

LEE COLLET DIE & DEAD LENGTH BULLET SEATER

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.

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.

2 COLLET SIZER



ADJUSTMENT FOR LEE PRESSES

Screw the sizing die in until it contacts the shell holder, plus one turn more. 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.

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.

3 PRIME

Fastest, most convenient way to prime cases off the press. Perfect for those that clean primer pockets or prefer to prime in their easy chair. The Auto-Prime XR uses special, inexpensive shell holders. No need to endlessly swap shell holders from your press.



LEE AUTO-PRIME XR®
90230

5 DEAD LENGTH BULLET SEATING DIE

ADJUSTING
SCREW



Screw the die in until it touches the shellholder—then turn in ¼ 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 Dead Length Bullet Seater

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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.

