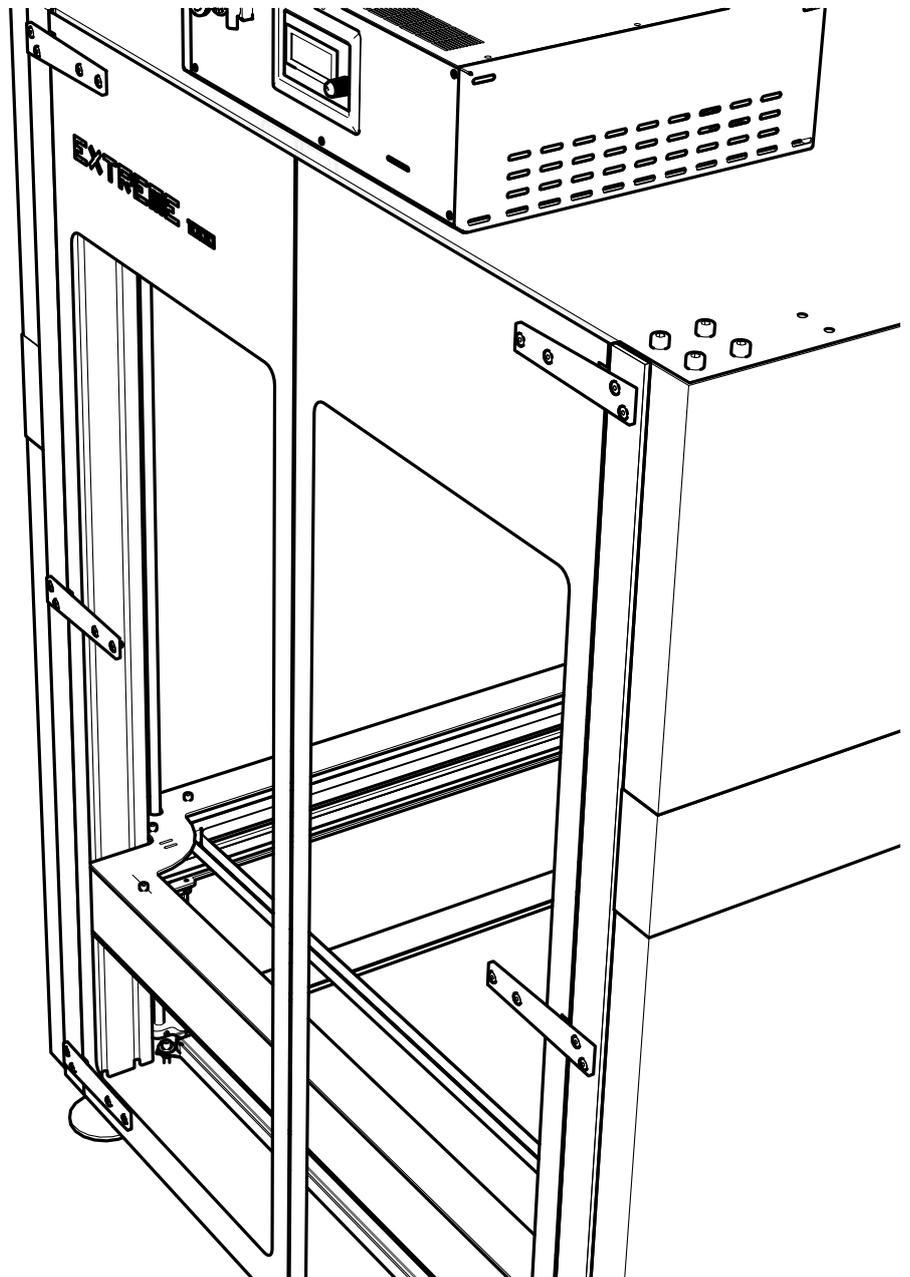
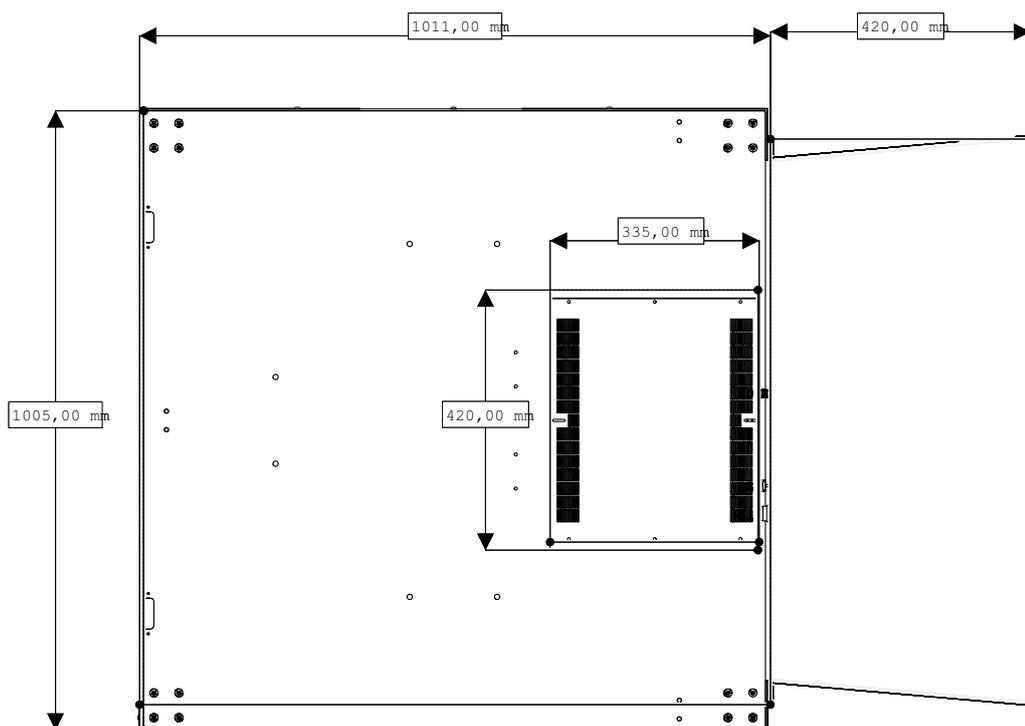


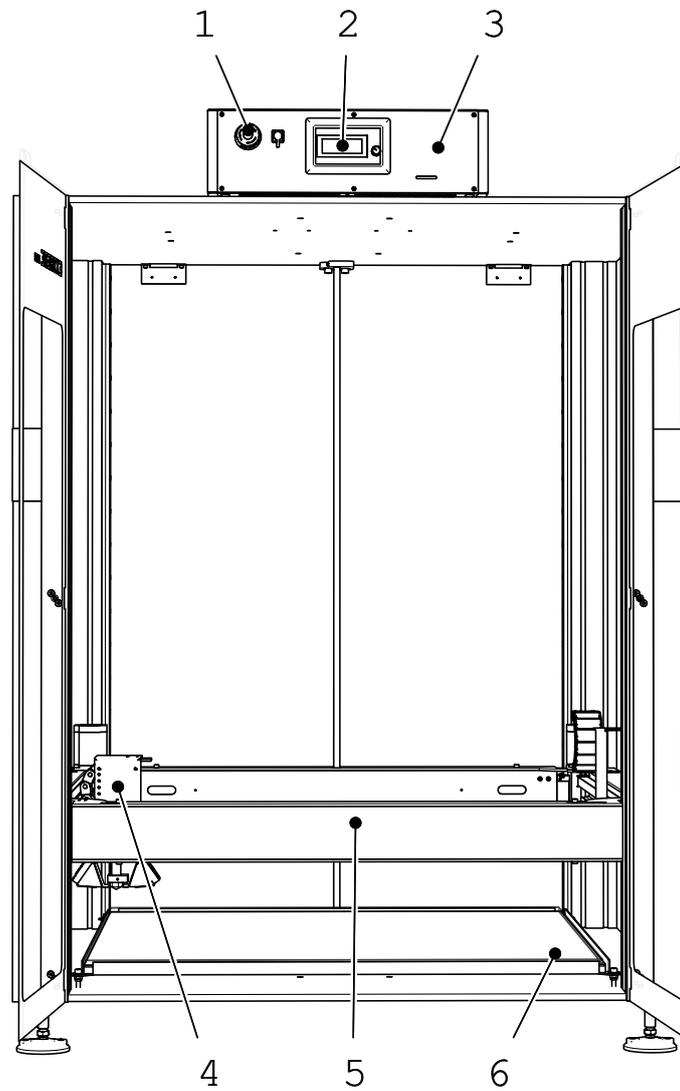
User Manual

Extreme 1000/2000



Printing		Printer	
Print technology	FDM / FFF	Dimensions printer (LxWxH):	Extreme 1000: 1006x1016x 1500 Extreme 2000:
Build volume (LxWxH):	Extreme 1000: 700x700x890 Extreme 2000:	Weight:	Extreme 1000: 220kg Extreme 2000:
Resolution:	Low quality Normal quality High quality	Frame:	Aluminium profiles
Print speed:	Extreme 1000: < 120 mm/s Extreme 2000: < 80 mm/s	Print platform:	Heated glass plate
Travel speed:	Extreme 1000: < 300 mm/s Extreme 2000: < 200 mm/s	Certification:	CE certified
Position accuracy:	X: 10 micron Y: 12,5 micron Z: 2,5 micron		
Nozzle diameter:	0,4 mm - 0,8 mm - 1,2 mm	Temperature	
Filament diameter:	1,75 mm	Operating temp printer:	15 - 32° C
Operating temp nozzle:	180 - 250° C	Storage temp printer:	0 - 35° C
Electronics		Software	
AC input:	100 - 240 V 3A 50/60Hz	Software	Repetier, Cura, Simplify3D
Power consumption	1800W	Operating systems	Windows, MAC
Connections	USB, Display Standalone SD card	File types	STL / OBJ / AMF / DAE





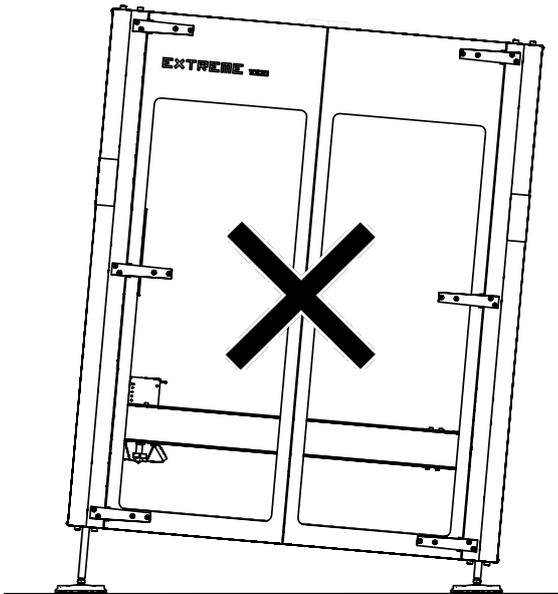
1. Emergency stop
2. LCD display
3. Control Box
4. Printhead
5. Print frame
6. Heated bed

Installation

Levelling the printer is important for making good quality prints.

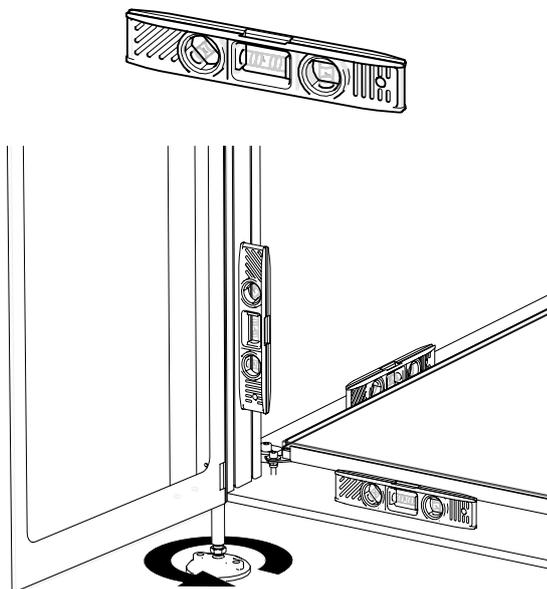
1. Level printer

Place the printer on a concrete floor and check if the printers is level



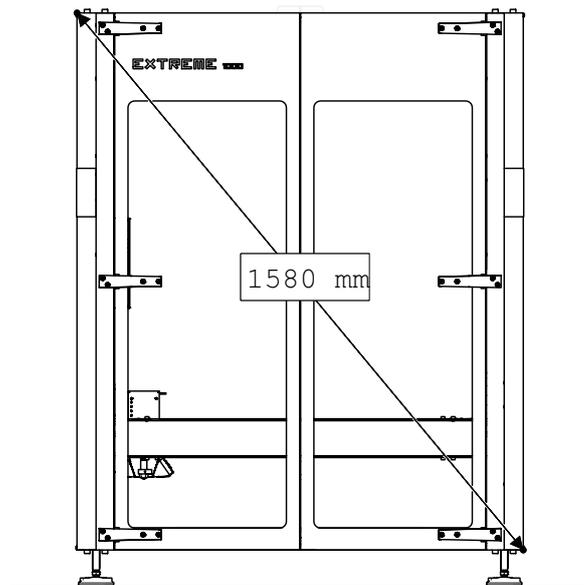
2. Spirit level

Level the printer with the included spirit level. Check all the three axis as shown. Be sure all the three axis are levelled if not use a wrench to move up or down the machine feet to get the machine level



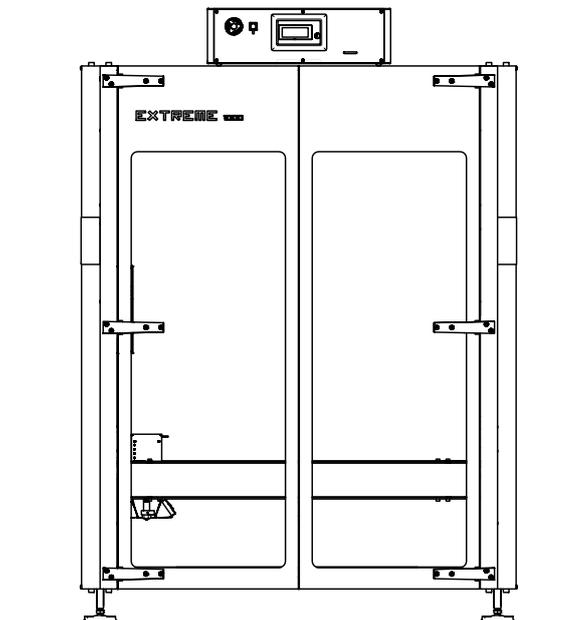
3. Measure

Measure both diagonals of the printer and make sure the lengths are the same. Should be around 1580 mm



4. Placing control box

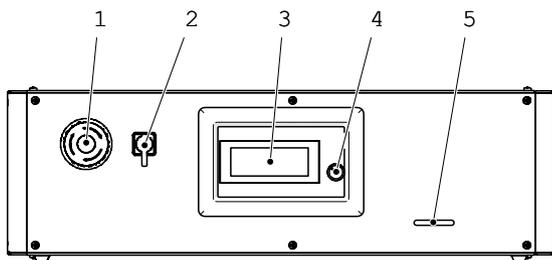
When the printer is leveled correctly, place the controlbox on top of the printer.



Control Box

Connect all the cables to the controlbox and switch on the printer with the on / off switch at the back of the controlbox

1. Emergency stop
2. Light switch
3. LCD screen
4. LCD control button
5. SD card slot

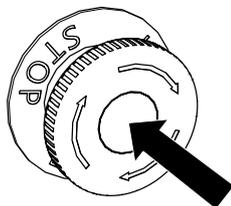


1. Line one tells you the hotend temperature/target temperature and the extruder ratio. When the extruder ratio is 60 % the rear extruder is feeding 60% and the front extruder 40% material at the same time.
2. Line two shows you the heated bed temperature/target temperature and the Z height of the print head.
3. In line three you can find the feedrate of the printing progress, SD card progress and the printing time.

1.	25 / 0	R : 100 : 0%
2.	25 / 0	Z : 0000.0
3.	100%	SD --- % - - : - -
EXTREME BUILDER		

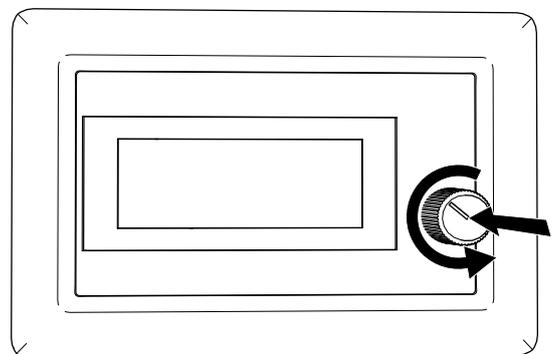
Emergency stop

Push the emergency stop in case of an emergency situation the printer shuts off the power. Rotate the emergency stop to deactivate.



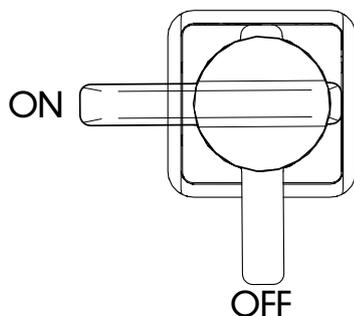
LCD control button

Rotate/Push the LCD control button to control the LCD screen.



Light switch

Rotate the light switch to switch on and off the LED light during (night) printing.



SD Card slot

Insert the SD Card upside down into the SD card slot. Push the SD Card to eject. On the SD card you can find some printer ready Gcodes.

LCD Screen

The display provides information about the printer and object as shown in the image.

Bed leveling

Follow the next steps to level the print head.
Use a screwdriver and a piece of paper for the calibration.



If you select this option the printer will move to point 1



Adjust the height of the printhead with the option "Adjust offset Z"



Place a piece of paper between the nozzle and heated bed and adjust the offset until the paper gets stuck between nozzle and heated bed



Use the supplied screwdriver to calibrate point 1. One rotation is 0.5 mm. For an offset of 0.7 mm rotate the screwdriver 1.5 turns.



When the calibration of point 1 is complete put back the "offset Z" to 000.0 and move on to the next point.

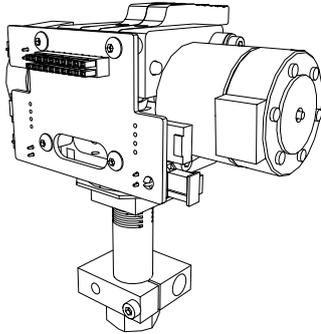


Repeat this steps for the point 1,2 and 3. After you set all sensor trigger correctly "Auto home" the printer and check if the height of points 1,2 and 3 is correct with a piece of paper.

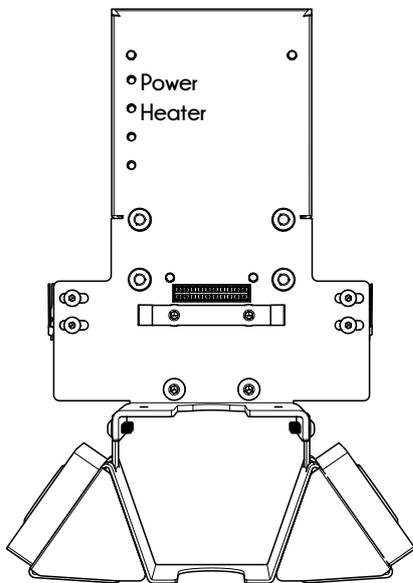


Printhead

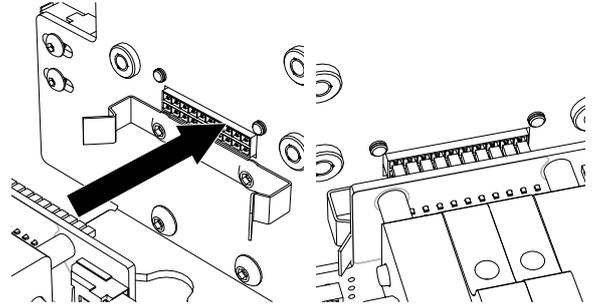
For easy maintaining it is possible to remove the printhead from the printhead frame.



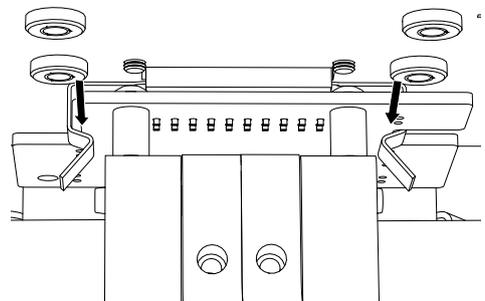
When placing the printhead be sure the power is switched off. Check power light on the printhead frame



Be sure the connectors are aligned in front of each other. Push the printhead until the connect

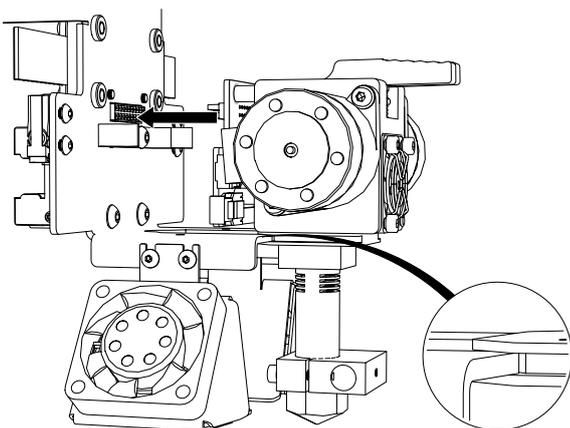


Check if the clips are snapped into place



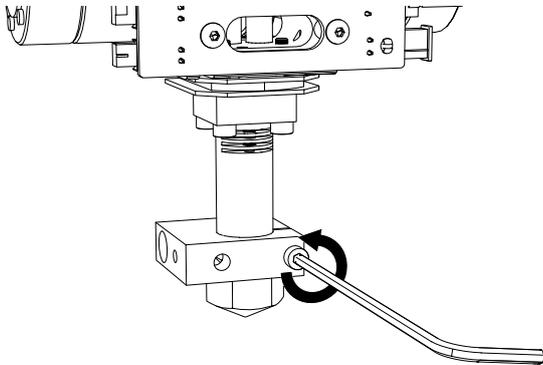
Placing printhead

Slide the printhead onto the printhead frame.



Changing nozzle

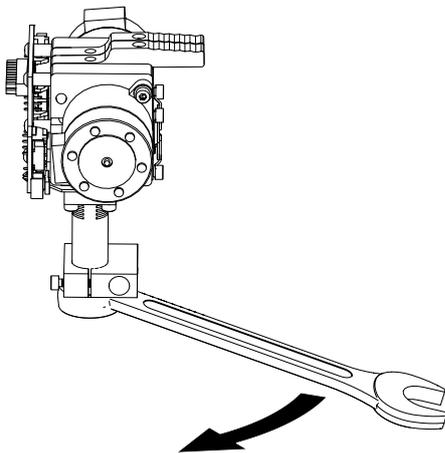
Wait until the printhead is cooled down. Take the printhead out of the printer and loosen the heaterblock.



Remove the nozzle using a 17mm wrench or the included tool. If the nozzle is stuck, place the extruder in the machine and heat up the hotend. When it's reached a temp of 210 degrees Celsius switch off the printer and take out the extruder to remove the nozzle

⚠ WARNING

The extruder is hot when heating up the hotend for easy removal.



When installing the nozzle make sure you don't tighten the nozzle too much.