



Horizontal Mount for MMU3 fits the Original Prusa Enclosure



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Summary

Two options for mounting the MMU3 Horizontally. Works with the MK4 Nextruder

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Horizontal mounts for MMU3, fits in an enclosure. Updated 05/10/2024

This is for those that have the preference to have the MMU3 mounted horizontally.

This aligns the MMU3 horizontal on the printer and fits in an Enclosure. Helps keep the 5 feeder PTFE tubes up out of the print area. The MMU3 is higher to prevent binding of the PTFE tube to the hotend or Nextruder.

The 2nd version of the mount offsets the MMU3 30mm to the rear. Allowing more working room for the PTFE tube when the Z axis is near max limits. One picture shows the 30mm offset mount and Nextruder at max Z.

The approximate 26mm clearance is what I consider to be the minimum to keep from binding the Super-Finda cable.T

This will work with an MMU3, MMU2, MK3 series and MK4 sitting on the stock pads on the floor of the enclosure.

Older versions of the MMU2 and prior mounts will not work with the MK3.9/ MK4. There is less clearance with the Nextruder for the lower feet. The feet overhang on the front of the frame must be shallower also.

Considerations

This is for use with the electronics board mounted on top, the normal way. The mount to support the underslung circuit board has been removed. Prusa's notes on electronic interference warn against altering the electronic board mount.

One stl file is used for right and left. These mounts are 15mm taller than stock mounts.

These are designed to use 2- 3mm x 6 screws to hold the label plate.

A longer hex wrench is recommended for easy assembly.

The stock length PDFE tube from the MMU3 to the hotend works well.

I strongly recommend a lid on the enclosure with an MMU unit.

The 30MM offset adds some stress to the frame of the printer which might effect vibration at times. I use the offset mount and don't see a problem.

Measurements

My printer is located in the Original Prusa enclosure. My Enclosure lid is 529/530mm from the floor. The depth of the enclosure is approximately 580mm.

When the MK4 Y axis is at max travel to the front, the tabs of the heatbed are 22mm from the edge of the enclosure or doors. The top of the printer vertical frame measures 380mm from the floor of the enclosure. Stock feet on the printer.

The top of the MMU3 on the horizontal mount is 502mm from the floor. Original Prusa enclosure lid is 27mm above the MMU, allowing room for the SuperFinda cable.

The back of the MMU3 is 118mm from the back of the vertical printer frame.

With the 30mm offset mount the back of the MMU3 is 148mm from the back of the vertical frame.

At least 120mm clearance to the back of the enclosure when using the 30mm offset mount. At least 25mm clearance to the filter option in my setup.

Printing

0.2mm layers, PETG. 15% infill. Printed on the side.

4- 3mm x 12 screws.

This remix is based on



MMU3 printable parts

by Prusa Research

Model files



mmu3-horiz-mount-enclosure-offset30mm.stl



mmu3-horiz-mount-enclosure-v31.stl

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