



KlipperScreen Housing

3ddk 3ddk

VIEW IN BROWSER

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Summary

KlipperScreen Housing for 3030 Extrusions

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KlipperScreen Housing

Update 2023/01 : Added new Version that works without the 90 degree adapter

This is my solution to upgrade one of my printers (that is currently mostly like a Caribou Cartesian (<https://caribou3d.com/de/3-caribou-3d-drucker>)) to use Klipper and KlipperScreen.

To run Klipper (<https://www.klipper3d.org>), i used an Raspberry Pi, that's screwd to a 5 inch Touchscreen. The USB ports of the Pi are still accessible and are used to connect the Pi to the printer mainboard and to a USB webcam.

Everything is quite easy to install. I used a Rasbian Lite image and Kiauh (<https://github.com/th33xitus/kiauh>) to install all components.

BOM

I used the following things for my build

- Housing (see STL files)
- Bracket (see STL files)
- 5" Touchscreen for Raspberry Pi (<https://www.amazon.de/gp/product/B093K2HDZF>)
 - Screws for mounting the Pi on back of the screen have been included in the package i bought from Amazon
- Raspberry Pi 3B (i had lying around from another project)
- 4 Spax 3x12 Torx (T10) screws to secure the screen with the bracket
- 90 degree Micro USB adapter (also from another project)
 - It's something like this (<https://www.amazon.de/gp/product/B015PTT290>), but i'm not sure if this one fits, but it looks like it should. See the pictures for my Adapter.

Assembly

- screw the Pi on back of the Screen
- connect the Pi with the cable to the screen
- put the 90 degree Micro USB adapter in the Pi
- place the screen with the Pi in the KlipperScreen Housing
- place the bracket in the KlipperScreen Housing and secure it with the screws

Model files



klipperscreen-housing.stl



bracket.stl

klipperscreen-housing-without-90-degree-adapter.stl

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