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posted 01 August 2010 23:18

Great Work ALL Y'All of Doc M's MBIT!

Could you clarify for me the current thinking on nose shapes for solids, oglved-FN (like the BBS) vs. truncated-cone-FN (like the GSC FN and North Fork FP), and how much radius is desirable on the nose-edge of the truncated cone FN?

Actually the BBS ogived-FN solid is sort of like a huge radius on straight cylinder FN!

Is it all good as long as the Flat Nose diameter excluding any radius is 65 to 70 percent of bullet diameter?

Ogive and edge radius on the FN just add to feeding ease? Does a sharp nose edge offer any terminal ballistic benefits in Doc M's test medium or live game?



Posts: 28032 | Location: KY | Registered: 09 December 2001

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posted 02 August 2010 00:25

RIP

All good points, all good questions too. Sam is going to knock the edge off some of those bullets. One I would like to see, (I must mention this to him) is the very recent test I did with the 500 gr. 500 caliber, long nose solid, very sharp meplat edges, great velocity, 2166 muzzle from the 50 B&M and 18 inch barrel. Penetration WAY short of what I expected. Sharp edges the culprit of penetration?? Maybe, I don't reallow who that this bullet should have given much deeper penetration than what it did. I would have expected 58-62 inches easy. Now if we can get Sam to duplicate this one, with rounded edges to the meplat, maybe we



I saw a lot of mass trauma in the test medium with the larger meplats, whether a more rounded edge would have done the same, I suspect it would have, or so close one really could not tell.

Seems to me also with the 577 tests most of the very sharp meplat edges were shorter on penetration than the samples of ones with more rounded radius. But also they had larger meplats, so nothing concrete yet. I think Sam will work on some of each to establish the fact. Most all commercial solids with the longer nose profile have more rounded edges, no sharp edges. Now most of this is for feed and function, which makes good sense, but it may also have much to do with penetration? Sharper edges causing the bullet to cut through the target, expending energy, slowing down quicker, less penetration??? Maybe? I also don't think that the sharp edges are "adding" anything to stability, actually may be taking away from it.

I have been working on getting some bullet tests/photos loaded and organized on the B&M site, take a look at what I have so far, I am just getting started, and of course starting with B&M cartridges and bullet tests. As I move forward I will load other cartridges and tests under caliber, each with it's own page, like the B&Ms. But it is a slow process, and I am just getting started.

 $\underline{\text{http://www.b-mrifles} and cartridges.com/default.html}}$

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008

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one of Us

posted 02 August 2010 00:46

OK if I round the edges this will reduce the true meplat diameter won't it? Hmmmm bet you didn't think of that! So is a 60% sharp edge the same as a 55% rounded?



posted 02 August 2010 01:52

Nope, going to have to do a 70% to get a 67% or what have you. Take a look at that North Fork I gave you yesterday. Can you do one that just knocks the edge off. Not a tremendous amount of metal. Just the sharp edge??? Needs to be done on the lathe. As much as I trust your bastard file, the very slightest nothing will make a change, maybe one we can't even see will make a big difference.

Can that be done?

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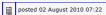
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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008

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This one in copper with one more band in front of the top one just may be perfect for multiple crimp options. Next test might need to be these in 100 FPS velocity increase steps 🔾

quote

Originally posted by peterdk:

quote

Originally posted by michael458:

577 Nitro
685 2 Band
69% Meplat of Caliber
Lubed
Muzzle Velocity 1816 fps
22 yd Impact Velocity 1746 fps
57 Inches Dead Straight

this have got to be the all time winner, BPE velocity and penetration as the rest, the two band design is really looking nice and i would actually like to try it in one of my BPE guns for the fun of it.

sam get it into production, please 😊

hest

peter

577 BME 3"500 KILL ALL 358 GREMLIN 404-375

we band of 45-70ers (Founder) Single Shot Shooters Society S.S.S. (Founder)

Posts: 27557 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005



srose One of Us

posted 03 August 2010 02:32

Hide Post

The twist in my Demas 577 is somewhere in the 1-20 to 1-21 range as best I can tell.

Peter, I'm not going into production on bullets but if there is enough interest in the 577 after we find the perfect bullet we might get a run made.

Sam

Posts: 2823 | Location: NC | Registered: 08 July 2006

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nichael458



posted 03 August 2010 03:06

Sam has been busy with that bastard file making sample bullets! I have the photos and going to load them up for you as a teaser of things to come! WOW! I would have never believed that we would have such great opportunities to test everything we can think of and then some more with the solids we have been working with, and many thanks to Sam for his bastard file skills and efforts.

Sam is right, on any and all bullets that we find we like for one reason or another, regardless of caliber, we are working with the best bullet people on the planet, some right here on this thread with us, where are you "J"? Between these guys, we can get the bullets into production easy.

As for 1 perfect design, no forget it! Sometimes work may call for an over large meplat, not for deepest penetration, but for increased transfer of trauma, or in fact to limit penetration. Then there is optimum meplat for deep straight penetration, then the cup points have their perfect niche in which to transfer trauma and penetrate, and even limited penetration. No one bullet can do it all, and I confess, I really don't want one that does everything, what fun is that, what thought process is needed for a 1 bullet world? No thanks, I like bullets, lot's of them too, a 1 bullet world just would not be any fun!

Different bullets for different missions! Of course missions overlap, and one would not be caught in the field unawares, that's the great thing about great bullets!

Bullets "ENHANCE" or can cause any cartridge to fail or succeed! A cartridge cannot stand alone, nor can a rifle, it's all about the bullet! Without the bullet, the others are useless! Without the proper bullet the cartridge will fail miserably! With the right bullet a cartridge can be enhanced far beyond it's expectations!

Michae

http://www.b-mriflesandcartridges.com/default.html

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008

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posted 03 August 2010 03:07

Now how about this for a big double no filler bullet!



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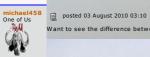
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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008



posted 03 August 2010 03:09





Want to see the difference between Sharp Edges on the meplat and a more rounded off edge???????







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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008



posted 03 August 2010 04:46

Very awesome looking bullets...definately going to be interesting test results.

I'm thinking the JDP 10 & 12 will penetrate less than the 15+ angle!

Way to go Sam!!!



Jim Usuali Jim Usuali John Wayne

Posts: 4954 | Location: Central Texas | Registered: 15 September 2007



Hide Pos

boom stick One of Us



posted 03 August 2010 05:13

Hide Post





Sweeeeeeet It in the same bullet with a radius Will be of most interest. Thanks for doing the comparison bullets! You guys are making quite the team.

One test idea! I had was a builet test to compare a flat point to a bluff nose test. See what a slight convex flat ish point with a radius point compares to a true flat point like those new bullets that I think Norma made. You know the black bullet ones.

I like the no filler bullet idea. This is similar to my idea of a long 12 gauge aluminum slug idea so no wad or cup ect needed.

Lots of fun and education to be had here.

577 BME 3"500 KILL ALL 358 GREMLIN 404-375

we band of 45-70ers (Founder) Single Shot Shooters Society S.S.S.S. (Founder)

Posts: 27557 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005

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posted 03 August 2010 05:18

Damn, Just when I get some nice photos loaded to look at, we turn to a new page

84!

Anyone think this thread will go to page 100????

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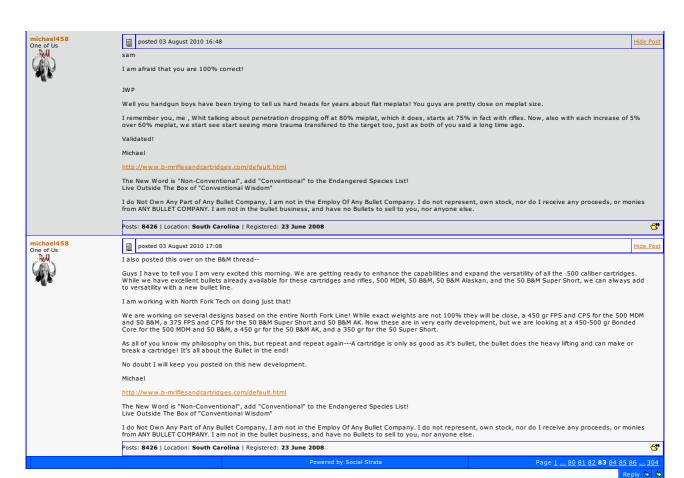
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