

# 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.

**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.

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

**MINIMUM OAL** This is the shortest, safe Over All Length 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.

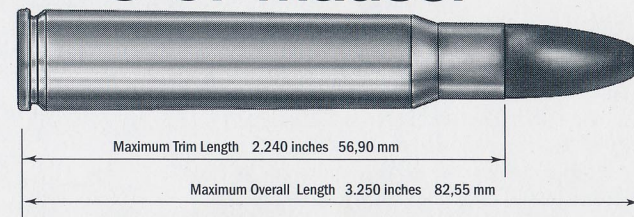
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LEE RELOADING DIES  
8X57 Mauser  
LEE PRECISION, INC.

**Exclusive**  
THIS SET INCLUDES A  
**LEE FACTORY CRIMP DIE**

**LEE**  
**RELOADING DIES**

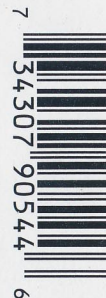
**8x57 Mauser**



LARGE RIFLE PRIMERS BULLET DIAMETER .323 inches 8,20 mm

**GUARANTEED ACCURACY OR YOUR MONEY BACK**

We guarantee no other brand of full length sizing dies, regardless of price, will load ammunition with less bullet runout than LEE RIFLE DIES or your money will be refunded.



02337

## 8x57mm MAUSER

Use .323 bullets only if rifle has .323 grooves.

.....STARTING LOADS.....						
Powder Type	Grains	CC	Auto-Disk	Lee Dipper	NEVER EXCEED	Velocity Min FPS OAL
<b>125 Grain Jacketed</b>						
H4198	37.7	2.83	DBLD	2.8	42.0	3054 2.815
H380	49.4	3.42	NA	3.4	55.0	2909 2.815
H414	52.1	3.45	NA	3.4	58.0	2893 2.815
H335	45.8	2.96	DBLD	2.8	51.0	2891 2.815
H322	42.2	3.06	DBLD	2.8	47.0	2840 2.815
H4895	45.8	3.34	NA	3.1	51.0	2796 2.815
BL-C(2)	44.9	2.90	DBLD	2.8	50.0	2789 2.815
RELODER15	41.9	2.96	DBLD	2.8	46.8	2760 2.820
RELODER12	40.9	2.82	DBLD	2.8	45.0	2720 2.820
H450	50.3	3.29	DBLD	3.1	56.0	2509 2.815
H4350	48.5	3.52	NA	3.4	54.0	2480 2.815
ACCUR 4350	53.0	3.92	NA	3.7	53.0	2418 2.890
ACCUR 3100	53.0	3.96	NA	3.7	53.0	2185 2.890
ACCUR 8700	54.5	3.75	NA	3.7	54.5	1788 2.890
<b>150 Grain Jacketed</b>						
H4198	36.8	2.76	DBLD	2.5	41.0	2848 2.815
H380	48.5	3.35	NA	3.1	54.0	2778 2.815
H414	50.3	3.33	NA	3.1	56.0	2773 2.815
H4895	44.9	3.27	DBLD	3.1	50.0	2747 2.815
H335	44.0	2.84	DBLD	2.8	49.0	2744 2.815
H322	41.3	3.00	DBLD	2.8	46.0	2726 2.815
RELODER15	39.4	2.78	DBLD	2.5	44.0	2560 2.975
BL-C(2)	45.7	2.94	DBLD	2.8	46.0	2553 2.815
H4350	48.5	3.52	NA	3.4	54.0	2552 2.815
RELODER12	39.7	2.74	DBLD	2.5	43.0	2455 2.975
H4831	51.2	3.71	NA	3.7	57.0	2452 2.815
ACCUR 4350	44.4	3.29	DBLD	3.1	50.0	2394 2.950
IMR3031	31.0	2.36	DBLD	2.2	34.5	2335 2.945
IMR4831	42.4	3.12	DBLD	3.1	47.0	2325 2.945
IMR4350	38.8	2.85	DBLD	2.8	43.0	2315 2.945
IMR4895	32.3	2.35	DBLD	2.2	36.0	2310 2.945
IMR4064	32.3	2.41	DBLD	2.2	36.0	2305 2.945
H450	48.3	3.15	DBLD	3.1	53.0	2285 2.815
IMR4320	32.4	2.32	DBLD	2.2	36.0	2270 2.945
ACCUR 3100	53.0	3.96	NA	3.7	53.0	2228 2.950
IMR4198	25.6	2.03	DBLD	1.9	28.5	2225 2.945
IMR4227	20.4	1.57	DBLD	NA	22.5	2015 2.945
SR4759	19.3	1.92	DBLD	1.9	21.5	1960 2.945
ACCUR 8700	54.5	3.75	NA	3.7	54.5	1730 2.950
<b>170 Grain Jacketed</b>						
H414	47.6	3.15	DBLD	3.1	53.0	2586 2.815
H322	39.5	2.87	DBLD	2.8	44.0	2555 2.815
H380	44.0	3.04	DBLD	2.8	49.0	2509 2.815
H4350	48.5	3.52	NA	3.4	54.0	2507 2.815
H4895	41.3	3.01	DBLD	2.8	46.0	2501 2.815
H335	41.3	2.67	DBLD	2.5	46.0	2470 2.815

.....STARTING LOADS.....						
Powder Type	Grains	CC	Auto-Disk	Lee Dipper	NEVER EXCEED	Velocity Min FPS OAL
<b>170 Grain Jacketed (Continued)</b>						
BL-C(2)	40.4	2.61	DBLD	2.5	45.0	2421 2.815
H4831	51.2	3.71	NA	3.7	57.0	2418 2.815
WIN 748	40.0	2.62	DBLD	2.5	46.0	2410 2.815
RELODER15	37.1	2.62	DBLD	2.5	41.4	2400 3.015
RELODER12	36.5	2.52	DBLD	2.5	40.0	2280 3.015
ACCUR 4350	41.3	3.05	DBLD	2.8	48.0	2262 2.840
IMR4831	41.3	3.04	DBLD	2.8	46.0	2255 2.840
WIN 760	43.2	2.88	DBLD	2.8	48.0	2240 2.815
ACCUR 3100	50.3	3.77	NA	3.7	53.0	2181 2.840
IMR4350	37.7	2.77	DBLD	2.5	42.0	2180 2.840
IMR4064	31.5	2.35	DBLD	2.2	35.0	2175 2.840
IMR4895	30.1	2.19	DBLD	NA	33.5	2145 2.840
H450	43.9	2.87	DBLD	2.8	49.0	2138 2.815
IMR3031	29.9	2.28	DBLD	2.2	32.5	2105 2.840
IMR4320	31.7	2.27	DBLD	2.2	34.5	2105 2.840
IMR4198	24.7	1.96	DBLD	1.9	27.5	2075 2.840
IMR4227	19.5	1.50	1.46	NA	21.5	1860 2.890
SR4759	18.4	1.83	DBLD	NA	20.5	1855 2.840
ACCUR 8700	54.5	3.75	NA	3.7	54.5	1731 2.840
<b>200 Grain Jacketed</b>						
ACCUR 4350	40.7	3.01	DBLD	2.8	44.0	2039 2.970
ACCUR 3100	49.0	3.67	NA	3.4	49.0	1980 2.970
ACCUR 8700	54.5	3.75	NA	3.7	54.5	1692 2.970
<b>220 Grain Jacketed</b>						
ACCUR 3100	46.0	3.44	NA	3.4	49.2	1946 2.990
ACCUR 4350	39.4	2.91	DBLD	2.8	42.0	1906 2.990
ACCUR 8700	51.5	3.54	NA	3.4	51.5	1512 2.990
<b>225 Grain Jacketed</b>						
H4831	51.2	3.71	NA	3.7	57.0	2346 2.815
H414	44.9	2.97	DBLD	2.8	50.0	2342 2.815
H380	41.3	2.86	DBLD	2.8	46.0	2285 2.815
H4350	41.3	3.00	DBLD	2.8	46.0	2221 2.815
H450	44.0	2.88	DBLD	2.8	49.0	2145 2.815

With NEVER EXCEED Loads maintain MIN OAL or longer.  
DBLD = Double Disk, see Auto-Disk measure instructions.  
NA = None Available

### WARNING:

Some 8 x 57mm Mausers have barrels with .318 diameter grooves and .306 bores. Use .318 diameter bullets with these undersize barrels.

For a full refund, return your dies to the factory with your dated sales slip and data showing comparison test with name of other brand.

### PARTS LIST

Sizing Die, assembly SD2347	.....\$12.00	Bullet Seater Punch SB2351	.....2.00
Decapper SE2324	.....3.50	Shell Holder 90519	.....3.98
Decapper Clamp SD2151	.....1.30	Powder Measure PM1410	.....1.00
Lock Ring SD2152	.....1.00	Charge Table & Instructions CE2337	1.00
Bullet Seating Die, assbly. SB2265	12.00	Round Die Box SD2047	.....2.50
Adjusting Screw SB2154	.....1.50	When ordering parts, specify for 7/8 x 14 Die sets and indicate caliber.	

**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.

## 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.

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

# LEE RELOADING DIES

COMPLETE INSTRUCTIONS FOR LEE RIFLE DIE SETS

## 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.

All Lee Dies have finger tighten lock rings that lock to both the die and press. When removing die, always loosen by the lock ring. This insures the lock will maintain its exact setting for future use.



**IMPORTANT** If for any reason you do not use LEE RESIZING LUBRICANT, 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 it is worth the effort to insist upon it, or order from the factory.

## 3 PRIME

Prime the case according to the instructions supplied with your press. For maximum accuracy, speed and convenience, we suggest the use of a Lee Auto-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.

The Auto-Prime is hand held and requires special, but inexpensive shell holders.



## 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. 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.



## 5 BULLET SEATING DIE

Screw the bullet seating die in until you feel it touch the case mouth. If no crimp is desired, back the die out 1/2 turn. If a crimp is desired, turn the die in 1/4 turn. The bullet must have a crimping groove or it cannot be crimped. Case must be trimmed to same length to provide a uniform crimp.

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 reverse side.

**CAUTION:** Seating bullets excessively deep will reduce the case capacity and increase the pressure.



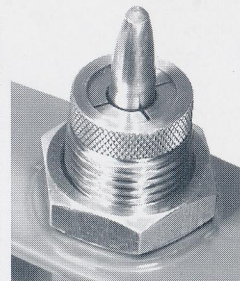
## 6 FACTORY CRIMP™ DIE

( NOT INCLUDED WITH LIMITED PRODUCTION DIES )

Screw the Lee Factory Crimp Die in to touch the shell holder, plus 1/2 turn more. Adjust in for a heavier crimp. It is usually best to start with too little crimp, as you can readjust and crimp again to suit your needs. When the four splits in the collet are closed, maximum crimp has been achieved. Do not try for more as the die will be damaged and the crimp excessive.

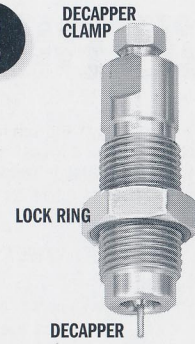
Bullets do not need a crimp groove as the LEE FACTORY CRIMP DIE will form one while crimping. However, it requires a harder push on the press lever to form the crimp.

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



FACTORY CRIMP IS A TRADEMARK OF LEE PRECISION, INC.

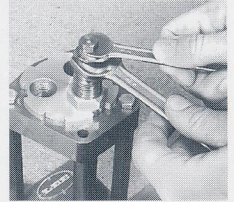
## 2



## FULL LENGTH SIZER

Screw the full length sizer in until it touches the shell holder. Then lower the ram and screw the die in 1/4 to 1/3 turn more. Raise the ram 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 1/2" and 3/4" wrench are necessary.



**STUCK CASE** If a 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. Use a drift punch and large hammer (1-lb. or larger) to tap lightly on the decapper rod and drive the stuck case free. Lee Precision will remove a stuck case for \$4.00.

## LEE SAFETY POWDER SCALE 90681

It is the easiest to use, most accurate and sensitive powder scale. 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.



## PERFECT POWDER MEASURE 90058



Versatile powder measure works well with charges as small as 2 grains, to charges over 100 grains. Soft elastomer wiper allows smooth operation even with extruded rifle powders.

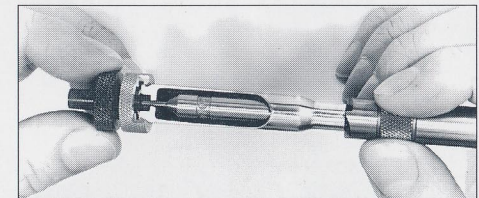
## POWDER MEASURE KIT 90100



15 powder measures with slide card showing capacity of each dipper with all current powders. Over 1,300 charges are listed. Use load data supplied free from powder manufacturers and follow instructions included with Powder Measure Kit.

## CHECK 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. The simplest way to check the case and trim to the correct safe length is with the LEE CASE TRIMMER.



Notice how the case length gauge passes through the case and stops against the lock stud and trims every case to the correct length. After trimming, chamfer the inside and outside of the case mouth with the LEE CHAMFER TOOL.