

SHOT Show 2012 was the first time I met a gentleman by the name of David Bailey. He approached me at our booth and wanted to talk to me about this "revolutionary product". I can't remember exactly how the conversation went, but I'm sure I passed him off, handed him a card and said call me later. Fast forward to SHOT Show 2013. That same gentleman comes up to me with a grin on his face and says he wants to talk to me about the Straight Jacket barrel system. Light bulb goes on and I remember who I'm talking to. I wasn't all that busy at the moment and quite frankly I just liked David. Something about him struck me right I guess. Anyhow, he starts telling me about what this system can do..... I glazed over and he saw it. Higher Velocities, no barrel whip, no barrel mirage, no Cold Bore, extraordinarily higher barrel life..... I literally told him he was a snake oil salesman and I wasn't interested. I started explaining my point of view which correlated with many other guys that have spent many, many years of studying the science behind what we know to be true with Ballistics. He chuckled and agreed, but didn't let up. He then asked me to please let him put the jacket system on one of my barrels and prove it. As all of you know, all too well, barrels aren't cheap. Once you have a good one you don't want to mess with it and when they are shot out, it's like a set of tires, you buy a new one. I told him I didn't have a new barrel. He didn't care, he just said they will improve a used one, a worn out one or even a cheap one. After a little while, I gave in and said I would send him my current competition barrel. At the time I was shooting one of my DTA SRS rifles with a SAC 260, probably a Bartlein, but I don't want to lie and say for sure. The barrel had 1995-2195 (My Bull Mastiff made lunch out of some data) rounds through it and was probably nearing the end of its life.

Let me say right now, I do not work for David or Al or have any affiliation with Teludyne. That said, David told me to send him that barrel and they would eat the cost. I wasn't going to pay for a barrel to be done and then have it go tits up on me half way through a match. So I did NOT pay for the original barrel to be treated with the SJBS (Straight Jacket Barrel System) and that's why David and Al had to wait so stinking long to get some real feedback from me.

I got the barrel back from Teludyne for my SRS after being treated with their Titanium system. Mounted it into the rifle and went to get a solid 100 yard zero.



When I first got this barrel, it shot just like anyone would expect a Short Action Customs barrel to shoot. It was a solid 3/8" or better rifle. I loved it, but it was opening up to a fat 1/2" and like I said, about ready to be retired. Using the exact same load from before the SJBS I immediately noticed a few things. First and foremost, my groups were back down into the 1/4-3/8" range.



Multiple groups were shot by myself and two other shooters. Jake and Kent were impressed with the precision of

the rifle, but they hadn't seen the groups open up from use for nearly 2000 rounds. Cold bore: there was no discernible cold bore shift. I tested this many, many times and I knew exactly where my CB shot was before, but now, there was none. Mirage is gone: I got this barrel back late spring, if I remember correctly, and no matter how many shots I put down the bore I never got mirage off of it. None. Impact shift from long strings of fire: Kent and I were out in the west desert shooting and ended up finding a rock at 1400 yards. It was in the 90's and I had 29 rounds left. I shot all 29 rounds at that rock just about as fast as I could while still properly pressing the trigger. Of the 29 rounds that were shot, the very few shots that missed were from bad windage corrections. There was ZERO impact shift as the bore heated up. The barrel was scorching hot, however, nothing moved and we had no mirage off the barrel. I didn't do any load development after I got the barrel back. I used 2 loads. One with H4350 and the other one with H1000. The rifle is still well under 1/2 MOA capable and now has 4968-5168 rounds down it.... How many of you have that many rounds on a 260 with warm to hot loaded ammunition?

OK so now after this early testing, I'm cautiously gaining interest yet still skeptical and Teludyne knew it. A lot of guys saw me shooting the system at matches and were interested in it. Still not confident in my knowledge of the system I wouldn't vouch for it. I would only tell them what David told me and what I had personally seen happen with my weapon system. Definitely need to do some more in depth testing and provide my opinion based on experience rather than free gear.

Earlier this year I decided I needed a new weapon system. Settled on the Badger 2013 SA, Bartlein 6.5mm 1-8" barrel, Accuracy International AX Chassis and an Xtreme 2 stage trigger. I sat down with my buddy Jeramie at Young Guns Precision Rifles in Price, UT. Told him exactly what I was planning and how I wanted it built. Gave him all the parts required and he handed me back my latest Precision rig chambered in 6.5 Creedmoor.



That easy! I did the standard load development things that we always do. OCW, Ladder, Primers, Powder, Seating depth..... you know the drill. Ended up with a charge of 42.4 grs of H4350 (big surprise) under the 136 gr Lapua "L" bullet for an average of 2853 fps. None of this is news to you gentleman that are familiar with the round and its capabilities. The rifle shoots just as I expected with groups hovering at 1/4-3/8" as a norm. I shot it for exactly 185 rounds. I planned on 200 before sending it off to make sure it shoots to my strict standards. Well, an



accident pulled me away from shooting for a couple months so it was as good a time as any to get the rifle sent off to Teludyne for the SJBS. I called David and told him I wanted to do another test on my own terms, but this time the new barrel would be on my own dime. Hammered it all out and I decided to go with the Aluminum SJBS.



Once I received the rifle back from Teludyne I mounted my Kahles 6-24 and Bipod and hit the range. I only had the 15 rounds left over from the initial testing so I was planning on a quick trip to get my 100 yard zero and maybe a few rounds at the 465 yard plate. After 3 rounds for a good zero, I dialed 2.2 mils for the 465 yard plate. It was 2.2 before, it's 2.2 with my daughters twin rifle and its 2.2 with my 260's..... With Jake on glass I sent the first round over the top of the 6" plate. He called .5 high so I checked my dope and sent another. Again, .5 mil high. I dialed down to my 100 yard zero and shot for confirmation, was dead on. Held 2.2 with my AMR retical and sent one more round high on the 465 plate. I gave in and dialed down .5 mil and sent one that hit bottom center of the plate. Then came up .1 and center punched the plate. 3 shots all dead center. Confusion set in when I opened up the Shooter program to true my velocity, and found that my velocity with the same ammo, loaded months prior, increased from 2850 to 3016 fps. Jake fired the last few rounds while I got in my Jeep and immediately called David. He enjoys these calls. I think sometimes my enthusiasm for calling B.S. while demanding answers provides he and Al with a bit of comic relief. I know they put me on speaker phone and got a good chuckle out of it. When I explained what had happened, I got the normal chuckle from David and "pretty freaking cool huh". Yeah, pretty cool but I want to know HOW and WHY! We talked for a bit and basically it comes down to the fact that we all know that barrels "whip" when you fire them. Light barrels more than heavy and short, obviously. This system, stiffens your barrel over 900% past a standard comparable profile heavy barrel, therefore, the whip is virtually gone. Now, all of that energy that was used to whip the barrel has resulted in an increase to the velocity. I'll take that trade any day. Ever the skeptic, I started planning to disprove the theory that the velocity increase was that extreme from the SJBS process.

In talking with David, he told me that, while each barrel is different, I could very well have seen a velocity increase. They had seen one that was even more extreme than mine. Now for the disclaimer: I'm not going guarantee anyone should expect it or to plan on such an increase. I'm sure it comes down to your barrel, but, based on my personal experience, I'm excited at the results.

\*\*\*\*From here on out I know that the majority of groups are NOT touching the point of aim. This is intentional to allow me the ability not to obscure my aiming point and to be more accurate while shooting groups. If shooting a group at 100, I dial in .1 or .2 up or down as well as left or right. The longer range targets, well that's just a crappy

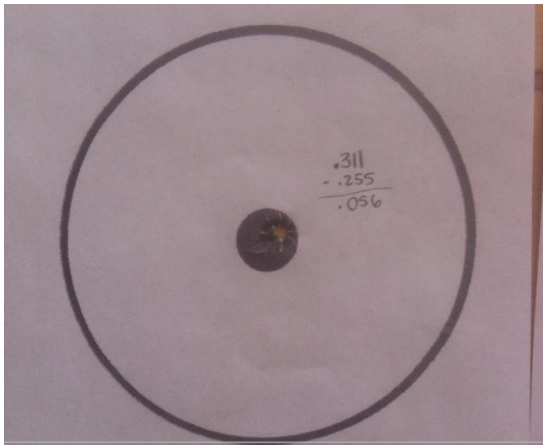
wind call. Lack of components also kept me from shooting larger numbers in my groups. You all know that H4350 is made of Unicorn tears.

On my next outing, I took my daughters 6.5 CM that was also built by Young Guns. Very similar builds, with hers having the same 26" stainless 8-twist barrel, but is on a M70 action and in a McCrees folding stock. Her rifle, just as mine does, shoots sub 1/2" with the same load of H4350 and the 136 "L".

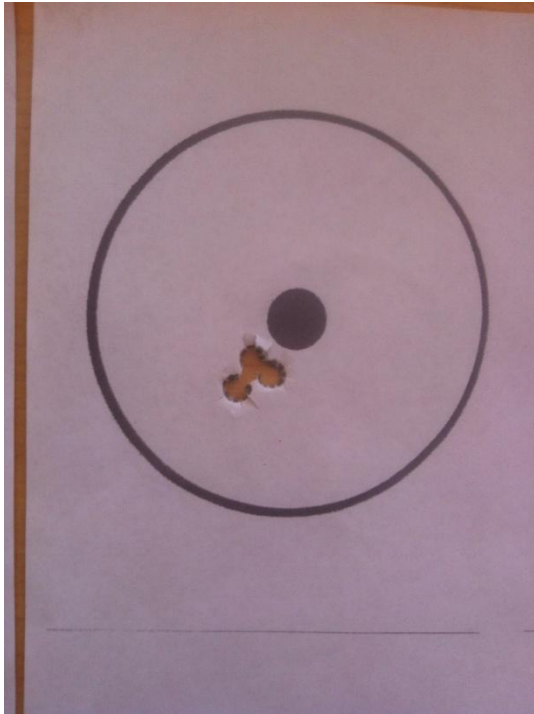


I went to my other range to allow for 1000 yards. I confirmed zero and cold bore shift on both rifles. The SJBS rifle had none. Her rifle had a very minimum shift, maybe 3/8" and, with that said, I can't rule out that I didn't have a bad press. I can only say that, on that day, I had a small shift. After that I started shooting 500 yard paper and 1000 yard steel targets. I'm not the best group shooter. I hate shooting groups actually, but I wanted to test the velocity and didn't want to go to my office to get my Chrono. Dialed 2.2 mils with the SJBS and fired a 5 shot group at 500. Then took my daughters rifle and dialed 2.5 mils and fired a 5 shot group. Marked those shots. Back at the firing line I dialed 6.9 mils and held for wind..... not enough wind (I ain't perfect) but elevation was good for a miss to the left. Corrected and smacked the IPSC steel, transitions to the 12" plate and sent 3 for hits. Got her rifle and dialed the known 2850 dope at 7.8 mils and held a bit more wind for 3 hits on the IPSC. Now from here on out I shot strings of 5 shots moving from the multiple dots on the target that I had at 500 and banging steel at 1000.

The SJBS got hot, but never had mirage of the barrel. My daughter's rifle got extremely hot. At one point I didn't want to keep shooting it at that pace, but I was almost done. I never let the barrels cool longer than it took to transition between rifles. Shots 48, 49 and 50 is when I returned to zero and shot a group at 100. As you can see in the pic below, the SJBS has zero impact shift and no issues with the group opening up. That is, to date, my best group ever.



My daughter's rifle, although still shooting 1/2 MOA hit 1" low and 1/2" left. I would have missed a 10" plate at 1000.

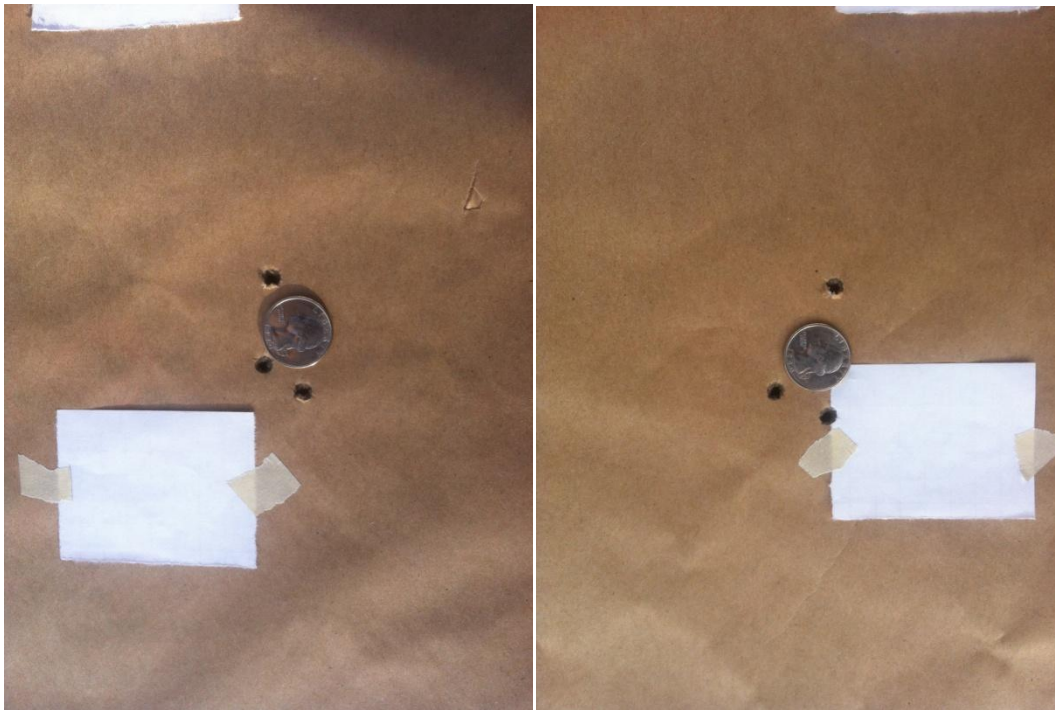


I packed up and headed home with a text to David to show him the .058 group.

That outing showed me once again that the SJBS wasn't effected by long strings of fire and had zero impact shift due to increasing bore temps.

Now that I was completely sold on the fact that my velocity had indeed increased the skeptic turned to believer. I now wanted to test the rifle with increasing charge weights to see if I could get more velocity out of it. I loaded up more 136's over charges from 42.2 to 43.4 in .2 gr increments. Shooting these rounds at 465 yards gave me no useful data other than they all shot 1.5 inch groups across the board and little to no change in elevation. Velocity was all 3010-3025 fps with groups opening up at 43.2 and 43.4, not drastic, but noticed. The targets below shows groups with 42.4 and 42.8 gr of powder.





I'm thinking that the lack of barrel whip causes the max velocity to be reached. While it still maintains accuracy, the max velocity is being reached for my barrel and the charge is not affecting the accuracy until it gets into the higher charge weights. Maybe this is from excessive pressures?

From then on out I just started doing different tests to see if I could find a flaw or anything that would prove the system wasn't all it was hyped up to be. I actually told David and Al that I was going to try to prove the system couldn't do what they advertised.

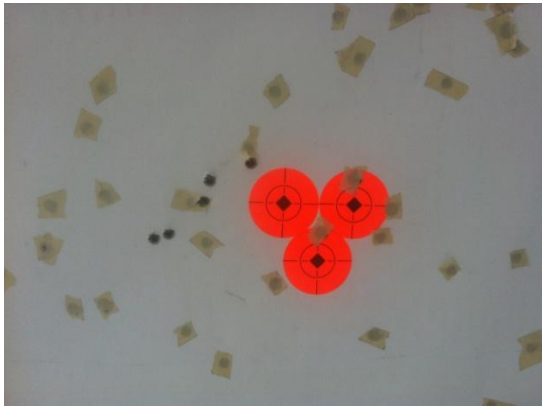
I loaded up 2 strings of ammo for a ladder test. 42.2, 42.4, 42.6, 42.8, 43 and 43.2. It told me nothing. At 500 yards, the group of all 6 shots was less than 1/2 MOA. Only 2" of vertical for all shots. Shooting the same test with my daughters weapon, 42.2, 42.4 and 42.6 clustered and the rest gave me 5.7" of vertical. Exactly what I would expect and what I have seen while performing these tests with many rifles and calibers in the past.

Now this next test is just an abbreviated CB (Cold Bore) test that I have done because I never have enough time to do what I want. I know it might not be considered by some to be true CB, but it's what I have time for and has proven to give me accurate results:

I went out on a Saturday morning with 10 rounds for the SJBS. Set up a 100 yard target and sent one CB round down range. Got in my Jeep and set a timer for 30 minutes. Once the timer went off, I went and shot another CB shot that went through the same hole. I repeated this process 6 times. I intended to do 7, but a bad primer didn't allow it. After the 6 CB shots were fired it showed that all were one ragged 3/8" hole. I followed the last one with a 3 shot group. The second round of that 3 opened up the group a hair, but still well under 1/2". As many times as I have shot a cold bore through this rifle, for record post SJBS, I can find zero measurable shift.

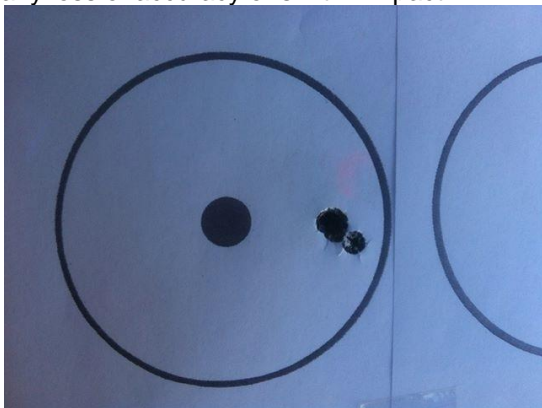


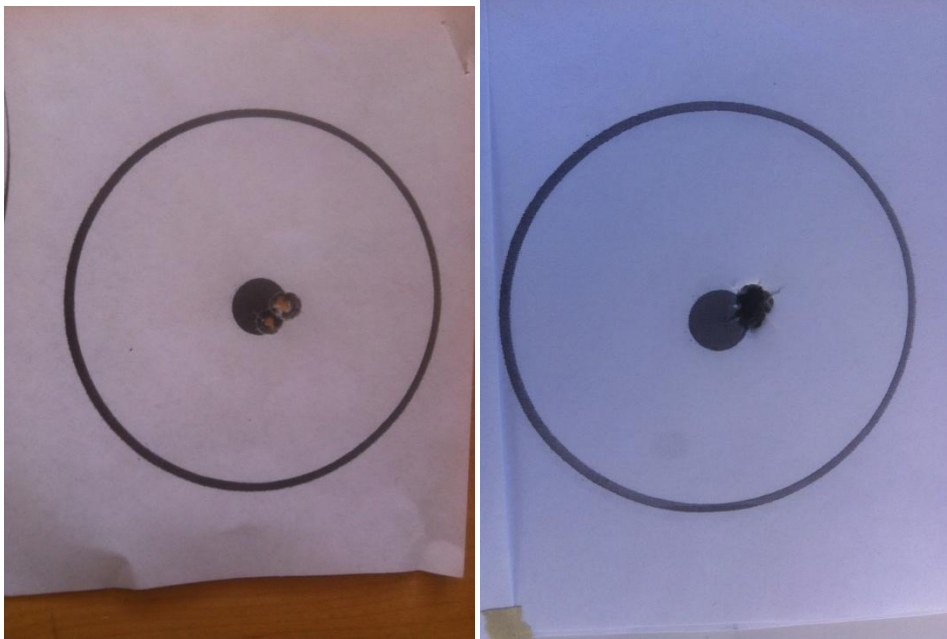
The picture below is a 5 shot group at 500 yards in 17 degrees. Its under 3" and although I didn't correct for a light breeze, you can see that there is no measurable CB.



Shot string from left to right and bottom to top. 5,2,3,1,4.

The following pictures are just some more groups that have been shot. The first being a 200 yard group right after I got the barrel back. All of these were taken AFTER I was done shooting for the day and wanted to see if there was any loss of accuracy or shift in impact.





To finish this up, I'm not going to claim that the SJBS made MY rifle more precise. I do know for a fact that it did tighten up my well used 260 barrel and that it is still going strong. I will also say, despite not being able to explain or understanding the science behind it, I have never had a more repeatable or reliable system before. Cold or hot it doesn't seem to matter. Long strings of fire in hot weather are now a moot issue. I rested my barrel on a section of 8x8 wood and shot a group at 500 yards, no shift or accuracy degradation.

I have found no false claims that have come from the boys at Teludyne. The only one that they have made that I can't prove or disprove is the 4-5x barrel life. That would be icing on the cake but the results for that claim will come with time.

Right now I own a 260 and 6.5CM barrel that have been treated. They currently have my custom AR15 barrel and one of my 375 CheyTac barrels. We even have plans to put the SJBS on my soon to be delivered GAP10 in 6CM.

Yeah, I'm a believer!

Russ W. @ Desert Tech Munitions