Adjustable laptop, tablet, and document stand

 NLarson

VIEW IN BROWSER

Summary

This is a multi-purpose adjustable stand for laptop computers, tablets, and other items. The project came about when being forced to work from home in the Covid-19 pandemic.

Its configuration is very flexible, being tilt adjustable from -63 to +63 degrees from horizontal in 1 degree increments through a pair of pins that are inserted in a Vernier style set of holes.

The stand height sets the screen approximately at a users viewing height when seated in an office chair at an ordinary table or desk (~28"/~70CM in height). It intends to align the height close to a computer monitor.

The stand adjustability and accessories allow it to work with most laptop computers and tablets ranging from 7" to 16" in size. It has been tested on several Apple MacBooks and iPads, as well as Dell and Lenovo laptops, assorted tablets, Kindle Fire, etc. Older laptops with thicker chassis require the stop plate extensions to ensure they don't slide off.

It also works well as a document stand (print 2!). Included in the files are 2 document extenders, short and long, to ensure documents up to 14"/36cm long are supported.

Included are files to print snap in TPU bumpers which serve as anti-slip pads. These are 10mm in diameter and 3mm tall, very similar to pads available in local hardware stores, or on Amazon and E-Bay. Thin anti-slip sheets can also be used.

The uploaded files include instructions, images, ".stl" and ".3mf" files, as well as G Code for Mk3S and MK3S/MMU2S (Single) mode printing in PETG, and TPU for the bumpers.

🕐 39.91 hrs	⟨⟩ 7 pcs	▤ 0.20 mm	⬡ 0.40 mm	✳ 4 8	⚖ 385.00 g	▣ MK3/S

Household > Office

adjustablestand   adjustable   workfromhome   tabletstand

stand   documentstand   computerstand   computer

Adjustable Stand Parts and Assembly

Laptop computers up to 16", Tablets, books, papers and any other item benefiting from an adjustable tilt stand.

Parts List Item Description Qty

1. Base........................1
2. Tilt Bracket...........2
3. Plate........................1
4. Pivot Pin................2
5. Tilt Pin...................2
6. Anti Skid Pad*.....8

Anti skid pads can be printed from TPU. Alternatively, "10mm dia x 3mm thick bumpers" can be used (available on Amazon, search for the above text).

Note: All other parts in the models were printed in PETG. ABS or PLA should also work.

Assembly:

1. Print all the parts
2. Press the TPU skid pads in to the base or plate (or attach purchased bumpers).
3. Install the plate (item 3) into both tilt brackets (item 2).
4. Slip the tilt plate assembly over the base (item 1) and press 2 pivot pins(item 4) into the large center hole.
5. Adjust the tilt to the desired angle and insert 2 tilt pins to the best aligned holes in the base and tilt plate.

Print Files (.gcode)

72×72	**rubber-bump-pads_02mm_flex_mk3s_24**	677.5 KB	↓
	updated 23. 3. 2020		
	⏱ 0.41 hrs ≡ 0.20 mm ⎇ 0.40 mm ✵ Flex ⚖ 2.00 g ⊟ MK3/S		

72×72	**plate-stop-extension_02mm_pet_mk3s_4**	717.9 KB	↓
	updated 22. 3. 2020		
	⏱ 0.75 hrs ≡ 0.20 mm ⎇ 0.40 mm ✵ PET ⚖ 5.50 g ⊟ MK3/S		

72×72	**long_document_extender_02mm_pet_mk**	12.1 MB	↓
	updated 22. 3. 2020		
	⏱ 5.93 hrs ≡ 0.20 mm ⎇ 0.40 mm ✵ PET ⚖ 45.90 g ⊟ MK3/S		

72×72	**short_document_extender_02mm_pet_m**	10.1 MB	↓
	updated 22. 3. 2020		
	⏱ 4.70 hrs ≡ 0.20 mm ⎇ 0.40 mm ✵ PET ⚖ 37.80 g ⊟ MK3/S		

72×72	**laptop-plate_02mm_pet_mk3s_6h35m.gc**	19.6 MB	↓
	updated 22. 3. 2020		
	⏱ 6.58 hrs ≡ 0.20 mm ⎇ 0.40 mm ✵ PET ⚖ 89.10 g ⊟ MK3/S		

72×72	**laptop-stand_02mm_pet_mk3s_9h9m.gc**	26.5 MB	↓
	updated 22. 3. 2020		
	⏱ 9.15 hrs ≡ 0.20 mm ⎇ 0.40 mm ✵ PET ⚖ 96.40 g ⊟ MK3/S		

72×72	**tilt-base-and-pins_02mm_pet_mk3s_12h**	49.5 MB	↓
	updated 22. 3. 2020		
	⏱ 12.39 hrs ≡ 0.20 mm ⎇ 0.40 mm ✵ PET ⚖ 108.10 g ⊟ MK3/S		

Model Files (.stl, .3mf, .obj, .amf)

| 72×72 | **short_document_extender.3mf** | 60.7 KB | ↓ |
| | updated 22. 3. 2020 | | |

72×72	**long_document_extender.3mf** updated 22. 3. 2020	60.7 KB	↓
72×72	**rubber-bump-pads.3mf** updated 22. 3. 2020	75.6 KB	↓
72×72	**plate-stop-extension.3mf** updated 22. 3. 2020	208.0 KB	↓
72×72	**laptop-plate.3mf** updated 22. 3. 2020	1.5 MB	↓
72×72	**tilt-base-and-pins.3mf** updated 22. 3. 2020	5.8 MB	↓
72×72	**laptop-stand.3mf** updated 22. 3. 2020	6.6 MB	↓
72×72	**plate-extender-long.stl** updated 22. 3. 2020	145.2 KB	↓
72×72	**plate-extender.stl** updated 22. 3. 2020	145.2 KB	↓
72×72	**tilt-pin.stl** updated 22. 3. 2020	118.4 KB	↓

72×72	**plate-stop-extension.stl** updated 22. 3. 2020	901.6 KB	↓
72×72	**rubber-bump-pad.stl** updated 22. 3. 2020	359.8 KB	↓
72×72	**laptop-plate.stl** updated 22. 3. 2020	7.1 MB	↓
72×72	**tilt-base.stl** updated 22. 3. 2020	10.0 MB	↓
72×72	**pivot-pin.stl** updated 22. 3. 2020	13.5 MB	↓
72×72	**laptop-stand.stl** updated 22. 3. 2020	27.5 MB	↓

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