

## Elite Accuracy LLC

### A word on Accuracy and Custom Rifles.

The design and function of custom rifles can vary widely from one to another, as well as the accuracy expectations for those rifle designs. In general we can expect great accuracy from our custom rifles compared to similar designed factory rifles. One must take serious consideration of cartridge selection; it is advisable to always choose the smallest cartridge that will do the intended job at the distances you tend to shoot. If you are building a light weight deer rifle for 600 yard hunting, choose a 6.5x284 or a 7mm Remington magnum over a 28 Nosler or a 300 win mag. The reduced weight of the rifle will be better suited in absorbing the reduced recoil impulse of the smaller cartridge, thus making you a better shot. This brief outline should guide you down a path for your perfect rifle.

#### The heavy bench/ target rifle;

These rifles are built to be set up on rest and shot from a single position at both short and extended ranges depending on the discipline. These rifles tend to be very heavy and not produce any fliers or have group dispersion from barrel heat. Expected accuracy for 10 shot strings of fire in rapid succession tends to be less than .25 MOA.

#### The tactical rifle or heavy long range field rifle;

These rifles are built to be Long range accurate, while maintaining consistency over strings of fire which may be 20 rounds in less than 3 minutes. Typically these rifles are built on short action chambering's running 45 grains or less powder. This keeps barrel temperatures lower than magnum chambering's, allowing repeated point of aim impacts with precision. These rifles typically hold 10 shot groups under .5 MOA when fired in rapid succession. Rifles tend to weight from 15-20 lbs.

#### The heavy long range hunting rifle;

These purpose built rifles are designed for long range hunting and rarely see use as walk around field rifles. Typical designs use magnum cartridges firing high Ballistic Coefficient bullets out of large bores 7mm- 338. The rifles typically weight between 11-16 lbs, and wear heavy high magnification scopes. They are designed to deliver an accurate heavy payload at long ranges from a prone position. Typical accuracy will be .5 MOA for 5 shots fired at a relaxed pace.

The light long range hunting rifle;

These rifles are designed to be carried or packed in the field, at 7.5 to 9 lbs. The suitable light rifle will be a medium bore of 6.5mm to 30 calibers to minimize recoil and barrel heat. These rifles may be standard cartridges or magnums, but are not typically the very large over bored magnums that produce excessive muzzle blast and recoil. These rifles are designed for hunting out to the 6-700 yard mark with precision. Typical rifle scopes in the 3-15 or 4-16 power range make suitable optics. The down side is the light weight barrels tend to heat up fast so accuracy testing should be done in only 3 shot groups allowing ample time for the barrel to cool during shooting. These rifles are fully capable of 3 shot group accuracy under .5 MOA when fed good ammunition and fired by experienced shooters.

The Light weight "mountain rifle";

A true mountain rifle usually tips the scales at 6-6.5 lbs and typically wears a scope that weighs less than a single pound in 2-7 or 3-9 configurations. These rifles are purpose designed for light travel, and to place accurate shots at up to 400 yards by experienced marksmen. Typical cartridges never exceed the bore and power of a 7mm Remington magnum, with most being built on standard cartridges in a short action rifle. Developing an accurate load requires the utmost patience with a mountain rifle; barrel heat can be an issue after just 2 rounds. Typical acceptable accuracy of 1 MOA is fully acceptable with such a light rifle. These rifles typically cost more from the use of exotic materials like Titanium in some of their component parts.