

Vcore 3.1 Stepper Decoupling and visual Belts Mod

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[VIEW IN BROWSER](#)

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Summary

Vcore 3.1 stepper decoupling and visual belts mod with shoulder bolts, and 5mm ball-bearing pin on which the pulley runs

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Tags: [mount](#) [stepper](#) [decoupler](#)

My Vcore 3.1 XY Motor Stepper Mount Mod

This mod offers several advantages:

1. Belts are now visible so you can check if they are running properly on the idlers
2. Shoulderbolts for perfect concentricity
3. The pulley runs on a 5mm shaft with ball bearings, so that no force pulls on the stepper shaft
4. Stepper dampers can be used without affecting print quality.

BOM (for each side)

2x 35mm M4 Shoulderscrew

2x M4 heatinsert

1x 5x55mm pin

1x flexible coupler (i prefer disk clutch from kis3d)

1x Nema17 damper

2x additional F695zz bearing

2x M3x10mm

2x M3x6mm

3x M3x8mm

2x 6mm Spacer

1x 1mm shim

2x M4 nut

STEP Files and STL Files are uploaded.

Based on: <https://github.com/FlorentBroise/BRS-Printers-Mod/blob/main/componentselection.md>

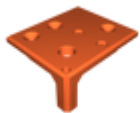
Model files



stepper_mount.step



stepper_holder.stl



stepper_bracket.stl

[Find source .stl files on Thingiverse.com](#)

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