



Redding Reloading Equipment Cortland, NY 13045

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Type S Bushing Style Full Length Sizing Die Instructions

Congratulations! Your purchase of the Redding Type S Bushing Style Full Length Sizing Die brings an advanced level of precision to your handloading.

Introduction

Your Type S Bushing Style Full Length Sizing Die uses interchangeable bushings which are sold separately and allow you to choose the amount of neck sizing for your circumstances. Bushings are offered in .001" increments to allow you to select the amount of neck sizing that is "just right" for the neck wall thickness of the brass you are using.

Bushings are available in heat-treated steel or with a Titanium Nitride surface treatment for those who wish to minimize stress on the brass while sizing the necks.

Concentricity is enhanced by sizing the neck as little as necessary as well as through the ability of the bushing to self-center on the case neck. Partial resizing of the neck length can also be accomplished by a simple adjustment of the decapping rod. Shoulder bump can be precisely controlled through die adjustment or by using our Competition Shellholder Set.

Additional Uses

Body Die

Simply removing the bushing will turn your die into a body die for those who wish to body size and bump shoulders without disturbing the neck diameter.

Case Preparation

To get the most from your new Bushing Style Full Length sizing die you should become familiar with the basic case preparation procedures used by benchrest and competition shooters. Cartridge case uniformity is the secret ingredient. At the very least you should segregate your cases by manufacturer's lot number and sort them for uniformity. It has been demonstrated that cases that are uniform in neck wall thickness (as received from the manufacturer) will remain straighter throughout the reloading, firing and reloading process. It is very important that the case mouths are trimmed square and chamfered inside and out.



To Determine Bushing Size

The proper bushing size can be determined by measuring the outside neck diameter of your loaded cartridges with a precision micrometer. From this measurement, subtract .002". This allows for a small amount of spring back and creates the proper neck tension for seating the bullet.

For more information, reference the Bushing Chart on our website.

Die Preparation

All Redding dies are protected in storage and shipment by a rust preventative film which must be removed before use. Clean the inside of the die with a good grade of bore solvent and brass brush and then wipe thoroughly with a clean patch.

While you have the die apart it is a good time to familiarize yourself with the decapping rod. Note that the overall length of the rod is adjustable.

Bushing Installation

- Drop a bushing of the desired size into the die body.
- Insert the decapping rod until you feel it contact the bushing.
- Back it away from the bushing by 1/16 of a turn and lock in place.

Note: This last step is very important. It gives the bushing .003" - .004" clearance allowing it to self-center on your case necks.

Check the position of the decapping pin. It should protrude from the die body 1/8" to 3/16" to properly remove spent primers. A good gauge is the thickness of two nickels. If it is incorrect, remove the entire decapping rod assembly and readjust its overall length as necessary.

Lubrication

You should always visually inspect and clean your cases prior to resizing. The inside of the necks should be cleaned with a case neck brush to remove any abrasive residue.

Sizing bushings are available in Heat Treated Steel or with a Titanium Nitride surface treatment. A good quality neck lube like Imperial Dry Neck Lube (Part #07700) or Application Media (Part #07900) should always be used to minimize any unnecessary stress on the case neck. To ensure trouble-free full length sizing, the remainder (except the shoulder) of the case must be lightly coated with a high-quality case sizing lubricant, such as Imperial Sizing Die Wax (Part #07600).

Die Adjustment

When installing the die in your press, it should be adjusted to make firm contact with the shellholder when the ram is in its uppermost position. A fired case is then lubricated and sized in the die. After wiping the case clean, try it in your firearm's chamber. Shoulder position or datum line headspace has a range in all cartridge specifications and if your chamber is on the generous end of the tolerance, you may wish to adjust the die to better replicate the dimensions of the chamber.

To control the shoulder position of your resized cases to match your rifle's chamber we suggest you use Redding's Competition Shellholder Set for repeatable dimensional precision of datum line headspace (bump).

If you have any questions regarding the above procedures, please do not hesitate to contact our tech support members.

Email: techline@redding-reloading.com

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Lifetime Warranty Disclaimer:

All Redding Reloading Equipment has been carefully inspected prior to shipment and is fully warranted to be free from defects in materials and workmanship for life.

Any product or parts which prove to be defective will be replaced or repaired without charge if returned prepaid to the factory.

Note: We reserve the right to decline responsibility where misuse or careless handling is evident or where repairs or modifications have been made or attempted by others.