



Prusa Tool Box - CORE ONE - MK4S - MK4 - XL - MK3.9 - MK3.5 - MK3 - Mini+ - Mini



3DesignsCH

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Summary

A variation of Prusa Tool Boxes - a remix of the Rugged Box of Whity

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V2 for Prusa CORE ONE, XL and MK4S now available!

This is a remix of the Rugged Box from Whity with six different Prusa versions

Changelog for V2 - available for Core ONE, Prusa XL and MK4S

- Updated size of the box
- Updated all tool holders - spring loaded now and replaceable if worn out
- Increased from two to three layers for the logo to prevent color bleeding
- Added holder for the Torx screwdriver
- Holder for Allen Keys can be taken out of the box as a set
- **Easy multicolor print without MMU** - print profile for Core ONE included - manual filament swap. Acknowledge the wrong Filament notification with OK when the print starts.
 - Swap order: black, white, orange, black, white, black, orange, black
 - Cut the tips of the unloaded filament if it looks ugly



Prusa Logo Version & Tools for:

Tools Version - all delivered tools and spare parts fit in it, including six Nextruder Nozzles (based on MK4 delivery)

- Prusa CORE ONE
- Prusa XL
- Prusa MK4S
- Prusa MK4
- Prusa MK3.9
- Prusa MK3.5
- Prusa MK3S
- Prusa MINI+

- Prusa MINI

Prusa Logo only version for:

- Prusa MK4
- Prusa XL
- Prusa MINI
- Prusa MK3S
- Prusa Research
- Printables

You can mix the Boxes and the Lids of the different versions. Use a logo-only version and use the tools box version. Or use the tools lid version with the normal box.

You can print this with a single extruder with manual filament changes, or MMU (or Bambu AMS).

I included a Prusa Slicer Project file for the MK4 with InputShaper with manual filament change. You can easily adapt this to any other printer.

Colour change order for manual swaps of the Prusa_Prusa MK4 Tools Box Lid.3mf:

1. Background first (Black)
2. Prusa (White)
3. Original (grey)
4. MK4(S) (Orange).

Then it repeats for the second layer in the same order, but you don't need to do orange since it will do that first on the second layer.

5. Background (Black)
6. Prusa (White)
7. Original (Grey)
8. Rest of the lid (Black)

You can also check the colour order in the slicer preview.

My STLs/3MF box measures:

- Box size: 105x165mm
- Screws: 6x M3x30mm

Recommended print settings:

- 2 Perimeters/Walls
- 5 Bottom/Top layers
- 15% infill

- 0.2mm layer height (this crucial for the Tools version, otherwise the tolerances aren't correct)
- Wall generator: Arachne

Multi-Colour instructions with manual filament change:

- Use my .3mf file for the Prusa MK4 with InputShaper

OR

1. Set the printer up: ([Source](#))
 1. In "Printer Settings"-->"General":
 - Set "Extruders" to the desired number of colours
 - Enable "Single Extruder Multi Material"
 2. In "Printer Settings"-->"Single extruder MM setup":
 - Set "Cooling tube position" to 10.
 - Set "Filament parking position" to 0.
 - Set "Extra loading distance" to 0.
 - These settings eliminate the filament getting retracted into the heatsink section and possibly jamming there and eliminating the big blob created in the wipe tower after changing filaments. I think the original values are appropriate for a physical MMU(2) where the filament needs to be moved between the Bowden tube and the extruder tip but does the wrong thing for manual colour changes.
 3. In "Print Settings"-->"Wipe tower", disable "Prime all printing extruders". Since we're manually changing filaments, there's no need to do this.
 4. In the "Printer Settings"-->"Custom G-code"-->"Tool change G-code" section, put the following: `{if layer_num >= 0}M600 ; change to filament for extruder {next_extruder + 1}{endif}`
2. Import the Lid.stl and split it into parts
3. Adjust the colours of the box and font
4. Send it to the printer and enjoy =)

Change Parameters/Measures of the box:

Download the Fusion 360 file and adjust the parameters (Modify → Change Parameters) to adjust the size of the Box for your needs. Before you import the project, you must download and install the font **Helvetica Neue**.

Please leave a like and show us your make! =)

This remix is based on



Rugged Box (Parametric)

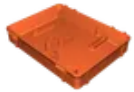
by Whity

Model files



V2 Prusa Tools Box

19 files



box-lid-core-one.3mf

☐ Pre-configured for manual filament swap



box-prusa-xl.3mf

☐ All parts



box-lid-coreone.stl



box-lid-prusa-xl.stl



box-lid-prusa-mk4s.stl



box-bottom-60mm-height.stl



box-bottom-50mm-height.stl



box-bottom-40mm-height.stl



box-latch.stl



box-seal.stl



box-lid.stl



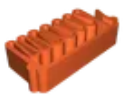
screwdriverholder.stl



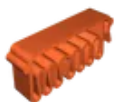
screwdriverholdertorx.stl



allenkeyholder-prusa-xl.stl



allenkeyholder-core-one.stl



allenkeyholder-prusa-mk4s.stl



plierholder.stl



box-nozzles.stl



box-storage.stl



V1 Prusa Tools Box - 105x165

18 files



prusa_prusa-mk4-tools-box-lid.3mf

☐ MK4 Lid for Prusa MK4 & PrusaSlicer



bambu_prusa-mk4-tool-box-lid.3mf

☐ MK4 Lid for BambuLab Printers



prusa-xl-tools-lid_105x165.3mf

☐ MK4 Lid for Prusa MK4 & PrusaSlicer



prusa-core-one-tools_lid.stl

☐ CORE ONE Lid



prusa-xl-tools-box_lid.stl

☐ XL Lid



prusa-mk4s-tools_lid.stl

☐ MK4S Lid



prusa-mk4-tools_lid.stl

☐ MK4 Lid



prusa-mk39-tools_lid.stl

☐ MK3.9 Lid



prusa-mk35-tools_lid.stl

☐ MK3.5 Lid



prusa-mk3s-tools_lid.stl

☐ MK3S Lid



prusa-mini-tools_lid.stl

☐ MINI+ Lid



prusa-mini-tools_lid.stl

☐ MINI Lid



prusa-tools_box.stl

☐ for any tools/logo version



prusa-tools_nozzle-box-corner.stl

☐ for Prusa Tools_Box version



prusa-tools_nozzle-box-mid.stl

☐ for Prusa Tools_Box version



prusa-tools_box-big.stl

☐ for Prusa Tools_Box version



box-latch.stl

☐ for any version



box-seal.stl



V1 Logo only Versions

13 files



prusa-mk4-lid_105x165.3mf



printables-lid_105x165.3mf



prusa-xl-lid_105x165.3mf



prusa-research-lid_105x165.3mf



printables-lid_105x165.stl

☐ Split to parts for applying colour



prusa-mk4-lid_105x165.stl

☐ Split to parts for applying colour



prusa-xl-lid_105_165.stl

☐ Split to parts for applying colour



prusa-mini-lid_105_165.stl

☐ Split to parts for applying colour



prusa-mk3s-lid-105_165.stl

☐ Split to parts for applying colour



prusa-research-lid_105x165.stl

☐ Split to parts for applying colour



box_105x165.stl



box-latch.stl

☐ for M3x30mm



box-seal.stl



V1 Fusion 360 Projects

7 files



prusa-core-one-tools-ruggedbox.f3d

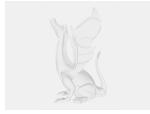


prusa-mk4s-tools-ruggedbox.f3d

☐ Download to adjust parameters



prusa-mk4-tools-ruggedbox.f3d

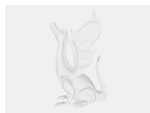


prusa-xl-tools-ruggedbox.f3d



prusa-research-logo.f3d

☐ Download to adjust parameters



printables-logo.f3d

☐ Download to adjust parameters



prusa-mk4-logo.f3d

☐ Download to adjust parameters

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