

# One-Hole Accuracy

JPE's SCR-11 rifle shoots targets worth hanging on the wall.

BY JAY LANGSTON

**A** couple of years ago, I got a firsthand look at the quality and precision that goes into building a JP Enterprises (JPE) rifle. When I say firsthand, I mean just that. I took tools in hand and built an LRP-07 under the careful watch of one of the JPE gunsmiths. I've fired that rifle and several other LRP-07s, and they are all easily sub-MOA rifles. These are beefy firearms, made to handle cartridges on par with the .308 Winchester. Finally, JPE applied their expertise to a scaled-down version, the SCR-11.

"We've constantly had shooters at matches asking when JP would incorporate the side-charging feature into a .223 rifle like the CTR-02," JP's owner, John Paul said. "The SCR-11 is the next step in our competition-ready rifles. Since the lines and innovative charging system of the LRP have been so well received, we've made the SCR-11 essentially a scaled-down version of the LRP-07 available with all the same caliber, barrel, handguard, metal finishing and stock options as the CTR-02."

## Competitive Features

The SCR-11 features an exaggerated bevel on the magazine well, like its predecessor, for faster speed loading and all the unique internal



**The author fired this .187-inch group with the SCR-11, which is his smallest recorded not just with this rifle, but with any rifle he has ever shot. Author Photo**

components and attention to detail that make a JPE rifle a benchmark for semi-auto rifles.

The SCR-11, like all JPE rifles, achieves accuracy gains by combining several build components. All of the separate parts are crafted with dependability and accuracy in mind. Upper and lower receiver, machined from a 7075-T6 aluminum billet, create a stout basis for the rifle. The barrel for the rifle tested was 20 inches in length and made from 416 stainless steel with a black finish.

"Our line of JP Supermatch barrels are manufactured to exacting specifications in a special configuration to mate with our components," Paul said. "These barrels are turned from the best 416 stainless

alloy, button rifled using state-of-the-art machines and cryogenically treated for cold-bore shot predictability, minimum thermal drift, outstanding accuracy and extended barrel life."

JPE's .223 barrels are chambered to a .223 Wylde configuration. It represents the best compromise between the SAAMI commercial spec .223 chamber and the NATO-type chamber, resulting in peak accuracy. The modified chamber yields excellent results with a wide range of projectiles from 40 to 77 grains from a 1:8 twist. A thermal dissipater was fitted to the JPE medium-contour barrel between the gas block and receiver, which yields a 700 percent increase in surface area under the handguard. Most of the

heat resulting from sustained fire is developed in a 2- to 3-inch area in front of the chamber, causing throat erosion and reduced accuracy over time, as well as heat buildup in the handguard.

The JPE Modular Hand Guard System and the way that it is installed are other key factors in the rifle's accuracy. A free-floating tubular handguard on an AR-15 offers the greatest improvement in accuracy of any single modification. In addition to overall accuracy

improvement, point of impact will not change regardless of how the rifle is being shot, whether with a bipod, sling or hand held. Assuming a good barrel and ammunition, it's not uncommon for accuracy to improve from 1.5 to 2 MOA, to sub-MOA with a properly installed free-float handguard. The tube on the SCR-11 is secured to the outer nut with six flathead screws that stay precisely aligned with the upper receiver of the rifle.

JPE's Low Mass Operating System (LMOS) is another factor in SCR-11 performance. Compared to a mil-spec AR's bolt carrier group, the LMOS system consists of a bolt carrier and buffer that weigh much less than mil-spec parts. Reducing the reciprocating mass lets a shooter feel a reduced recoil impulse, and bolt velocity is increased without significantly affecting reliability. Two other components that influence the feel and performance of the SCR-11 are the muzzle compensator and the JPE fire control group. This rifle had a light 2-pound, 10-ounce trigger pull.

### Range Time

Several five-shot groups fired at 100 yards gave a good measure of the SCR-11's performance. A Hensoldt ZF 4-16x tactical scope set in Barrett rings matched the rifle's capability. Wind conditions were almost negligible, and the setup must have been pretty steady, because I fired the smallest five-shot group I have ever fired at 100 yards with any rifle.

Five factory loads and one handload through the SCR-11 made it obvious that this rifle is ½-MOA capable. Summit Ammunition's 70-grain boat-tail hollow-point match load averaged

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## JP ENTERPRISES SCR-11

<b>CALIBER:</b>	.223 Wylde
<b>ACTION:</b>	Semi-auto, DGI
<b>BARREL:</b>	JPE Supermatch 416R button-rifled
<b>FINISH:</b>	Matte black Teflon on anodized aluminum, black barrel
<b>WEIGHT:</b>	8 lbs., 10 ozs.
<b>CAPACITY:</b>	30-round magazine
<b>SPR:</b>	\$2,865 (as tested)
<b>CONTACT:</b>	<a href="http://jprifles.com">jprifles.com</a>

.621 for five groups fired. The smallest group with the Summit load measured .407. Black Hills 60-grain Hornady VMax loads averaged .784-inch for eight groups fired, while the smallest measured .472.

The all-time smallest five-shot group

I have fired at 100 yards came from a handload. Starting with Lake City brass, I loaded 22 grains of Accurate 2230 behind a 70-grain Berger VLD. A Federal small rifle match primer lit the fire. The average tallied .717-inch for six groups, but as I was nearing the

end of my testing, I fired a one-hole group that measured center-to-center .187-inch. I save targets for future reference, but this one will go on the wall with a witness's signature. Usually, my editors like me to end an article with a paragraph that brings the article full circle and ends on a high note. When I fire a group that measures smaller than the diameter of a .224 slug, well, enough said. **GDTM**

## PERFORMANCE

MANUFACTURER	BULLET WEIGHT (gr.)	AVG. GROUP	SMALLEST GROUP (in.)
Hornady Superformance	75 BTHP	1.663	1.529
Summit Match	70 BTHP	0.621	0.407
Black Hills	75 Match	0.920	0.624
Hornady TAP	60	0.958	0.764
Black Hills	60 VMax	0.784	0.472
<b>HANDLOAD</b>			
22 gr. Accurate 2230	70 Berger VLD	0.717	0.187

**THE AUTHOR:** Tennessee-based Jay Langston is a freelance writer, book publisher and author and a former magazine editor at several outdoor titles. As an author he has written books on whitetail and turkey hunting and about America's greatest guns and their histories. He spends his spare time testing new guns in the Nashville area.



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