	20 mm Oerlikon T.P. projectiles w/removable brass or zinc nose fuses 10,000/\$600, 100 sample pack \$10
9mm Luger tracer bullets 1000/\$250, 100 sample box \$40	Inert practice rifle grenades 100/\$500 sample \$10
9mm 148 gr. plated ball bullets 10,000/\$280, 100 sample pack \$5	(Launchers & Launch Blanks in .308 & .30-06 available POR)
357 Magnum nickle-plated brass cases 1000/\$80	120 mm Tankkiller Sabot (steel penetrator only) 18" tall w/stabilizer assembly 10/\$400, sample \$50
45 ACP commercial or match-fired brass cases 1000/\$80	
45 ACP tracer bullets 1000/\$400, 100 sample box \$50	

Visa or MC O.K. Write for complete listing of sale.

Sign & mail or fax the following statement with your order:

I am over 18 years old and not prohibited from possessing this merchandise.

Bureau of Alcohol, Tobacco and Firearms
NFA Registration Activity - Current and Prior 4 Quarters

WEAPON TYPE: SHORT BARRELED RIFLE

Month Year	F1	F2	F3	F4	F5	F9	F10	LTR	OTHER	TOTAL
JAN 95	2	83	8		3	77	3			176
FEB 95	1	9	6	4	2	109	1			132
MAR 95	1	2	5	4	2					14
QUARTERLY TOTAL	4	94	19	8	7	186	4			322
APR 95	2	10	4		2		1			19
MAY 95	3	4	9	5	2		1			24
JUN 95	3	7	12	3	2					27
QUARTERLY TOTAL	8	21	25	8	6		2			70
JUL 95	5	11	5	1	2					24
AUG 95	6	13	5	4	3	4	3			38
SEP 95	3	1	4	5	7		7			27
QUARTERLY TOTAL	14	25	14	10	12	4	10			89
OCT 95	6	3	3	3	3					18
NOV 95	11	1		2			1			15
DEC 95	1		6	1						8
QUARTERLY TOTAL	18	4	9	6	3		1			41
4 QTR TOTAL	44	144	67	32	28	190	17			522

WEAPON TYPE: SAWED-OFF SHOTGUN

Month Year	F1	F2	F3	F4	F5	F9	F10	LTR	OTHER	TOTAL
JAN 95	21	130	17	12	58	18	8			264
FEB 95	153	124	17	9	85	13	7		1	409
MAR 95	48	284	41	14	180	15	2			584
QUARTERLY TOTAL	222	538	75	35	323	46	17		1	1257
APR 95	5	600	19	7	197	493	4			1325
MAY 95	12	242	51	10	60		5			380
JUN 95	37	213	47	10	223	44	11			585
QUARTERLY TOTAL	54	1055	117	27	480	537	20			2290
JUL 95	68	70	45	12	45		17			257
AUG 95	22	463	19	13	84	4	1			606
SEP 95	15	29	33	13	103	44	4			241
QUARTERLY TOTAL	105	562	97	38	232	48	22			1104
OCT 95	14	695	24	5	820	67	21			1646
NOV 95	2	108	19	16	67	6	4			222
DEC 95	12	67	10	8	86	80	15	1		279
QUARTERLY TOTAL	28	870	53	29	973	153	40	1		2147
4 QTR TOTAL	409	3025	342	129	2008	784	99	1	1	6798

WEAPON TYPE: ANY OTHER WEAPON

Month Year	F1	F2	F3	F4	F5	F9	F10	LTR	OTHER	TOTAL
JAN 95	1	33	38	187	100		1			360
FEB 95		35	29	22	5		6			97
MAR 95		393	72	18	103					586
QUARTERLY TOTAL	1	461	139	227	208		7			1043
APR 95		111	270	24	3					409
MAY 95		4	43	34	10	1				92
JUN 95		19	43	38	4	1				105
QUARTERLY TOTAL		134	356	96	17	2				605
JUL 95		1	49	24	2					76
AUG 95		7	23	47	10					87
SEP 95		1	29	46	3	20	1			100
QUARTERLY TOTAL		9	101	117	15	20	1			263
OCT 95		19	19	37	1					76
NOV 95		1	22	52	3					78
DEC 95	1	1	15	22	4					43
QUARTERLY TOTAL	1	21	56	111	8					197
4 QTR TOTAL	2	625	652	551	248	22	8			2108

F1-Form 1: Registered by Individuals. F2-Form 2: Registered by Class 2 or Importer and still in their possession. F3-Form 3: Possessed by S.O.T. (Class 3 Dealer, Class 2, 7, 9, 10). F4-Form 4: Individual: tax paid. F5-Form 5: Law Enforcement and for repair. F6-Form 6: Imported. F9-Form 9: Permanent Exportation. F10-Form 10: Acquired by Certain Governmental Entities. LTR-Letter: Amnesty period re. by letter. 4467-Form 4467: Registered during the '68 GCA Amnesty. OTHER-Other Category: For "who knows what."

civilian shooters. I recommend it, but then, I wrote it.

There are no registered, transferable Calico machine guns that I know of. Certainly no factory original guns have surfaced that were pre-1986. I did see one .22 caliber Calico machine gun that was fully transferable at the Group Industries auction last year, but that was a conversion. Converting any semi-automatic to full automatic can be done, with the right tools and talent. Making them reliable is a different matter completely. So is your owning them! The only machine guns that you can own as an individual in the United States are those that were converted to or manufactured as fully-automatic firearms before 19 May 1986, and were registered with the National Firearms Act Branch, ATF before that date. No Class 2 can convert your guns and let you have them without breaking the law.

Q When I was living in Arizona, I purchased a suppressor from AWC Systems Technology in Phoenix. After the transfer had been in progress a while, I stopped the transfer due to my moving out of state. The Form 4 was returned to me but I never received a refund of the \$200 fee from the government. The transfer was started again, and completed, in Louisiana after filing a new Form 4 and another \$200 fee. Please tell me how to go about receiving a refund for the attempted Arizona transfer. I have been trying for a couple of years, but have only been transferred from government receptionists to phones that go unanswered, and letters I have written have yet to be answered.

Alan

A There is a form that you should use for that. The number is ATF F 2635 (5620.8) "Claim—Alcohol, Tobacco, and Firearms Taxes." Get a copy from your local ATF office, and fill it out as instructed. Be sure to document it with photocopies of the pertinent Form 4's. Have you called AWC about this? They could probably handle it by voiding the transfer. That would probably be a lot quicker.

Q I have just bought a registered 9 mm bolt for my semi-auto Uzi. For cosmetic purposes is it all right to weld the receiver marking that says semi-auto as long as I do not destroy the serial number and name of manufacturer markings?

R L

A Yes, you can do that. Exactly like you stated it here: it is a felony to obliterate the serial number! Just do the "sear-auto" markings section.

Q How does a private individual go about importing a short barreled rifle? I assume you need an NFA dealer. I was thinking about importing a SIG SG551 with a 13" barrel given the current ban on the import of the Title 1 versions.

Steve

A A private individual does NOT import a short barreled rifle or any other National Firearms Act firearm. These are all restricted to law enforcement or as sales samples, just like machine guns. The only difference is that these are not subject to 922(o), which only has control of machine guns. Silencers, short rifles and shotguns, Destructive Devices, and Any Other Weapons can all be imported and are treated just like the so-called "pre-86 dealer sample" machine guns are. Dealers may keep them on ending Special Occupational Status. These items are NEVER available to the public. Nice choice of a rifle, Steve. Too bad your government doesn't think you should have it. Remember to vote in this coming election....

Q It is our interpretation that installing a registered auto-sear in an AR-15 doesn't change the legal status of the AR-15. Thus the sear could be moved from gun to gun...is this correct?

Jeff

A 100 percent correct. You may move the sear between firearms. Be careful, specifically on the AR-15 series guns. Never leave any of the following parts in a semi-automatic with the sear being somewhere else: M16 hammer; selector; trigger; disconnecter; or bolt carrier. The other "trap" in this situation is making sure that you have a barrel that is more than 16" in length on all semi-autos unless the sear is with the gun.

Q I am a Class 3 living in a non-MG state (South Carolina) fifteen miles from the border of a more enlightened state (Georgia). The only NFA weapons that can be owned by individuals in SC are suppressors. I primarily sell MGs to Law Enforcement and suppressors to individuals in SC. I would like to begin selling SMGs to Georgia residents via gun shows across the river in Augusta, GA. Am I correct in

Bureau of Alcohol, Tobacco and Firearms										
NFA Registration Activity - Current and Prior 4 Quarters										
WEAPON TYPE: ALL TYPES										
Month Year	F1	F2	F3	F4	F5	F9	F10	LTR	OTHER	TOTAL
JAN 95	76	1087	1756	946	3410	1423	346			9044
FEB 95	209	6621	1290	645	5806	847	201	1	1	15621
MAR 95	89	8732	1187	513	4577	510	96	1		15705
QUARTERLY TOTAL	374	16440	4233	2104	13793	2780	643	2	1	40370
APR 95	74	4393	1278	536	5240	2121	144	3		13789
MAY 95	105	10540	1545	832	7089	6687	136	2		26936
JUN 95	95	7038	2974	729	4916	2241	135	6		18134
QUARTERLY TOTAL	274	21971	5797	2097	17245	11049	415	11		58859
JUL 95	159	8474	1970	564	3548	1885	57		1	16658
AUG 95	105	10340	1152	830	5639	1686	63			19815
SEP 95	60	8239	973	824	7828	1704	115			19743
QUARTERLY TOTAL	324	27053	4095	2218	17015	5275	235		1	56216
OCT 95	56	7691	1546	500	9725	2439	96			22055
NOV 95	67	16756	588	766	3917	8808	36			30938
DEC 95	29	5734	1018	374	4672	1152	65	6		13050
QUARTERLY TOTAL	152	30181	3152	1640	18314	12399	199	6		66043
4 QTR TOTAL	1124	95645	17277	8059	66367	31503	1492	19	2	221488

my understanding that I can only sell directly to residents of my home state (SC)? If so, can I set up a table at a Georgia gun show, take orders and money, and transfer the ordered weapons to a friendly Class 3 in Georgia (by Form 3), and have the customer take delivery from the GA Class 3 when his Form 4 is approved? If all this is kosher so far, does the customer have to physically pick up the gun at the GA Class 3's shop, or can the dealer UPS it instate (GA) to the Form-4-approved customer?

Allen

A You are on base all the way here. You can certainly sell to people out of your state, but they must receive it from a dealer in their state. The correct procedure is as follows: at the show, make the sale. Take firearm back to your licensed premises. File Form 3 to the Georgia dealer. When that comes back approved, ship it to the dealer. He then fills in the Form 4 to the customer. Once that is approved, the customer comes into the Georgia Class 3's shop, fills out the Form 4473 and takes possession. He can, in fact, obtain the machine gun without going to the dealer's shop by utilizing a Form 4473 part II, "Intrastate non-over-the-counter transaction." This is that funny green 4473 you may have looked and put back into the dealer packet ATF sent you. Most dealers do not use them, because they make them nervous. Once the dealer has complied with the 4473 part II, he can UPS the firearm to the customer. I personally don't like to use them; I want my customer filling out the form in front of me. Just a personal quirk.

Q I have received my copy of the *Machine Gun Dealer's Bible* and according to your suggestion, "read through as reading a novel...." which I have done this weekend.

Let me begin my echoing the praise of ever so many other accolades sent in by your many satisfied readers, and will offer two simple words, "outstanding" and "invaluable" and worth every dollar.

I have been a Class 3 dealer for 10 years, and thought I knew pretty much all there was to know about the ins and outs of this purported clandestine business, but after reading the "Bible" it not only brought a vast new level of knowledge, but also generated a few other questions, in which I could not find answers, thus the purpose of this memo.

You state that an "SOT holder can transport NFA weapons without restriction from one region and/or state or another, so long as that area has no specific restrictions."

You will note that I reside in California, not necessarily known for its liberal attitude for any weapons, let alone NFA weapons. To possess these weapons in California, aside from an SOT, one requires three separate additional permits, i.e. "To Sell, To Possess and To Transport."

These permits are issued annually, and are getting more difficult to renew, let alone receive a new application. My question is, if I gave up the three California permits, does the SOT allow me to transport "machine guns" in the State of California?

According to the law, as I understand it, would it also be legal to fire these full-

auto weapons on private lands with the owner's permission, of course, in a safe and sane manner?

I know I should ask someone from the DOJ here in California, but rather than open a possible "can of worms" where not necessary, I come to a person I can trust, knowing that there is no BS to follow.

Finally, and possibly this question may be in the form of correction, but in your "Bible" you state that an application for a first-time FFL will cost \$200 and that a renewal is \$150 or \$50 per year.

On my renewal application that I am preparing to complete, I note that they ask for \$90 for three years. Who is correct? Thanks again for your great magazine and especially the "Bible" and your response to these questions.

L.

A First, to my mistake. The renewal for a dealer is \$30 per year, or \$90 for the required 3-year application. On to your question, there are two jurisdictions here: the State of California and the federal government.

Once you became a Special Occupational Taxpayer (Class 3), you became legal for transporting these firearms, in ANY state, as long as you are legal where you started and where you finish, and you have the firearms locked up and unloaded. You can travel, unmolested, from place to place. That is part of the Firearms Owners Protection Act of 1986, more commonly referred to as "McClure-Volkmer." That is the Federal jurisdiction, Interstate Commerce, and revenue raising.

As far as the State of California, you must be in compliance with all of their laws, or you face their wrath. If you don't have the required state licenses, you are asking for trouble. Not from the ATF—the only thing they can do in your case is see if you have a legitimate Federal Firearms License and current Special Occupational Tax. Trouble would be from the State.

One other note: On your license renewal, you have to certify that you are in compliance with all state and local laws. If you are not, they can pull your FFL! I would suggest that you keep in compliance with the state ordinances.

Questions to:

Dan Shea c/o MGN

PO Box 459

Lake Hamilton, AR 71951

E-mail: MGNews@aol.com

BUREAU OF ALCOHOL, TOBACCO AND FIREARMS
NFA REGISTRATION ACTIVITY - BY STATE OF APPLICANT

STATE	F1	F2	F3	F4	F5	F6	F10	LTR	4467	OTHER	TOTAL
ALABAMA	758	4457	8822	4027	15623	69	216	69	1912	52	36005
ALASKA	185	77	2039	834	1233	4	34	20	175	21	4622
ARIZONA	1090	48680	16308	6197	11355	55	148	244	4233	201	88511
ARKANSAS	556	3549	3767	1779	3409	60	111	10	627	34	13902
CALIFORNIA	4064	13095	12614	549	51331	858	1394	526	5305	2697	92433
COLORADO	1163	1341	5139	1650	8243	109	136	63	716	90	18650
CONNECTICUT	477	142131	8946	3465	3997	211	300	64	880	84	160555
DELAWARE	27	1	16	4	270	26	31	18	105	2	500
DIST. OF C.	86	667	1161	20	3660	153	3	16	95	261	6122
FLORIDA	1118	80703	24636	6838	27159	133	497	316	1919	174	143493
GEORGIA	975	39832	35814	5859	19929	113	180	215	2066	182	105165
HAWAII	81	7	9	5	587	17	39	7	89	3	844
IDAHO	283	302	2162	994	2947	44	95	14	482	79	7402
ILLINOIS	1750	6763	13872	659	16121	640	525	582	2008	233	43153
INDIANA	1200	858	10644	6054	18046	200	328	57	908	104	38399
IOWA	1031	258	410	282	3692	181	150	30	731	50	6815
KANSAS	690	112	1092	179	5488	134	269	63	794	56	8877
KENTUCKY	603	8112	9909	2657	6397	189	314	120	1045	62	29408
LOUISIANA	492	512	3670	772	8674	127	232	131	923	37	15570
MAINE	474	9026	4215	702	1383	43	93	63	545	26	16570
MARYLAND	476	2426	10319	4467	16824	173	110	148	873	119	35935
MASS.	1178	5065	3756	1332	3326	266	158	94	853	155	16183
MICHIGAN	1206	3955	2835	653	7111	632	346	134	1740	67	18679
MINNESOTA	1558	1271	1910	1267	6983	191	553	64	544	128	14469
MISSISSIPPI	215	29	1879	1106	1979	47	112	35	780	30	6212
MISSOURI	1665	2398	4086	1027	6727	208	288	28	1054	376	17857
MONTANA	301	54	1288	480	1031	45	307	6	431	12	3955
NEBRASKA	437	70	1833	978	1711	110	111	21	852	41	6164
NEVADA	386	1450	5278	2332	3832	20	53	48	245	23	13667
NEW HAMP.	191	8615	3002	915	1770	39	152	7	335	5	15031
NEW JERSEY	707	1397	2074	95	21142	235	293	95	675	153	26866
NEW MEXICO	326	1283	2458	1206	6799	42	88	10	303	29	12544
NEW YORK	909	13094	4072	185	11765	563	459	186	725	1008	32966
N. CAROLINA	473	728	5742	2037	10720	125	555	189	1535	120	22224
N. DAKOTA	180	891	458	246	491	47	454	2	181	9	2959
OHIO	1703	125451	25118	5840	17583	636	523	310	2134	191	179489
OKLAHOMA	886	14880	10231	2894	5282	124	419	39	1369	89	36213
OREGON	1325	2839	5881	2799	6012	80	233	32	1440	85	20726
PENN.	1339	8525	28367	6778	10604	789	447	134	2297	422	59702
RHODE ISLAND	75	204	261	86	1117	18	95	14	98	9	1977
S. CAROLINA	245	10952	397	67	4818	98	177	20	1439	11	18224
S. DAKOTA	356	7	285	205	650	49	233	1	226	31	2043
TENNESSEE	805	15373	18929	4006	10058	176	270	87	1687	635	52026
TEXAS	4065	30546	38792	10364	27480	429	789	442	3346	427	116680
UTAH	245	7040	2796	747	5995	72	116	61	610	24	17706
VERMONT	73	3159	3001	312	594	14	27	9	130	7	7326
VIRGINIA	728	35311	11611	3860	21923	353	377	359	1895	123	76540
WASHINGTON	1033	643	630	739	8635	135	218	51	2140	67	14291
W. VIRGINIA	232	486	858	579	767	272	135	16	663	11	4019
WISCONSIN	706	548	4725	2023	9419	194	194	107	812	28	18756
WYOMING	372	169826	4030	379	2859	41	490	4	215	14	178230
PUERTO RICO		1	2	2	682	2			2	1	692
VIR. ISLANDS			1	1	29			1			32
OTHER	35	6388	6012	25	1318	18	3	105	29	203232	217165
TOTAL	41534	835388	378162	103558	447580	9609	13880	5487	57216	212130	2104544

F1-Form 1: Registered by Individuals.

F2-Form 2: Registered by Class 2 or Importer and still in their possession.

F3-Form 3: Possessed by S.O.T. (Class 3 Dealer, Class 2, 7, 9, 10).

F4-Form 4: Individual: tax paid. F5-Form 5: Law Enforcement and for repair.

F6-Form 6: Imported. F9-Form 9: Permanent Exportation.

F10-Form 10: Acquired by Certain Governmental Entities.

LTR-Letter: Amnesty period re. by letter.

4467-Form 4467: Registered during the '68 GCA Amnesty.

OTHER-Other Category: For "who knows what."

17th Annual Soldier of Fortune Convention/Expo


& Military Vehicle show

**PRE-REGISTER EARLY
& SAVE!**

**5 BIG ACTION-PACKED DAYS AND NIGHTS
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No refund after 8/15/96.

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☐ Check or Money Order enclosed

☐ Charge \$ _____ to my ☐ MasterCard ☐ Visa

Card # _____ Exp. _____

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Name _____


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T-Shirt Size M L XL XXL (circle one)

MGN


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Archive Photo of the Month

From the Robert Bruce Collection



Germany, 1930's. A dramatic publicity still from the film "STOSSTRUPP 1918" (Storm Troops of 1918) shows a German crew and their MG08 Maxim Gun waist deep in a flooded trench during the last months of World War I. This astoundingly realistic movie spared no effort at portraying the horror and heroism of trench warfare. A keen observer will note interesting details on the crewmembers including dragging straps, water carrier, and steel ammo boxes. Credit: UFA Film Studio, Berlin/Library of Congress Copyright © 1996 ROBERT BRUCE PHOTOGRAPHY *Note: Robert regrets that he cannot handle individual requests for photographs. However, publishers and documentary film makers, etc., are encouraged to contact him for information on use of archive images. Send a self-addressed stamped envelope and details on intended use to **ROBERT BRUCE PHOTO, P.O. Box 482 MGN, SANDSTON, VA 23150.***



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115

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120

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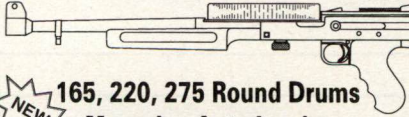
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