Ozarks
Gunsmithing
Company
offers several
brochures and
flyers written to
be informative
and educational
on various gun
topics.

Available Topics are:

- Fix All Your Guns
- Cleaning
- Firearm Restoration
- Bluing, Parkerizing, and Coatings
- Firearm Enhancement
- CCW Guide
- Sights and Scopes

Other topics will be covered as our customers ask more questions and need to have straight up answers based upon our decades of experience.

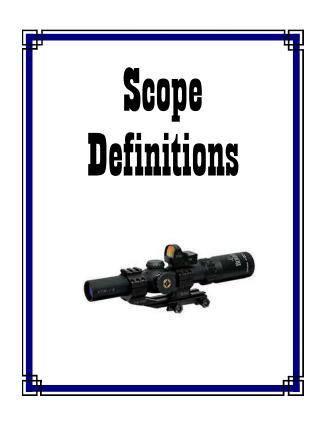
Always feel free to ask questions. We really do not consider any question a dumb one.

Easy Access

Located in **Ozark, Missouri** with easy access from Highway 65, Highway 14, and Highway F. on Business 65 or South 3rd Street.







Repair ALL of your Firearms!



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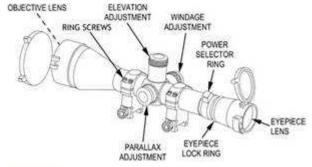
Scopes Definitions....

Although Ozarks Gunsmithing offers all the major brands of original and after market sights and scopes, the purpose of this brochure is to help our customers to better understand the selection, hardware, and mounting process of each.

Generally speaking, except in the case of OEM replacement, scopes and enhanced sights are selected for the following reasons:

- Distance accuracy (Shot Placement)
- Deteriorating eyesight of the shooter
- Quicker target acquisition
- Night-time target acquisition
- Clearer sight picture

Obviously enhanced sights and scopes can be added to all styles of firearms, rifles, shotguns, and handguns. Let's start with scopes.



As example, a 3-9x40 scope means the scope has adjustable power from 3 to 9 power with a 40 MM objective. Generally the tube of a scope is either 30MM or 1" in diameter. The larger the objective, the height of the rings may need to increase which will change the shooters cheek rest position, length of pull, and sight objective location. Additionally, not all firearms are even built scope ready and must be properly located, drilled and tapped to accept scope mount hardware. Some scope rings attach directly to the action and some to the barrel of the gun.

In any instance, once the scope has been selected, the mounting of the scope is paramount in the scopes proper function.

The following is a partial listing of the steps necessary for the proper mounting of a scope. Because of some proprietary techniques, we will not list every step that we require for this process.

- 1. Acquire proper mount, rings, and fasteners for scope mounting.
- 2. If necessary, locate, center, and mill the necessary screw holes and tap the proper size and TPI for the selected screws.
- 3. Special Process
- 4. Attach the rings or mount(s) to the firearm as a temporary measure and carefully assess screw clearance and bolt function.
- 5. (Attach lower rings to mount with proper torque values)
- With special tooling, gage parallelism and perpendicularity of the rings to the action.
- 7. Special Process
- 8. Loose fit scope into rings and set length of pull for the specific customer.
- Properly set all screws with proper torque values.
- 10. Special Process
- 11. Laser Bore-sight scope for caliber trajectory and specified distance from the customer.

A properly mounted scope should have no looseness that would allow rotation or push/pull ability. However, it should not be mounted so tight in the rings that the actual body of the scope is dented or crimped by the rings. In many cases, other mounting adjustments are necessary such as ring shims or adapters that can compensate for lack or adjustment or action contours that require compensation in the perpendicularity of the scope to rings.

Everyone's eyesight is different which makes target acquisition as unique as the firearm being used.

Scope Trouble Shooting Q & A Short

The cross hairs on my scope won't move.

The scope is broken and must be repaired or replaced by the OEM.

The scope appears foggy or clouded.

A seal has failed and has allowed argon (or other) gas to escape and moisture to enter inside the tube. The scope is broken and must be repaired or replaced by the OEM.

The cross-hairs do not appear to be perfectly horizontal.

The scope is either out of adjustment or loose in the rings. Bring the scope and firearm to Ozarks Gunsmithing.

The scope is on target and yet the fired bullets are not on target.

Could be a lot of things. May not be the scope at all, but rather the firearm or even the shooter. Bring the scope and firearm to Ozarks Gunsmithing.

The scope is scratched and marred. Can it be re-blued?

No. Generally the scope tube and components are aluminum or an aluminum based alloy which have been anodized and cannot be reblued. The scope would not with stand the heat of the hot salt bluing process. However, sometimes we can "touch them up" to have a better appearance.

Why are a scopes so expensive?

Optics, manufacturing process, and the precise manufacturing required for making close adjustments for wind and elevation.

There is a great deal of careful work in the proper setting of a scope. Once it is boresighted, it is up to the customer to conduct the actual shoot sighting of the firearm to achieve zero. We'll get you on paper. After that a shoot adjustment is required.



