UPGRADE KIT: MK4 DIRECT DRIVE



This is a conversion/upgrade kit to convert my MK4-Carriage from Bowden to direct extruder with e3d v6 hotend in BMG Dual Drive Style. The modification is based on the MK4: Due to the interchangeable system of the Carriage-System only the front assembly is replaced.

This version is to be regarded as <u>experimental</u>, I have designed and tested it on the multiple request of some users but I <u>do not</u> give any guarantee for an improvement in the print result!

The extruder used is 3D-printed but is almost identical to the BMG Dual Drive extruder, therefore a BMG/BMG clone is needed for the gears etc..

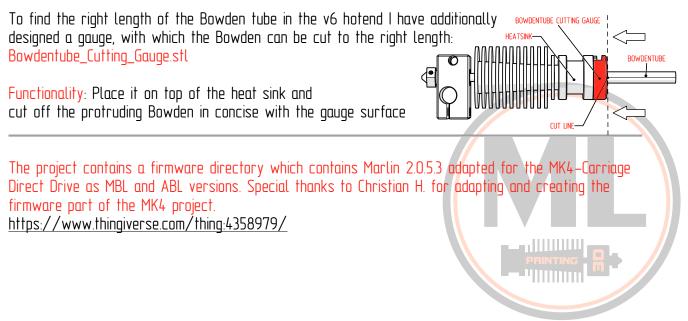
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Design-Features:

- Build volume reduction: X–Direction: None II Y–Direction: None II Z–Direction: –5mm (Zmax = 200mm)
- Nema 17 Pancake for less additional weight as possible
- Reduced Retract length / better suitability for flexible filament
- AutoLeveling with BLTouch possible
- Includes the advantages of the MK4 (Part Cooling, Belt Tensioners, Low Noise level etc.)

Instructions for the stl files, the print settings and the assembly process can be found in the project folders as a pdf file called '00_Instructions(..).pdf'.

Note: In my case, the conversion required a reduction of the printing temperature by 10°C.



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Changelog:

- 18.06.2020:
- 16.08.2020
- Publishing
- Adaption of the extruder back part to support all length types of stepper motor shafts
 Firmware Update to Marlin 2.0.6.

