

# Pellet group testing of Steyr Sportwaffen LP10E pistol.

Having now started to get used to the brand new Steyr Sportwaffen LP10E, it has been decided to carry out some basic pellet grouping tests to enable some comparisons to be drawn between the the earlier LP1 and the LP10E pistols.

The LP10E was set up in the trusty workmate test rig and fitted with the Combro CB625 chronoscope. The ambient temperature was 6°C and the humidity was 70% RH, variations in these condition might have a small affect on the obtained group positions, but should not adversely affect the overall group size. The pellets that were being used were the tried and tested 4.49mm H & N Finale Match Air Rifle.

Several test shots were fired until the shot placement was near to the centre of the card. It soon became apparent that the muzzle velocity was quite a bit higher than had been experienced in previous test undertaken on the LP1 air pistol.

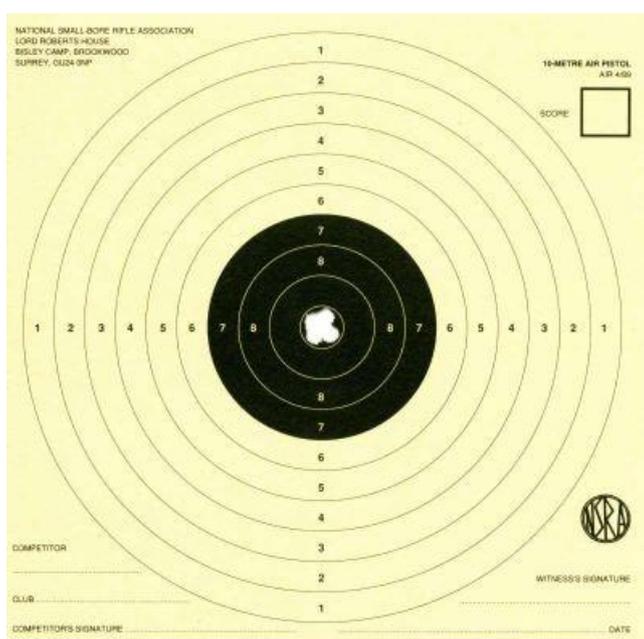
As it is not quite so easy to remove the grip and adjust the muzzle velocity as the grip has to be re-instated before being able to initiate the superb electronic trigger, it was decided to concentrate purely on creating test groups with the muzzle velocity at the factory setting.

Three test groups of 10 shots each were carried out, all with very good results not only in shot placement but also in terms of consistency of muzzle velocity.

The resultant test velocities in feet per second are shown below with the corresponding group placement image. The groups have not been modified in any way only moved over slightly to show a comparison with the "10" ring on the standard 10 metre targets.

Whilst the actual resultant shot diagrams may not be as tight as the pistol/pellet manufacturers test diagrams, we conclude from our experience and the results obtained in our previous test sessions that these are possibly more representative of what should be able to be achieved when the pistol is in the hand.

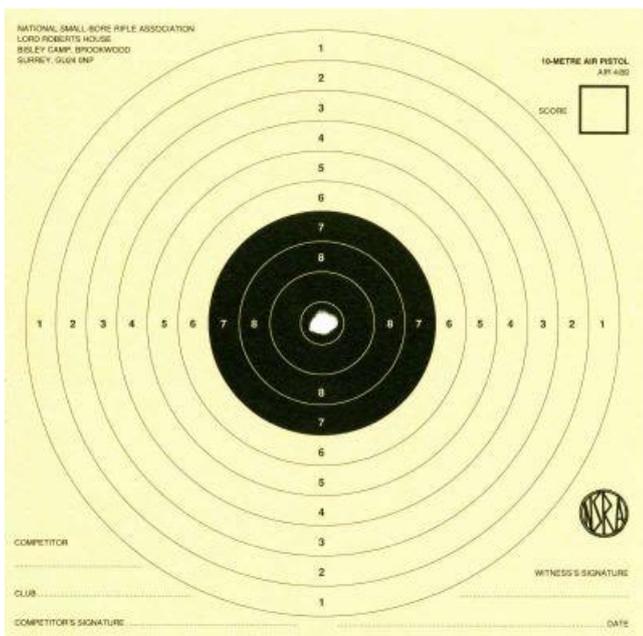
Test 1: 547 538 547 545 542 543 546 540 546 547 Average 542FPS.



Test 2: 536 548 548 550 540 550 548 553 546 551 Average 547FPS.



Test 3: 547 545 548 545 547 547 544 547 542 543 Average 545FPS.



As can be seen from the group patterns that have been obtained, the LP10E has created some outstanding groups. As a result of these tests, we will not be immediately attempting to adjust the muzzle velocity in search of the possibility of a tighter group.

At some point in the future this could be undertaken, purely to establish if the fairly high air usage can be improved on, as it has been found that it would be unwise to expect many more than 120 shots out of a full air cylinder, which when compared to the normal 160 shots out of the LP1 means not to expect to shoot more than one full ISSF course and sighters per cylinder.

In conclusion, this pistol works perfectly straight out of the box without the need to make any adjustments and the electronic trigger is a dream.

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