

Rifle Bench Rest Assembly

Sanford Prime

VIEW IN BROWSER

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Summary

This is a fully 3D printed adjustable height bench rest for target shooting. Hot swappable wye to fit your rifle stocks.

Sports & Outdoor > Outdoor Sports

Tags: assembly tripod thread accuracy threads shooting rifle target rest assemblyrequired range shootingsports targetshooting aim shootinggallery targetpractice riflestock benchrest rifleaccessory rifles shootinggear frontrest

If you're into target shooting, this is the print for you. This is an adjustable height bench rest for rifle shooting with interchangeable yokes to fit the stock width of your rifle. The height adjustment is done easily by turning the screw and re-tightening the jam-nut. This thing is rock solid once assembled!

There are 3 feet on the bottom to give maximum stability when placed on uneven surfaces. The rifle yoke is positioned appropriately within the tripod for hands-free stability.

All parts of this are 3D printed, even the 1⁄2-13 socket heads!

This bench rest is also suitable for holding the rifle secure during maintenance, such as scope mounting, as shown in the video.

If you are looking to improve your shooting accuracy this is the rifle rest you need. Once everyone see's your custom 3D printed bench rest at the range you'll have lots of questions to answer, such as ‘How do I get one of those?’ and ‘Can you make one for me?’

The largest part in this assembly (tripod base) was designed to use the entire print bed of my Ender 3. The bed of your printer must be able to handle a print measuring 8.25" x 8.25" [210mm x 210mm] in order to print it (just so you know).

For some printing information, orientation, and other general background information, I recommend watching the video below:

Model Files:

Adjustment Thread - Qty (1) Required

Foot Pad - Qty (3) Required

SHCS - 1_2-13x0.75 - Qty (3) Required

Thread Insert - Qty (1) Required

Threaded LockNut - Qty (1) Required

Tripod Base - Qty (1) Required

Wye for Rifle 150 - Qty (1) Required if stock width is less than 1.5"

Wye for Rifle 175 - Qty (1) Required if stock width is between 1.5" and 1.75"

Wrap-up:

The model I printed was done from all PLA materials, including the screws. I don't plan on leaving this bench rest in a hot vehicle, but I know it could happen. In the future I plan on printing another one from PETg for longevity.

Using this bench rest definitely improved the accuracy of target shooting my Ruger 10-22. I am interested in hearing what rifles you're using (or intend to use) with it.

I hope you enjoy! Thanks for checking it out! If you like things like this be sure to check out the many other models I have here.

*Update 7-22-24: Wye Supports for 2.00" and 2.25" widths have been added. Also the Solidworks native .sldprt file has been added for the 1.75" width just in case anyone else wants to modify further and share.

*Update 2-8-25: Added ‘Adjustment Thread (long)’ it's 8.50" [215.9mm] in length.

Model files



wye-for-rifle-175.3mf



foot-pad.3mf



shcs-1_2-13x075.3mf



thread-insert.3mf



threaded-locknut.3mf



wye-for-rifle-150.3mf



tripod-base.3mf



adjustment-thread.3mf



wye-for-rifle-225.3mf



wye-for-rifle-200.3mf

wye-for-rifle-175.sldprt



adjustment-thread-long.3mf

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