

STAINLESS BULLET SEATER WITH MICROMETER ADJUSTMENT

IN-LINE SEATING INTRODUCTION:

Congratulations on your purchase! We thank you for supporting our MADE IN THE USA family owned business! By using WILSON In-line Seating Dies you can remove the threads from the bullet seating operation completely. Seating with WILSON Brand In-line dies simulates seating the bullet in your chamber, helping you to develop accurate, uniform handloads. With proper case prep, a Straight Line Bullet Seater can take your reloaded rounds to the next level. Below we have outlined the proper setup procedure, how to set up your die and enjoy years of use.

DIE SET UP INSTRUCTIONS

Step 1: Clean Die with Solvent, Check Contents

Step 2: Check Case Fit in Die

ALL chambers are different. If your prepared cases are too large to fit in the die body, contact us, we may need to open up your die to fit your guns chamber. Details on back of page.

Step 3: Finding Seating Depth

Setting up seating depth is very simple. Refer to your reloading manual, gunsmith, gun manufacture and bullet manufacture for proper OAL. Take note of length.

Step 4: Proper technique to insert rounds

Always set case head on base with bullet in place on top of prepared case. Then slide die over the top of the round resting it on the base. The seating cap may or may not raise up at this point.

Step 5: Major Adjustment to Seating Depth

See figure 1. You can use a dummy round to get you close to desired seating depth. If cap raises in step 4. Adjust stem up so cap sits on top of die. If cap did not raise, then adjust stem down and touch to top of bullet. You can see in figure 2 how Seating Stem contacts bullet.

Step 6: Seat a dummy round (no primer or powder)

With an Arbor Press, seat a dummy round then measure and note OAL.

Step 7: Minor Adjustment to Seating Depth

See figure 3. Loosen set screw with included 3/32 hex wrench and dial in depth or make small seating adjustments to OAL. This will be the difference between desired and actual.

Step 8: Start Using your Die

Once you fine tune your die and have it dialed in to the desired seating depth, the only thing to do is load up the rest of your prepared rounds! It is best however, to make periodic checks to ensure your rounds are consistent and uniform.

We recommend when setting up for a new grain or style bullet, to check every ten cases before moving forward with seating the remainder of your ammunition.

Seating Stem, flat head screw driver here.

Major Adjustment

1 Full Turn = .042"

1/2 Turn = .021"

1/4 Turn = .0105"



Figure 1
Seating Cap

Use 3/32" Hex wrench (included) to loosen the Set Screw and adjust seating stem

Major Adjustment Seating set screw snug down to set.

DO NOT OVER TIGHTEN!!

There is a felt pad in-between the thread and set screw to prevent damage to seating stem threads.



Figure 2

Figure 3
Seating
Assembly

Seating Cap

Using the included 3/32" hex wrench loosen to adjust This is for minor adjustment by .001" and .050" per revolution.

Clockwise to make OAL shorter Counter-clockwise to make OAL longer

Snug set screw to set in place **DO NOT OVER TIGHTEN!!**

Bullet Seater Die Body
All are chambered caliber specific

Bullet Seater Base - keeps primers safe during seating operation bulged primers can also affect seating depth if not used during seating process.

Frequently Asked Questions

- 1) My cases do not fit in my die
Usually points to a chamber that is larger than our die specs. Please send in your die body along with 3 prepared cases, so we may open up your die to fit your chamber. We do not charge for this service but ask if you could please include return shipping.
- 2) I am not able to achieve my desired OAL or COAL.
Depending on the grain and style of bullet you are using we may need to modify the die to fit your particular application. We do our best to set the dies to work for MOST combinations out there, but there are some exceptions. Please have the die in front of you and contact us directly so we may assist you.
- 3) I am experiencing run-out in my seated round
Run-out can be caused by several factors. Please verify none of these conditions exist before calling or emailing.
 - a) Verify consistent, uniform case wall thickness
 - b) Sizing the Neck and/or body too much can distort the case and make seating an in-line round impossible. Check case before and after sizing and determine if there is an issue with the sizing die or bushing size. Using a L.E. Wilson Regular Case Gage can help to figure out how much you are sizing your brass.
 - c) Quality of brass, mixed brass or brass from other chambers can cause issues.
 - d) Concentricity of your guns chamber - are the necks on your fire-formed rounds concentric?
- 4) The seating stem (drift) seems to be sticking
First check that your neck tension is approx $-.002$ " under bullet diameter. If you are loading new brass, it is best to run an expanding mandrel through your cases to get correct neck tension. Lastly, we may need to custom fit your stem to your bullet.
- 5) Do I need a VLD stem?
Best option is to try seating the bullet with the standard stem, it will work for most bullets out there. If you do not see your desired result or if you have some of the extremely long VLD's, it may be a good idea to add this in.
- 6) I do not see a difference between a Regular Stem and a VLD Stem?
Yes, you may not be able to "see" the difference, but the stem is reamed to a completely different angle and then honed on a lathe to specifically fit that caliber VLD.
- 7) The seating stem does not fit on the ogive?
Sam (L.E.) Wilson stated vary plainly in these words. " It is not necessary to have the cone in the seating plunger an exact fit on the ogive of the bullet. All that is required is a small contact and even so small that it leaves a small ring mark on the bullet is okay. The important thing is that the bullet be precisely supported with reference to the bore of the seater and a full contact will accomplish no more toward that end than a line of contact."

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