

DON'T KNOW who first described the controversial Auto Mag pistol as "The Aristocrat of Hunting Handguns," but it may well have been the ebullient Lee Jurras (president of Super Vel) right after he dropped a New Mexico pronghorn at 217 measured yards with one. At that point, Jurras and I had shot our way (not in the Bonnie and Clyde sense) from St. Louis cross-country to Las Vegas with a pair of Auto Mags, bagging all manner of varmint-type beasties at ranges from sublime to ridiculous, and, of course, missing a few easy shots in the process.

Even though the Auto Mag was introduced a number of years ago, only a few thousand guns have been produced to date. The first few pieces were sold by the original corporation and so marked; the rest by T.D.E., Inc. This is the firm which bought up everything when Auto Mag, Inc. went bankrupt.

The latter instance still raises tears and wails of anguish if the name Auto Mag is mentioned indiscreetly. Many would-be purchasers succumbed to beautiful four-color ads and made cash deposits to obtain a priority delivery date before guns were actually in production. Those who made only the small first deposit were lucky, for it went into escrow, and when the firm bankrupted, the full amount was refunded. Those who made additional deposits, some for the full retail price of the moment, had no such protection. That money did not go into escrow, but was spent, and disappeared when the company went into bankruptcy. Those people are just out of luck.

I haven't the vaguest idea how many

feeding the .44 AUTO

people lost on the second deposits — but if those who did would care to let me know, I'll try to compile a list. That won't get anyone's money back, but the information would be interesting to have on file.

In any event, the Auto Mag lives yet. High Standard announced at the '74 NRA Convention that it will market the Auto Mag pistol in both .357 and .44 AMP calibers — with appropriate High Standard Markings but still (for the time being) produced by T.D.E. The guns will retail for about \$500. The response to this announcement and showing of the gun was gratifying to both High Standard and T.D.E., not to mention Harry Sanford, who has nursed the Auto Mag through several years of trial and travail.

Not long ago I visited the small plant in El Monte, California, where it is currently being produced at a rate of 200-250 units per month. Harry Sanford, long-time gunbuff and ardent hunter (sheep grand-slams and the like) runs the operation there. And, Sanford is the man

people lost on the second deposits — but who originally designed and developed the if those who did would care to let me Auto Mag pistol.

At the plant I saw both .44 and .357 AMP pistols in production, and had an opportunity to talk things over a bit with Sanford. He has done a good bit of detail refinement of the design since those first guns, and functional reliability has been improved. Regarding the gun as being a bit temperamental, Sanford has this to say:

"It's a specialized gun, in much the same way a highly tuned and accurized .38 wadcutter target auto is. A guy will spend several hundred dollars to have built the most accurate wadcutter auto he can get, but he sacrifices reliability in the process. He winds up with a gun that will shoot the X-ring out of the target, but it has to be babied constantly - and even then, it will probably give him at least one alibi (jam) in every match. The Auto Mag is sort of like that, except it's specialized toward maximum power and velocity. To gain those features it sacrifices a few It does have some little things. idiosyncrasies, but I think they are minor when its overall power, velocity, and accuracy are considered. You don't get something for nothing, and while the AMP may not be 100 percent perfect, it still isn't as temperamental as a lot of target guns I've seen and used."

Sanford is right — every design is comprised of a series of tradeoffs: weight vs. power, size vs. accuracy, recoil vs. velocity, cost vs. quality, and so forth. If you want the power offered by the AMP, you can't have it in pocket size; you can't have it in a gun that will handle light loads, semi-auto; and you can't have it with a few other things.

All of which is just leading up to how you can best load for the .44 AMP if you have been fortunate enough to obtain one. Obviously, we have to start with cartridge cases — without those brass hulls, you'll



A single lot of .44 AMP factory loads was produced in Mexico by CDM, a subsidiary of Remington, headstamped "CDM .44 Auto Mag" and packaged as shown.



never fire a shot. Cases aren't any big problem - they just require more time and/or money than any other handgun caliber

Remington's Mexican subsidiary plant, C.D.M., produced one run of cases and one of loaded ammunition. Both have been available from Pacific International, Inc., 2416-16th St., Sacramento, Calif. 95818, but I believe that the supply of unprimed cases, priced at \$5.50 per 50, has been exhausted. The ammunition, at \$12.50 per 50, with its 240-grain JHP, round-nose bullet, is under-loaded and will not function the guns with complete reliability. Velocities run under 1,200 fps, and pressures around 30,000 c.u.p. However, the cases are of excellent quality, so factory ammo is one source of cases for reloading.

If you have (or can get) fired factory-loaded cases or new CDM brass, the problem is solved. Lacking those sources, though, you'll just have to make your own until Super Vel gets the .44 AMP into production and sells you some cases. Incidentally, by the time you read this, loaded (only) .44 AMP ammunition will be available from Super Vel at \$14.50

per box of 50 rounds — through your dealer, of course.

From the onset, the .44 AMP was designed around the .308 Winchester (7.62mm NATO) case. In fact, in the beginning, all Auto Mag purchasers were forced to form cases from .308 brass. To do this, simply obtain a supply of .308, .243, .30-06, or similar brass of the same head size, and a set of RCBS forming dies. The set contains a file-type form and trim die and the shellholder extension required for use with it, and a neck-reaming die and matching reamer.

Install the shellholder extension in your press (the form/trim die is too short for the standard holder), then adjust the F/T die so the extension bumps solidly against it when the ram is run all the way up. Decap and clean your cases (preferably all of one make and lot), dry, and if they are of military origin, remove the primerpocket crimp. Swaging is best for the latter, and RCBS makes a good rig for the

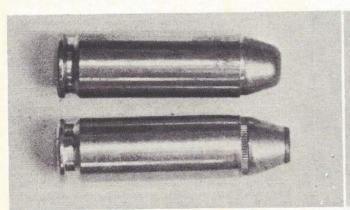
Run a case fully into the F/T die, then lop off the bulk of the excess (protruding beyond the top of the die) with a fine-cut hacksaw; about 32 teeth per inch makes

for a nice, smooth cut. True up the new case mouth by running a flat file across the die mouth, until it cuts no more brass. The die is hard enough the file won't damage it. In the interest of neatness you might lightly chamfer the inside of the case mouth while it is still in the die, but it isn't necessary yet. Repeat the process until you've got enough cases rough-formed and trimmed to make it worthwhile to go to the next step.

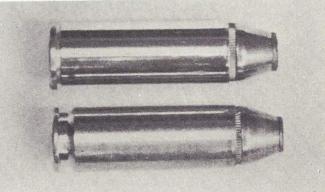
Incidentally, if you've a drill press, the trimming operation can be speeded up immensely by investing in a Forster power case trimmer. Set it up on the drill press to produce a case length of 1.298-inch, and 10 or 12 cases per minute can be trimmed with hardly any effort.

Next, chamfer the outer edge of the case mouth lightly to remove filing burrs. If they aren't removed at this point, some will be folded over in the next operation, making the neck look a bit messy. Wipe cases clean of chips and filings for the same reason.

Now, go back to a standard shellholder, and adjust the reaming die in the press to bump the holder. Fix a tap-wrench or



shown for comparison with the CDM loading, left, and standard .44 the Auto Mag with complete reliability.



The Super Vel .44 AMP 180-grain loadings [both lower cartridges] are Magnum, right. The CDM round is under-loaded and will not operate

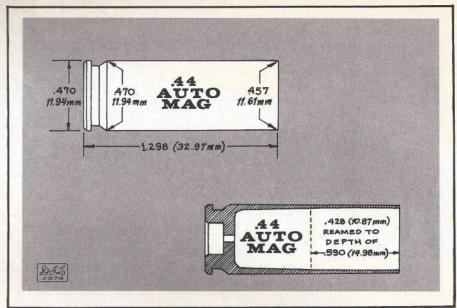
similar T-type handle to the shank of the RCBS reamer, and wipe the reamer cutting edges and flutes clean.

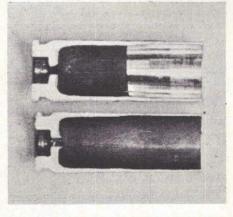
Run a trimmed case fully into the reaming die, then insert the reamer carefully, to avoid ruining the cutting edges - into the top of the die. Exert just enough downward pressure on the reamer to make it bite into the brass, and twist it by hand three or four turns; pull it out and clear the chips from the flutes with an old toothbrush. Re-insert the reamer and repeat the operation until the case neck is reamed deep enough to accept the bullets you'll be using. Actually, it's better to ream to a point .550-inch below the mouth so that any bullet up to 240-250 grains may be used - though some shooters prefer to go less deep, leaving a slight shoulder against which the base of the bullet used can rest when seated. Take your choice.

If you've a large number of cases to form, the idea of chucking the reamer in an electric drill, to cut down on muscle work, might be appealing. RCBS recommends against this — and I can vouch for the fact that it is easy to ruin the reamer quickly that way. If you insist on trying it, okay, but have a spare reamer at hand to finish the job.

With the reaming job finished, dump the chips out of the case, then chamfer the inside of the mouth — lightly on the latter, for the .44 AMP headspaces there — just barely enough to knock off the sharp edge.

Annealing case mouths isn't normally recommended at this point, but I prefer to do it, especially if the job was begun with fired cases. Trimming back to a length of 1.298-inch cuts away all the original neck anneal, and places the new neck in an area of the case that is by



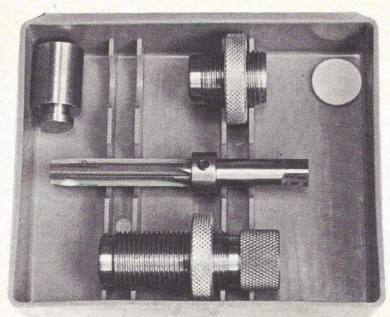


intent much harder than necks should be. This will produce relatively short case life, terminated by split necks if not annealed.

Use your favorite annealing method -



The case above left, has been formed from 7.62mm NATO brass and properly reamed; it is shown for comparison with a factory CDM case. Both cases directly above, were formed from 7.62mm brass while the case at left has been reamed to proper neck thickness, and the case at right has not, illustrating excessive neck thickness. After forming from .308 brass, the neck should also be annealed since brass from this area of the .308 case has not been properly annealed in manufacture.



you can lubricate the mouth of the case and then hold it by the base with the mouth immersed in molten lead (about 650 degrees F.) until the base starts getting uncomfortable to handle and then remove the case. Some like to stand the cases in a pan with water covering the bases. The case mouth is then heated with a torch until it's a cherry red and then toppled over in the water. mechanized method of annealing cases was given in Handloader 46 in an article by Fred Whitlock. Whatever your method, strive for uniformity from case to case, and don't let the heads get too hot.

Finish up by thoroughly washing and drying the formed cases, or by tumbling them in a good cleaning and polishing

A .44 AMP forming die set is available from RCBS and includes a reaming die and reamer, file-type trim die, and shellholder extension. Note the stop collar to adjust correct reaming depth.

medium. I prefer tumbling in the J&G Rifle Ranch tumbler with ground nut hulls and rouge, which produces a beautifully clean and shiny case, and also cleans the primer pockets quite well.

All this effort - and it isn't really that hard — will have produced a good supply of .44 AMP cases equal to the factory product that came from C.D.M. They'll not only feed your .44 Auto Mag well when properly loaded, but will serve as the basis for making .357 AMP cases, should you ever be in need of any. And, at least as of this writing, no .357 AMP cartridges have ever been factoryproduced. This deplorable lack of a fine cartridge will soon be corrected, for Super Vel intends offering the .357 AMP as a standard round later this year.

Once all that is done, load them as if you were simply starting with new, unprimed cases. Pick your bullet, powder, charge and primer from the accompanying load data table. Note that relatively few powder and load choices are given, and that there is little emphasis on heavy bullets. Anything over 200 grains won't give the velocity of which this cartridge is capable, and which gives it its great versatility and flat trajectory. Barrel groove diameter is .431-inch, but Super Vel bullets measure .429, original C.D.M. factory loads contain .430 bullets. The .429 bullets make for better pressure/ velocity relationships, and perform best.

Bullets should be cannelured to allow a moderate crimp. This, along with very tight fit in the case neck, is required to produce adequate bullet pull for good initial powder combustion. Both are also necessary to keep the bullet from shifting in the case under recoil forces and feeding

As resized and ready for loading, inside diameter of case necks should be no larger than .427. If your expander plug makes them larger, polish it down. New C.D.M. cases require no expansion, just flaring of the mouth to permit starting headspace condition. bullets.

When using the heavier charges of ball-type powders, note how full they fill the case, and take care to not slosh any of it out during handling. Ball powder splashes almost like water, especially in a big, straight case like the .44 AMP. Top performance requires 100 percent-density of the charge by the seated bullet.

Note the paucity of light or mid-range Being designed for high-power loads, and of recoil operation, the AMP pistol requires high recoil energy in order to function correctly - therefore, it's better to stay away from light loads. Any load producing chamber pressures less than about 42,000 c.u.p. with 180-grain or heavier bullets cannot be relied upon for positive functioning. Some individual guns require 44-45,000 c.u.p. Put another way, a 240-grain bullet needs to be pushed above 1,200 fps in order to drive the gun correctly.

When seating bullets, work to an overall cartridge length of no more than 1.610-1.615 inches. A little less is okay if necessary because of short bullet length, but more will cause jamming in the magazine.

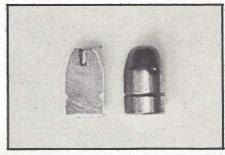
It is essential that bullets be fully seated first, then crimped as a separate operation. Set the crimp die to remove all the initial mouth flare, then turn the mouth in for a moderate to heavy roll crimp as shown.

If cases lengthen with extended firing, trim them back to 1.298-1.296 inches. Don't try to cheat by making them shorter; you'll just set up an excess

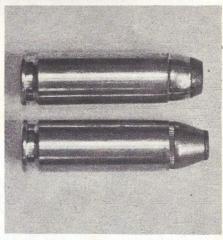
At top is a 240-grain Speer test load shown for comparison with a standard Super Vel 180-grain load. Loads must produce at least 42,000 c.u.p. chamber pressure to function the Auto Mag properly.

Case life is normally good (at least until you lose them in the grass) with either factory or home-brewed brass - but if necks begin to split, anneal the rest of the lot before they let go, too.

The .44 AMP pistol and cartridge were designed for a specific purpose - to produce the maximum power obtainable loads, with at least moderate compression from a big-bore autoloader for hunting. They do that very well, so don't try to make them do things never intended. Keep that thought in mind, load carefully, shoot close, and they will serve



At right is a 240-grain JHP bullet pulled from a CDM factory round while the same bullet is shown sectioned at left.





These bullets, suited to the .44 AMP, from left, are the Super Vel 180-grain JSP, Speer 220-grain JSP and original CDM 240-grain JHP.

Loads for the .44 Auto Mag

All of the above loads were assembled with CDM cases and CCI 350 primers. All loads are full-charge and have produced proper cycling in a large number of guns. Loads four and five may be increased slightly, by perhaps one full grain without exceeding safe pressures, but the velocity gain will be relatively small. Note the low pressure and velocity levels of the factory load.

*Caution: Load three is only for current-production H-110 powder, H-110 lots of several years ago are hotter and will produce excessive pressures with this charge weight. If in doubt, cut back five grains to start.

u.p.