## Print settings - Desktop Filament Extruder MK1 by ARTME 3D

Version 27.06.2022

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Printer size and amount	of material:					
Part EL15 and EL16 require	re a printer with at least 203mm wide print area.					
In a pinch, these parts can	be printed standing on end, but this requires a lot of support structure.					
All other parts are printable	e with a print bed size below 180x180 mm.					
Total amount of material re	equired 1100g (Can be divided into 900g PETG and 220g PLA. See material recommendation).					
Nozzle size and Layer high	ght:					
The settings are for printin	g with a 0.4mm nozzle. The printed line width corresponds to the basic setting in Prusaslicer, or 0.4mm.					
Material recommendation	n:					
ED02-hopper Part 1:	PETG (since thermally very loaded)					
IN02-cover body:	PETG (since thermally very loaded)					
IN03-cover top left:	PETG (since thermally very loaded)					
IN04-cover top right:	ver top right: PETG (since thermally very loaded)					
EL16-Arduino case top:	vrduino case top: PLA (because of strong warping when printing with PETG due to the body shape)					
EL15-control Box bottom:	PLA (because of strong warping when printing with PETG due to the body shape)					
All other parts:	PETG or PLA					

## Color:

The part SO04\_sensor shutter must be printed in white to perform the function.

For all other parts, you are free to choose the color. However, since the recognition value of the extruder is greatest in white and one part must be printed in white

anyway, it would be nice if you print all parts in white.

Other:

The SO04\_sensor shutter part must be printed as solid as possible (without air in the filling). The part must be printed in white color as said before.

SD08.1 to SD08.11: Select the adapter according to the inner diameter of the filament spool used.

Print settings for all parts (as a guide, no obligation to print this way):

Number	Quantity	Name	need	wall lines	top/bottom layers	infill	support	adhesion
		Extruder Barrel						I
EB07	1	barrel sign template	needed	3	3	30	no	Skirt
EB08	1	melt filter Punching tool	needed	5	5	100	no	Skirt
EB09	1	melt filter drawing template	needed	3	3	30	no	Skirt
		Extruder Drive						
ED01	1	coupling	needed	6	6	80	no	Skirt
ED02	1	hopper part1	needed	3	3	30	no	Brim 6mm
ED03	1	hopper part2	needed	3	3	30	no	Brim 6mm
ED04	1	hopper part3	needed	3	3	30	no	Brim 6mm

	Spool drive		· · · · ·		·	·
SD01	1 Spool holder bracket	needed	6	6	80 no	Skirt
SD02	1 Spacer	needed	3	3	100 no	Brim 6mm
SD03	1 Spool holder disc	needed	6	6	80 only buildpla	ate Skirt
SD04	1 Spool holder disc lid 1	needed	6	6	100 no	Skirt
SD05	1 Motor mount	needed	6	6	80 no	Skirt
SD06	1 Motor mount lid	needed	6	6	30 no	Skirt
SD07	1 Belt tensioner	needed	6	6	30 no	Brim 6mm
SD08.1	1 Spool adapter 50mm (option)	option	3	3	30 no	Skirt
SD08.2	1 Spool adapter 51mm (option)	option	3	3	30 no	Skirt
SD08.3	1 Spool adapter 52mm(option)	option	3	3	30 no	Skirt
SD08.4	1 Spool adapter 53mm (option)	option	3	3	30 no	Skirt
SD08.5	1 Spool adapter 54mm (option)	option	3	3	30 no	Skirt
SD08.6	1 Spool adapter 55mm (option)	option	3	3	30 no	Skirt
SD08.7	1 Spool adapter 56mm (option)	option	3	3	30 no	Skirt
SD08.8	1 Spool adapter 57mm (option)	option	3	3	30 no	Skirt
SD08.9	1 Spool adapter 58mm (option)	option	3	3	30 no	Skirt
SD08.10	1 Spool adapter 59mm (option)	option	3	3	30 no	Skirt
SD08.11	1 Spool adapter 60mm (option)	option	3	3	30 no	Skirt
SD09	1 Spool holder disc lid 2	needed	6	6	100 no	Skirt
	Filament Guide					
FG01	1 hook left	needed	3	3	100 no	Brim 6mm
FG02	1 hook rechts	needed	3	3	100 no	Brim 6mm
FG03.1	1 swing for 0.7 bis 1.0kg spools	needed	3	3	100 no	Skirt
FG03.2	1 swing for 2.5kg spools (option)	option	3	3	100 no	Skirt
FG04	1 crossbrace 1	needed	3	3	100 no	Skirt
FG05	1 crossbrace 2	needed	3	3	100 no	Skirt
FG06	1 lifter	needed	3	3	30 no	Skirt
FG07	2 Rails	needed	3	3	100 no	Brim 6mm
FG08	1 sledge part1	needed	6	6	50 no	Skirt
FG09	1 sledge part2	needed	6	6	50 no	Skirt
FG10.1	1 Spiral axis for 1,75mm Part1	needed	3	3	30 no	Skirt
FG10.2	1 Spiral axis for 1,75mm Part2	needed	3	3	30 no	Skirt
FG10.3	1 Spiral axis for 2,85mm Part1	option	3	3	30 no	Skirt
FG10.4	1 Spiral axis for 2,85mm Part2	option	3	3	30 no	Skirt
FG11	1 axis holder right	needed	3	3	30 no	Skirt
FG12	1 snap part 1	needed	3	3	100 no	Skirt

FG13	1 snap part 2	needed	3	3	100	no	Skirt
FG14	1 plow	needed	3	3	100	all	Brim 6mm
FG15	1 axis holder left	needed	3	3	30	no	Skirt
FG16	2 stopper	needed	3	3	30	no	Skirt
	Filament Puller						
FP01	1 motor mount Part 1	needed	3	3	30	no	Skirt
FP02	1 motor mount Part 2	needed	3	3	30	no	Skirt
FP03	1 motor mount Part 3	needed	3	3	30	no	Skirt
FP04	1 lever	needed	3	3	30	no	Skirt
FP05	1 disc	needed	3	3		no	Skirt
FP06	1 filament guide	needed	3	3	30	no	Skirt
	Electronics						
EL15	1 control box bottom	needed	3	3	30	no	Skirt
EL16	1 control box lid	needed	3	3	30	no	Skirt
EL17	1 terminal block holder	needed	3	3	30	no	Skirt
EL18	2 connection housing body	needed	3	3	30	no	Skirt
EL19	2 connection housing cover	needed	3	3	30	no	Skirt
EL20	2 fan holder	needed	3	3		no	Skirt
EL21	3 profile clip	needed	3	3	30	no	Skirt
	Sensor optical						
SO01	1 sensor holder part 1	needed	3	3	30	no	Skirt
SO02	1 sensor holder part 2	needed	3	3	30	no	Skirt
SO03	1 sensor body	needed	3	3	30	no	Skirt
SO04	1 sensor arm	needed	3	3	100	no	Skirt
SO05	1 sensor shutter	needed	3	3	100	no	Brim 6mm
SO06	1 bending aid	needed	3	3	30	no	Skirt
	Insulation						
IN02	1 cover body	needed	3	3		no	Skirt
IN03	1 cover top left	needed	3	3		no	Skirt
IN04	1 cover top right	needed	3	3	30	no	Skirt