Printables by JOSEF PRUSA



Small Assembly Clamp

VC Design

VIEW IN BROWSER

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Summary

A compact, scalable clamp designed to hold parts together during assembly tasks such as gluing or positioning :)

Hobby & Makers > Tools

Tags: tool holder assembly clamp tools clamping clamps gluing clampingtools vcdesign

The clamp uses a **spring-based mechanism** to apply a **constant and even clamping force**, making it ideal for delicate assemblies where consistent pressure is more important than high force. Thanks to its simple geometry, the design can easily be **scaled in the slicer** to create larger or smaller versions depending on your needs.

To protect sensitive surfaces, the clamp features **replaceable tip inserts** that can be printed in **TPU**. These soft inserts prevent marks, scratches, or damage to your parts while clamping.

Features:

- Spring-loaded mechanism for constant pressure (PETG advised)
- Scalable design (resize directly in the slicer)
- TPU tip inserts to protect parts
- Ideal for gluing, light assembly, and positioning

- Support-free printing (except spring if needed, depending on material)

Perfect for workshops, model making, prototyping, and general assembly tasks where precision and care matter :)

Model files



small_assembly_clamp_base_vcdesign.stl



small_assembly_clamp_insert_vcdesign_2x.stl

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