

1 INSERT BULLET

2 ADJUST COLLAR



BMU Instructions for Use

Insert the correct caliber bullet into the BMU's tapered hole. Adjust the depth cutting stop collar to provide the desired length of cut (normally, a cut of .007-.010 inches is adequate, although some prefer a slightly deeper cut, perhaps as much as 0.015). Make sure to tighten the collar once the correct cutting depth has been attained.

A few spins of the cutter is all that is required to obtain meplat uniformity. When cutting, allow the cutter to seek its own depth of cut into the bullet tip — don't force it down. This keeps burrs to a minimum. If a small burr (edge) is left, it can be removed with steel wool, a Scotch Brite™ pad or a medium-coarse whetstone. Increasing the depth of cut .003-.004 sometimes also helps minimize burrs. If you use the cutter under power, select a medium-range RPM setting, also occasionally lube the stop collar.



A pencil or Bic® pin body inserted into a wooden block makes an excellent ejector plug to remove a bullet from the tool (with the cutter removed) for volume usage. Additionally, a hard plastic washer somewhat smaller than the bullet caliber diameter can be used to help hold the bullet firmly in place when the washer's center fits onto the bullet's boattail and the bullet's outer diameter is held in the palm of your hand.

Use on Loaded Rounds

If desired you can use the BMU on loaded ammunition (this depends on the bullet's seated length and ogive characteristics but most loaded "match" type ammunition can be easily uniformed, such as is produced by Federal®).



There should be a small gap between the plastic back end of the BMU and the case neck on a loaded round. If the BMU touches the case neck, remove a small portion of the back end of the plastic plug and deburr the caliber hole to allow for clearance of the neck. The cut on the back end of the plastic plug does not need to be square in order for the BMU to work properly. A belt sander will work to perform this modification.

BMU EFFECTS

Effect of the 2% BC reduction —

6mm Sierra 107gr fired at 3000 fps

600 yards

uniformed meplat: +0.48 inches drop / +0.50 lateral movement in 10 mph crosswind

1000 yards

uniformed meplat: +3.17 inches drop / +1.25 lateral movement in 10 mph crosswind

This correlates to substantially less than one click of windage on your rifle's 1/4 MOA sight adjustment knob!

Factory Ammo Effect —

In using Federal factory .308 Match ammunition in conjunction with the BMU, machine-rest testing indicated that the groups at 300 yards were rounder as well as smaller.

Using 10-shot groups with the Federal® factory .308 Match ammunition after uniforming the meplat, the smallest decrease in group size was 15% (average of 10 different 10-shot groups) with some groups showing a 35-40% reduction in group size!

Uniforms ballistic coefficients of match bullets for more consistent shot to shot performance on target.

The **Ballistic Meplat Uniformer (BMU)** allows the shooter to equalize the ballistic coefficient (BC) of like kind and weight bullets. In other words, use of this tool will uniform the BCs of your favorite bullet or even factory ammunition.

It does this by uniforming the bullet's meplat (the diameter of the tip at the nose of the bullet). In addition, the BMU also uniformes the length of the bullet's frontal section (the distance from the full caliber diameter nearest the front of the bullet to the tip of the bullet). Our tests have also shown that uniforming the meplats on a box of 100 match bullets and reweighing them virtually eliminated the usual weight variance encountered in non-uniformed bullets.

Uniforming the meplat reduces the ballistic coefficient of the bullet by approximately 2% [see sidebar]. However, it results in more consistent shot placements — smaller groups. This improvement is magnified the farther the shooting distance. Your groups will be smaller and your downrange shot-to-shot chronograph readings will be closer together — therefore, your rifle and ammunition combination will show an increase in repeatable shot-to-shot performance.

Whether you shoot a secant, tangent, or long caliber ogive bullet, all benefit from uniforming the meplat. It's not just for long range shooters (Benchrest shooters also use the BMU). Uniformed meplats may show the most dramatic results distances past 200 yards. Any inconsistencies in one's ammunition are magnified the

farther the bullets travel. Experienced long range shooters know that points lost to elevation (shots hitting higher or lower on the target face) are the most common symptom of ammunition inconsistencies.

When accurate ammunition loading techniques are utilized, the BMU has demonstrated that downrange velocity readings (extreme spreads) can be cut in half compared to non-uniformed bullets and even show occasional identical velocity readings from one shot to the next — this almost never happens with bullets that have not been uniformed. The on-target results are overall smaller shot groups.

This product is currently being used with great success by 1000-yard benchrest shooters as well as across-the-course High Power Rifle and Long Range target shooters.

All have commented that the BMU makes their groups rounder by minimizing "flyers" (less vertical dispersion). Across-the-course and Long Range target shooters tend to notice that BMU use makes their rifle shoot flatter groups (minimizes elevation shots); since their course of fire is typically shot over a longer time period they are more susceptible to wind and mirage changes.

If you want your ammunition to exhibit a noticeable accuracy improvement, this is a step the serious shooter simply cannot afford to skip. Chances are that your competition will be using it!

Other SSS Inc. Products

Please visit us on-line at www.davidtubb.com or www.zediker.com for product information and purchase, and all the latest information and updates on this product. While you're there, check out other products developed by David Tubb, like the FinalFinish™ bore treatment system, SightLine Extension Tube, Tubb Competition Sling, 6mmXC brass and dies, Tubb Rapid Fire Timer, Tubb Tactical Vest, the full line of CS [chrome silicon] high performance springs, SpeedLock Systems firing pins, and the ergonomic Tubb TIGER pistol grip. While you're there, take a look at David's newest book, *The Rifle Shooter*.



WWW.DAVIDTUBB.COM / WWW.ZEDIKER.COM

David Tubb's

BMU

UNIFORMS MATCH BULLET BALLISTIC COEFFICIENTS

Produced by 11-time National High Power Champion, David Tubb

[Ballistic Meplat Uniformer]

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|----------|---------------------------------------|-------------------------------------|--------------------------------------|
| Caliber: | <input type="checkbox"/> .22 (.224) | <input type="checkbox"/> 6mm (.243) | <input type="checkbox"/> .25 |
| | <input type="checkbox"/> 6.5mm (.264) | <input type="checkbox"/> .270 | <input type="checkbox"/> 7mm (284) |
| | <input type="checkbox"/> .30 (7.62mm) | <input type="checkbox"/> .338 | <input type="checkbox"/> Other _____ |

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