



Ergonomic hand stabilizer for precise operations



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Summary

A fully printable, 360 degree tunable contraption to help people stabilize their hand while doing precise operations.

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Tags: [holder](#) [jewelry](#) [adjustable](#) [clamping](#) [alignment](#)
[relievestress](#) [shakeprevention](#)

Update:

Adding a new base with large opening (from 40mm to 45 mm) for thicker bench top. The v-grove is removed in this base.

Introduction:

This is a versatile hand stabilizer that could be used in any shop that requires precise operations. It is a fully printable design with no other hardware required. It could be printed without any support. I printed all the parts with **4 perimeters and brim**. The ball-joint and the clamp provides a lockable rotatable base for the user to point the stabilization lever to a desired direction. In addition, a V-groove is provided for jewelry saw cutting.

This device helps you stabilize your hand when you place small components on PCB, make jewelry, repair watches/glasses, hold pointed brushes, align optics, put tiny screws in the right place, or apply decals to models, etc.

You can even use it to dry your cups if you want or use it to hold the parts you want to airbrush paint. Let me know what it can help you with.

Assembly procedures:

1. Print and collect all 5 parts
2. Put the ball_joint into the joint_cavity
3. Screw the ball_joint into the base
4. Put on the base_secure
5. Screw on the lever, do not tight it, point the lever to the direction you want and secure it to the ball joint
6. Loose the lever and redirect to another direction you need and secure it again.
7. Enjoy

Model files

all-5-parts.3mf



base_large_opening.stl

☐ increase the opening to 45 mm, remove the v groove

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