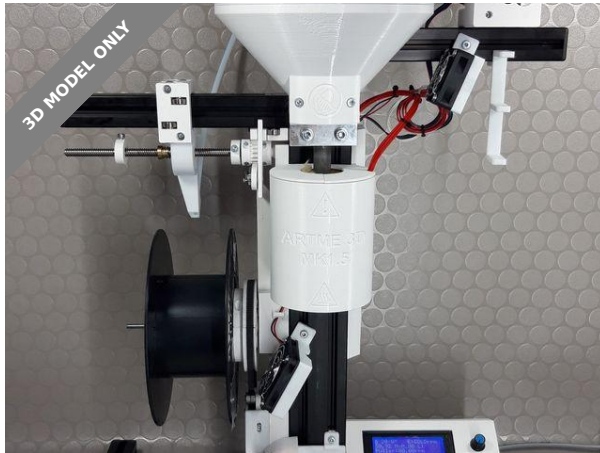




Original Desktop Filament Extruder MK2 by ARTME 3D

ARTME 3D **ARTME 3D**

[VIEW IN BROWSER](#)

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Summary

This is used to produce filament for 3D printers. These are the print files for the diy kit from ARTME 3D.

[3D Printers](#) > [Prusa Parts & Upgrades](#)

Tags: [filamentextruder](#) [diyfilamentextruder](#) [diyfilament](#)

The Original Desktop Filament Extruder MK2 from ARTME 3D is a small but powerful desktop device that allows you to produce your own filament or recycle 3D printing waste. You can find the complete documentation and the corresponding kit on www.artme-3d.de.

Use the STL file format if you want to load the files into the slicer in order to print the files. Use the STEP file format if you want to edit the parts in a CAD program.

Requirements for the printer:

The print quality and dimensional accuracy must be good. The printer must be well aligned and the axes must be at 90° to each other. Das Druckbett des Druckers muss mindestens 200x200mm groß sein.

Print material and color:

I recommend printing the following components in PETG because of the heat load:

ED-A-coupler

ED-B-hopper

ED-C-hopper centering

IN-A-cover

The rest can be printed in PLA. However, I recommend to print all parts in PETG, because it is not as brittle as PLA and the parts break less quickly under stress.

The color choice is up to you. The SO-E-sensor shutter part must be printed in (opaque) white to perform its function, but this part is included in the kit.

The printing time can be up to several days. You need to plan for about 1.3 to 1.6 kg of material consumption.

Print settings:

Printer nozzle: 0.4mm

Layer height: 0,2mm.

At least 5 wall lines

At least 5 upper layers

At least 5 lower layers

At least 40% filling

These settings apply to all components except for component ED-A-coupler. For part ED-A-coupler I recommend:

Printer nozzle: 0,4mm

Layer height: 0,2mm.

At least 8 wall lines

At least 8 upper layers

At least 8 lower layers

At least 40% filling

Part alignment and support structure:

When you load the STL files into the slicer, they are already aligned so that they can be printed without support structure. There is only one part that needs support structure: ED-D-hopper spout

Number of pieces:

The FG-N component must be printed twice. All other components only once.

Optional components:

From the files that contain the note "Option" in the name, you must select the file that is appropriate for you to print:

For parts SH-G through SH-Q, you must select the part that matches the inner diameter of the filament spool you are using.

For parts FG-O and FG-P, you must select the part that matches the size of the filament spool you are using. FG-O for spools up to 1kg. FG-P for spools up to 2kg.

Print parts SH-C and SH-D if you want to make 1.75mm filament. Print the SH-C (option 2.85) and SH-D (option 2.85) parts if you want to make 2.85mm filament.

Finding your way around the print files:

All 3D printed parts have a unique designation. The first two capital letters indicate the part group. A 3D printing part with the designation **ED**-B therefore belongs to the **E**xtruder **D**rive group. The exact breakdown can be found in the parts list of the extruder. You will find it in the [documentation](#).

Model files

	STEP-files	79 files
	ed-g-hopper-lid.step	
	el-c-case-2-bottom.step	
	ed-f-hopper-extension-2.step	
	el-f-strain-relief-1.step	
	el-a-case-1-bottom.step	



el-h-fan-holder-50mm.step



ed-e-hopper-extension-1.step



el-i-fan-holder-60mm.step



en-b-melt-filter-punching-tool-1a.step



el-j-connection-housing-1.step



el-g-strain-relief-2.step



en-c-melt-filter-punching-tool-1b.step



el-e-display-holder.step



en-f-melt-filter-drawing-template.step



el-k-connection-housing-2.step



en-d-melt-filter-punching-tool-2a.step



el-d-case-2-lid.step



fg-h-hook-right.step



fg-f-swing-arm-2.step



fg-j-crossbrace-2.step



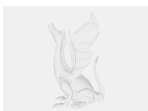
fg-l-snap-1.step



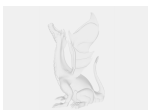
fg-k-crossbrace-guide.step



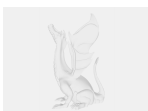
fg-g-hook-left.step



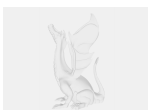
fg-o-filament-guide-1kg-spool.step



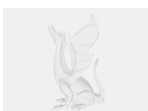
fg-d-axes-bearing-2.step



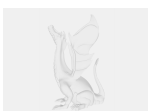
fg-p-filament-guide-2kg-spool-option.step



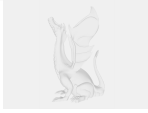
fg-a-sledge.step



fg-m-snap-2.step



in-b-top-left.step



fr-b-mounting-aid-2.step



in-c-top-right.step



fr-a-mounting-aid-1.step



pu-b-lever.step



pu-d-filament-guide.step



pu-c-lid.step



sd-c-lid.step



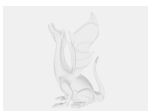
sh-b-spacer.step



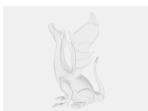
pu-a-motor-mount.step



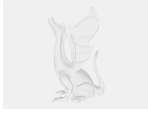
sd-b-belt-tensioner.step



sh-a-spool-bearing.step



sd-a-motor-mount.step



el-b-case-1-lid.step



sh-e-spool-holder-lid.step



sh-f-clamping-disk.step



sh-g-spool-adapter-50mm-option.step



sh-h-spool-adapter-51mm-option.step



sh-j-spool-adapter-53mm-option.step



sh-m-spool-adapter-56mm-option.step



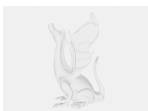
sh-k-spool-adapter-54mm-option.step



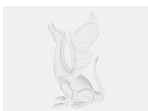
sh-l-spool-adapter-55mm-option.step



sh-o-spool-adapter-58mm-option.step



sh-q-spool-adapter-60mm-option.step



sh-n-spool-adapter-57mm-option.step



sh-d-spool-holder-2.step



en-a-melt-filter-punching-tool-0.step



so-b-lid.step



sh-p-spool-adapter-59mm-option.step



so-a-housing.step



en-e-melt-filter-punching-tool-2b.step



fg-i-crossbrace-1.step



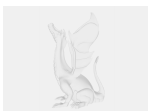
fg-e-swing-arm-1.step



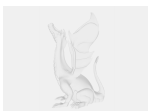
fg-n-stopper.step



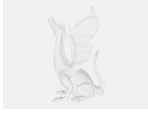
fg-b-axes-holder.step



in-a-cover.step



so-d-sensor-arm.step



ed-a-coupler.step



ed-b-hopper.step



so-g-bending-aid.step



ed-d-hopper-spout.step



sh-c-option-285.step



ed-c-hopper-centering.step



sh-c-spool-holder-1.step



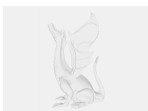
sh-i-spool-adapter-52mm-option.step



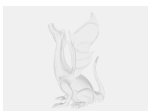
sh-d-option-285.step



sh-r-clamping-aid-option.step



so-e-sensor-shutter-option-will-be-supplied.step



so-c-sensor-mounting.step



so-f-bracket.step

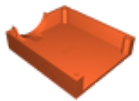


fg-c-axes-bearing-1.step



STL-files

80 files



el-b-case-1-lid.stl



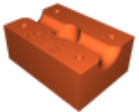
el-a-case-1-bottom.stl



ed-f-hopper-extension-2.stl



el-e-display-holder.stl



el-f-strain-relief-1.stl



ed-e-hopper-extension-1.stl



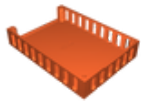
el-g-strain-relief-2.stl



el-h-fan-holder-50mm.stl



el-c-case-2-bottom.stl



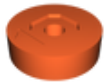
el-d-case-2-lid.stl



el-i-fan-holder-60mm.stl



en-a-melt-filter-punching-tool-0.stl



en-b-melt-filter-punching-tool-1a.stl



en-d-melt-filter-punching-tool-2a.stl



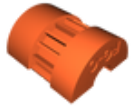
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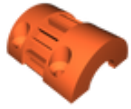
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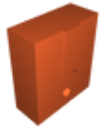
en-f-melt-filter-drawing-template.stl



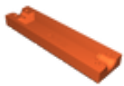
fg-c-axes-bearing-1.stl



fg-d-axes-bearing-2.stl



fg-b-axes-holder.stl



el-j-connection-housing-1.stl



fg-a-sledge.stl



fg-e-swing-arm-1.stl



fg-f-swing-arm-2.stl



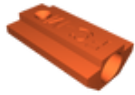
fg-h-hook-right.stl



fg-i-crossbrace-1.stl



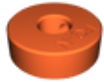
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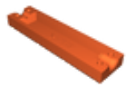
fg-m-snap-2.stl



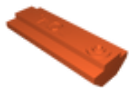
fg-k-crossbrace-guide.stl



fg-n-stopper.stl



el-k-connection-housing-2.stl



fg-l-snap-1.stl



fg-o-filament-guide-1kg-spool.stl



fr-a-mounting-aid-1.stl



in-b-top-left.stl



in-c-top-right.stl



fg-p-filament-guide-2kg-spool-option.stl



fg-g-hook-left.stl



fr-b-mounting-aid-2.stl



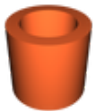
pu-b-lever.stl



pu-a-motor-mount.stl



in-a-cover.stl



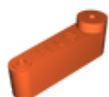
sh-b-spacer.stl



sh-a-spool-bearing.stl



pu-d-filament-guide.stl



sd-b-belt-tensioner.stl



sd-c-lid.stl



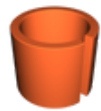
sh-f-clamping-disk.stl



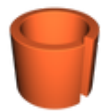
sh-g-spool-adapter-50mm-option.stl



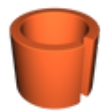
sh-e-spool-holder-lid.stl



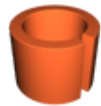
sh-h-spool-adapter-51mm-option.stl



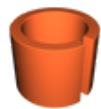
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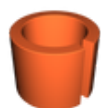
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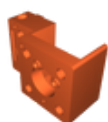
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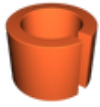
sh-k-spool-adapter-54mm-option.stl



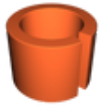
sh-l-spool-adapter-55mm-option.stl



sd-a-motor-mount.stl



sh-p-spool-adapter-59mm-option.stl



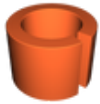
sh-n-spool-adapter-57mm-option.stl



sh-c-spool-holder-1.stl



sh-c-option-285.stl



sh-q-spool-adapter-60mm-option.stl



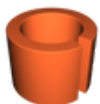
sh-r-clamping-aid-option.stl



sh-d-spool-holder-2.stl



sh-d-option-285.stl



sh-o-spool-adapter-58mm-option.stl



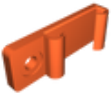
so-a-housing.stl



so-c-sensor-mounting.stl



so-d-sensor-arm.stl



so-f-bracket.stl



so-b-lid.stl



so-e-sensor-shutter-option-will-be-supplied.stl



so-g-bending-aid.stl



ed-c-hopper-centering.stl



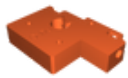
ed-d-hopper-spout.stl



ed-b-hopper.stl



ed-a-coupler.stl



pu-c-lid.stl



pu-c-lid.stl



ed-g-hopper-lid.stl

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