

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

**Available Topics are:**

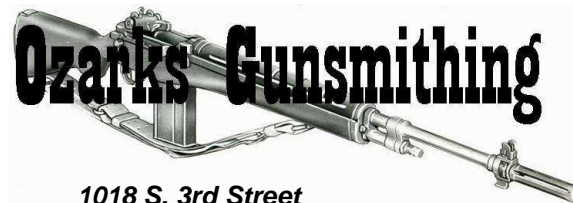
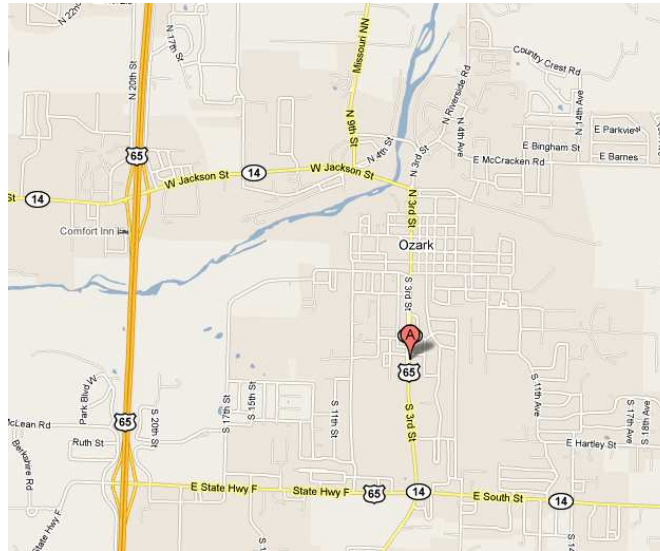
- Fix All Your Guns
- Cleaning
- Firearm Restoration
- Bluing, Parkerizing, and Coatings
- Firearm Enhancement
- CCW Guide
- **Sights and Scopes**

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.



1018 S. 3rd Street  
Ozark, MO 65721  
417.343.7579  
[www.ozarksgunsmithing.com](http://www.ozarksgunsmithing.com)  
[gunsmith@ozarksgunsmithing.com](mailto:gunsmith@ozarksgunsmithing.com)

**Good Old  
Fashioned  
Service !**

## **Sights Definitions**



## **Repair ALL of your Firearms!**



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## Sights 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 sights. 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



As eyes become older, sight and target acquisition becomes a bigger issue. Tri-focals, bi-focals, darkness are just some of the factors that make proper firearms sighting a very important factor in the selection process. Traditionally the makers of the firearms assume that we all have perfect close and distance vision. This is where a good Gunsmith plays an important role in the decision process.

In today's market sights can be broken down into the following categories with multiple variants on each:

- Iron Sights or Traditional Sights  
Open, Aperture (Peep), V-Notch, etc.
- Fiber Optic (Various Colors)
- Tritium Sights (Glow in the dark)
- Lasers
- Holographic sights
- Night Vision

With the invention of the picatenny rail mounting system the proper mounting of many of these sighting methods became much less complicated and very reliable. However, sometimes lasers, holographics, etc are not practical and even affordable.

## Sight Mounting

The most current most common method of mounting sights is via the "Dovetail" cut on the action, frame, or barrel of the firearm. The dovetail is cut on a mill with a special vertical cutter at a 60 or 65 degree cut and the male matching dovetail is either pushed with a special tool or drifted onto the firearm. Very secure, but



very difficult to properly make the cut and fit.

- The second most common mounting system is the picatenny rail system. The rail is mounted directly to the action, frame, or barrel of the firearm and allows sights, scopes, and other accessories to be mounted on it. It is generally a universally dimensioned mount and most sights, rings, and accessories can be mounted to it.
- The third most popular sight mount is the underslide, flat headed hex screw and requires a special tool to install.
- After these three are:  
Direct Screw Mount  
Swaged and dimpled  
Soldered/Welded  
Threaded Bead  
Drift/Expansion Pin  
Built into the frame



At Ozarks Gunsmithing, we support and install all of these mounting methods.

While many sighting needs can be satisfied with commercially available sights, we are finding that on many of the traditional firearms modified or custom sights built by Ozarks Gunsmithing better fits the vision needs of our customers allowing them to continue to shoot their favorite long gun or hand gun via sights.

The following are examples of Ozarks Gunsmithing manufactured sights custom replacement sights or custom sights made for the customer to enhance their sight picture because of vision issues:

Smith & Wesson Model 66 357 Magnum SS  
Sight Made as rugged fixed sight for concealed carry. (The firearm was also rebuilt and customized.)



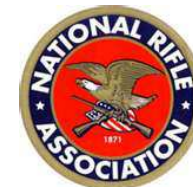
Colt Python front sight rebuilt into a fiber optic sight to help customer sight better than standard iron sights.

Antique Stevens Crackshot (Family Heirloom)  
Completely Restored with custom front sight because of sizing problems.



Custom 1911 Officers Pistol. Built with custom made fiber optic sights both front and back. We offer this firearm for sale in our shop. Comes standard with tritium sights, but customer needed fiber optic.

Ozarks Gunsmithing offers a huge variety of custom options on sights. If you require a clearer sight picture, bring your firearm to our shop and let's talk about it.



# AMERICAN GUNSMITH