

LEE RELOADING DIES

The Lee 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.

LEE MICROMETER DIES

REQUIRES LUBRICATION

Exclusive
POWDER THROUGH EXPANDER DIE
FOR
LEE CASE-ACTIVATED
POWDER MEASURES

Permits charging the case while expanding and flaring case mouth.
CAN BE USED WITH
LEE POWDER FUNNEL or
LEE CASE ACTIVATED
POWDER MEASURES

FOR UNIFORM CRIMPS, BE SURE YOUR CASES ARE A CONSISTENT, SAFE LENGTH

GET MORE
LOAD DATA



"MODERN RELOADING"
SECOND EDITION
BY **RICHARD LEE**
Newly Revised Edition
CONTAINING MORE THAN 38,000 LOADS

Everything about reloading along with the world's most comprehensive load data. It's a reference book you'll keep forever. No. 90277

LEE SAFETY POWDER SCALE 90681

It is the easiest to use, most accurate and sensitive powder scale. Made exclusively to weigh gun powder. 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 as long as it is not physically broken. Perfect for weighing charges!

WARNING Handling live primers and spent primers may expose you to lead or other chemicals, which are known to the State of California to cause reproductive harm and cancer. For more information, go to www.P65Warnings.ca.gov.

WARNING This product may contain steel alloyed with trace amounts of lead and other elements which are known to the State of California to cause reproductive harm and cancer. For more information, go to www.P65Warnings.ca.gov. To prevent exposure, do not alter the product by welding, grinding, etc.

FREE
SHELL HOLDER
INCLUDED

LEE MICROMETER FULL
LENGTH 3-DIE SET

Free
SHELL HOLDER

COMPLETE LOAD DATA

STEEL SIZING DIE

POWDER THROUGH EXPANDING DIE

MICROMETER BULLET SEATING DIE

MICROMETER DIE SET
RESTORES YOUR CASE TO
FACTORY NEW
FIT AND PERFORMANCE

YOU ARE RESPONSIBLE FOR THE SAFETY OF YOUR LOADS

BE CERTAIN YOU COMPLETELY UNDERSTAND 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 GRAINS 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 usable Lee Dipper. The dipper must be filled and struck level. Be sure you use the correct dipper.

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

VELOCITY Listed velocity is for **NEVER EXCEED GRAINS**

$$\text{VELOCITY FOR OTHER CHARGES} = \frac{\text{CHARGE IN GRAINS}}{\text{NEVER EXCEED GRAINS}} \times \text{VELOCITY}$$

MINIMUM OAL This is the shortest, **SAFE OVER ALL LENGTH** to be used with **NEVER EXCEED LOADS**. Seating bullets deeper will cause higher, possibly dangerous pressures.

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. Powder manufacturers recommend you start with the **STARTING LOADS** and work up to the **NEVER EXCEED LOADS**.

DETAILED INFORMATION IS AVAILABLE FROM ALL POWDER MANUFACTURERS.

THE LEE
APP
AUTOMATIC PROCESSING PRESS

DEPRIME
BULGE BUST
SIZE CAST BULLETS
PRIMER POCKET SWAGE
SIZE CASES

LEE APP PRODUCT NO 90933
COMPLETE WITH ALL OF THE FEED
TUBES, TUBE SUPPORTS, RISERS
AND CASE SLIDERS.
INCLUDES BOTTLE ADAPTER TO COLLECT SPENT PRIMERS
OR SIZED BULLETS.

Fastest way to size cast bullets & more!

HAVE A BREECH LOCK PRESS?
YOU MAY WANT
BUSHINGS
BREECH LOCK BUSHINGS
fit all Lee Breech Lock presses.
Allows instant, accurate die changes.

BREECH LOCK BUSHINGS
Perfect with Lee Lock Rings
90600 2 Pack

COLOR CODED
FOR QUICK, POSITIVE
DIE SELECTION

**SPLINE DRIVE
BREECH LOCK BUSHINGS**
Breech lock quick change bushing with integral
lock collar provides unmatched precision and
convenience when adjusting dies. Split clamp
positively locks die into position.

90063 2 Pk
90095 4 Pk

SMART LOCK BUSHINGS
Internal O-ring maintains perfect adjustment. Once set
you'll never lose position.
91933 4 PACK

LEE
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www.leeprecision.com

LEE MICROMETER DIES

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 and hearing protection 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.

1 PREPARE YOUR CASES

Inspect your cases while lubricating them. Discard all cases with split necks, indications of head separation or other defects. Wipe on a thin film of Lee Case Lubricant with your fingers. Fingers are the best way of lubing a case as any grit that could damage the die is wiped away. **Be sure to lube the inside of the case neck with a cotton swab.** The case may be immediately sized, or let the lube dry.

Lee Lube can be thinned with up to four parts water for easier application and greater economy. If thinned, let the case dry before sizing.



Lee Case Lubricant applied



IMPORTANT! If for any reason you do not use Lee Resizing Lubricant [90006] be very careful not to contaminate the powder or primers. Other brands are oil base and they have serious, detrimental effects on powder and primers. Because of the stickiness, they also attract grit that can damage the die. Lee Resizing Lubricant costs less and is so superior that is worth the effort to insist upon it, or order from the factory.

2 FULL LENGTH SIZER



Screw the full length sizer in until it touches the shell holder. Then lower ram and screw the die in $\frac{1}{4}$ to $\frac{1}{3}$ turn more. Raise the ram and tighten the lock ring and tighten the screw. The decapper is retained by a collet. Should it be over-stressed 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.

Stuck Case If case is not lubricated, the rim will be pulled off and the case remains stuck in the die. If this happens — loosen, but do not remove the decapper clamp — with a $\frac{3}{4}$ " and $\frac{1}{2}$ " wrench. Use a $\frac{3}{16}$ " drift punch and large hammer (1-lb. or larger) to tap on the decapper rod and drive the stuck case free. Replacement sizing dies may be purchased on our website at 50% product discount by applying the coupon code — CARBHALFOFF — to your shopping cart.



3 PRIME

The easiest, most convenient way to prime is with Lee priming tools. Never touch primers from box to shell, uses inexpensive priming tool shell holders so there's no need to endlessly swap between your press shell holder and your priming tool. Includes priming assemblies for large and small primers, change primer size in seconds.

The Lee Auto Bench Prime 90700



4 EXPANDER DIE



IMPORTANT! Remove any residual oil in the through hole of the expanding plug with a tissue.

Screw the die in until it touches the shell holder, then back out 2 full turns. Finger tighten the lock ring, adjust the flare to your liking; turning inward increases the flare. 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 to 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.

5 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. The Lee Dipper is the safest and easiest powder measure to use. Adjustable powder measures should be double checked with a scale. Use the starting loads. You may work up to the never exceed loads gradually, provided you know how to watch for pressure signs.



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.

6 MICROMETER BULLET SEATING DIE



Screw the die in until it touches the shellholder—then turn in $\frac{1}{8}$ turn more. Tighten the lock ring and screw. Adjust the micrometer adjust screw to the .1" position. Place a bullet on the case mouth and raise the ram to the top of stroke. Lower ram and check over all length (O.A.L.). Adjust micrometer to obtain desired O.A.L. Record your setting for future use. See here for die adjustment instructions: <https://lpi58.com/LKIEQR>

Nothing helps accuracy more than uniform start pressure, that is, the level of pressure to begin the bullets travel down the bore. Bullet seating depth affects this important pressure. For best accuracy, seat the bullet so the Ogive is touching or nearly touching the rifling. Unfortunately, many firearms have magazines that limit overall length keeping the bullets ogive well away from the rifling. If your rifle limits your seating depth, restore the accuracy with Lee Factory Crimp die.

Crimping is sometimes necessary such as tubular magazines and semi-auto actions. If you don't have access to a Factory crimp die, the Lee Micrometer bullet seating die can be reconfigured to apply a crimp while seating. To use this feature, brass must be trimmed to an exact uniform length, the bullets must have an adequate crimp groove and the bullets must be seated exactly in the crimp groove. Attempting to apply too much crimp will damage your brass and prevent proper chambering. See here for instructions on reconfiguring for crimp: <https://lpi58.com/Zt5vIN>



SCAN ME



SCAN ME



Accessory

7 FACTORY CRIMP™ DIE

The Lee Factory Crimp Die will apply a dependable factory type crimp at any seating depth, with or without a crimping groove present. Trim length is not critical, easy to adjust and you will never crush a case.

FACTORY CRIMP IS A TRADEMARK OF LEE PRECISION, INC.

For a complete catalog, send your name and address

LEE

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www.leeprecision.com

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LEE CHALLENGER III PRESS

The "O" frame press by design is the strongest and the most popular style press by far. Large opening and long stroke handles the largest belted magnums with ease. The primer catcher is positive and routes the spent primers directly to the trash can. Priming is a dream with the Lee Lever Prime System. Best of all, it includes the Breech Lock Quick Change Die System. Change dies instantly with a twist of the wrist; you'll never have to re-adjust your die.

Other features include all steel linkage with adjustable length lever. This same press will cost you more than twice as much from other manufacturers, and that's without all of the Challenger's features. If cost is more important than convenience, you can leave the Smart Bushing locked in the press and screw dies in and out like any conventional press. Product # 90588

Change dies instantly with a twist of the wrist; you'll never have to re-adjust your die.



LEE CLASSIC TURRET PRESS

A MACHINE THAT DOES IT ALL



With quality touches that make this press the finest, most convenient press to own. The Classic Turret features the solid steel linkage of the Lee Classic Cast. Your first stroke of the hardwood gripped lever will convince you this is one, solid, silky smooth press!

The rigid cast iron frame supports the ram with over 12 sq. in. of area. The industry's largest ram is drilled completely through to dispose primers in an attached PVC tube. Uses the Lee Lever Prime System · LPS and the Lee Safety Prime tool makes priming on the press a delight. 90064

INSTANT CHANGE TURRETS

Lift out the entire turret and replace with the next caliber. Dies, shell holders and primer arm all change in seconds without tools.

