

Besides being able to load the most accurate ammunition possible, these dies are also the easiest and most convenient to use. They offer maximum accuracy, yet are less demanding and faster to use than conventional full length neck sizing dies. Case trimming and chamfering is kept to a minimum and the need to lubricate is eliminated.

www.leeprecision.com

IMPORTANT

These dies size only the case neck to hold the bullet. It's essential that you use only cases previously fired from your gun. If in doubt, try them in your gun's chamber before you start to reload them. If they don't fit freely, you must first full length size them with standard Lee dies. Generally, bolt action guns can use ammunition that has been neck sized only. Slide and lever action or autoloading guns usually require ammunition that has been full length sized.

1 INSPECT YOUR CASES

Inspect your cases to be sure they are safe for reloading. Cases with a split or signs of head separation should be discarded. It's even a good idea to flatten them with a hammer so there is no chance they will ever be used by accident as they are a hazard.

OPTION Clean cases are easier to inspect. Cases can be decapped, cleaned, trimmed, chamfered, neck reamed or turned and primer pockets cleaned. For best accuracy, keep your cases sorted by brand and lot. Some shooters even sort by weight to insure uniform wall thickness and case capacity. Check for off center or mis-shaped flash holes. Maximum accuracy is obtained with cases that have dead center flash holes of a uniform size.

2 COLLET SIZER



ADJUSTMENT FOR LEE PRESSES

Screw the sizing die in until it contacts the shell holder, plus one turn more. If you are using a Lee Precision "Classic" series press, adjust the die 1 1/4 turns into the press. Run a case into the die. You will feel the primer being extracted, then the lever will come to an abrupt stop. At this point, the lever must be pushed firmly (min. 25 lbs.) to close the collet and size the neck. Extra bullet grip can be obtained by screwing the die in an additional quarter-turn.

Other brands of presses that toggle or snap over center at the end of the stroke provide no feel and can damage the collet neck sizing die if adjusted as above. We suggest the die be screwed in until the die contacts the shell holder, plus **2 FULL TURNS**. This will prevent the press from toggling over center and give the operator feel of the collet closing. **OPTION** Even greater accuracy can be obtained by rotating the case one-half turn and sizing the case a second time.

TIGHTER BULLET FIT

As delivered from the factory, the collet die will grip the bullet with a light press fit with cases of average hardness. For a tighter fit, you can anneal the case neck or polish the decapper mandrel .001 smaller. Do not go beyond .001 smaller as there will be no increase in bullet pull, and a decrease in accuracy as the bullet will then be sizing the neck as it is inserted.

OPTION The collet die provides the optimum bullet fit for maximum accuracy and case life. Should you desire a tighter fit, and are not able or willing to polish the mandrel or anneal the case neck, you can order a custom mandrel from the factory. Be sure to specify the caliber and bullet diameter. **Example:** "Send undersize collet die mandrel for 30/06 using a .308 bullet." There is a \$5.00 charge.



CAUTION: After charging the case, the only operation that should be done is to seat the bullet. Never try to seat a primer after powder has been added.

3 TRIM YOUR CASES

After a few loadings, cases tend to get longer. This could be dangerous if the case were so long that it would pinch the bullet in the end of the chamber. Pressure high enough to damage the gun could result. A convenient way to trim to the correct safe length is with the Lee Quick Trim Case Trimmer. Install the appropriate Quick Trim Die — and 5 quick turns of the crank will yield a perfectly trimmed and chamfered case.



DELUXE QUICK TRIM 90347

4 PRIME

Prime the case according to instructions supplied with your press. For maximum accuracy, speed and convenience, we suggest use of the Lee Ergo-Prime. With this tool, you never touch the primers from box to shell. Built-in primer flipper turns them right side up. Primers are automatically fed and installed just as fast as you can place the shell in the holder.



LEE ERGO-PRIME 90250

Hand held, requiring special, but inexpensive shell holders.

5 CHARGE THE CASE | SEE LOAD DATA ON REVERSE SIDE |

If you use the Lee Powder Dipper, select the proper load from the charge table. **Make certain you have the correct dipper.** Never use a heavier bullet than listed for any given powder charge as dangerous pressures will be generated. All of the listed loads are approximately 10% under maximum, or the equivalent of a starting load if you use a scale. Extensive load data is usually supplied at no charge by all of the powder manufacturers. See your dealer.

6 EASY ADJUST DEAD LENGTH BULLET SEATING DIE

ADJUSTING
SCREW



Screw the die in until it touches the shellholder—then turn in 1/4 turn more. This removes all play from the press and insures each bullet will be seated to a uniform depth. Bullet depth is controlled by the adjusting screw. This die will not crimp the bullet in place.

Bullet seating depth plays an important part in accuracy. Many shooters prefer to seat the bullet .020 to .030 inches away from the rifling. Others prefer that it just touch the rifling. Only you can determine which is best for your rifle. You can be sure that your Dead Length Bullet Seater will seat your bullets more uniformly than any other die made, regardless of cost.

NOTE Accuracy is not guaranteed if bullets are seated with any tool other than the Lee Easy Adjust Dead Length Bullet Seater

BUCKLED SHOULDERS

If your Collet Die buckles the case shoulder, it is due to the collet being closed and the case cannot enter. This is caused by closing the press without a case in the die and/or the die adjusted too deeply. **Remove the collet from the die and spring it open.** It is best done by pushing a tapered drift punch into the collet neck. If none available, use the round shank of a Phillips head screw driver to pry the collet open. Cases that have been excessively annealed into the shoulder area may buckle even though the collet is open.



LEE SAFETY POWDER SCALE 90681



Perfect for weighing charges

It is the easiest to use, most accurate and sensitive powder scale made exclusively to weigh gunpowder.

The Lee Safety Scale has magnetic dampening and an approach-to-weight lifter enclosed within its heavy metal base. The exclusive safety beam has a stainless steel razor edge for maximum sensitivity. You can be sure that the Lee Safety Scale will retain its original factory accuracy for as long as it is not physically broken.

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