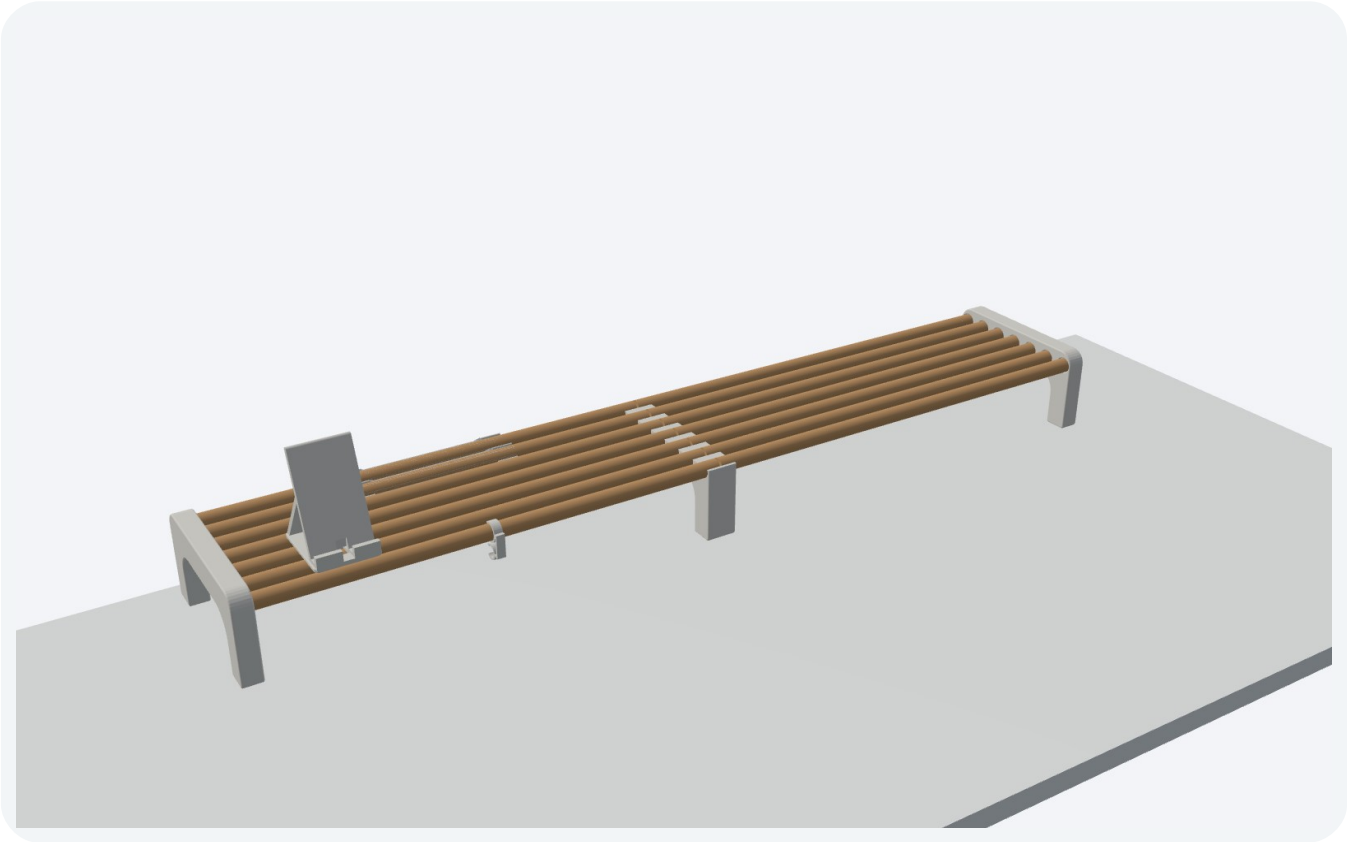
bestdesk

2 November 2026

Your shelf build plan

Arch in bone, 2 sections, 1 135 × 210 mm

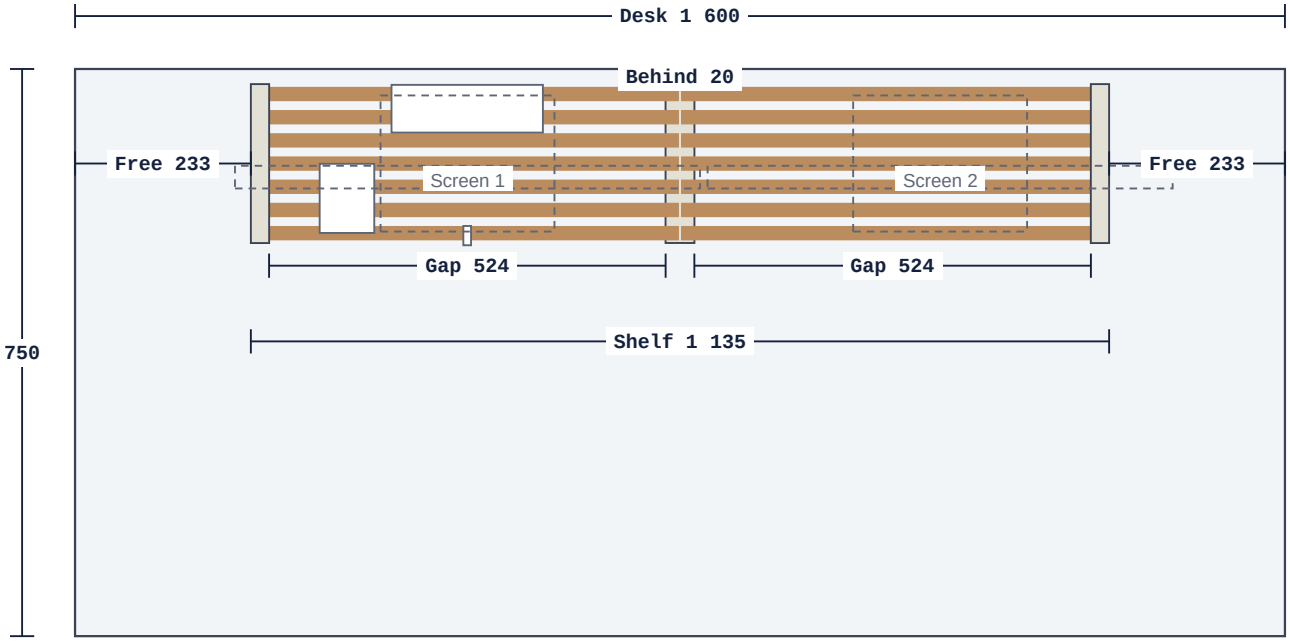


Parts to print	Printing	Filament	Dowels
7	**about 49 h**	**0,5 kg PETG**	**5 × 1 800 mm**

Everything in here matches the shelf you designed. Print the small test bar first to check your dowels fit, then work through the parts one page at a time.

From above, 1:10 when printed at actual size

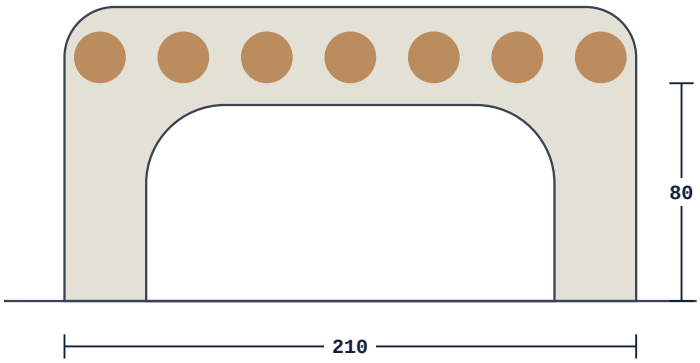
Your desk plan



- Where it goes: 233 mm in from the left edge of the desk, and 20 mm from the back edge.

All sizes in millimetres, the same ones the designer's Measure button shows.

From the side



- 1 135 × 210 mm overall, 2 sections.
- 80 mm under the dowels: room for a keyboard, a closed laptop or a soundbar.
- Section 1: 560 mm dowels, 524 mm between the frames.
- Section 2: 560 mm dowels, 524 mm between the frames.

What you'll need

To print

	QTY	PART	FILE	EACH	PAGE
☐	**1**	Test bar	`1x_test_bar.stl`	2,7 h, 29 g	**5**
☐	**2**	End frame (Arch)	`2x_end_arch.stl`	9,4 h, 103 g	**6**
☐	**1**	Straight join (Arch)	`1x_mid_arch.stl`	10,3 h, 113 g	**7**
☐	**1**	Cable tray	`1x_cable_tray.stl`	10,0 h, 110 g	**8**
☐	**1**	Phone stand	`1x_phone_stand.stl`	7,0 h, 76 g	**9**
☐	**1**	Cable clip	`1x_rail_clip.stl`	0,3 h, 3 g	**10**

To buy

- 5 × wooden dowels, 19 mm thick and 1 800 mm long
- 6 × felt pad
- Optional, instead of felt pads: rubber feet. Screw-on ones (search "cutting board feet") up to 20 mm across, with screws 3 to 4 mm thick and up to 16 mm long: they go into the small hole under each foot. Or stick-on rubber bumpers about 12 mm across.

Tools

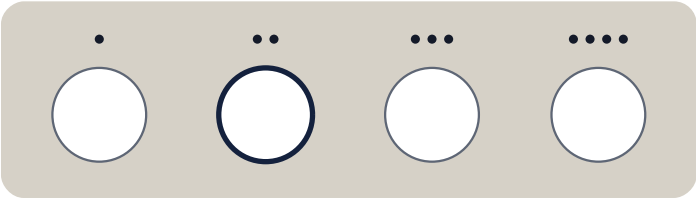
- A fine-toothed saw (a mitre box helps keep the cuts square)
- Sandpaper, around 120 grit
- Tape measure and pencil

Printer settings

MATERIAL	LAYERS	WALLS	TOP AND BOTTOM	INFILL
PETG	0,2 mm layers	4 walls	5 top, 5 bottom	20% gyroid

Go up to 25-30% infill on the frames, joins and corners if you want them heavier.

Print the test bar first



Same as the frames

It's the file called 1x_test_bar.stl, a small bar with four holes. Each hole has ridges inside that grip the dowel, a little tighter from one dot to four. The frames use the two-dot hole.

- Push a dowel into each hole. If it goes into the two-dot hole with a firm push and stays put, you're good to print the rest.
- If it won't go in, or it's so loose it falls out, hold off on the frames and let us know which hole fits best.

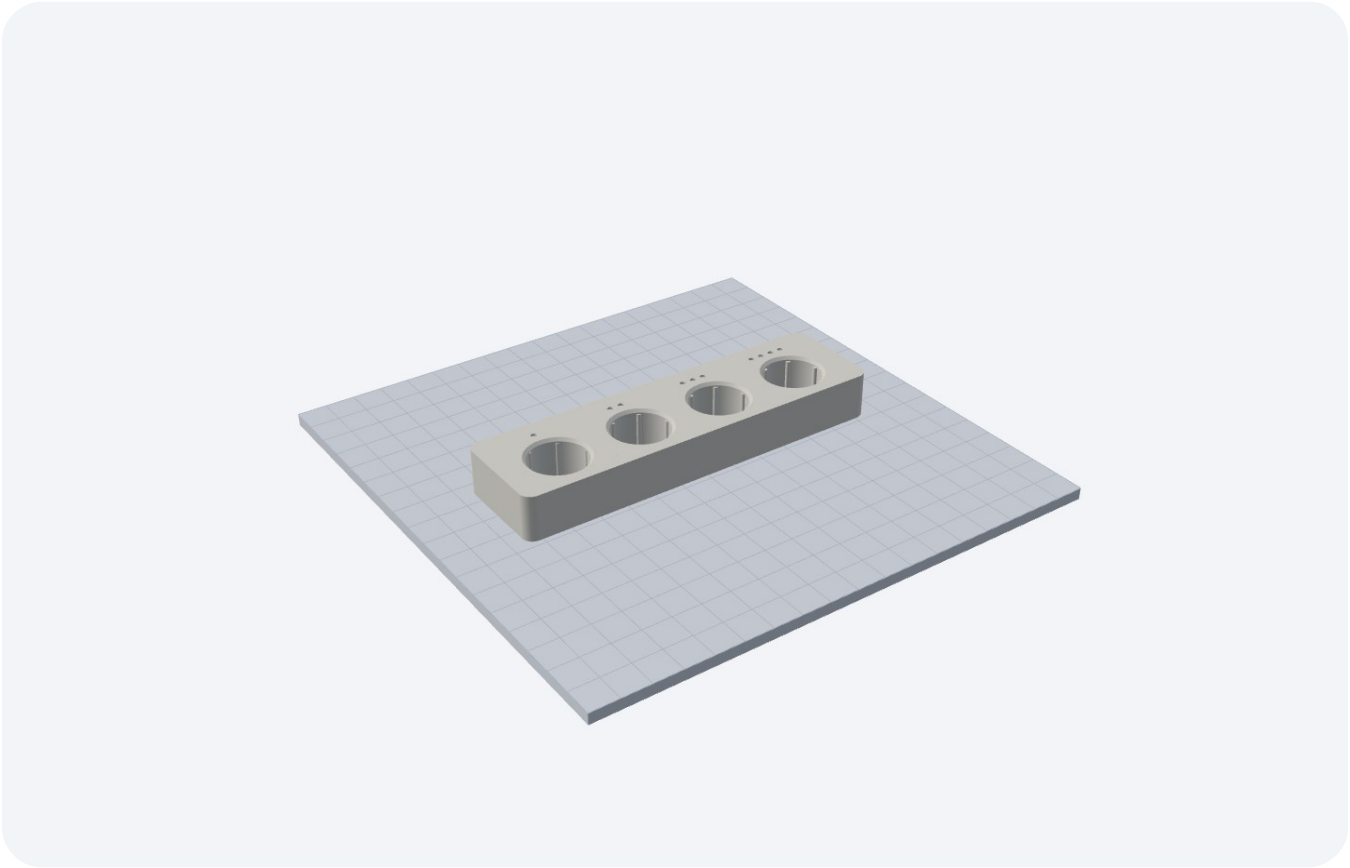
Good to know

- The files are already the right way up for the bed, so don't rotate them.
- The number at the start of each file name is how many to print: 2x_end_arch.stl means print two.
- Most parts don't need supports. Check each one in your slicer, and if something hangs in mid-air, turn supports on. Tree supports come off cleanest.
- Print the test bar first, then the end frames and joins, then the corners, then the rest.

Part 1 of 6

Test bar

`1x_test_bar.stl`



On the bed, 10 mm grid

Print	On the bed	Height	Time each	Filament each
1	**130 × 36 mm**	**16 mm**	**about 3 h**	**29 g**

- Print this before anything else, with the same filament and settings you'll use for the frames. The printer settings page explains how to test it.
- Fits a 220 × 220 mm bed.

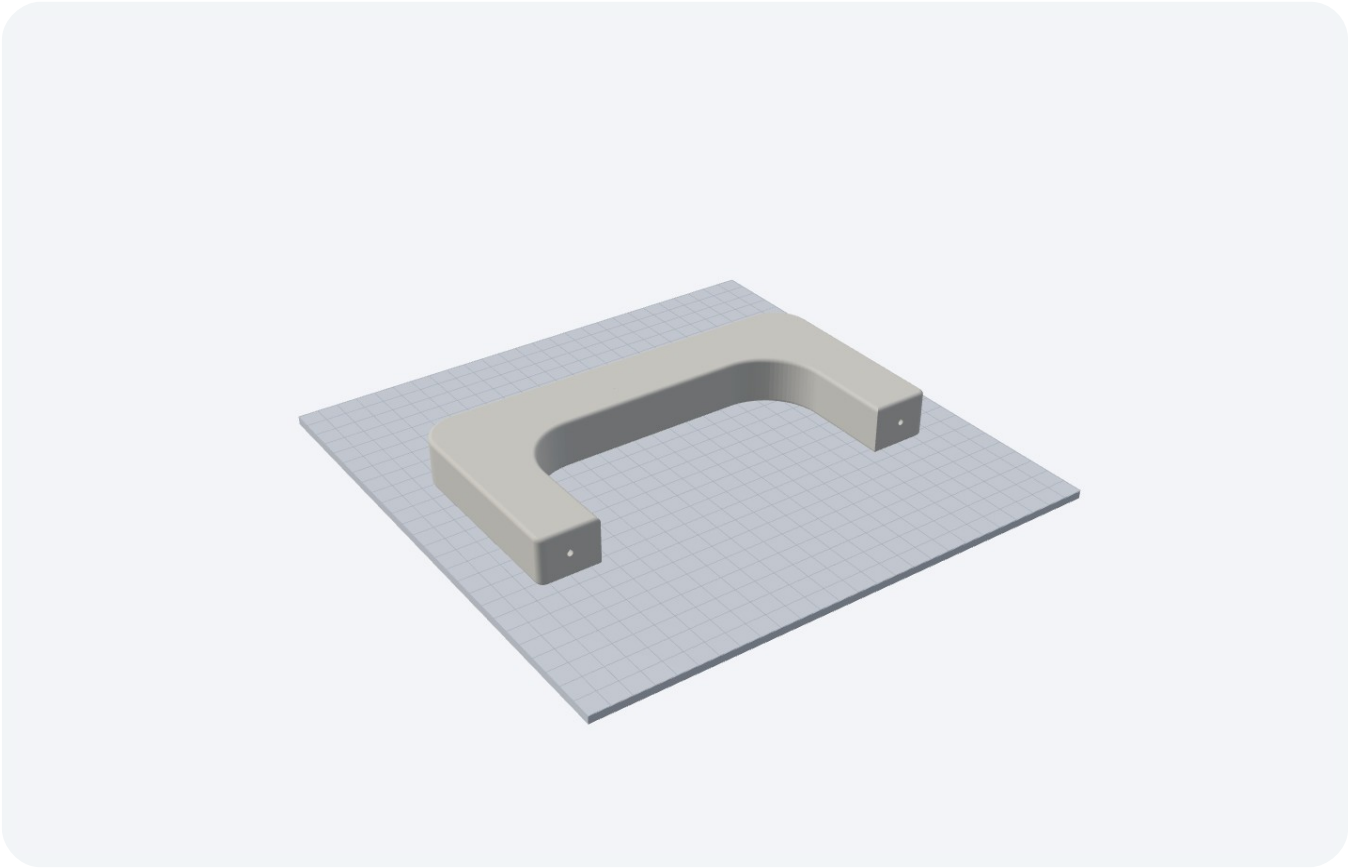
Printed ☐ 1

BESTDESK	PART	FILE	QTY	SHEET
Build plan	Test bar	1x_test_bar.stl	1	1/6

Part 2 of 6

End frame (Arch)

`2x_end_arch.stl`



On the bed, 10 mm grid

Print	On the bed	Height	Time each	Filament each
2	**210 × 108 mm**	**24 mm**	**about 9 h**	**103 g**

- This part holds the shelf up. Go up to 25-30% infill if you want it stiffer.
- Fits a 220 × 220 mm bed.

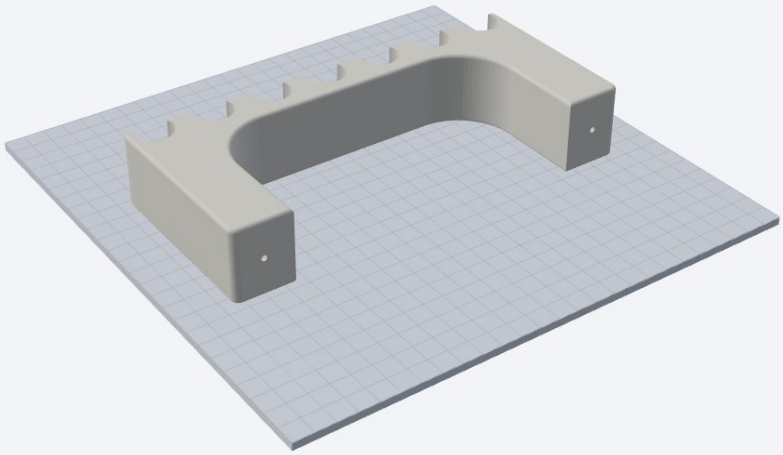
Printed ☐ 1 ☐ 2

BESTDESK	PART	FILE	QTY	SHEET
Build plan	End frame (Arch)	2x_end_arch.stl	2	2/6

Part 3 of 6

Straight join (Arch)

`1x_mid_arch.stl`



On the bed, 10 mm grid

Print	On the bed	Height	Time each	Filament each
1	**210 × 94 mm**	**38 mm**	**about 10 h**	**113 g**

- This part holds the shelf up. Go up to 25-30% infill if you want it stiffer.
- Fits a 220 × 220 mm bed.

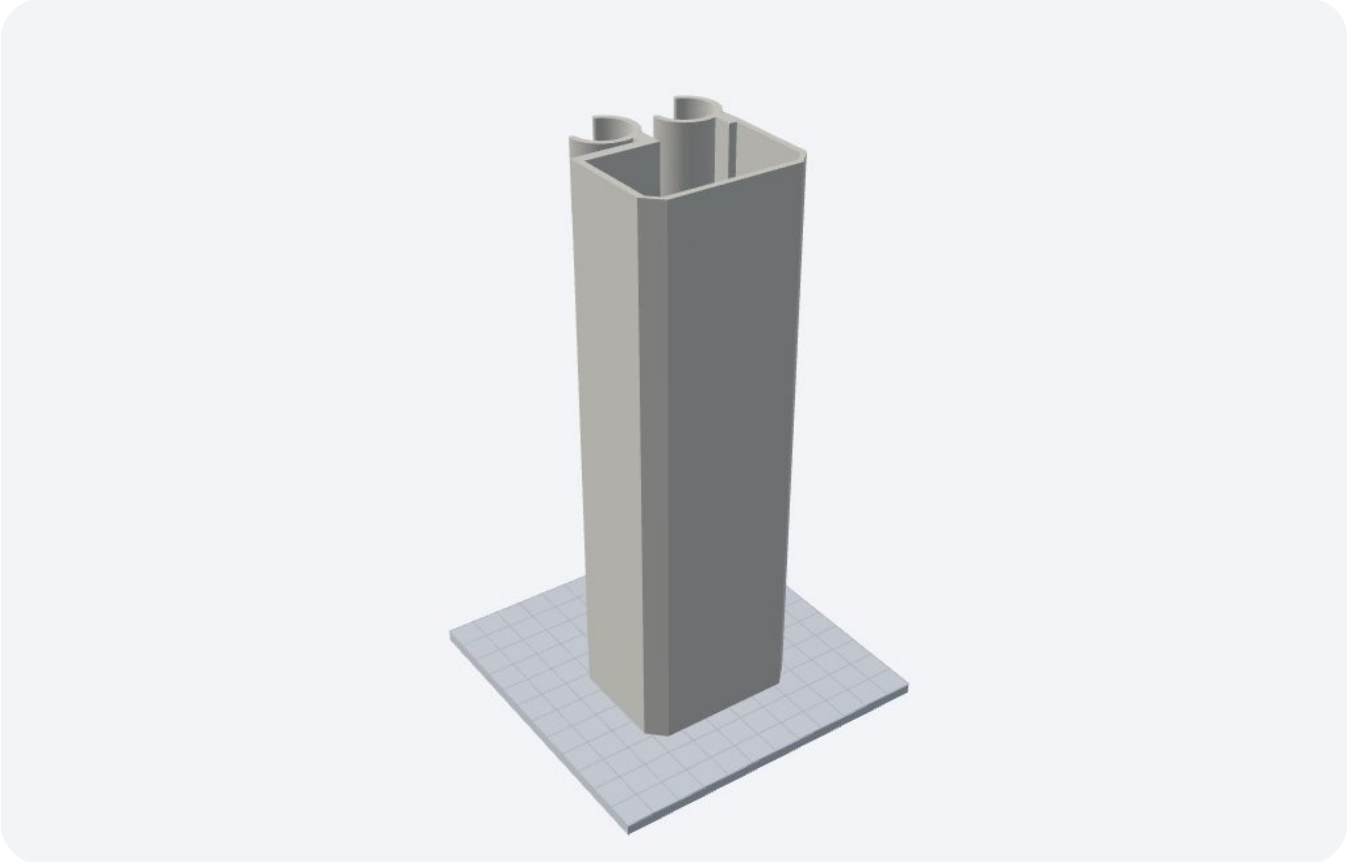
Printed ☐ 1

BESTDESK	PART	FILE	QTY	SHEET
Build plan	Straight join (Arch)	1x_mid_arch.stl	1	3/6

Part 4 of 6

Cable tray

`1x_cable_tray.stl`



On the bed, 10 mm grid

Print	On the bed	Height	Time each	Filament each
1	**63 × 67 mm**	**200 mm**	**about 10 h**	**110 g**

- Its clip needs to flex, so print it at 100% infill (or 6 walls).
- Fits a 220 × 220 mm bed.
- It's tall on a small base, so add a brim to stop it tipping over.

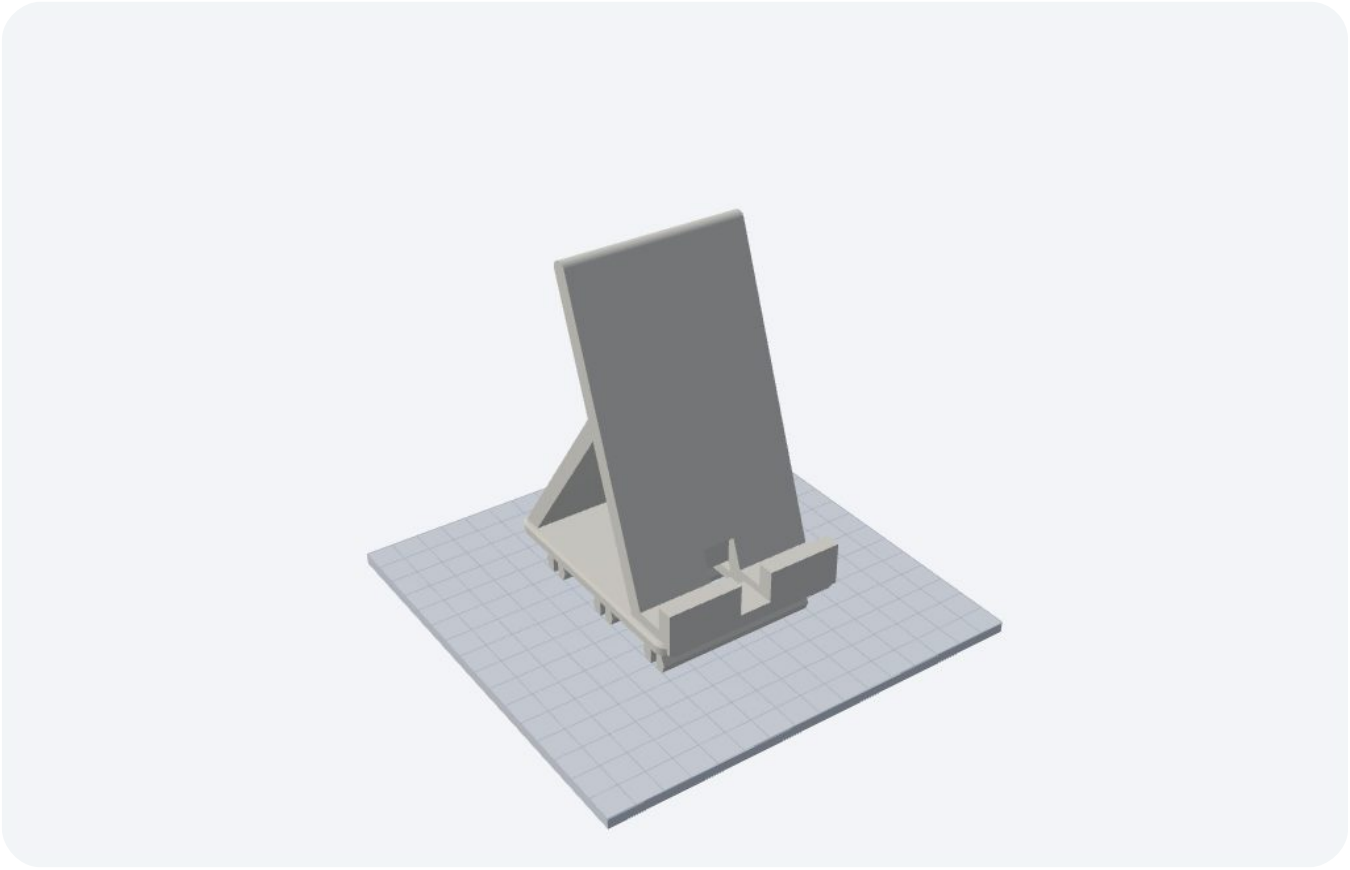
Printed ☐ 1

BESTDESK	PART	FILE	QTY	SHEET
Build plan	Cable tray	1x_cable_tray.stl	1	4/6

Part 5 of 6

Phone stand

`1x_phone_stand.stl`



On the bed, 10 mm grid

Print	On the bed	Height	Time each	Filament each
1	**72 × 91 mm**	**132 mm**	**about 7 h**	**76 g**

- Fits a 220 × 220 mm bed.

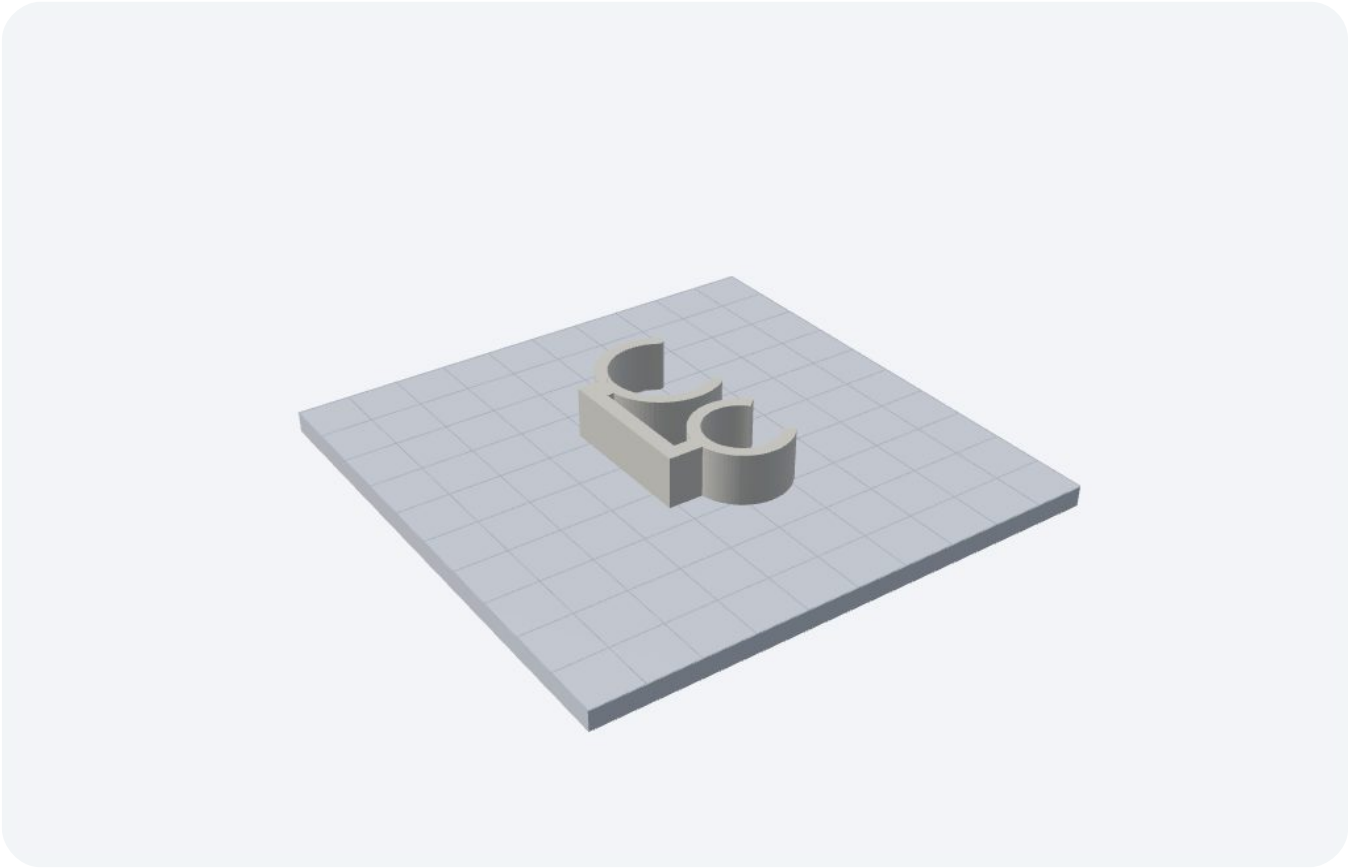
Printed ☐ 1

BESTDESK	PART	FILE	QTY	SHEET
Build plan	Phone stand	1x_phone_stand.stl	1	5/6

Part 6 of 6

Cable clip

`1x_rail_clip.stl`



On the bed, 10 mm grid

Print	On the bed	Height	Time each	Filament each
1	**23 × 46 mm**	**10 mm**	**about 20 min**	**3 g**

- Its clip needs to flex, so print it at 100% infill (or 6 walls).
- Fits a 220 × 220 mm bed.
- Not much of it touches the bed. Add a brim and take the first layer slowly.

Printed ☐ 1

BESTDESK	PART	FILE	QTY	SHEET
Build plan	Cable clip	1x_rail_clip.stl	1	6/6

Cutting the dowels

You need 5 dowels, 19 mm thick and 1 800 mm long. Each bar below is one dowel, drawn to scale. Cut from the left and leave about 3 mm for each saw cut. The grey bit is offcut. Each piece has a letter: label it as you cut it (there's a sheet of labels after this), because the steps call the pieces by their letters.

Dowel 1 ☐



Dowel 2 ☐



Dowel 3 ☐



Dowel 4 ☐



Dowel 5 ☐



The pieces

- A · 14 × 560 mm (section 1 dowels, section 2 dowels)

- Sand the ends and knock the sharp edge off so the dowels slide into the frames easily.

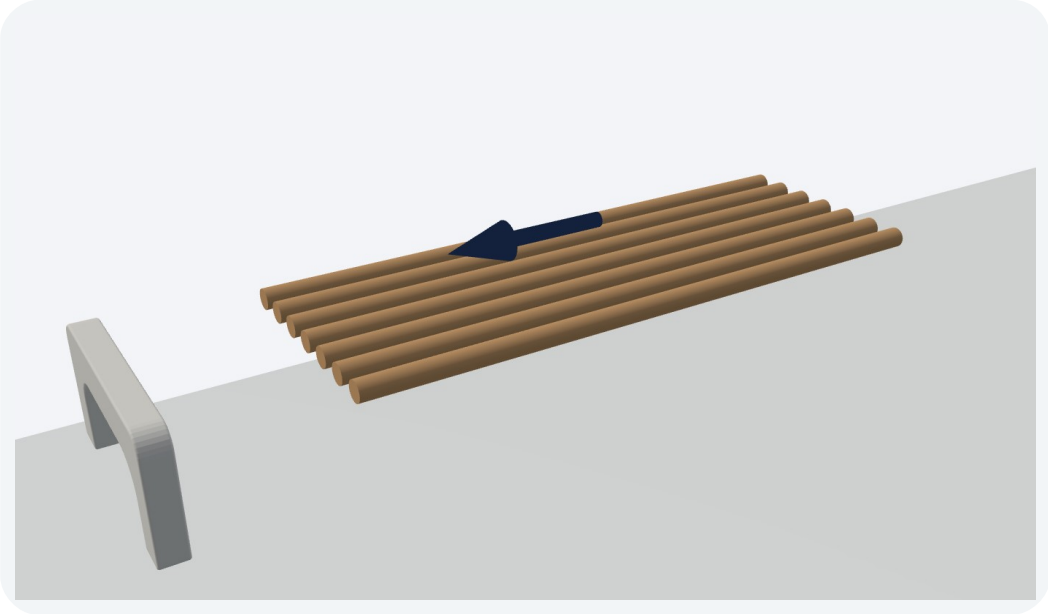
Labels for the dowels

Cut these out and tape one round each piece as you cut it. The steps use the letters.

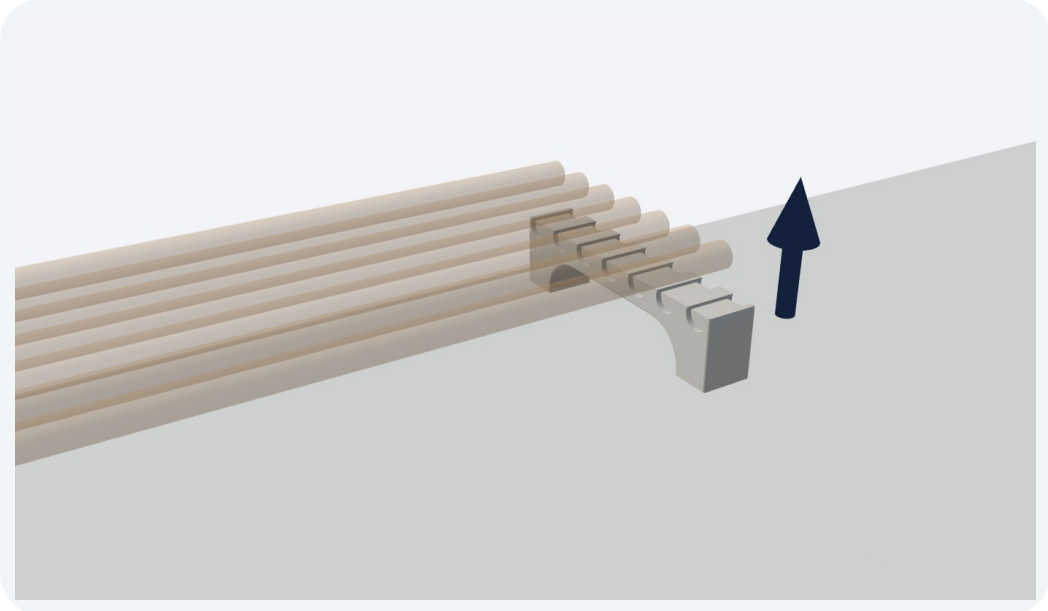
A 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2
A 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2
A 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2
A 560 mm Sections 1, 2	**A** 560 mm Sections 1, 2		

Putting it together

1. Press the 7 A pieces (560 mm) into the left end frame until they stop.

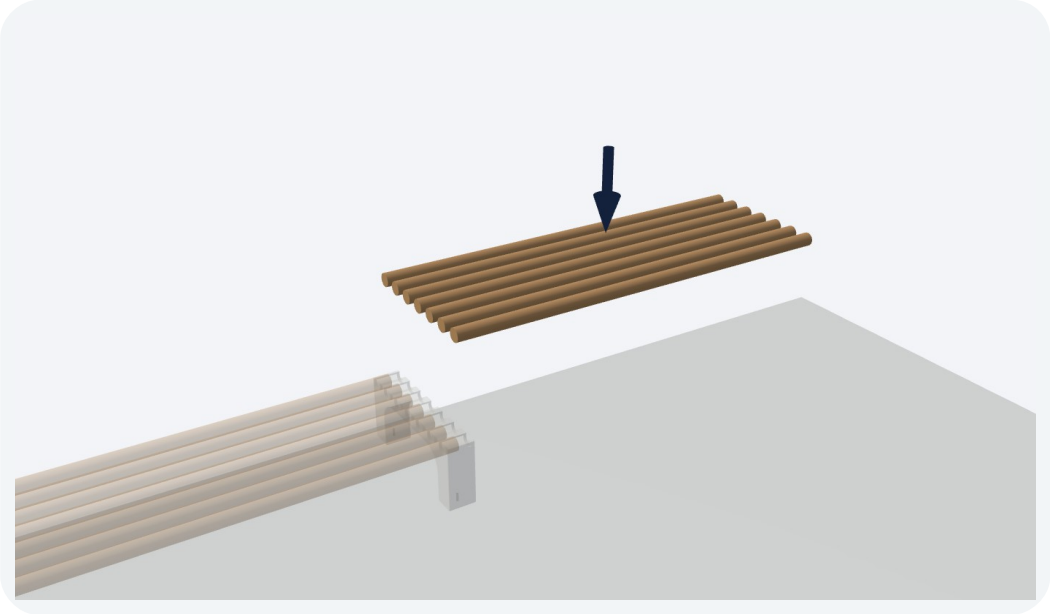


2. Stand the straight join under the ends of the dowels and press them down into it.

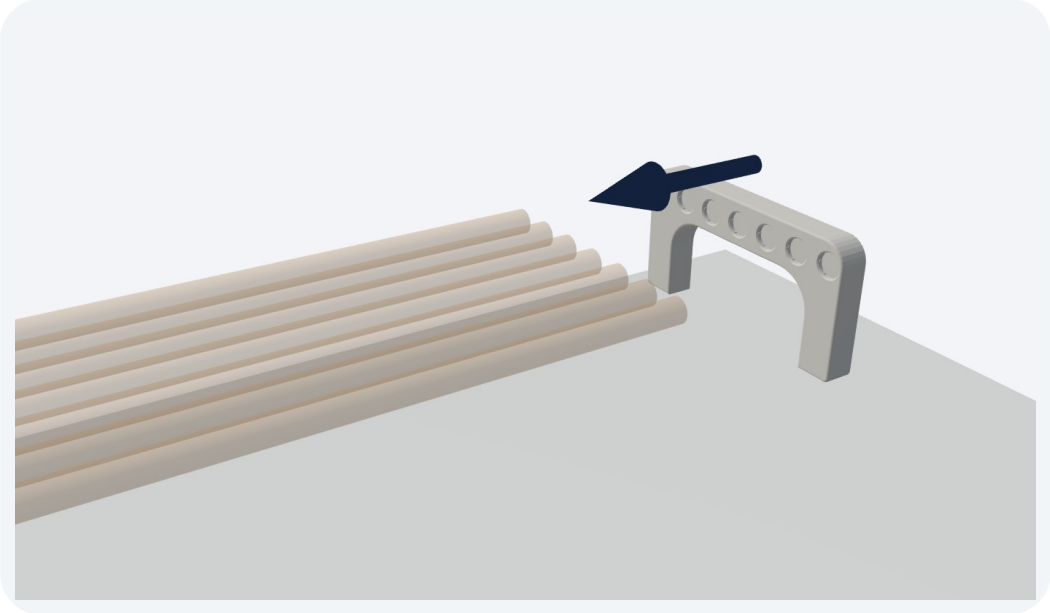


Putting it together (continued)

3 Lay the 7 A pieces (560 mm) in the straight join and press them down until they click in.

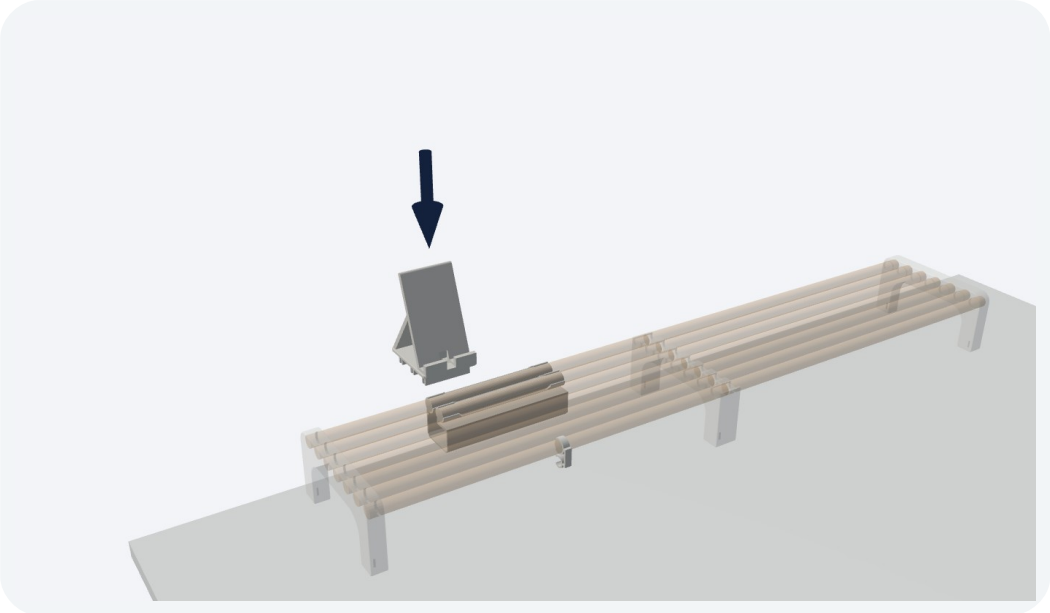


4 Push the right end frame onto the ends of the dowels.

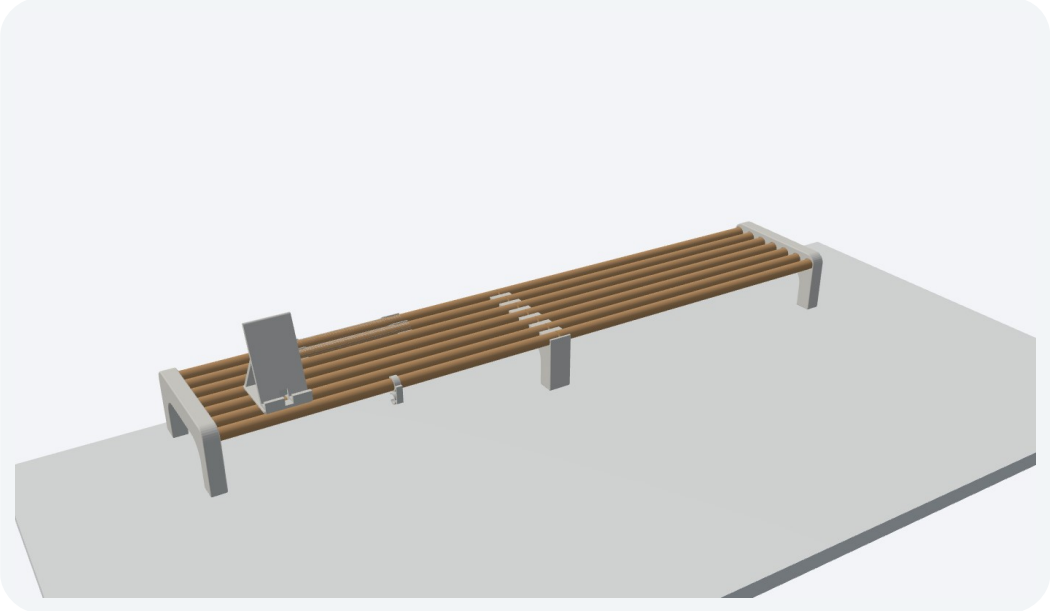


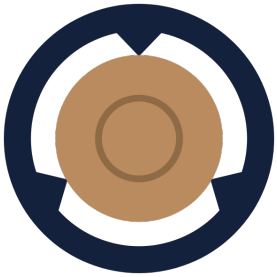
Putting it together (continued)

5 Add the extras: the cable tray on section 1, the cable clip on section 1 and the phone stand on section 1. Push each cable clip onto the front dowel from the front until it clicks. Lay the power strip in the tray, then push the tray up and forward onto the back two dowels from underneath, one end and then the other, until each end clicks.



6 Stick a felt pad under every foot of the frames, joins and corners (or screw a rubber foot into the small hole there, or stick on a rubber bumper), and under anything else that stands on the desk: 6 pads in all.





bestdesk

That's your shelf.

These files are for your own shelves. Print them as often as you need and change them for yourself, but please don't sell, share or upload the files, or sell prints made from them.