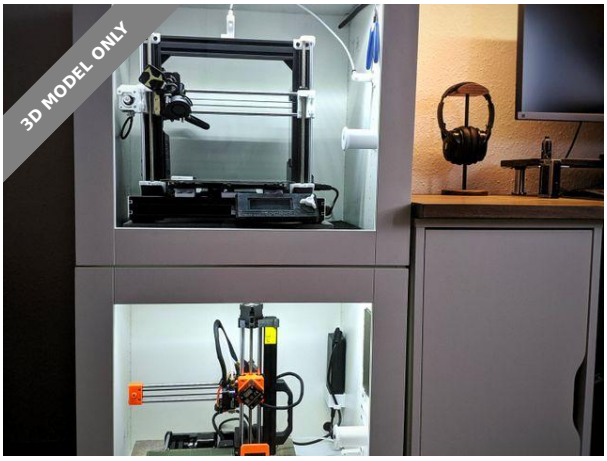


Ikea Platsa Modular Dual Prusa Enclosure (MINI/ MK3s/Bear)

padigree

VIEW IN BROWSER

updated 9. 1. 2021 | published 8. 1. 2021

Summary

Second Attempt with some Changes now. ! !Work is still in progress.

3D Printers > 3D Printers - Upgrades

Tags: prusa ikea mini original modular enclosure mk3s bear easy platsa

Second Attempt with some Changes now.

!!Work is still in progress. Materials list and files are not complete at the moment!!

waiting for my second anti vibration mat and a new (smaller) stone for the Mini.

All work will be continued here for now. Rebuilt the thing, edited some parts, Additionally I added the Prusa Mini and Swapped my MK3s to Bear System. Some parts will be added in future.

If you need additional info, ask in the comments section, so everybody can read it :) Feel free to ask, remix, print, edit and say thanks.

After my IKEA Lack table was a bit too unstable for me and would've optically no longer fit well into my new apartment, I decided to build another (strong) housing for my printers. In the print files you can find some Remixes or Self creations of 3d printed parts used to make this enclosure.
This enclosure is modular, because you can stack them over each other or place and connect another next to each other. Like a big Kallax system out of Platsas :D

Bill Of Material:

IKEA things:

2x/4x HJÄLPA hinges: 603.312.00 [Only these if you don't want softclose]
2x/4x BESTÅ hinges : 802.612.58 [if you like softclose + need aditional HJÄLPA Hinges]
1x/2x VÄRD 60x60cm doors: 603.473.19
1x/2x Platsa body 60x55x60 cm: 103.309.72

Local Store things:

1-2x Anti vibration dampening mat (60x60cm thickness between 0,6 and 2cm)
Stone 40x40x3cm (or a smaller variant for the mini - 30x30x2)
Some Wood screws (4,5x16) or similar
Double sided Tape for some tool holders
Some PC4M6 or M10 Connectors (PTFE Couplers)
Some M3 push-in Threads or hex nuts
PTFE Tube for reverse Bowden systems
Some wires for Lighting
Leds for Lighting (and the profile)
Maybe a Switch
Power Strip
Drill / Hole-saw (32mm for Power inlet/s)

Things:

Universal:

Platsa_Spool_Holder_short_69mmSpool (Shortened Spool holder for 800g / 1000g Spools ; You'll also need 1x Platsa_SpoolHolder_Cap)

Platsa_SpoolHolder (his bigger brother - used it 8 months without problems, now after the bear conversion it seems to be a bit to big. You'll also need 1x Platsa_SpoolHolder_Cap. Thanks to dermartin https://www.thingiverse.com/dermatin)

Platsa_Lamp_wo_switch_L&R (20x8mm LED profile Lamp mount without switch. If you want a built in switch, there is a switch version for the right side)

Platsa_Lamp_w_switch_right_final (Lamp holder with switch right side)

Platsa_Adapterplatte_m3insert/hex_final (Thing to use the push to open mechanism included in the Besta Hinges)

Platsa_Inlet_PowerSupply_32mm (32mm Inlet to feed the Powerline into the enclosure)

Platsa_Pliers_Pinmount (simple push in mount for pliers on ikea systems ; will add a second version of these)

PTFE_Feeder_Platsa_M6/M10_45_Deg (simple reverse Bowden mount for the right side, M6 and M10. Thanks to dermartin https://www.thingiverse.com/dermatin)

Platsa_RaspberryCase_Pinmount (if you'll use the mount for Pi3; https://www.thingiverse.com/thing:3346880. I'm not using it anymore, I've created my own 2020 profile mount for the bear frame.)

Platsa_Pliers_Screwmount_extended_V2 (latest version of the pliers mount - not on the pictures atm)

ZipTieSocket (to attach the wires for lighting on the top. simply put it on 19mm double sided tape - not on the pictures atm)

Mostly Mini Specific:

1x Mini_PTFE_Feeder_Platsa_M6_straight (chose which one you want to use. There is a M6 and M10 version, also some which are easier to print.)

Mini_Usb_Tool_Mount_Taped (Mount for USB, Hex Keys, Stock Bowden, .. to tape on the wall with dual sided tape. Clip version will be added in future.)

Platsa_Mini_Sheet_Mount_V2 (Screw on dual Sheet holder for Textured&Pei Sheet on the right side)

Platsa_Mini_SH_Mount_V2 (Spool holder holder :D Simple hook to mount the spool holder which came with the Mini, so you can take it out easy)

Platsa_Mini_PSU_mount_right (PSU mount on the rear right side of the enclosure)

Mostly MK3S / Bear Specific things:

MK3S_TopBowden_PlatsaEnclosure (M6 reverse Bowden top mount for Stock Prusa frame; if you need it, I'll add a M10 version of this)

Bear_Filament (M6 reverse Bowden top mount for 2020 extrusions / bear frame; if you need it, I'll add a M10 version of this)

Changelog:

08/01/21 initial release
08/01/21 added Pliers mount
09/01/21 added ZipTieSocket

Model files

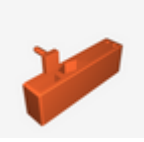
platsa_inlet_powersupply_32mm.stl

platsa_lamp_wo_switch_lr.stl

platsa_raspberrycase_pinmount.stl

platsa_pliers_pinmount.stl

platsa_mini_sheet_mount_v2.stl



platsa_usb_tool_dualsd_pinmount.stl

platsa_mini_sh_mount_v2.stl

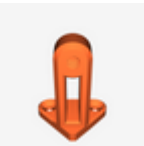
platsa_mini_psu_mount_right.stl

mini_ptfe_feeder_platsa_m6_straight_easy.stl

platsa_lamp_w_switch_right_final.stl

platsa_usb_pinmount_single.stl

platsa_spool_holder_short_69mmspool.stl



mini_ptfe_feeder_platsa_m6_straight.stl

mini_ptfe_feeder_platsa_m10_straight_easy.stl

mk3s_topbowden_platsaenclosure.stl

mini_ptfe_feeder_platsa_m10_straight.stl

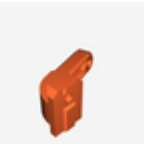
mk3_tool_sd_usb_hex_taped.stl

platsa_spoolholder_cap.stl

mini_usb_tool_mount_taped.stl

platsa_adapterplatte_m3insert_final.stl

platsa_adapterplatte_m4hex_final.stl

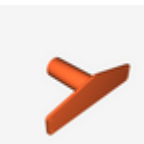


bear_filament.stl

ptfe_feeder_platsa_m10_45_deg.stl

ptfe_feeder_platsa_m6_45_deg.stl

platsa_bowden_m6_right.stl



platsa_spoolholder.stl

ziptiesocket.stl

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