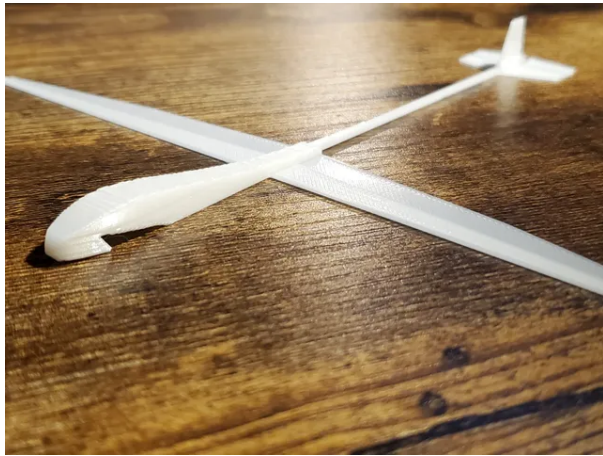




Stable glider V7a + Notch for rubber band launch (50m+ range)



JoeRixon

[VIEW IN BROWSER](#)

updated 27. 1. 2026 | published 27. 1. 2026

Summary

A glider that I hope to eventually have the qualities of: Best gliding 18^3mm, quickest to print. (Multiple iterations)



0.29 hrs



12 pcs



0.15 mm
0.20 mm



0.40 mm



PLA



2 g



Prusa MINI /
MINI+

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This glider will be:

- Furthest gliding
- Quickest to print
- Printable on **Prusa mini**
- Continually improved through **Iterative design**

Flight preparation:

- Bend wings upward (5 degrees is best I've found) (**Dihedral**)
- Bend rear elevators **UP** (points nose up)
- Hold it just **behind the wings**
- Throw **medium hard (or launch with rubber band)**

Check out another glider: <https://www.printables.com/model/478442-lockheed-martin-rq-3-darkstar-rubber-band-launchth>

V7a footage

V7a footage2

Some **footage** of the glider in slow-motion (15%)(V4)

Changelog:

V8: (coming soon)

- Thicker Kline-Fogleman airfoil allowing for possible joining of parts to make longer stiffer wings
- winglets

V7a-IS:

- Added input shaping BGCODE (Input shaping, 5% infill (lightning)).

V7a:

- Lightning infill (5%) GCODE
- Even bigger **notch** for **rubber band** launch
- **CFD** analysis soon

VBW:

- Added alternative 355mm wingspan model to glue together (will make a clip together version when I figure out how)

V6:

- Removed wing area from V5.
- Added a Kfm2 **aerofoil** to the wing (**stepped wing**)
- Enlarged wingspan by 5mm (still allows for skirt)
- Reduced wing thickness to 0.2mm
- Updated pictures to V6

V5(untested outside):

- Scaled the wing size up by 100% in the Y direction giving the glider a lower aspect ratio

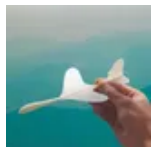
(Also try the MQ-9 reaper thrown-glider and my remix of the 'Stable flyer V' by **João Hackbart**)

Fuselage based on **João Hackbart's Stable flyer VI**

Footage of stupid things I've tried:

- **510mm long wingspan**

This remix is based on



Stable Flyer VI - Small Toy Glider

by João Hackbart

Model files



V7a NOTCH

4 files



stable-glider-v7a-notch.stl

	bigger-notch-v7a.stl
	bigger-notch-v7a.stl
	stable-glider-v7a-notch.stl

	Stable glider V6 (KlineFogleman aerofoil)	1 file
	stable-glider-v6-klinefogleman-aerofoil.stl	

	Stable glider V5 (UNTESTED OUTSIDE)	1 file
	stable-glider-v5.stl	

	Stable Glider V4 (OLD)	1 file
	stable-glider-v4.stl ☐ (Highest aspect-ratio wing)	



Silly attempts that DON'T WORK

2 files



ring-extention-glider.stl



stable-glider-ring.f3d

Print files



V7a NOTCH

2 files



bigger-notch-v7a_04n_015mm_pla_miniis_17m.bgcode

PLA 0.40 mm 0.15 mm 0.29 hrs 2 g

input shaping 5% infill (lighting)



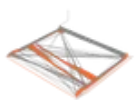
stable-glider-v7a.gcode

PLA 0.40 mm 0.20 mm 0.38 hrs 3 g Prusa MINI / MINI+



VBW (Big wing) Glue together 355mm wing

1 file



big-wing-glue.gcode

PLA 0.40 mm 0.20 mm 0.70 hrs 5 g Prusa MINI / MINI+



Stable glider V6 (KlineFogleman aerofoil)

2 files



stable-glider-v6-klinefogleman-aerofoil.gcode

PLA 0.40 mm 0.20 mm 0.37 hrs 3 g Prusa MINI / MINI+



stable-glider-v6-5-infill.gcode

PLA 0.40 mm 0.20 mm 0.37 hrs 3 g Prusa MINI / MINI+



Stable glider V5

3 files



stable-glider-v5-15.gcode

PLA 0.40 mm 0.20 mm 0.46 hrs 3 g Prusa MINI / MINI+



stable-glider-v5-10.gcode

PLA 0.40 mm 0.20 mm 0.45 hrs 3 g Prusa MINI / MINI+



stable-glider-v5-5.gcode

PLA 0.40 mm 0.20 mm 0.45 hrs 3 g Prusa MINI / MINI+



Stable glider V4 (Highest aspect-ratio wing) (OLD)

3 files



stable-glider-v4-15-infill.gcode

PLA 0.40 mm 0.20 mm 0.37 hrs 3 g Prusa MINI / MINI+

(Highest aspect-ratio wing)



stable-glider-v4-10-infill.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 0.37 hrs ⚖️ 3 g 🖨️ Prusa MINI / MINI+
📄 (Highest aspect-ratio wing)



stable-glider-v4-5-infill.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 0.37 hrs ⚖️ 3 g 🖨️ Prusa MINI / MINI+
📄 (Highest aspect-ratio wing)



Silly attempts that DON'T WORK

1 file



glider510mmwingnotwork.gcode

🌀 PLA 📏 0.40 mm 📐 0.20 mm ⌚ 0.67 hrs ⚖️ 5 g 🖨️ Prusa MINI / MINI+
📄 Glider with extendable wings to 510mm that cause it to flap and wiggle

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