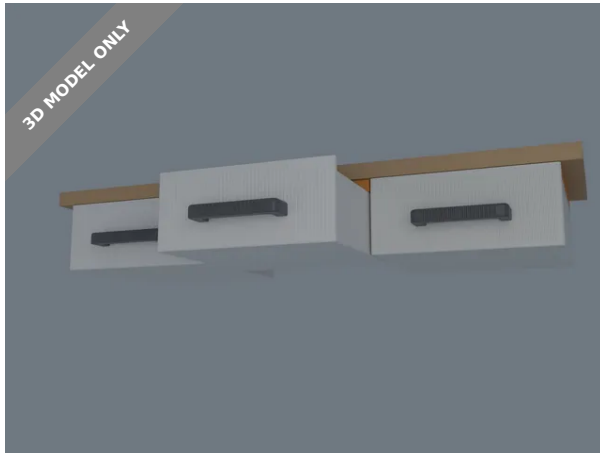




Modular 200x200 mm under-shelf drawer - dovetail slides, no supports



Petr Cimerá

[VIEW IN BROWSER](#)

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Summary

Under-shelf drawer on printed dovetail rails. Fits side by side, handle, dividers, bins. No supports. Prototype.

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[dovetail](#) [nosupports](#) [suplik](#) [bambulab](#)

PROTOTYPE - NOT PRINTED YET. The model was checked in CAD (no overlapping parts, watertight meshes, overhangs max 45 deg), but no physical print or fit test has been done. Please print the clearance test pieces first (0.3 / 0.4 / 0.5 mm) before the big parts. Strength and magnet hold are estimates only.

A drawer that hangs under a shelf on printed dovetail rails. Drawers can sit side by side at a 202 mm pitch (2 mm gap), the front panel reaches almost to the shelf (no gap above), and the inside is fully modular. Everything prints without supports, designed for the Bambu Lab P2S (256 x 256 mm bed).

FEATURES

- Drawer body 200 x 200 x 70 mm (front 200 x 84.7 mm), travel 107.5 mm
- Whole slide system is inside the drawer width, rails screwed to the shelf with 4x M4 screws per drawer
- Stops locked with a 1.75 mm filament pin, closed position held by small hidden magnets (optional)
- Rounded fluted handle (prints flat) and matching fluting on the front
- Modular interior: divider slots (7 transverse x 5 longitudinal positions, dividers interlock) AND 15 drop-in bin variants on a 4 x 4 grid (plain, low, finger cut-out, sloped, divided)
- Mounting jig for the rails and clearance test pieces included
- STEP files (solid bodies) for Fusion and parametric sources (Blender script + CadQuery) included

SHELF REQUIREMENTS: depth min. 205 mm, thickness min. 15 mm, width N x 202 mm.

WHAT TO PRINT (per drawer): supl.stl x1, lista_P.stl + lista_L.stl (mirrored) x1 each, zarazka_2x.stl x2, madlo_1x.stl x1, sablona_listy.stl x1 (one for all drawers), test_vule_* + test_klic (clearance test), optional dividers and bins. 3MF: supl_sada.3mf (2 plates), supl_prihradky.3mf (starter bin set).

PRINT SETTINGS (starting point): PETG or PLA, 0.4 mm nozzle, 0.2 mm layers, NO supports. Drawer: 6 wall loops, 5 top/bottom layers, 10-15 % infill, 5 mm brim. Rails and stops are already oriented mounting-face-down.

HARDWARE per drawer: 4x M4x16 countersunk screws (rails), 2x M4x16 (handle), 4x 5x2 mm neodymium magnets (optional), 2x 1.75 mm filament pins 20 mm long.

Full assembly guide: see the PDF files (English: assembly_guide_EN.pdf, Czech: navod_sestaveni_CS.pdf).

HONEST NOTES: single-stage slide - meant for light loads (tools, small parts, roughly up to 2-3 kg by estimate). The 2.4 mm floor is flexible under heavy loads. Magnets hold only gently. Designed with the help of AI (Claude) and CAD checks.

ČESKY ---

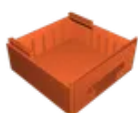
PROTOTYP, ZATÍM NEVYTIŠTĚNÝ. Model je zkontrolovaný v CAD (žádné překryvy, uzavřené plochy, převisy max. 45°), ale fyzický tisk a zkouška vůle ještě neproběhly. Nejdřív vytiskněte zkušební kousky vůle (0,3 / 0,4 / 0,5 mm). Pevnost a síla magnetů jsou jen odhad.

Šuplík pod policí na tištěných rybinových lištách. Šuplíky lze řadit těsně vedle sebe (rozteč 202 mm), čelo sahá skoro k polici a vnitřek je plně modulární (přepážky i vložné přihrádky). Vše se tiskne bez podpor, navrženo pro Bambu Lab P2S.

Rozměry: tělo 200 × 200 × 70 mm (čelo 84,7 mm), výsuv 107,5 mm.
Police: hloubka min. 205 mm, tloušťka min. 15 mm. Tisk: PETG/PLA, vrstva 0,2 mm, bez podpor, stěny šuplíku 6 průchodů. Na šuplík: 4× M4×16 (lišty), 2× M4×16 (madlo), 4 magnety 5×2 mm (volitelné), 2 kolíky z filamentu 1,75 mm.

Podrobný návod na sestavení je v PDF (česky: [navod_sestaveni_CS.pdf](#), anglicky: [assembly_guide_EN.pdf](#)). Soubory STEP pro Fusion a zdrojové skripty jsou v souborech modelu.

Model files



supl.stl



zarazka_2x.stl



lista_1.stl



madlo_1x.stl



sablona_listy.stl



test_vule_030.stl



krabicka_2x1.stl



sikma_2x1.stl



vyrez_2x1.stl



delena_1x1.stl



nizka_2x1.stl



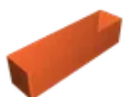
delena_2x2.stl



vyrez_1x1.stl



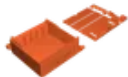
predelka_prycna.stl



krabicka_4x1.stl



predelka_podelna.stl



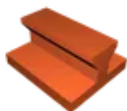
supl_sada.3mf



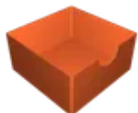
supl_prihradky.3mf



lista_p.stl



test_klic.stl



vyrez_2x2.stl



krabicka_1x1.stl



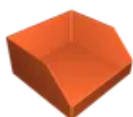
krabicka_2x2.stl



nizka_4x1.stl



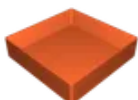
test_vule_040.stl



sikma_2x2.stl



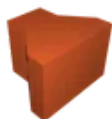
delena_2x1.stl



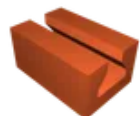
nizka_2x2.stl



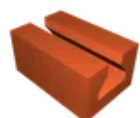
test_vule_050.stl



zarazka.step



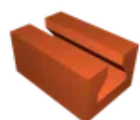
test_vule_040.step



test_vule_030.step



lista_l.step



test_vule_050.step



sablona_listy.step



predelka_prycna.step



krabicka_2x2.step



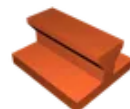
predelka_podelna.step



krabicka_4x1.step



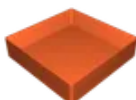
krabicka_1x1.step



test_klic.step



nizka_2x1.step



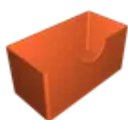
nizka_2x2.step



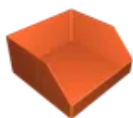
vyrez_1x1.step



sikma_2x1.step



vyrez_2x1.step



sikma_2x2.step



krabicka_2x1.step



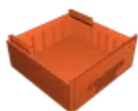
delena_1x1.step



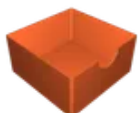
nizka_4x1.step



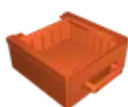
delena_2x1.step



supl.step



vyrez_2x2.step



supl_sestava.step



delena_2x2.step



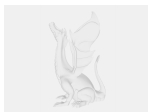
madlo.step



lista_p.step



build_supl.py



supl_police.blend

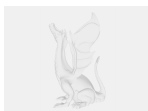


make_3mf.py

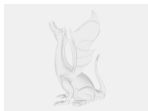


supl_cq.py

Other files



assembly_guide_en.pdf



navod_sestaveni_cs.pdf

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