Franken-10

A CR-10 Dual Extruder Mod

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Introduction

Intention

I wanted to upgrade my awesome Creality CR-10 3D Printer to make it work with dual axis - but without building it completely up from the ground. Also I want to keep the upgrades **cheap**, so everyone can easily join this journey.

Benefits

- Using existing CR-10 Frame (***no drilling***, etc.)
- TMC2130 upgrade
- Silent printing (thanks to TMC2130)
- Sensorless homing on X and Y
- Filament-Runout Sensor (using existing endstops)
- 32 Bit Mainboard
- 2 independent extruders (fast switching, no purge-block)
- Auto bed-leveling and Mesh-Correction
- basing on newest Marlin Firmware (V2.1.x)

Sources

All sources can be found on GitHub:

- Franken-10 related stuff: https://github.com/sensenmann/Franken-10
- Github fork: https://github.com/sensenmann/Franken-10-Marlin

About the author

I'm a Software Developer, located in Vienna / Austria. In the year 2018 I've started 3D printing, and the CR-10 was my first 3D printer. After learning a lot about 3D printers, I've also bought an Ender 3 and a Prusa i3 MK3S (later with MMU2S).

My CR-10 has en enormous buildplate, but was it was lacking a lot of features of the Prusa i3, so I didn't use it anymore for a long time.

Mid 2019 I've started to start the Franken-10 project, because I wanted to use my CR-10 again - with all the nice features of the Prusa i3.

English isn't my native language, so please be kind if there are some typos.