Set up the Klipper Printer Additions (KPA)

Should you have problems with the Quick Guide, please use
The friendly Step By Step guide for starters below.

Quick Guide

1. With your web browser... Upload the "**printer_additions**" folder to your printer.

2. Inside the uploaded folder, rename the file
___module_loader_template.cfg
to
___module_loader.cfg
Note the three underscores at the beginning of the file name.

3. Open the **___module_loader.cfg** file and chose your desired modules.

4. Open your "**printer.cfg**" file and scroll down to this text line:
<-------------------- SAVE_CONFIG -------------------->

5. Right **above** the "SAVE_CONFIG" line insert this text block:

Klipper Printer Additions Start
[include printer_additions/___module_loader.cfg]
Klipper Printer Additions End

6. Should you have an **older** [include...] text line from a previous version of the Klipper Printer Additions, delete it.

7. In your slicer, make sure the g-code mode is set to "Klipper" if available - otherwise "Marlin".

8. In your slicer, make sure the Extruder mode is set to "Relative".

   You are done here, in case you use the "OrcaSlicer Presets for Sovol SV07/SV06": https://www.printables.com/model/607280

9. Otherwise follow the Setup Guide for your slicer app in the download of the Klipper Printer Additions.

The friendly Step By Step guide for starters

How to access / chose your printer's web interface

Mainsail and fluidd are two different web interfaces that your Klipper-printer offers. Which one it is depends on what the printer's vendor has installed.

It could be that your printer offers both web interfaces, fluidd and Mainsail. To find out, you can try these URLs in your web browser, with port 80 and 81:
<your printer's ip address>:81
<your printer's ip address>:80
Example:
http://192.168.178.56:81

It could be that the ports are completely different - refer to your printer's manual in that case.

If you don't know the **IP address** of your printer, you will find it in the web interface of your router.

You have now opened Mainsail, or fluidd in your web browser.

Step 1.
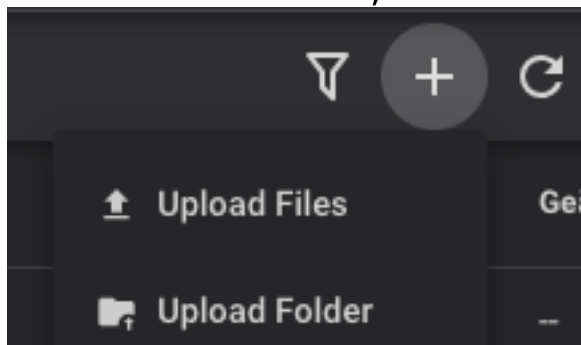# Upload the Printer Additions to your printer.

For uploading a folder to your printer, fluidd is easier to use than Mainsail.

To upload with fluidd:
• Click the "{...}" icon at the left side. You are now in the config directory.

• Click the "+" icon, and chose "**Upload Folder**".

• Upload from your hard drive the folder "**printer_additions**"

To upload with Mainsail:
• Click "Machine" at the left side. You are now in the config directory.

• Click the "Create Directory" icon (symbol with a folder and a plus).

• Name the folder "**printer_additions**".
• Click onto the just created "**printer_additions**" folder, to navigate into it.
• Click onto the "Upload file" icon (symbol with a document and up-arrow).

• Select all files in the folder "**printer_additions**" at once, to upload them all at once.

• **Rename the file** (right-click on it):
___module_loader_template.cfg
to
___module_loader.cfg
Note the 3 underscores at the beginning of the file name. They must be there.
If you don't rename correctly you will later get the following error:
"...printer_additions/___module_loader.cfg' does not exist"

• **Chose your desired modules**
Open the file **___module_loader.cfg** and enable the modules you wish to use
(details are in the file described).
By default all **common modules are enabled**, except the **Printer** modules,
as they are **specific** for a printer model, and not compatible with other
printers.

Step 2.
Add one text line to your printer.cfg file.

With fluidd:
• Click the "{...}" icon at the left side. You are now in the config directory.

With Mainsail:
• Click "Machine" at the left side. You are now in the config directory.

You will see now the "**printer.cfg**" file (if not, sort by newest modification date).
There might be a lot of other "printer-xxxxxxxx.cfg" files with numbers (date_time). These are just automated backups of your "printer.cfg" file, and don't do anything. You may hide them by clicking the gear-icon and enable "Hide backup files".

• Click the "**printer.cfg**" file to open it.

- Now scroll down, and look for the following text line (it is located where the colored text ends):

#*# <-------------------- SAVE_CONFIG -------------------->

```
shaper_type_y = 2hump_e1
shaper_freq_y = 43.4


#*# <--------------------- SAVE_CONFIG --------------------->
#*# DO NOT EDIT THIS BLOCK OR BELOW. The contents are
        auto-generated.
```

- **Above** the "**---- SAVE_CONFIG-----**" text line, copy & paste this text block:

Klipper Printer Additions Start
[include printer_additions/___module_loader.cfg]
Klipper Printer Additions End

- The position of the "[include printer_additions/..." text line is important, please verify.
Your printer.cfg should now look like the following:

```
shaper_freq_y = 43.4

# Klipper Printer Additions Start
[include printer_additions/___module_loader.cfg]
# Klipper Printer Additions End


#*# <--------------------- SAVE_CONFIG --------------------->
#*# DO NOT EDIT THIS BLOCK OR BELOW. The contents are
        auto-generated.
```

- Leave at least **one free line** under the last **colored** text line. This is in this example that blue "shaper_freq_y", and in your case likely something different.

- Click "Save & Restart".

- In the **Console of Mainsail / fluidd** you will see the KPA have loaded:

Console

```
02:59  KPA - Klipper Printer Additions v3.0b1.1


       HOW TO USE THE KPA BUTTONS:


       • First click:
       Shows the Button's Status / Guide in the Console.


       • Further clicks within 5 seconds:
       Toggle a Setting, or other Actions.


       Module loaded:
       ---------------
       Bed Mesh Area
       Bed Mesh Multiple
       Pre-Print
       Pre-Print Prime
       Print : Pause In Heights
       Print : Slow In Height
       Slicer: OrcaSlicer
       Tools : Calibration / Preparation 1.0b1
       Tools : Speed Heat Buttons
       ----- PRINTER Modules -----
       Sovol SV07 CPU Fans 1.0b4
       Sovol SV07 Features 3.0b1.2
       Sovol SV07 Hotend Fan 1.0b4
       Sovol SV07 Part Fans
       Always only enable PRINTER modules which are for your
       printer model!
```

- To **set up your slicer app**, follow the Setup Guide for your slicer in the download of the Klipper Printer Additions.

Disclaimer:
Use everything entirely at your own risk.