Mark this number on the powder container and you’ll have it for reference in the future. Average of several samples increases accuracy and confidence.

4.0 cc setting

Grains weight of sample

VMD

Calibrate Your Powder or VMD not listed

To find the VMD of your powder, set your powder measure to 4.0cc. Drop the charge, weigh the charge in grains, and divide 4.0cc by the weight of the dropped charge.

Helpful Tips

After removing the hopper, there will be some residual powder inside the powder measure where the hopper installs and where the drum installs. To prevent cross contamination across powder types, you want to make sure this residual powder is removed. The powder measure incorporates a no leak groove that will accumulate fine grain powders, make sure that this groove is cleaned as well. Leave the graphite that is built up on the surface of the drum and inside the measure, this acts as a lubricant.

Troubleshooting

Inconsistent charge

Not operating handle gently from stop to stop. Don’t bang handle against the stops.

Unrealistic expectation of consistency. With larger charges of some types of powder, its not unusual to find 4 grains of variance.

Standard deviation in density from lot to lot on powder.

Not allowing enough time for the metering chamber to fill or discharge binding of drum or sticky operation

Powder lodged between drum and body. Turn off hopper valve and remove measuring chamber. Clean mating surfaces off and replace and start with a higher initial drum tension.

Be sure elastomer wiper is completely seated in its pocket. Lubricate wiper with liquid soap for easy installation.

AMMENDO

LEE PRECISION, INC. • 14725 County Road U • Hartford, WI 53027

Lee Precision, Inc. • #90539

Powder Measure Stand

Powder coated steel construction. Includes 3 no slip feet. Space saving freestanding design is portable and convenient.

Powder Measure show model with optional stand #90587

Quick Change Drum Set

Use four precision molded nylon drums: (2) small, (2) large drums

#90453

Your powder measure metering chamber is adjustable in .001cc increments from 0 to over 8.0ccs. The sharp, permanent laser engraved metering chamber allows you to rapidly preset the measure. This measure also works with the quick change drums, sold separately #90453.

The precision machined high pressure die cast housing incorporates an elastomer wiper that prevents cross contamination and jerky operation. The housing also has lasering grooves to prevent leakage of extremely fine powder particles.

The hopper incorporates an off/on valve making powder changeover fast and convenient.

The drop tube shank is universal from the .22 cal to .50 cal. Its internal tapered design prevents powder bridging. Threaded with the standard 7/8-14" thread to fit all popular reloading presses.

WARNING: This product may contain zinc 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.PSBWarner.com. To prevent exposure, do not alter the product by welding, grinding, etc.

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. www.leeprecision.com/return

Any Lee product of current manufacture, regardless of age or condition, will be reconditioned to new with a new guarantee, if returned to the factory. www.leeprecision.com/return

Mark this number on the powder container and you’ll have it for reference in the future. Average of several samples increases accuracy and confidence.

4.0 cc setting

Grains weight of sample

VMD

Calibrate Your Powder or VMD not listed

To find the VMD of your powder, set your powder measure to 4.0cc. Drop the charge, weigh the charge in grains, and divide 4.0cc by the weight of the dropped charge.

Helpful Tips

After removing the hopper, there will be some residual powder inside the powder measure where the hopper installs and where the drum installs. To prevent cross contamination across powder types, you want to make sure this residual powder is removed. The powder measure incorporates a no leak groove that will accumulate fine grain powders, make sure that this groove is cleaned as well. Leave the graphite that is built up on the surface of the drum and inside the measure, this acts as a lubricant.

Troubleshooting

Inconsistent charge

Not operating handle gently from stop to stop. Don’t bang handle against the stops.

Unrealistic expectation of consistency. With larger charges of some types of powder, its not unusual to find 4 grains of variance.

Standard deviation in density from lot to lot on powder.

Not allowing enough time for the metering chamber to fill or discharge binding of drum or sticky operation

Powder lodged between drum and body. Turn off hopper valve and remove measuring chamber. Clean mating surfaces off and replace and start with a higher initial drum tension.

Be sure elastomer wiper is completely seated in its pocket. Lubricate wiper with liquid soap for easy installation.

AMMENDO

LEE PRECISION, INC. • 14725 County Road U • Hartford, WI 53027

Lee Precision, Inc. • #90539

Powder Measure Stand

Powder coated steel construction. Includes 3 no slip feet. Space saving freestanding design is portable and convenient.

Powder Measure show model with optional stand #90587

Quick Change Drum Set

Use four precision molded nylon drums: (2) small, (2) large drums

#90453

Your powder measure metering chamber is adjustable in .001cc increments from 0 to over 8.0ccs. The sharp, permanent laser engraved metering chamber allows you to rapidly preset the measure. This measure also works with the quick change drums, sold separately #90453.

The precision machined high pressure die cast housing incorporates an elastomer wiper that prevents cross contamination and jerky operation. The housing also has lasering grooves to prevent leakage of extremely fine powder particles.

The hopper incorporates an off/on valve making powder changeover fast and convenient.

The drop tube shank is universal from the .22 cal to .50 cal. Its internal tapered design prevents powder bridging. Threaded with the standard 7/8-14" thread to fit all popular reloading presses.

WARNING: This product may contain zinc 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.PSBWarner.com. To prevent exposure, do not alter the product by welding, grinding, etc.

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. www.leeprecision.com/return

Any Lee product of current manufacture, regardless of age or condition, will be reconditioned to new with a new guarantee, if returned to the factory with payment equal to one half the current retail price plus shipping.
Ammunition reloading can be dangerous if done improperly and can result in serious injury or death.

Selecting and charging powder is the most important thing you can do for both the safety and accuracy of your reloads. Be absolutely certain you have the correct type and amount of powder before you attempt to reload any cartridge.

Accuracy for your reloads. Be absolutely certain you have the correct type and amount of powder.

Selecting and charging powder is the most important thing you can do for both the safety and accuracy of your reloads. Be absolutely certain you have the correct type and amount of powder before you attempt to reload any cartridge.

Ammonium charging 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 make an uninterrupted up and down stroke when expanding or charging the case. If you become misused.

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.

Always wear safety glasses and hearing protection when reloading and shooting.

Children should not be permitted to reload ammunition without strict parental supervision.

We recommend running a full hopper of powder through the measure or coating the inside with powdered graphite before starting to charge your brass. Catch the powder in a large case or catch container.

DANGER
Do not use black powder in this powder measure, as it can explode in bulk.

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.

Always wear safety glasses and hearing protection when reloading and shooting.

Children should not be permitted to reload ammunition without strict parental supervision.

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.

Always make an uninterrupted up and down stroke when expanding or charging the case. If you become misused.

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.

Always wear safety glasses and hearing protection when reloading and shooting.

Remove Residual Oil

Mounting Powder Measure

Mount to the stand:

Insert metering rod and brass drum assembly into powder measure housing. The black metering chamber is installed opposite to the crank handle. Tighten tension knob, and loosen slightly to allow free operation.

Mounting Powder Measure

Mount to the stand:

Unscrew the bottom lock-ring and o-ring off the bottom of the drop tube shank. Slip drop tube shank through the stand and attach the powder measure to the stand with the lock-ring and o-ring.

Set the metering chamber to the correct charge.

If you have a quick change drum, set it and install at this time. Metering chamber is calibrated in cubic centimeters (cc). Lee's Modern Reloading manual and die instructions have converted grain powder charges into volume in cc. Look up your desired charge, and the volume in cc's will be conveniently listed. If you've ever loaded with Lee dippers, you can easily set the powder measure to your favorite load by setting it to the dipper number.

Modern Reloading

Lee Die Instructions

Lee Safety Powder Scale

Safety and accuracy are the most important features. Easy to read and set. Calibrated with weights traceable to the United States Bureau of Standards.

Example of Setting The Micrometer

For the example below we will be setting the micrometer to 1.82 cc's.

Depress thimble lock and continue rotating the brass thimble until the metering rod pointer is to the 8th line past the number “1” on the black metering chamber. This value is for the whole number to the left of the decimal.

Continue to turn the thimble until the number “2” on the thimble is aligned with the thimble lock lever.

Hint: Each click on thimble is approximately .1 grain of powder.

Insert Metering Chamber Assembly or Quick Change Drum

Insert metering rod and brass drum assembly into powder measure housing. The black metering chamber is installed opposite to the crank handle. Tighten tension knob, and loosen slightly to allow free operation.

Add Powder in Measure continued

Install hopper into the top of the powder measure assembly.

Weigh your charge to verify

If your charge is incorrect, rotate the brass thimble +/- to adjust the charge. Don’t expect the charge to be perfect and weigh enough charges so that you are sure they don’t exceed your desired charge. Some types of powder meter notoriously inconsistent and it not unusual for the charge to vary plus or minus .4 of a grain.

Hint: each number on the micrometer thimble is approximately .1 grain of powder.

Add Powder to hopper, be certain of brand and type. Turn on the flow of powder by rotating hopper counterclockwise.

CAUTION: using the wrong type or wrong amount of powder can cause a fatal or serious injury.

Weigh your charge to verify

If your charge is incorrect, rotate the brass thimble +/- to adjust the charge. Don’t expect the charge to be perfect and weigh enough charges so that you are sure they don’t exceed your desired charge. Some types of powder meter notoriously inconsistent and it not unusual for the charge to vary plus or minus .4 of a grain.

Hint: each number on the micrometer thimble is approximately .1 grain of powder.

Add Powder to hopper, be certain of brand and type. Turn on the flow of powder by rotating hopper counterclockwise.

CAUTION: using the wrong type or wrong amount of powder can cause a fatal or serious injury.

Weigh your charge to verify

If your charge is incorrect, rotate the brass thimble +/- to adjust the charge. Don’t expect the charge to be perfect and weigh enough charges so that you are sure they don’t exceed your desired charge. Some types of powder meter notoriously inconsistent and it not unusual for the charge to vary plus or minus .4 of a grain.

Hint: each number on the micrometer thimble is approximately .1 grain of powder.

Add Powder to hopper, be certain of brand and type. Turn on the flow of powder by rotating hopper counterclockwise.

CAUTION: using the wrong type or wrong amount of powder can cause a fatal or serious injury.