



LEE

RELOADING DIES

90510

38 Special

CARBIDE DIES
REQUIRE NO LUBRICATION
LEE PRECISION, INC.

38 SPECIAL

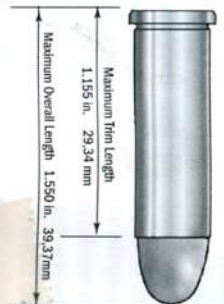
.....STARTING LOADS.....
 Start Volume Auto- Lee NEVER Velocity Min
 Grains CC Disk Dipper EXCEED FPS OAL

| Powder Type | Grains | CC | Disk | Dipper | EXCEED FPS | OAL |
|----------------------------------|--------|----|------|--------|------------|-------------|
| 90 Grain Jacketed Bullet | | | | | | |
| HP38 | 4.7 | 44 | 43 | NA | 5.7 | 1.201 1.425 |
| MR 800X | 7.4 | 80 | 76 | 7 | 7.8 | 1.195 1.470 |
| MR4227 | 11.2 | 86 | 82 | NA | 11.9 | 1.090 1.470 |
| SR4756 | 6.1 | 67 | 66 | NA | 6.5 | 1.080 1.470 |
| SR7625 | 5.3 | 56 | 53 | 5 | 5.6 | 1.085 1.470 |
| 110 Grain Jacketed Bullet | | | | | | |
| BLUE DOT | 7.4 | 64 | 61 | NA | 7.8 | 1.170 1.430 |
| MR 800X | 6.8 | 73 | 71 | 7 | 7.2 | 1.095 1.430 |
| UNIQUE | 5.4 | 59 | 57 | NA | 5.6 | 1.090 1.430 |
| HERCO | 5.3 | 59 | 57 | NA | 5.6 | 1.090 1.430 |
| BULSEYE | 4.5 | 48 | 46 | NA | 4.5 | 1.085 1.430 |
| SR7625 | 5.3 | 56 | 53 | 5 | 5.5 | 1.080 1.430 |
| GREEN DOT | 4.3 | 54 | 53 | 5 | 4.6 | 1.050 1.430 |
| HP38 | 4.2 | 39 | 37 | NA | 5.2 | 1.043 1.425 |
| 110 Grain XTP | | | | | | |
| UNIQUE | 6.4 | 62 | 61 | NA | 7.1 | 1.227 1.437 |
| V-N330 | 5.9 | 63 | 61 | NA | 7.7 | 1.224 1.437 |
| V-N340 | 5.8 | 62 | 61 | NA | 6.5 | 1.194 1.437 |
| V-N320 | 5.1 | 62 | 61 | NA | 5.7 | 1.188 1.437 |
| HS6 | 7.0 | 50 | 49 | NA | 7.8 | 1.178 1.435 |
| A NITRO100 | 3.9 | 53 | 53 | 5 | 4.4 | 1.153 1.435 |
| UNIVERSAL | 5.0 | 53 | 53 | 5 | 5.6 | 1.143 1.435 |
| TITTEGROUP | 4.3 | 36 | 34 | NA | 4.8 | 1.109 1.435 |
| HP38 | 4.3 | 33 | 33 | NA | 5.5 | 1.096 1.435 |
| SOLO 1000 | 3.3 | 42 | 43 | 5 | 4.4 | 1.094 1.435 |
| 124 Grain Lead Bullet | | | | | | |
| V-N350 | 5.7 | 56 | 53 | 5 | 6.4 | 1.160 1.437 |
| V-N337 | 5.9 | 54 | 53 | 5 | 6.6 | 1.137 1.437 |
| V-N340 | 5.4 | 52 | 52 | 5 | 6.0 | 1.137 1.437 |
| V-N320 | 4.3 | 52 | 48 | 5 | 4.8 | 1.077 1.437 |
| 125 Grain Jacketed Bullet | | | | | | |
| HERCO | 5.1 | 58 | 57 | 5 | 5.5 | 1.040 1.440 |
| BLUE DOT | 7.0 | 61 | 61 | NA | 7.3 | 1.035 1.440 |
| A NITRO100 | 3.7 | 50 | 49 | 5 | 4.1 | 1.031 1.440 |
| UNIQUE | 5.0 | 54 | 53 | 5 | 5.3 | 1.015 1.440 |
| SOLO 1000 | 3.7 | 49 | 49 | NA | 4.1 | 1.010 1.440 |
| UNIVERSAL | 4.3 | 46 | 46 | NA | 4.4 | 1.000 1.440 |
| BULSEYE | 4.8 | 40 | 40 | NA | 5.3 | 990 1.440 |
| ACCUR #2 | 4.0 | 51 | 49 | 5 | 4.3 | 985 1.440 |
| GREEN DOT | 6.7 | 71 | 71 | 7 | 6.9 | 980 1.440 |
| MR 800X | 7.7 | 53 | 53 | 5 | 3.9 | 950 1.440 |
| RED DOT | 5.0 | 52 | 49 | 5 | 5.3 | 935 1.440 |
| SR7625 | 10.1 | 78 | 76 | 7 | 10.8 | 930 1.440 |
| 125 Grain Lead Bullet | | | | | | |
| HP38 | 3.8 | 35 | 34 | 3 | 4.8 | 1.071 1.445 |
| UNIVERSAL | 4.3 | 47 | 46 | NA | 4.7 | 1.036 1.445 |
| TITTEGROUP | 3.2 | 27 | 27 | NA | 3.8 | 985 1.445 |
| CLAYS | 2.5 | 37 | 37 | NA | 3.5 | 978 1.445 |
| 125 Grain Copper Plated | | | | | | |
| ACCUR #5 | 6.5 | 40 | 40 | NA | 7.2 | 1.171 1.430 |
| V-N337 | 5.9 | 54 | 53 | 5 | 6.6 | 1.086 1.430 |
| V-N340 | 4.2 | 35 | 34 | 3 | 4.7 | 1.083 1.430 |
| ACCUR #2 | 5.7 | 55 | 53 | 5 | 6.3 | 1.064 1.437 |
| V-N350 | 5.1 | 55 | 53 | 5 | 5.7 | 1.055 1.437 |
| V-N340 | | | | | | |
| 125 Grain XTP | | | | | | |
| V-N350 | 6.2 | 60 | 57 | NA | 7.0 | 1.132 1.437 |
| V-N337 | 6.3 | 58 | 57 | 5 | 7.2 | 1.115 1.437 |
| V-N340 | 5.5 | 58 | 57 | 5 | 6.2 | 1.102 1.437 |
| HS6 | 6.5 | 46 | 46 | NA | 7.2 | 1.048 1.437 |
| V-N320 | 4.7 | 56 | 53 | 5 | 5.3 | 1.043 1.437 |
| UNIVERSAL | 4.7 | 52 | 49 | 5 | 5.2 | 1.019 1.437 |
| TITTEGROUP | 4.3 | 36 | 34 | NA | 4.6 | 1.010 1.437 |
| CLAYS | 3.5 | 51 | 49 | 5 | 3.9 | 937 1.437 |
| HP38 | 4.3 | 40 | 40 | NA | 4.9 | 934 1.437 |

By far, the most popular handgun cartridge ever made. Easy to reload, it will accept a large variety of bullets. The accepted standard for target work is the 148 grain wadcutter. These cut clean holes in the target and are easy to score. More important is the exceptional accuracy wadcutters give. To maintain the accuracy, a clean gun is essential. This is a very easy cartridge to reload and a pleasure to shoot. These dies can be used to load the 357 Magnum by backing out the bullet seater and expanding die two (2) turns.

.....STARTING LOADS.....
 Start Volume Auto- Lee NEVER Velocity Min
 Grains CC Disk Dipper EXCEED FPS OAL

| Powder Type | Grains | CC | Disk | Dipper | EXCEED FPS | OAL |
|----------------------------------|--------|----|------|--------|------------|-------------|
| 130 Grain Jacketed Bullet | | | | | | |
| HERCO | 6.2 | 44 | 43 | NA | 7.2 | 1.077 1.425 |
| UNIVERSAL | 4.1 | 45 | 43 | NA | 4.6 | 1.025 1.418 |
| HP38 | 3.7 | 34 | 34 | 3 | 4.7 | 1.024 1.418 |
| TITTEGROUP | 3.1 | 26 | 24 | NA | 3.6 | 927 1.418 |
| 140 Grain Jacketed Bullet | | | | | | |
| V-N337 | 5.9 | 54 | 53 | 5 | 6.6 | 1.004 1.437 |
| V-N350 | 5.7 | 56 | 53 | 5 | 6.4 | 1.014 1.437 |
| V-N340 | 6.2 | 55 | 53 | 5 | 5.8 | 981 1.437 |
| V-N320 | 4.5 | 54 | 53 | 5 | 5.0 | 955 1.437 |
| A NITRO100 | 3.5 | 47 | 46 | NA | 3.9 | 933 1.445 |
| 140 Grain XTP | | | | | | |
| UNIVERSAL | 4.3 | 47 | 46 | NA | 4.8 | 939 1.455 |
| HS6 | 5.8 | 41 | 40 | NA | 6.5 | 933 1.455 |
| TITTEGROUP | 3.9 | 33 | 32 | 3 | 4.2 | 919 1.455 |
| CLAYS | 3.0 | 44 | 43 | NA | 3.7 | 869 1.455 |
| HP38 | 4.2 | 39 | 37 | NA | 4.6 | 861 1.455 |
| 145 Grain Lead Bullet | | | | | | |
| V-N350 | 5.2 | 51 | 49 | 5 | 5.8 | 1.043 1.476 |
| V-N337 | 4.8 | 51 | 49 | 5 | 5.3 | 1.033 1.476 |
| V-N340 | 5.7 | 46 | 46 | NA | 5.6 | 1.001 1.476 |
| V-N320 | 3.7 | 45 | 43 | NA | 4.1 | 938 1.476 |
| 146 Grain Jacketed Bullet | | | | | | |
| HERCO | 9.6 | 74 | 71 | 7 | 10.7 | 979 1.370 |
| UNIVERSAL | 5.6 | 40 | 40 | NA | 6.3 | 969 1.370 |
| HS6 | 5.1 | 47 | 46 | NA | 5.7 | 932 1.378 |
| V-N337 | 5.0 | 49 | 49 | NA | 5.6 | 932 1.378 |
| V-N350 | 5.0 | 49 | 49 | NA | 5.6 | 932 1.378 |
| V-N340 | 4.5 | 48 | 46 | NA | 5.0 | 924 1.378 |
| TITTEGROUP | 3.5 | 30 | 30 | NA | 4.0 | 914 1.370 |
| HP38 | 9.8 | 75 | 71 | 7 | 10.3 | 880 1.395 |
| 147 Grain Lead Bullet | | | | | | |
| VEE B49 | 6.2 | 57 | 57 | 5 | 6.8 | 1.056 1.550 |
| 148 Grain Wad Cutter | | | | | | |
| HP38 | 3.5 | 32 | 32 | 3 | 4.0 | 966 1.160 |
| MR4227 | 10.7 | 82 | 82 | 7 | 11.4 | 945 1.125 |
| HS6 | 4.5 | 32 | 32 | 3 | 5.2 | 943 1.160 |
| UNIVERSAL | 2.9 | 32 | 32 | 3 | 3.8 | 940 1.160 |
| TITTEGROUP | 2.2 | 23 | 21 | NA | 3.3 | 908 1.160 |
| MR 800X | 4.3 | 46 | 46 | NA | 5.5 | 905 1.295 |
| SR4756 | 4.9 | 53 | 53 | 5 | 5.2 | 905 1.295 |
| V-N350 | 3.9 | 38 | 37 | NA | 4.3 | 892 1.181 |
| SR7625 | 3.2 | 33 | 32 | 3 | 4.2 | 875 1.295 |
| A NITRO100 | 3.5 | 37 | 37 | NA | 3.9 | 863 1.181 |
| A NITRO100 | 2.4 | 32 | 32 | 3 | 2.7 | 863 1.252 |
| MR PB | 2.8 | 34 | 34 | 3 | 3.8 | 855 1.295 |
| 150 Grain Jacketed Bullet | | | | | | |
| HERCO | 7.0 | 50 | 49 | 5 | 7.0 | 1.011 1.425 |
| DA227 | 10.1 | 78 | 76 | 7 | 10.5 | 909 1.425 |
| 157 Grain Jacketed Bullet | | | | | | |
| VEE B49 | 4.9 | 45 | 43 | NA | 5.2 | 876 1.550 |
| 157 Grain Lead Bullet | | | | | | |
| VEE B49 | 5.4 | 50 | 49 | 5 | 5.9 | 981 1.550 |
| VEE A0 | 6.2 | 74 | 71 | 7 | 6.2 | 988 1.550 |
| 158 Grain Jacketed Bullet | | | | | | |
| V-N350 | 5.2 | 51 | 49 | 5 | 5.9 | 925 1.437 |
| V-N337 | 5.4 | 49 | 49 | NA | 6.1 | 915 1.437 |
| V-N340 | 4.6 | 49 | 49 | NA | 5.2 | 876 1.437 |
| 158 Grain Lead Bullet | | | | | | |
| HS6 | 5.7 | 41 | 40 | NA | 6.3 | 1.010 1.475 |
| DA227 | 9.0 | 69 | 66 | NA | 10.0 | 983 1.475 |
| UNIVERSAL | 3.5 | 38 | 37 | NA | 4.5 | 974 1.475 |
| BLUE DOT | 6.8 | 51 | 49 | 5 | 6.1 | 955 1.420 |
| AMER-SELECT | 3.8 | 51 | 49 | 5 | 4.3 | 950 1.420 |
| ACCUR #5 | 5.3 | 33 | 32 | 3 | 5.9 | 940 1.481 |



SMALL PISTOL PRIMERS

EXPLOSIVE
POWDER THROUGH EXPANDER DIE
FOR THE
LEE AUTO-DISK POWDER MEASURE
 This die permits charging the case while expanding and flaring the case mouth. Can be used with a LEE Powder Funnel or the Lee Auto-Disk Powder Measure.

CD2225

LEE 90581

38 Special

Powder Through Expander Die

PARTS LIST

| | |
|-----------------------------------|--------|
| Carbide sizing die, assembly..... | 90530 |
| Decapper, pistol..... | SD2167 |
| Decapper clamp..... | SD2151 |
| Lock ring..... | SD2152 |
| Bullet seating die, body..... | SB2154 |
| Adjusting screw..... | SB2281 |
| Bullet seater punch..... | 90581 |
| Expanding die, assembly..... | SE2408 |
| Expanding plug..... | SE2168 |
| Powder funnel adapter..... | 90518 |
| Shell holder..... | PM1401 |
| Powder dipper..... | CD2225 |
| Die box..... | 90535 |

When ordering parts, specify for 7/16x14 die sets and indicate caliber.

YOU ARE RESPONSIBLE FOR THE SAFETY OF YOUR LOADS

Be certain you completely understand the use of this data and your tools.

START GRAINS This is the maximum starting load.

VOLUME CC This is the volume per cubic centimeter of the START GRAIN charge for use with a Lee Perfect Powder Measure. Check with a scale to be sure the setting is correct.

AUTO-DISK This is the largest cavity to be used with the LEE AUTO-DISK Powder Measure.

DIPPER This is the largest LEE Dipper you can use. Be sure you use the correct dipper. The dipper must be filled and struck level.

NEVER EXCEED GRAINS These must be weighed. DO NOT exceed.

VELOCITY Listed velocity is for NEVER EXCEED GRAINS.

MINIMUM OAL This is the shortest, safe Over All Length with maximum charges.

If you cannot find a charge for the exact weight bullet you have selected, use the data for the next heavier bullet. The velocity will be about the same and the pressure will be less. Except for Winchester 296 the powder manufacturer recommends that you start with a reduced load and work up to the max load. They also recommend using magnum primers with 296.



CAUTION

Ammunition reloading can be dangerous if done improperly and should not be attempted by persons not willing and able to read and follow instructions exactly. Children should not be permitted to reload ammunition without strict parental supervision. Always wear safety glasses when reloading and shooting. Ammunition loaded with these tools and data should only be used in modern guns in good condition. We do not accept responsibility for ammunition loaded with these tools or data as we have no control over the manufacture and storage of components or the loading procedure and techniques. Primers and gun powders, like gasoline and matches, can be dangerous if improperly handled or misused.

2



DECAPPER CLAMP

LOCK RING

DECAPPER

FULL LENGTH SIZER

Screw the full length sizer in until it touches the shell holder and tighten the lock ring finger tight. The decapper is retained by a collet. Should it be overstressed by an obstruction; it simply slides up without damage. To reset, loosen the decapper clamp and position the decapper flush with clamp end and retighten.

Considerable torque may be necessary. A $\frac{1}{2}$ " and $\frac{3}{4}$ " wrench are necessary.

CAUTION: If using a steel sizer, be sure to lubricate your cases. Without lubrication, your die will be damaged and the case may become stuck in the die.

3



POWDER FUNNEL (NOT INCLUDED)

FUNNEL ADAPTER

EXPANDER DIE

EXPANDER DIE

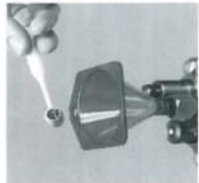
Screw the die in until it touches the shell holder, back out one turn. Finger tighten the lock ring. Screw the die in until flare is to your liking. For maximum case life, flare only enough to easily accept a bullet. In use, the expander plug travels approximately $\frac{3}{8}$ " within the die and comes to an abrupt stop at extraction. This helps the shake the powder through. However, we recommend you check to be sure all the powder has cleared the funnel and expander plug.

Be sure to occasionally clean the bullet lube from the expander plug to prevent a powder clog.

4

CHARGE THE CASE

Select a load from the chart on the reverse side. This is the most critical decision you must make. An overcharge can blow up the gun and injure the shooter or persons nearby. It is dangerous to use a bullet of a greater weight with a charge for a lighter bullet. Never select a load intended for a bullet lighter than you are using. Loads for a slightly heavier bullet are safe. Always start with the **STARTING LOADS**. You may work up to the **NEVER EXCEED LOADS** gradually, provided you know how to watch for pressure signs. The LEE DIPPER is the safest and easiest powder measure to use. For the ultimate in speed, convenience and versatility, consider the LEE AUTO-DISK POWDER MEASURE.



CAUTION: Never try to seat a primer deeper after powder has been added.

1

PREPARE YOUR CASES

Discard cases with defects such as split necks, indications of head separation or anything that would make them unsuitable for reloading. If you don't have the carbide sizer, this is a good time to lube your cases. Use your fingers to wipe it on and wipe off any grit which may be on the case. Use the lube very sparingly. You can even thin LEE LUBE with four (4) parts of water for greater economy. If thinned with water, let dry before sizing. There is no need to remove LEE LUBE after reloading.

Carbide Sizing Dies Need No Lubrication

Because the carbide is so hard, no lubrication is required on the case.



SPEER advises that **SPEER** bullets not be used with certain Lee Dies. All other brands work great!

AUTO DISK POWDER MEASURE



The Auto Disk Powder Measure fits into the expanding die in place of the powder funnel adapter. While the case neck is being expanded, the charge is automatically and accurately dispensed. Comes complete with four (4) charge disks and 24 different cavities. More accurate than any other measure because of the built-in powder baffle and uniform actuation.

5

BULLET SEATING DIE

Your die set includes the LEE BULLET SEAT AND FEED DIE for use with the Lee Automatic Bullet Feeder. It has a 45° chamfer to allow for the mechanical feed fingers and improved operator clearance.

Raise the ram to the top of its stroke and hold. Screw the bullet seating die in until it touches the shell holder. **Then back it out three full turns.** Lightly finger tighten the lock ring. Bullet depth is adjusted by screwing the adjusting screw in or out to suit. Bullets should be seated deep enough to work through the gun's action.

See **MAXIMUM OVERALL LENGTH** on charge table. If a crimp is desired, screw the die in slightly and test until the proper crimp is formed. Cases must be trimmed to the same length to provide a uniform crimp. Excessive crimp will cause the bullet seater to deform soft nose bullets.



The Bullet Seating die is equipped with a floating bullet seating punch for maximum accuracy. It is designed to seat all shapes of bullets with minimum deformation. If you attempt to compress the charge, it may deform the bullet an objectionable amount. It will be necessary to modify the bullet seating punch to fit the bullet. If unable to do it yourself or have it done locally, we can do it for you. Send \$8.00 along with a sample bullet, and order "Custom Seater Plug for Sample Bullet" — \$8.

CAUTION: Seating bullets excessively deep will reduce the case capacity and increase the pressure. It is extremely important that full wadcutters be used with light loads only. You can select these by their reduced velocity.

(OPTIONAL) **CARBIDE FACTORY CRIMP DIE** For Handgun Ammunition That Must Work

A carbide sizer sizes the cartridge while it is being crimped so every round will positively chamber freely with factory-like dependability. The adjusting screw quickly sets the desired amount of crimp. It is impossible to buckle the case as with a conventional bullet seating die. Trim length is not critical so this extra operation takes less time than it would if cases were trimmed and chamfered. Revolver dies roll crimp with no limit as to the amount. A perfect taper crimp is applied to auto-loader rounds. The crimper cannot be misadjusted to make a case mouth too small to properly head-space. A firm crimp is essential for dependable and accurate ammunition. It will eliminate the problems of poor ignition of slow burning magnum powders.



LEE BULLET FEEDER

GUARANTEE

LEE RELOADING PRODUCTS are guaranteed not to wear out or break from normal use for two full years or they will be repaired or replaced at no charge if returned to the factory. Any Lee product of current manufacture, regardless of age or condition, will be reconditioned to new, including a new guarantee, if returned to the factory with payment equal to half the current retail price.

For a complete catalog, send your name and address to:
LEE PRECISION, INC.
4275 Highway U Hartford Wisconsin 53027