WILSON® Tools Gages

FOR ACCURATE UNIFORM HANDLOADS

PO Box 324
404 Pioneer Ave
Cashmere, WA 98815 USA
509-782-1328

CASE GAGE DEPTH MICROMETER

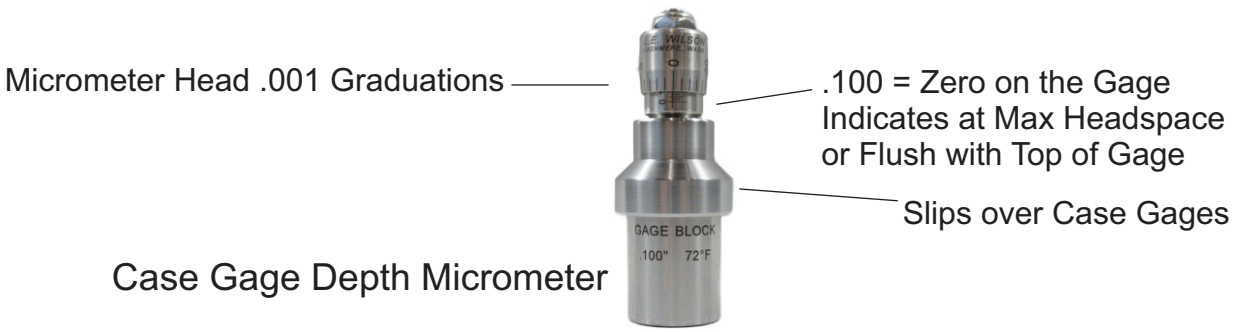
Every reloader should know exactly how much their Full Length Sizing Die is pushing back the shoulder. With the NEW Case Gage Depth Micrometer you can do just that! It has never been easier to measure your cases head-space before and after sizing. The Depth Mic allows you to slip the micrometer perfectly over the top of the gage with your case inserted in the gage, then take a measurement. Package includes Depth Micrometer and a Gage Block which can be used to re-zero the Depth Mic if needed. One size works for all LE Wilson Gages.

To be used in conjunction with the Wilson Cartridge Case Gages

DIRECTIONS

To use your new Depth Micrometer:

1) Wipe all grease from inside of your Wilson Case Gage (Not Included) and from gaging surfaces. Look into the recessed portion to see that it is free of grease or foreign matter.
2) Using the Case Gage (Not Included) in a horizontal position and insert a AS-FIRED DE-PRIMED CASE about half way into the gage. With the forefinger push the case quickly into the gage so that it stops with a "plunk." Examine the Case Head and check for imperfections that may affect your depth reading.
3) Now hold the gage vertically and check position of the case head in relation to the gaging surfaces. Take note of where it sits.
   THE DEPTH MICROMETER IS ZEROED WHEN IT IS SET TO .100". Indicates Flush with Gage or Max Head-space on Gage.
   MOVE THE SCALE TO READ .125 - To give clearance for oversized cases.
3) With the Case inserted into the Gage. Slip the Depth Micrometer over the top of the Gage.
4) Holding the Gage in place in the palm of your hand put pressure with your fingers on the Depth Micrometer so it is in contact with the gage. The best way to hold the Depth Micrometer is to place in-between your fingers. In your Left Hand if you are Right Handed, or hold in your Right Hand if you are Left Handed.
5) Thread the Micrometer in by rotating the Dial Clockwise.
   Continue to thread so the spindle head touches the top of the case head and take a reading on the scale.
   USE A VERY LIGHT TOUCH AND TAKE SEVERAL READINGS TO MAKE SURE YOU HAVE THE CORRECT VALUE.
   If your case is sitting OVER MAX HEAD-SPACE, your reading will be a value greater than .100" example .105 is a +.005 Head-space Reading.
   If your case is sitting UNDER MAX HEAD-SPACE, your reading with be a value less than .100" example .095 is a -.005 Head-space Reading.
6) Record the result.
7) Now Full Length Size your case at its current setting.
8) After sizing, run though the above steps from the beginning and again take note of your reading.
   The difference of the two readings will be how far you pushed the shoulder back on your fired case.
   Example - AS FIRED READING = .102" FULL LENGTH RESIZED READING = .092"
   This is telling you that you pushed your shoulder back .010" = .102" - .092" The point of this is to keep the cases as fire formed as possible without over-sizing your brass. Most shooters will want to push their shoulder back anywhere from .001" to .004" depending on preference.
9) To adjust this you will need to un-thread the die away from the shell holder in your press. This can be done by loosening the lock ring and un-threading the die slightly by turning in the counter-clockwise direction.
10) Repeat this process until you have your desired result.



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How to Re-Zero the Depth Micrometer

Step 1: Loosen set screw on base of Depth Mic
Step 2: Back out the Micrometer Head and Spindle all the way out and remove. (There is a spring inside under the cap, be sure not to drop it). Set Micrometer head and spindle aside.
Step 3: Grab scale portion and turn Clockwise and Counter-Clockwise several times, this will loosen pressure on set screw pad that is located under the set screw.
Step 4: Reinstall Micrometer Head and Spindle portion back to zero.
Step 5: Set on top of Gage Block.
Step 6: Turn both Micrometer Head and Scale Clockwise together until spindle bottoms out on top of Gage Block.
Step 7: At this point your zero will be very close.
Step 8: Fine tune by moving scale sleeve clockwise or counterclockwise to set zero.
Step 9: Tighten set screw.

Frequently Asked Questions

1) Why would I need to re-zero my depth micrometer?

There are a couple of reasons why this might be needed.
1) You have a different “feel” than the person whom assembled the tool at the factory. Practice with the Gage Block until you get a reading of .100” every time.
2) The Gage Block is made from steel which can act differently at certain temperatures. This is more rare but It can affect the tool measurement in the right conditions.

2) Why do I need to remove the primer before measuring the case?

Primers can affect the reading on the depth micrometer. You will want to de-cap a case, measure, then full length resize, and measure the SAME case. Cases can size differently even cases from the same lot of brass. The point of the gage is to get you FLD set up to size properly for all your brass. We recommend doing 3 to 5 randomly selected cases from each lot when setting up your die for sizing and shoulder set back.

3) Why do I get inconsistent readings on some of my cases?

This can be due to the fact the head of the case has stamping on it, or your cases could be slightly eccentric. If you run into this, it is best to take several readings or try another case.

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