



Strong Modular Clamp Mk2



ElectricCrowbar

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Summary

Second attempt at a strong and customizable clamp Minimally you will need to print: 1 Clamp Base 1 Basic Screw 1...

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Second attempt at a strong and customizable clamp

Minimally you will need to print:

- 1 Clamp Base
- 1 Basic Screw
- 1 Threaded Insert
- 1 Ball socketed insert
- 1 additional insert of any style

In practice use the shortest / smallest screw and clamp base you can to get the best strength.

I'd like to work on a better "clip in" standard as this was my first attempt at a snap in part. My goal for the hexagon connector was ease of print and a strong joint under compression. It achieves this, but is probably a little more complicated a profile than it needs to be.

** Considering it's made from PLA it's pretty strong, again print the smaller parts for for the strongest grip. If i'm honest the 125mm design is pushing the limits of the material a tad.*

*** Not for use on Yaks*

Print Settings

Printer Brand:

Prusa

Printer:

I3 MK3S

Rafts:

No

Supports:

No

Resolution:

.30 - .15

Infill:

20%-25%

Filament: Prusament PLA Various

Notes:

Print the threaded parts at better than 0.20mm resolution if possible. For greater strength dial up parameters and solid top and bottom layers.

Clamp base is designed to be printed with text facing up or down in the Z axis.

The spike and wedge inserts will probably need support material in any orientation I can think of.

Category: Hand Tools

Model files



insert_-_threaded.stl



125mm_-_clamp_base.stl



connector_profile_base_v3.f3d



insert_-_wedge_-_90_degree.stl



insert_-_flat.stl



100mm_-_clamp_base_v6.f3d



insert_-_spike.stl



60mm_-_basic_screw.f3d



60mm_-_basic_screw.stl



insert_-_slot_-_90_degree.stl



100mm_-_basic_screw.stl



100mm_-_clamp_base.stl



insert_-_ball_adapter.stl



insert_-_threaded_v1.f3d



80mm_-_basic_screw.stl



insert_-_blank.stl



insert_-_blank_v7.f3d



75mm_-_clamp_base.stl



insert_-_blank_-_long.stl

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