

# LAR – 3D Printers

Software – slide 2

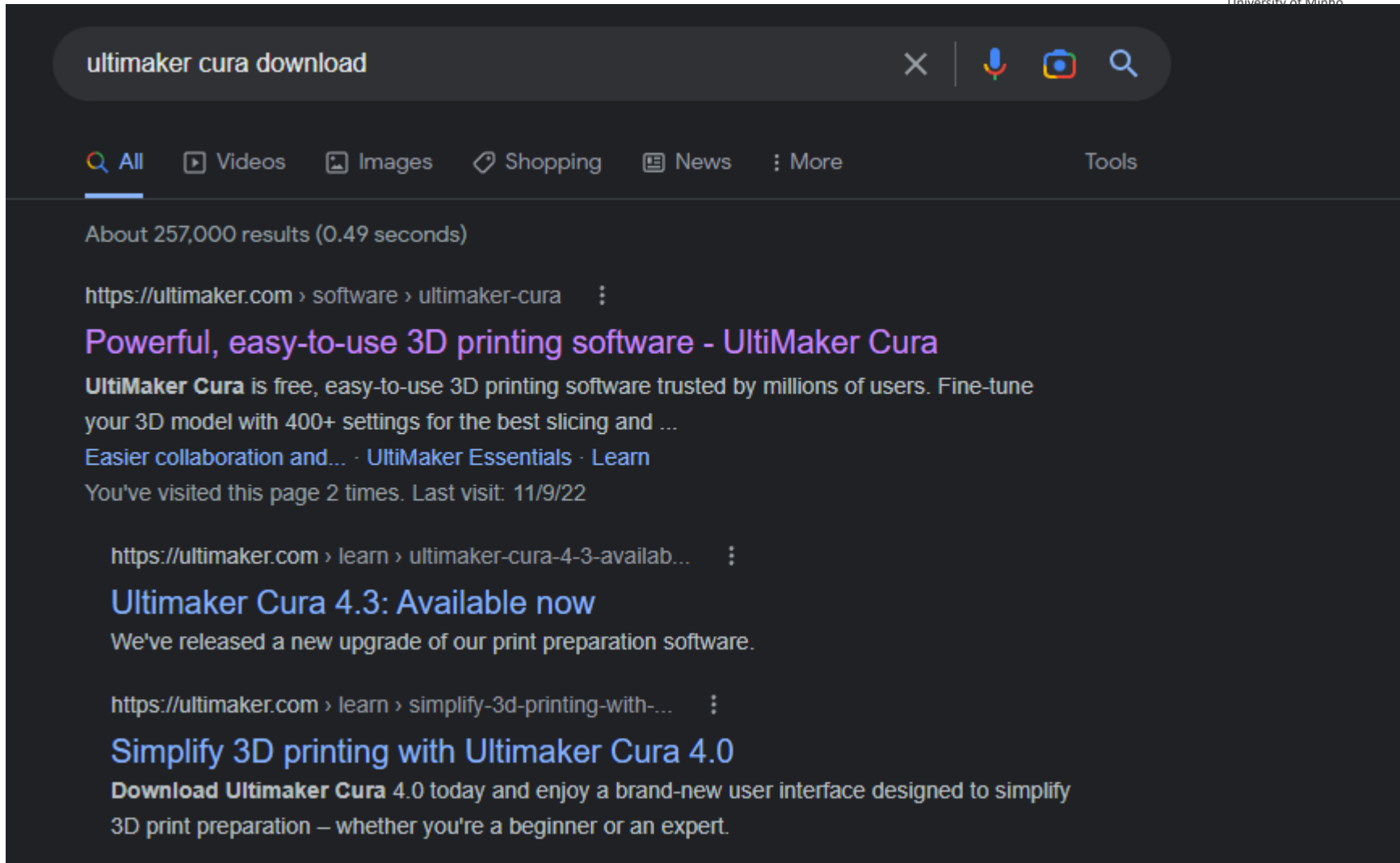
Anet – slide 14

Poncha – slide 20

MakerBot – slide 26

Como Imprimir – slide 35

# Ultimaker Cura Download



A screenshot of a Google search interface. The search bar at the top contains the text "ultimaker cura download". Below the search bar, there are tabs for "All", "Videos", "Images", "Shopping", "News", and "More". The "All" tab is selected. Below the tabs, it says "About 257,000 results (0.49 seconds)". The first search result is for "UltiMaker Cura" with a link to "https://ultimaker.com > software > ultimaker-cura". The title of the result is "Powerful, easy-to-use 3D printing software - UltiMaker Cura". The description says "UltiMaker Cura is free, easy-to-use 3D printing software trusted by millions of users. Fine-tune your 3D model with 400+ settings for the best slicing and ...". Below the description, it says "Easier collaboration and... · UltiMaker Essentials · Learn". The second search result is for "Ultimaker Cura 4.3: Available now" with a link to "https://ultimaker.com > learn > ultimaker-cura-4-3-availab...". The description says "We've released a new upgrade of our print preparation software." The third search result is for "Simplify 3D printing with Ultimaker Cura 4.0" with a link to "https://ultimaker.com > learn > simplify-3d-printing-with-...". The description says "Download Ultimaker Cura 4.0 today and enjoy a brand-new user interface designed to simplify 3D print preparation – whether you're a beginner or an expert."

ultimaker cura download

× | 🔊 📷 🔍

🔍 All 📺 Videos 🖼️ Images 🛒 Shopping 📰 News ⋮ More Tools

About 257,000 results (0.49 seconds)

<https://ultimaker.com> > software > ultimaker-cura ⋮

**Powerful, easy-to-use 3D printing software - UltiMaker Cura**

UltiMaker Cura is free, easy-to-use 3D printing software trusted by millions of users. Fine-tune your 3D model with 400+ settings for the best slicing and ...

Easier collaboration and... · UltiMaker Essentials · Learn

You've visited this page 2 times. Last visit: 11/9/22

<https://ultimaker.com> > learn > ultimaker-cura-4-3-availab... ⋮

**Ultimaker Cura 4.3: Available now**

We've released a new upgrade of our print preparation software.

<https://ultimaker.com> > learn > simplify-3d-printing-with-... ⋮

**Simplify 3D printing with Ultimaker Cura 4.0**

Download Ultimaker Cura 4.0 today and enjoy a brand-new user interface designed to simplify 3D print preparation – whether you're a beginner or an expert.

# Download

## UltiMaker Cura

Trusted by millions of users, UltiMaker Cura is the world's most popular 3D printing software. Prepare prints with a few clicks, integrate with CAD software for an easier workflow, or dive into custom settings for in-depth control.

[Download for free](#)

[Own an UltiMaker?](#)

[Find previous versions](#)

[System requirements](#)



### What makes UltiMaker Cura the most advanced 3D printer software?

Slicing features

Integrated workflow

Easy to use

UltiMaker Marketplace

UltiMaker Cura Enterprise

# Escolher o sistema operativo e instalar

## Choose your operating system

You're almost ready to start 3D printing with Ultimaker Cura. Just let us know which operating system you are using.



Ultimaker Cura 5.2.2  
Windows, 64 bit



Ultimaker Cura 5.2.2  
MacOS, 64 bit

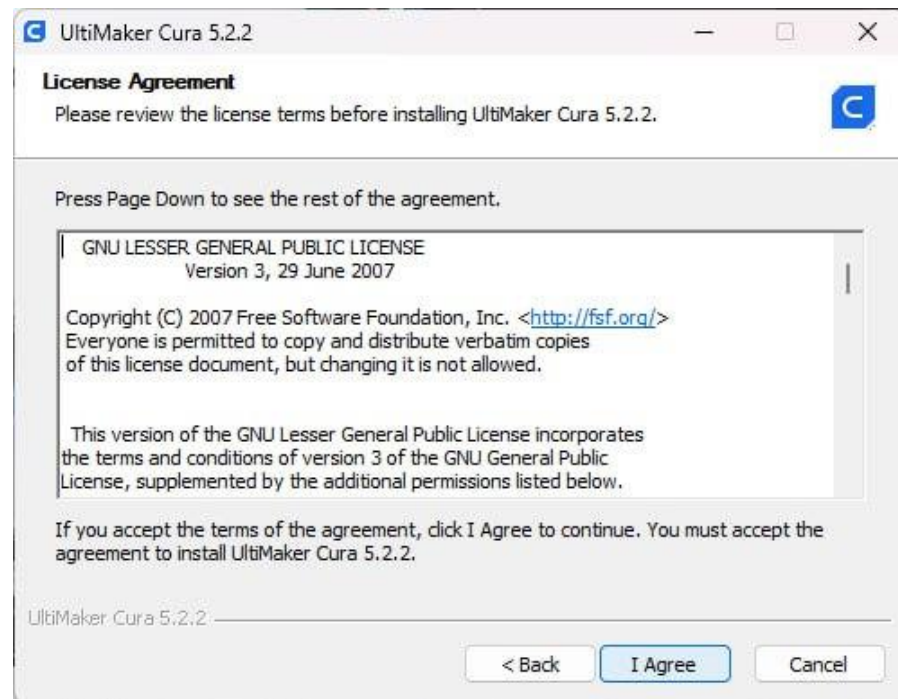


Ultimaker Cura 5.2.2  
Linux, 64 bit

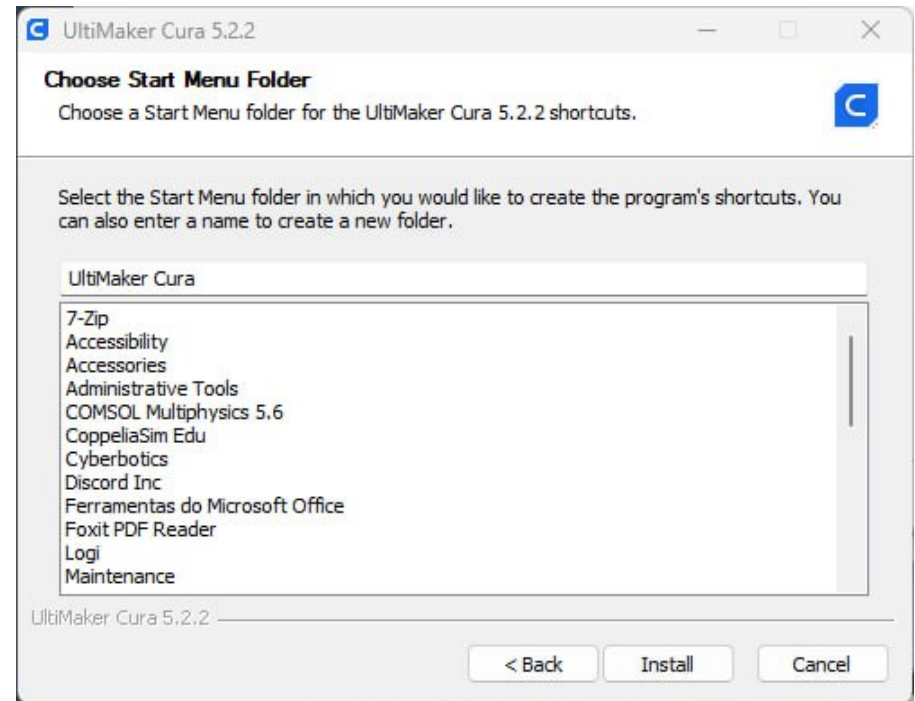
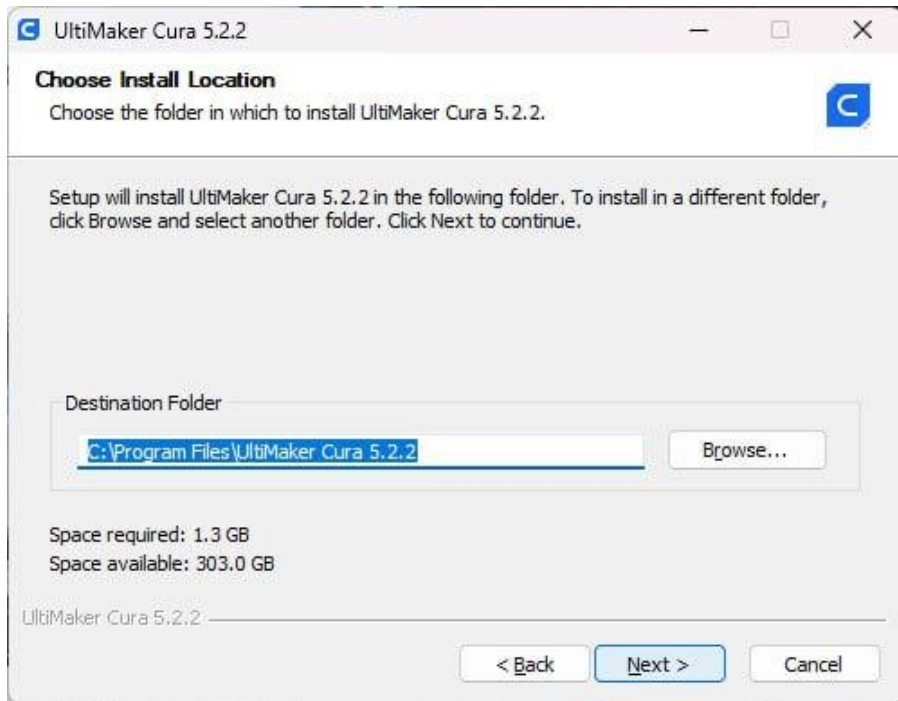


Ultimaker Cura 5.2.2  
Linux-Modern, 64 bit

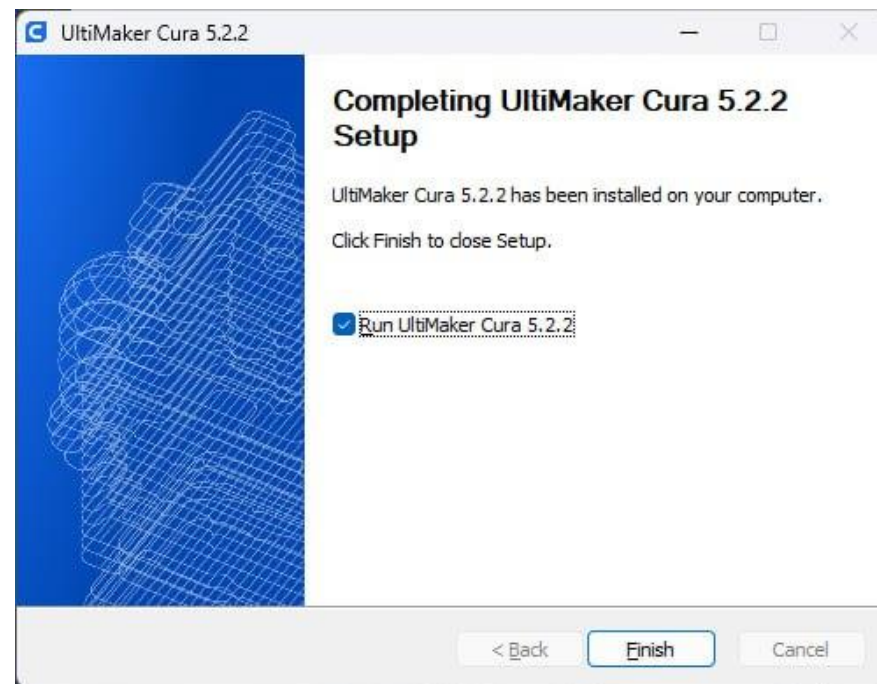
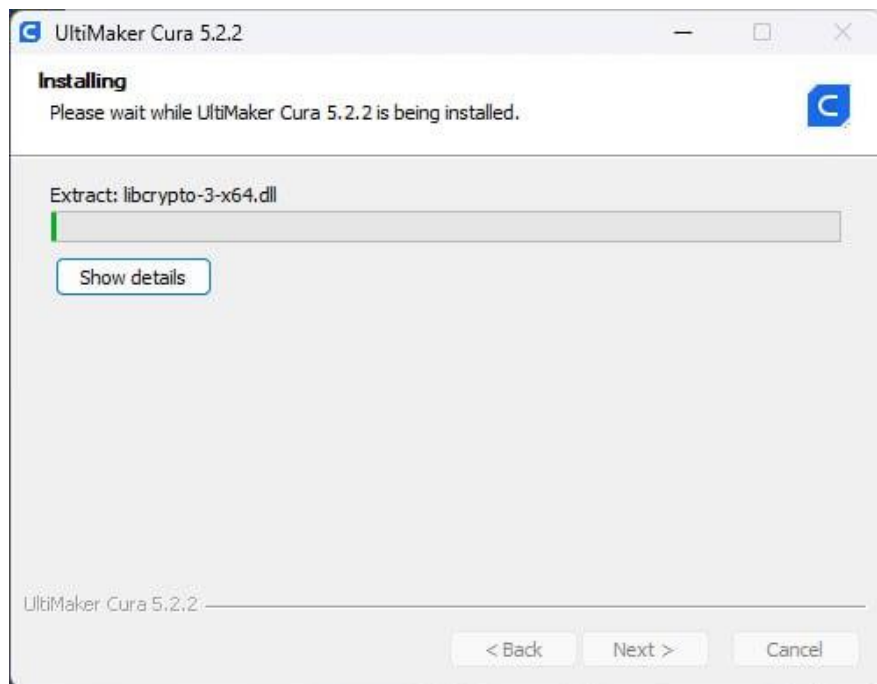
# Fazer a Instalação (pt. 1)



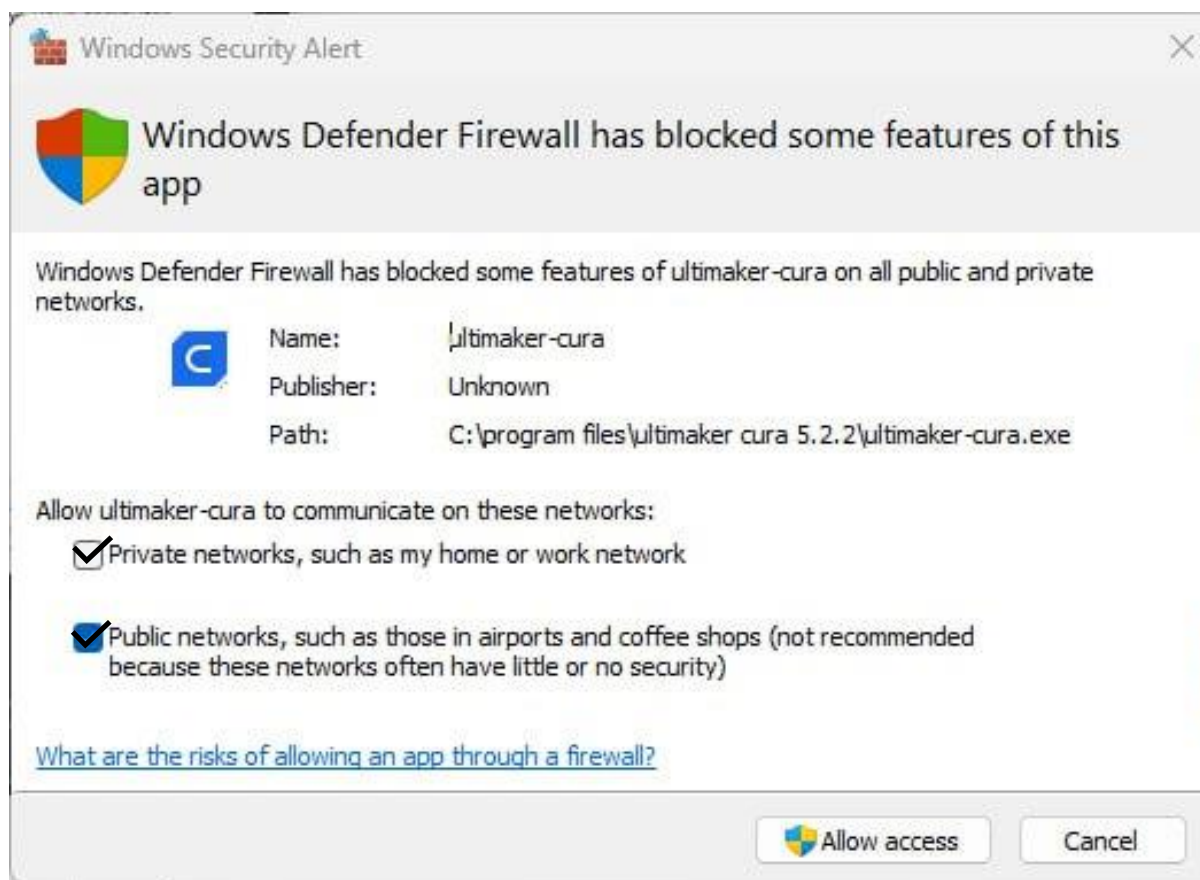
# Fazer a Instalação (pt. 2)



# Fazer a Instalação (pt. 3)

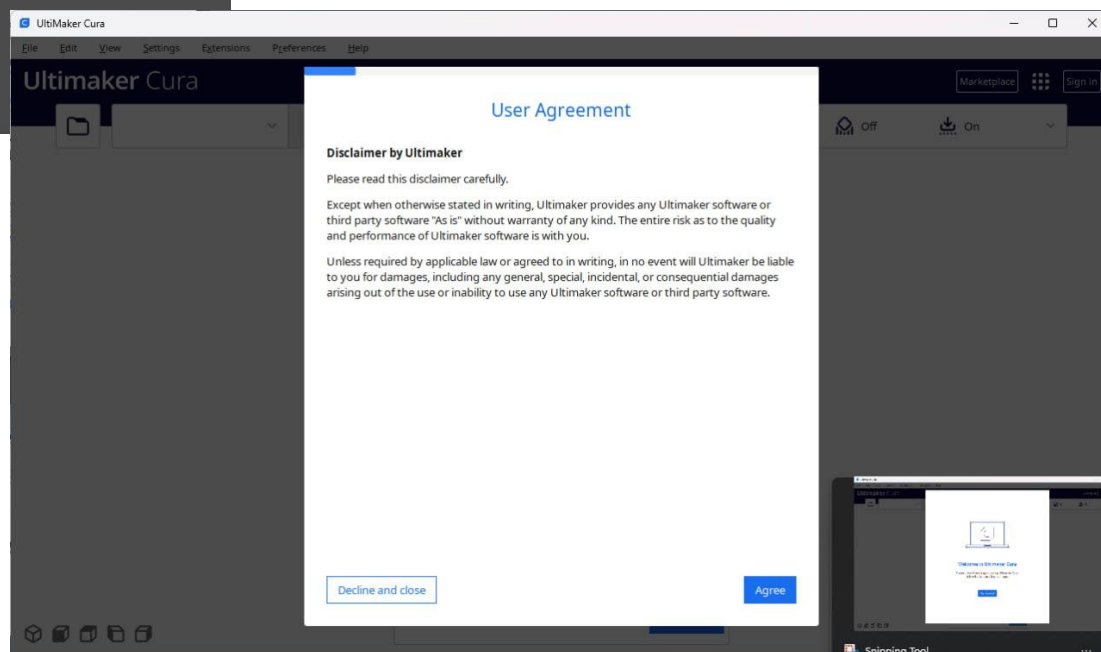
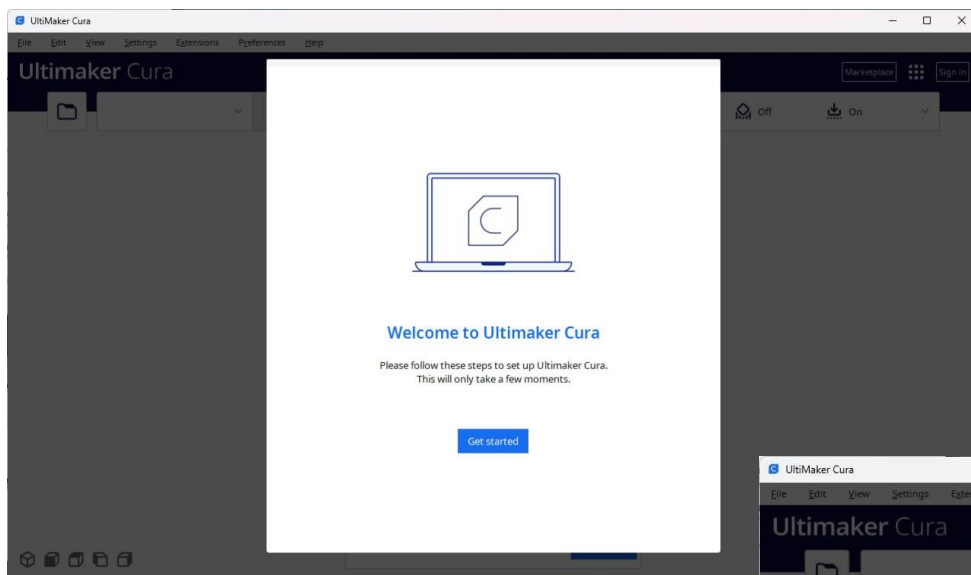


# Fazer a Instalação (pt. 4)

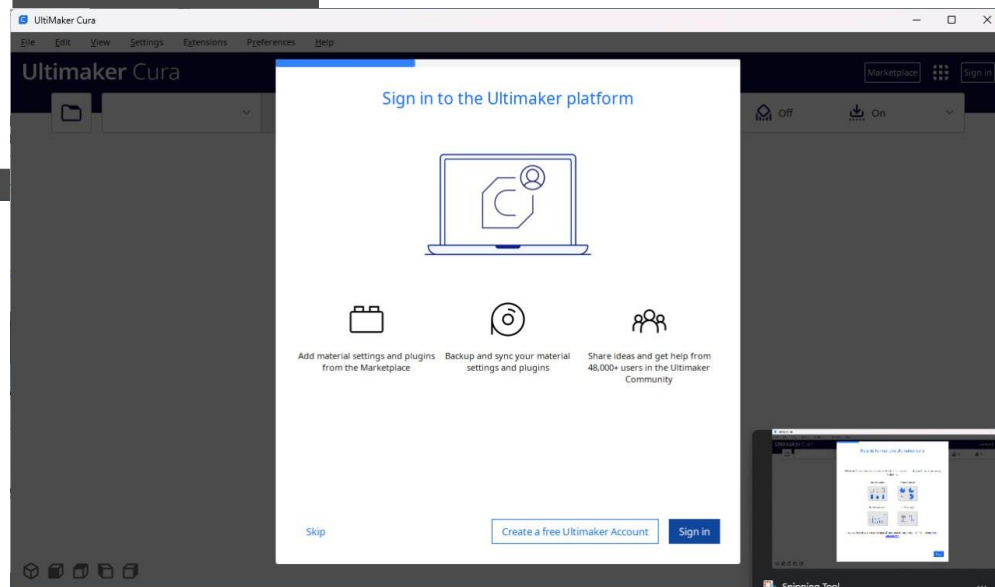
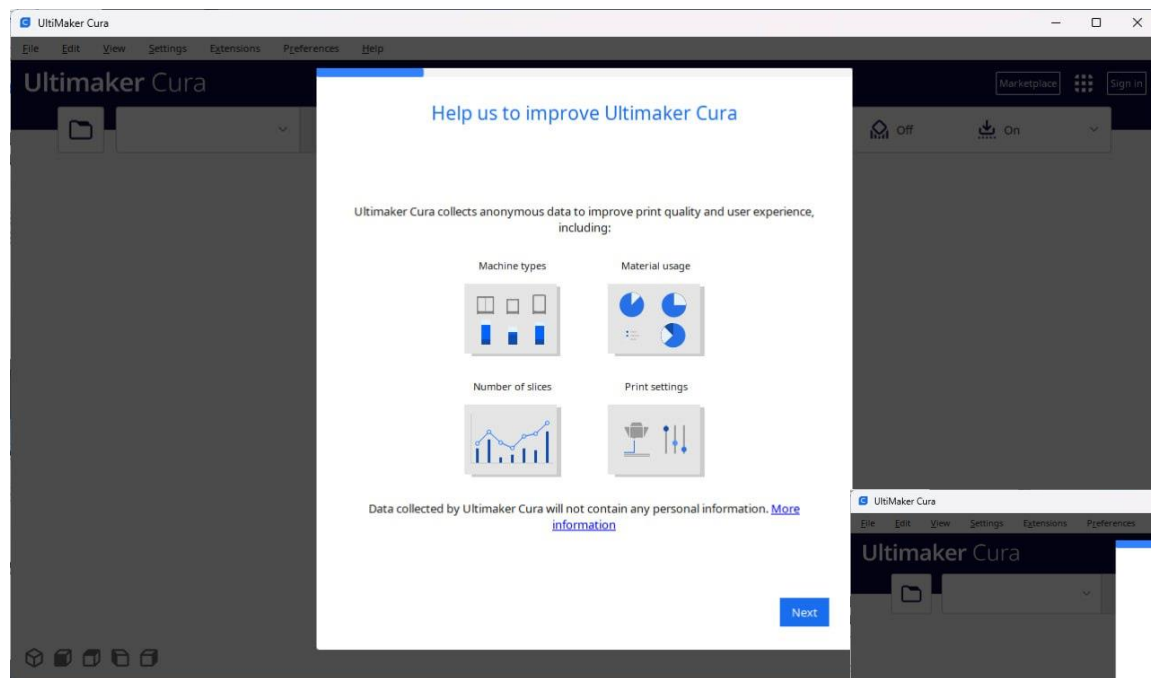




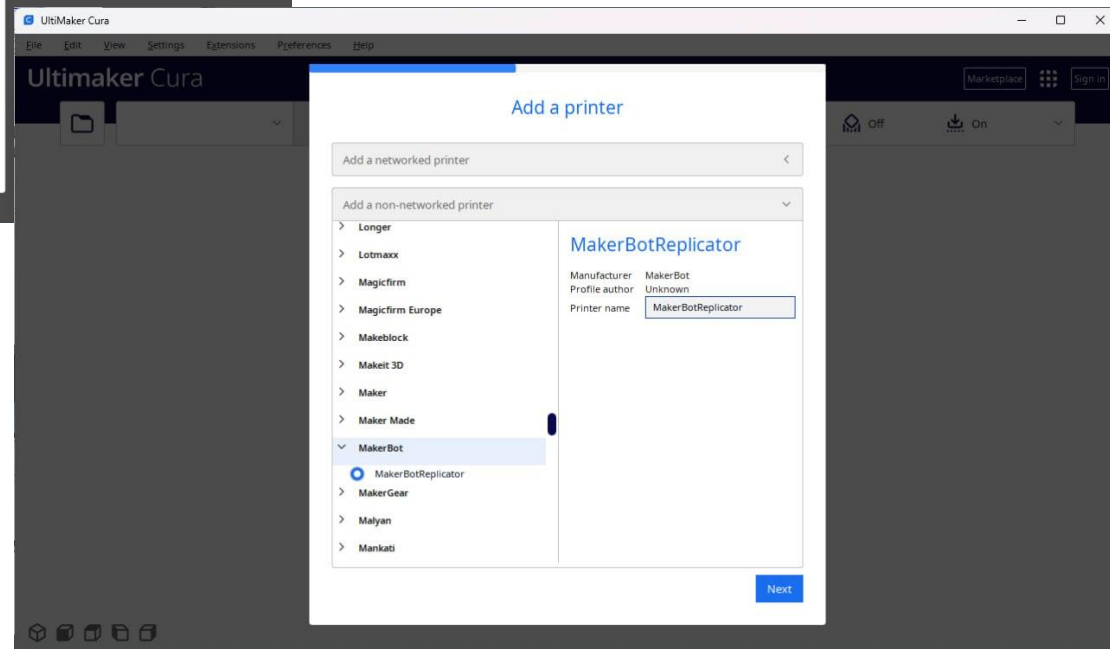
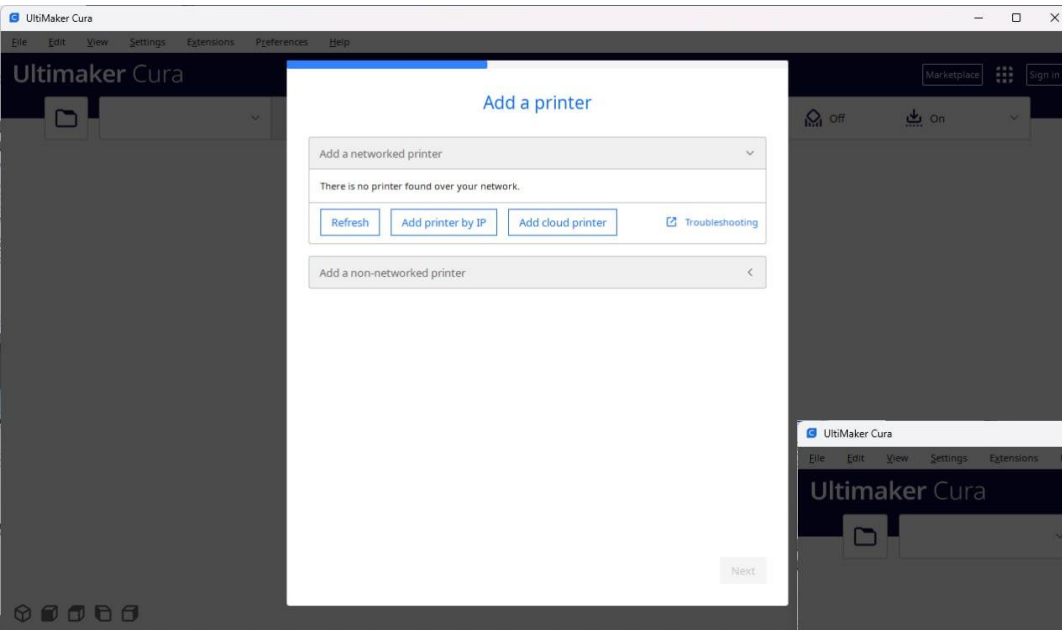
# Inicialização Software



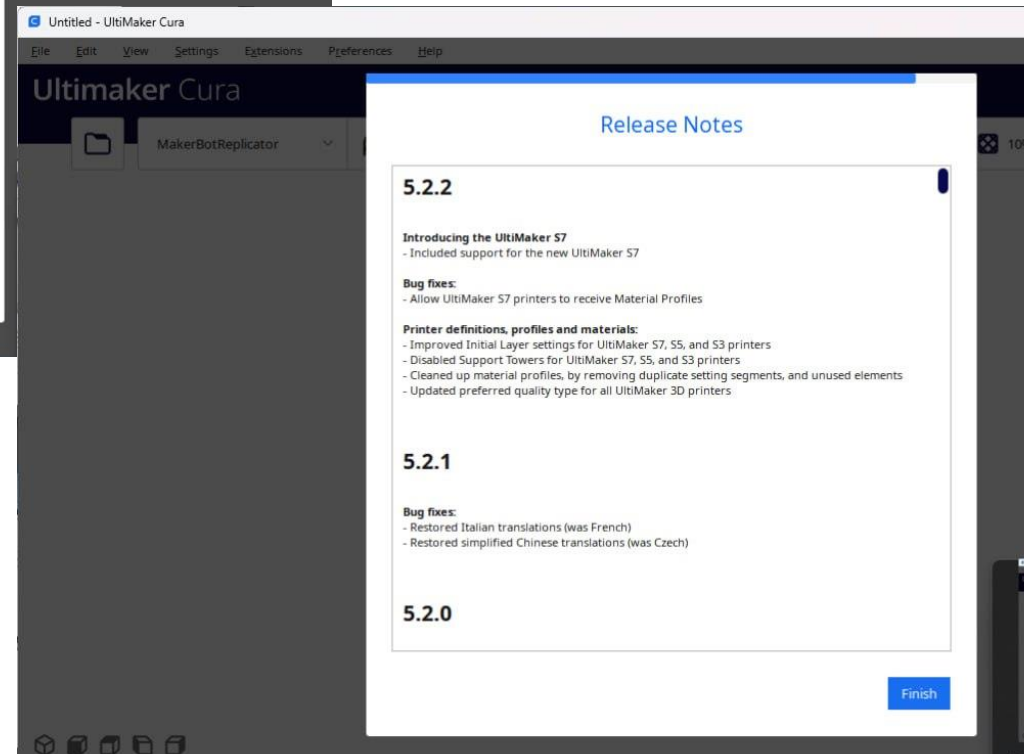
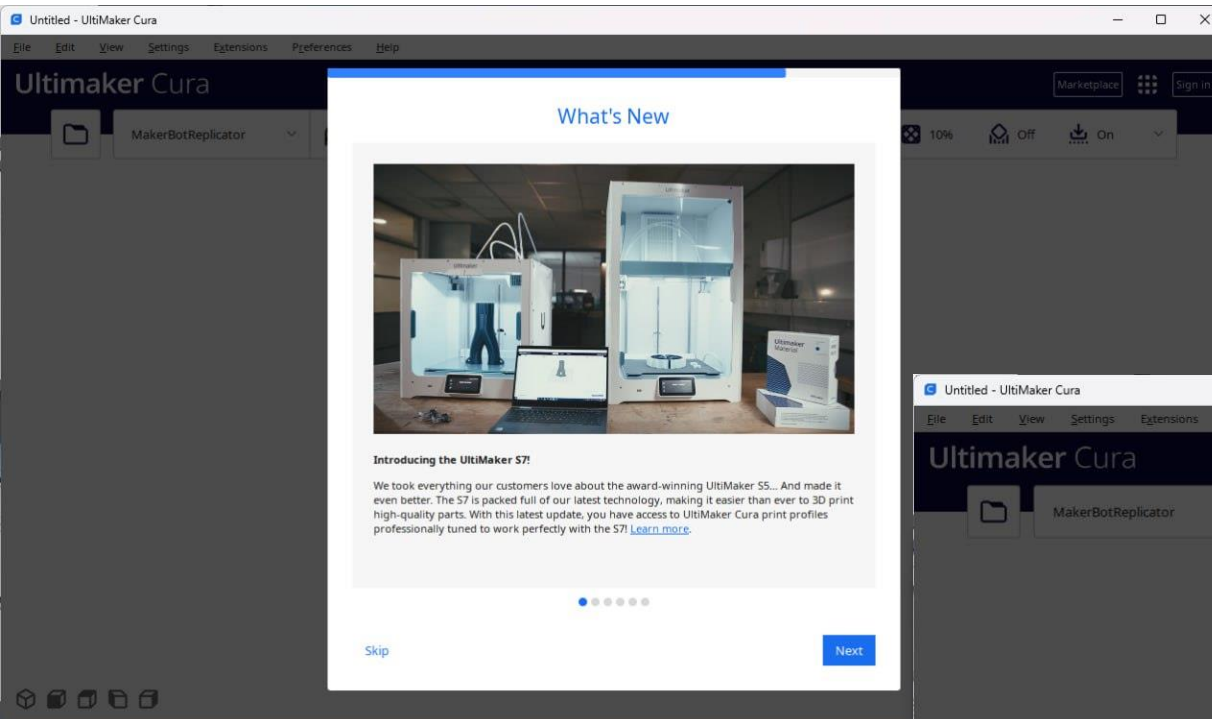
# Inicialização Software

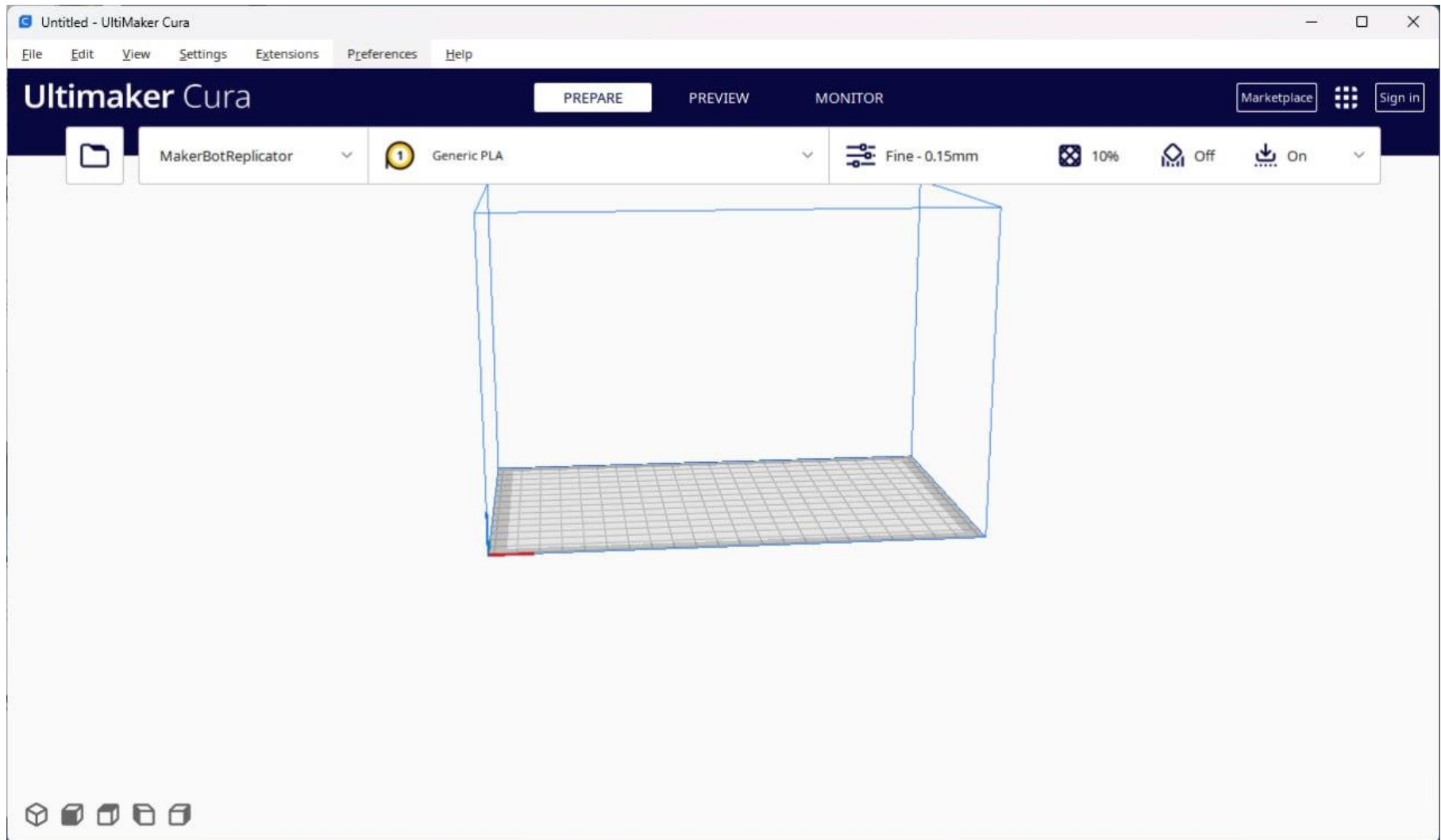


# Configuração MakerBot

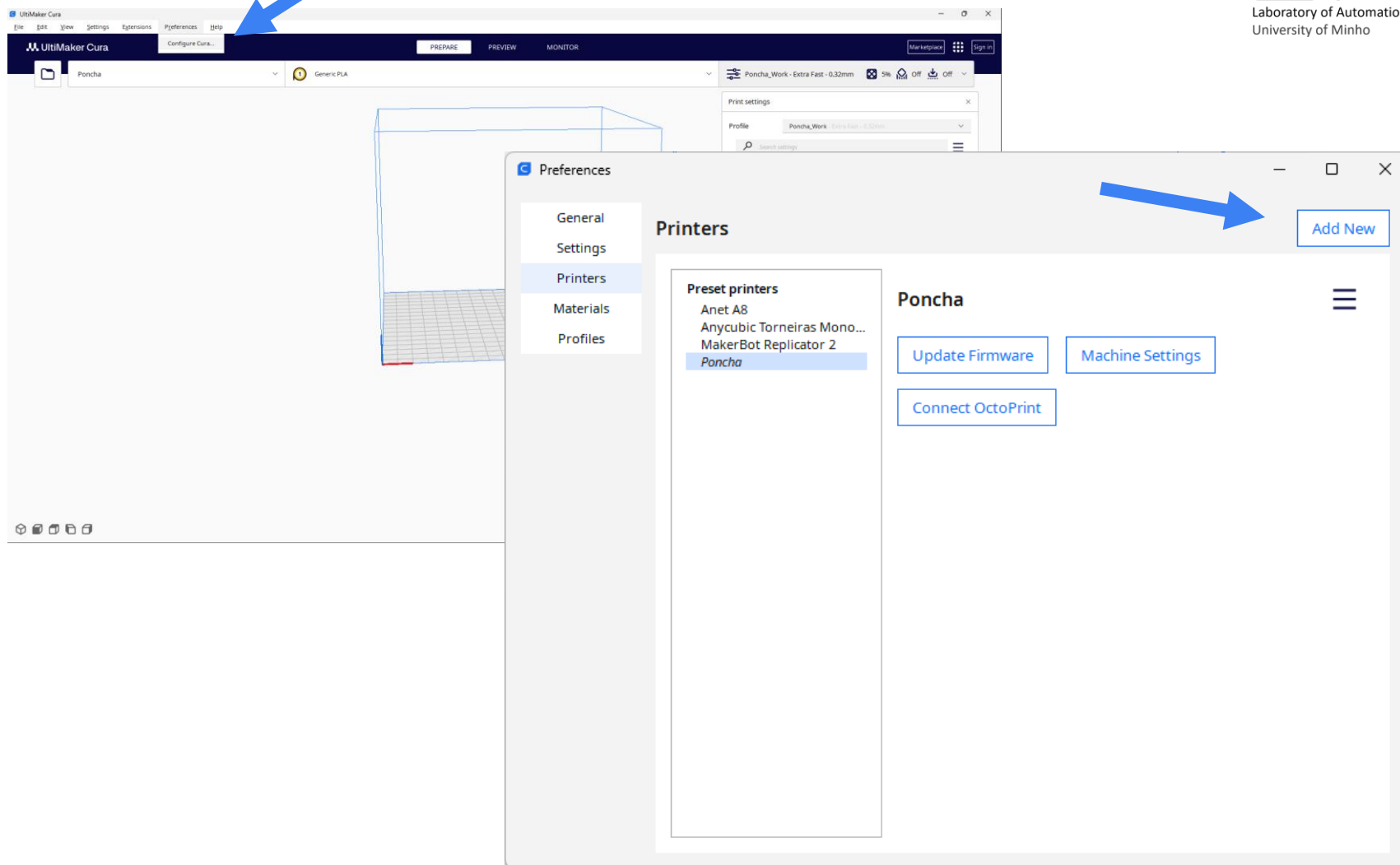


# Adds.....



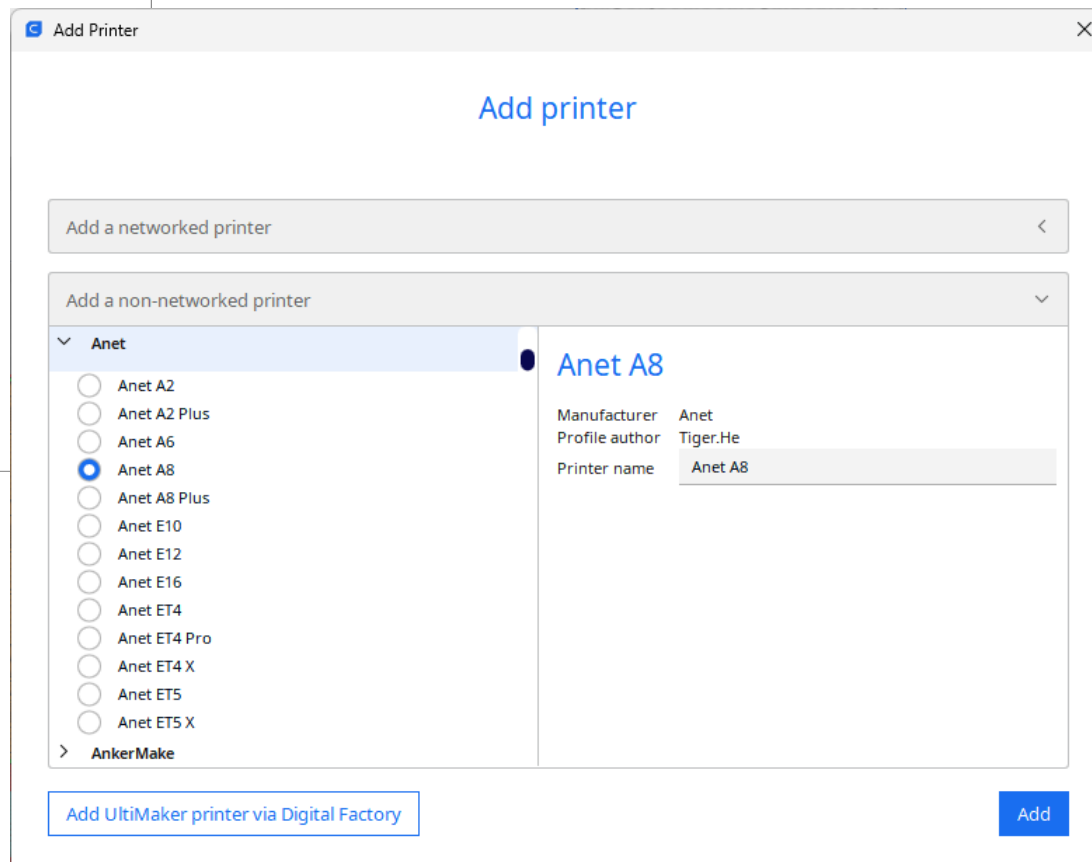
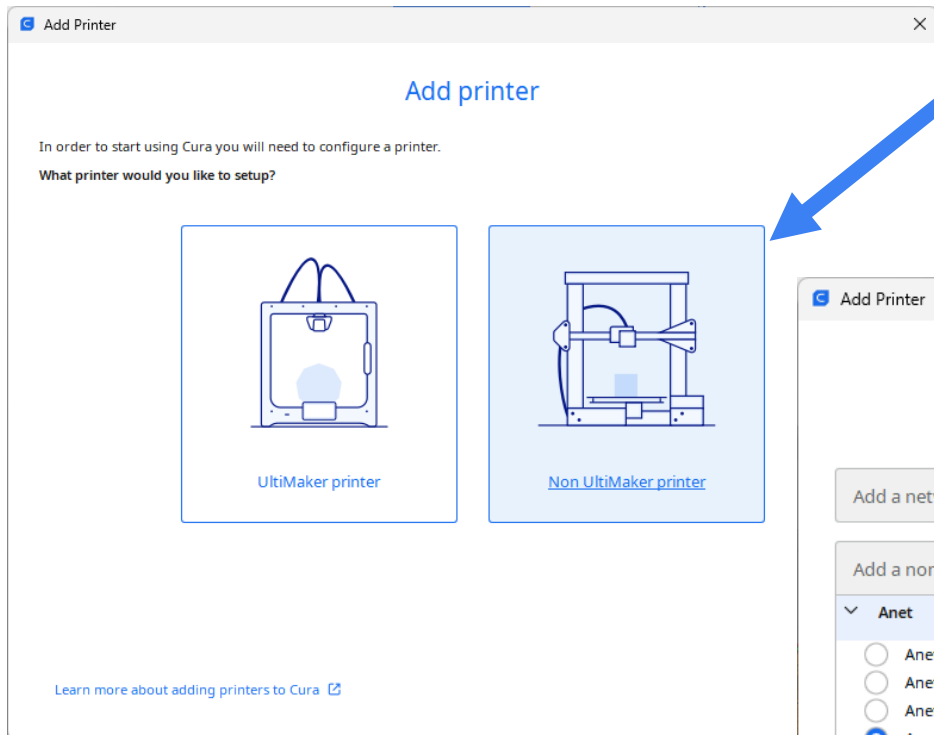


# Como adicionar a impressora Anet A8

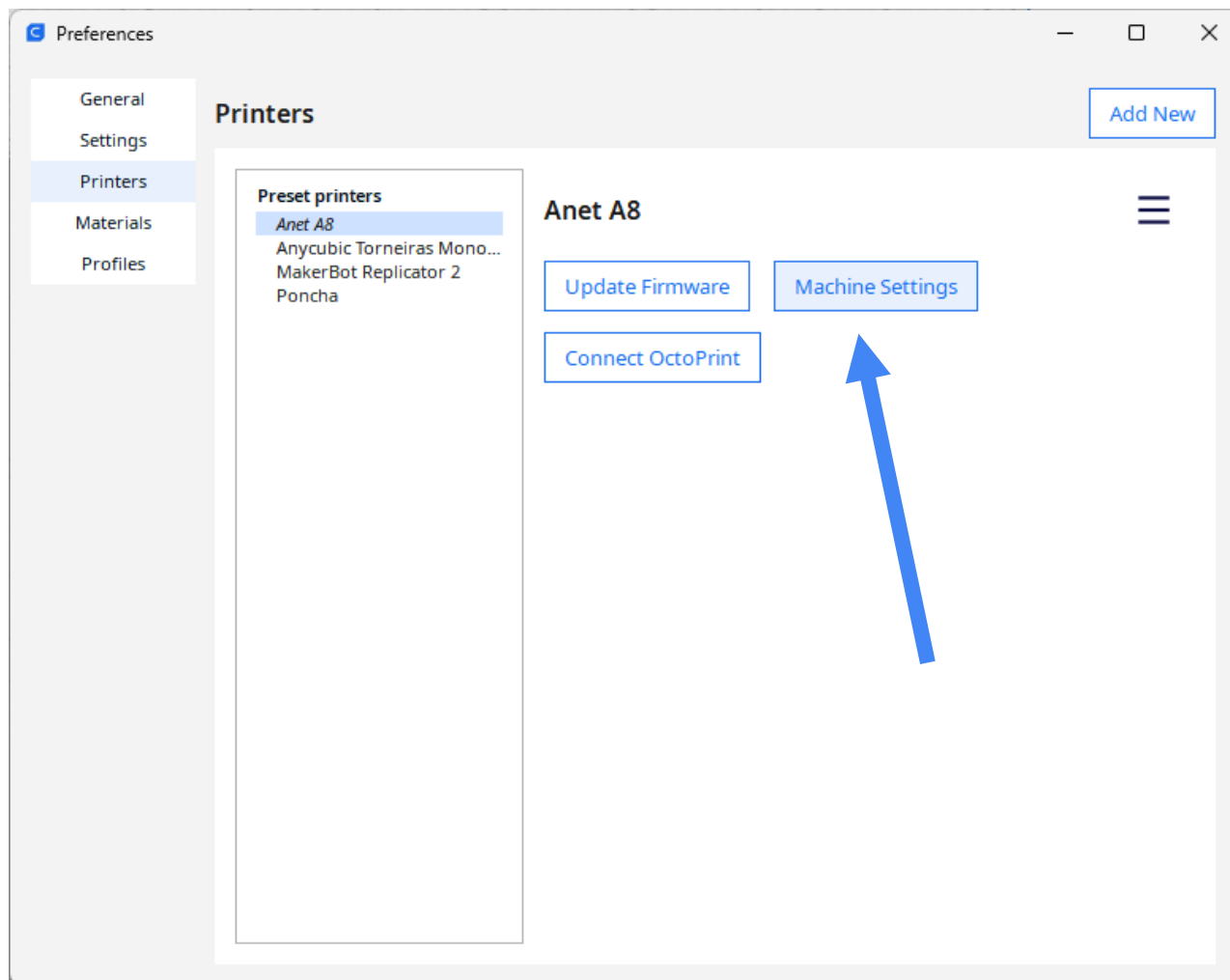


# Adicionar impressora

## Selecionar Anet A8

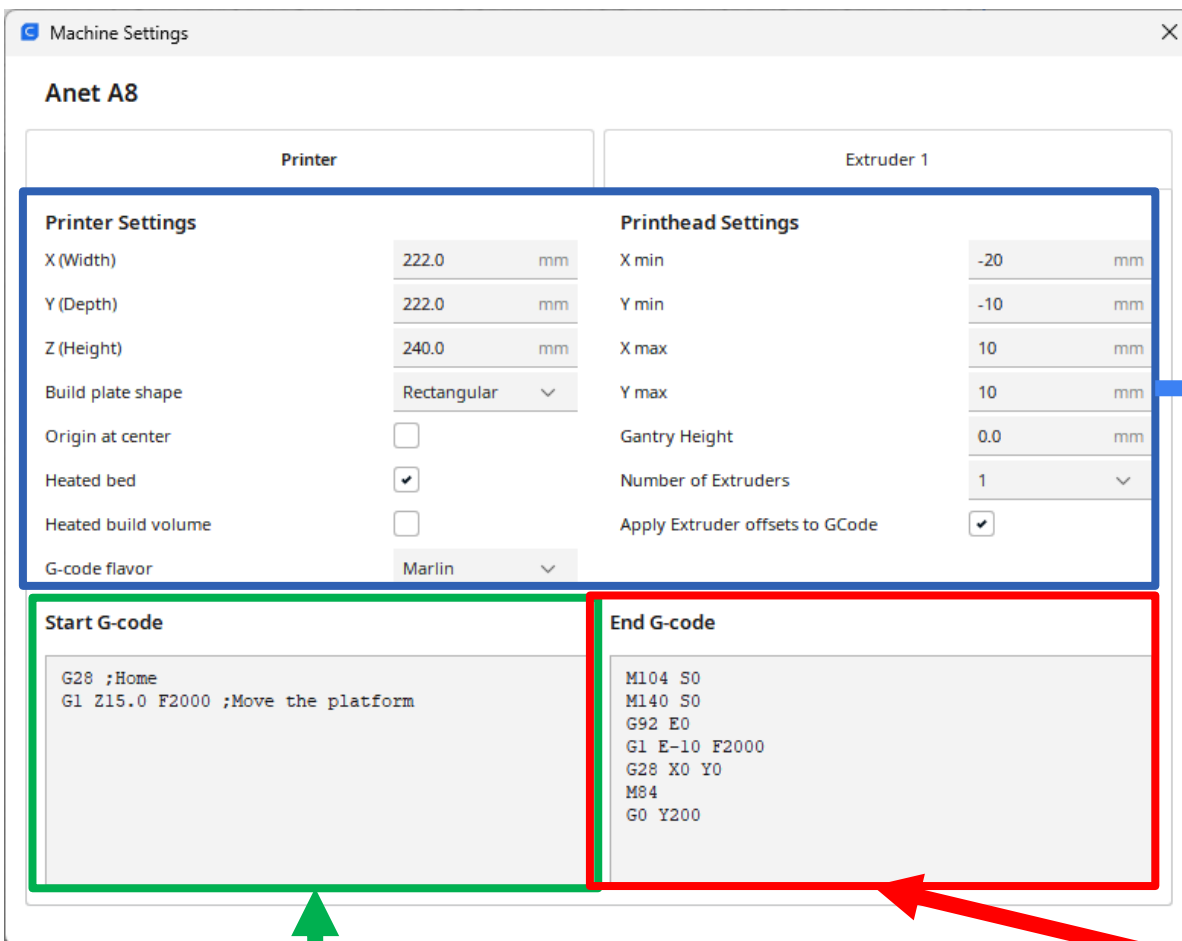


# Ir as definições da Anet A8





# Verificar os Settings



| Printer  |                                     | Extruder 1  |                                     |
|--|-------------------------------------|---|-------------------------------------|
| <b>Printer Settings</b>                                    |                                     | <b>Printhead Settings</b>   |                                     |
| X (Width)  | 222.0 mm                            | X min   | -20 mm                              |
| Y (Depth)  | 222.0 mm                            | Y min   | -10 mm                              |
| Z (Height)   | 240.0 mm                            | X max   | 10 mm                               |
| Build plate shape  | Rectangular                         | Y max   | 10 mm                               |
| Origin at center   | <input type="checkbox"/>            | Gantry Height   | 0.0 mm                              |
| Heated bed   | <input checked="" type="checkbox"/> | Number of Extruders   | 1                                   |
| Heated build volume  | <input type="checkbox"/>            | Apply Extruder offsets to GCode   | <input checked="" type="checkbox"/> |
| G-code flavor  | Marlin                              |   |                                     |
| <b>Start G-code</b>  |                                     | <b>End G-code</b>   |                                     |
| <pre>G28 ;Home<br/>G1 Z15.0 F2000 ;Move the platform</pre> |                                     | <pre>M104 S0<br/>M140 S0<br/>G92 E0<br/>G1 E-10 F2000<br/>G28 X0 Y0<br/>M84<br/>G0 Y200</pre> |                                     |

Colocar TODAS as caixas e os valores iguais a estes

Se os valores e caixas não forem colocados igual aos da imagem a impressora não vai funcionar corretamente e pode entupir e até mesmo estragar algum dos motores. Verificar todos os valores antes de avançar de slide.

Ver ficheiro Anet\_A8\_start.txt

Ver ficheiro Anet\_A8\_end.txt

# Verificar os settings do extrusor

Machine Settings

Anet A8

Printer

Extruder 1

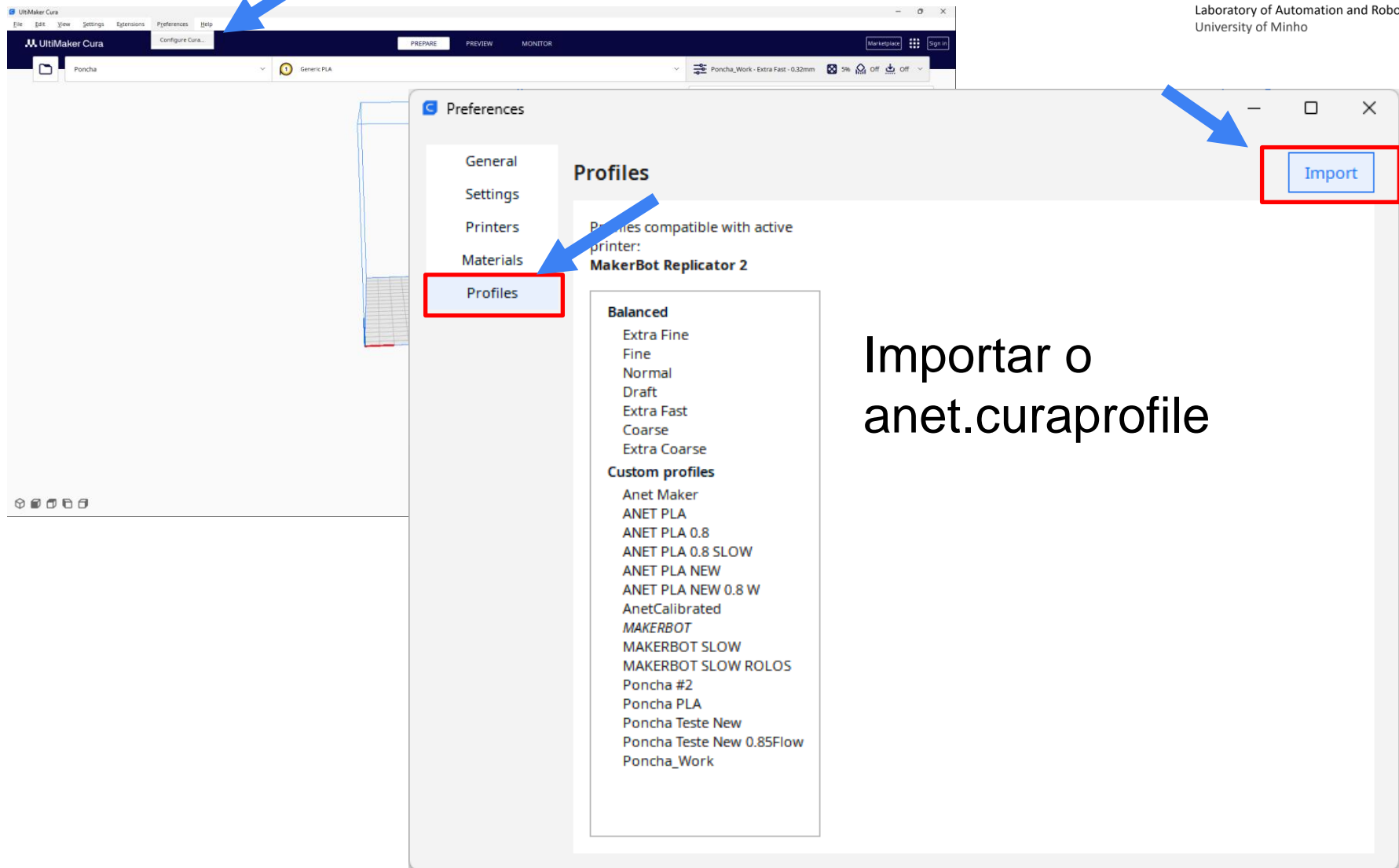
Nozzle Settings

|                              |      |    |
|------------------------------|------|----|
| Nozzle size                  | 0.6  | mm |
| Compatible material diameter | 1.75 | mm |
| Nozzle offset X              | 0.0  | mm |
| Nozzle offset Y              | 0.0  | mm |
| Cooling Fan Number           | 0    |    |

Extruder Start G-code

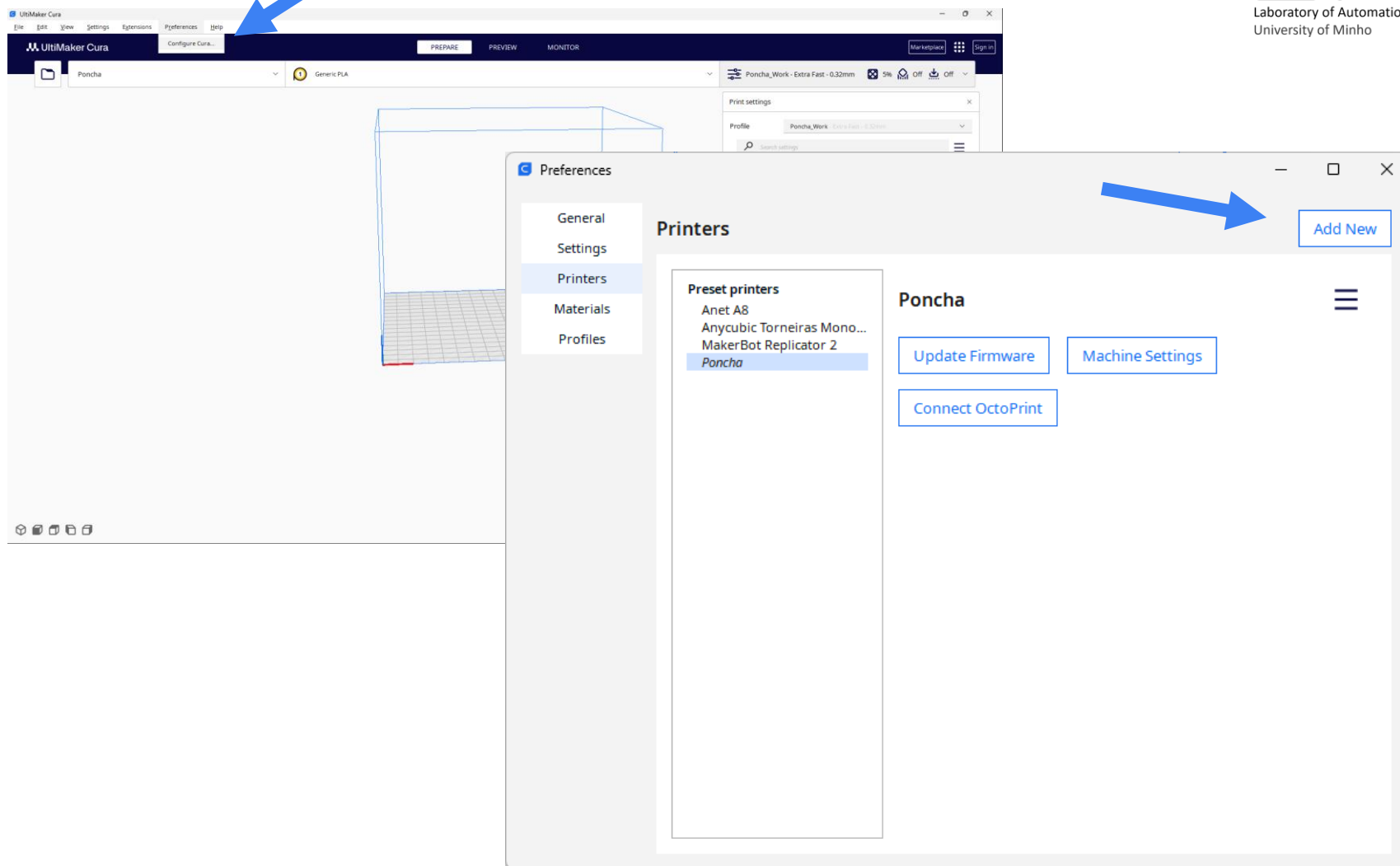
Extruder End G-code

Após a configuração anterior vão encontrar o seguinte ambiente, e ainda é necessário colocar as respetivas configurações de impressão. Voltar a ir aos settings.



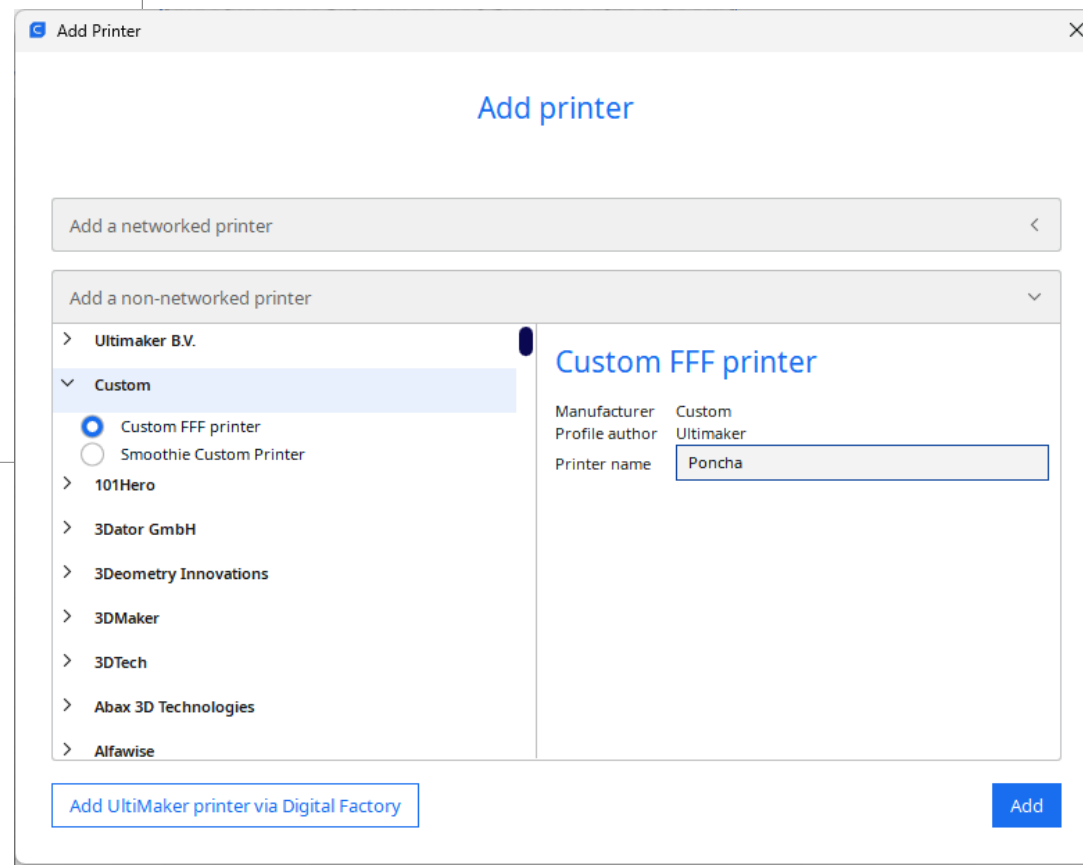
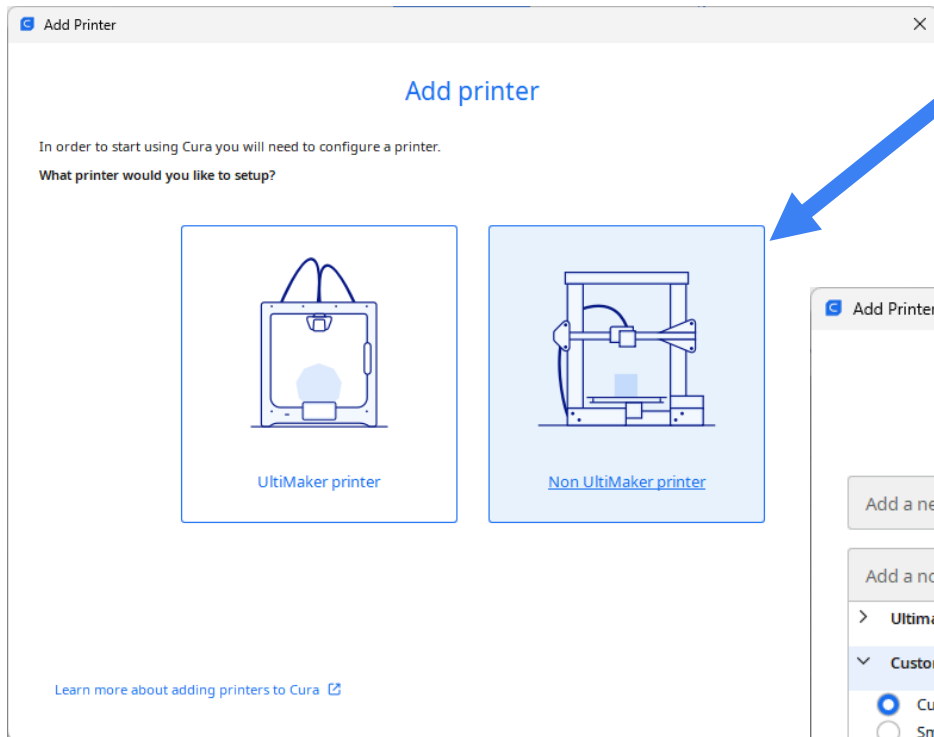
Importar o  
anet.curaprofile

# Como adicionar a impressora Poncha

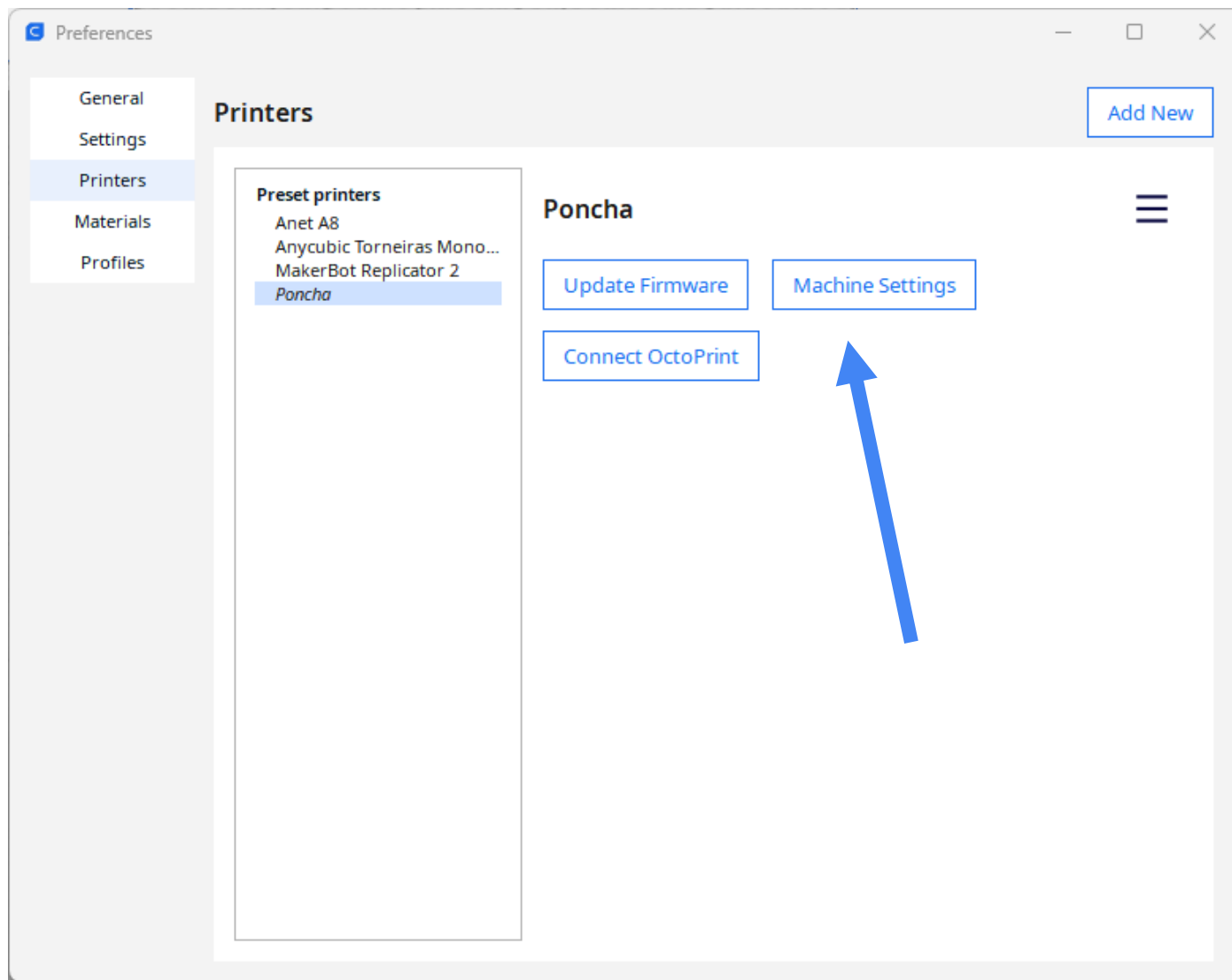


# Adicionar impressora

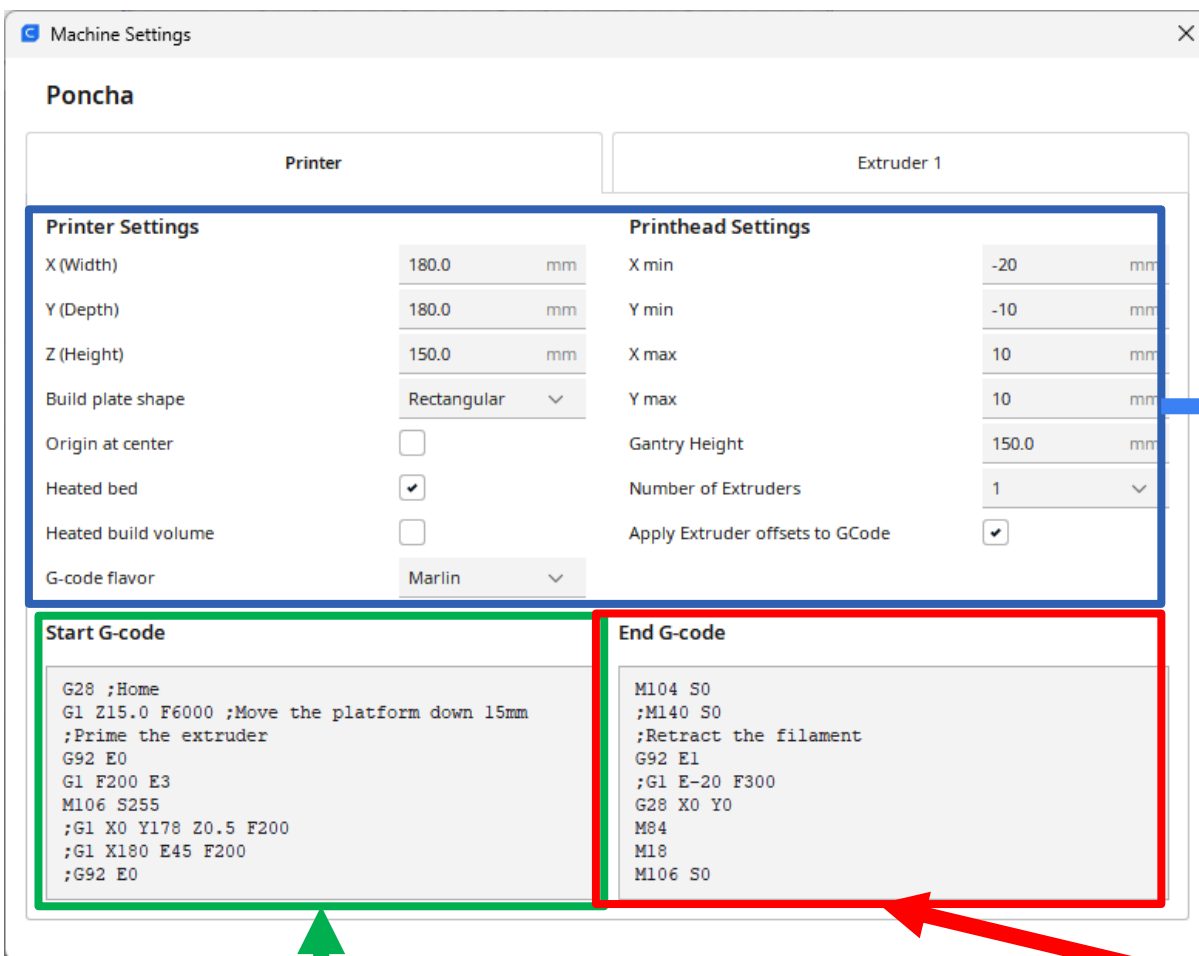
## Selecionar Custom FFF -> Nome: Poncha



# Ir as definições da Anet A8



# Verificar os Settings



**Machine Settings**

**Poncha**

**Printer**

**Printer Settings**

|                     |                                     |    |
|---------------------|-------------------------------------|----|
| X (Width)           | 180.0                               | mm |
| Y (Depth)           | 180.0                               | mm |
| Z (Height)          | 150.0                               | mm |
| Build plate shape   | Rectangular                         | ▼  |
| Origin at center    | <input type="checkbox"/>            |    |
| Heated bed          | <input checked="" type="checkbox"/> |    |
| Heated build volume | <input type="checkbox"/>            |    |
| G-code flavor       | Marlin                              | ▼  |

**Start G-code**

```
G28 ;Home
G1 Z15.0 F6000 ;Move the platform down 15mm
;Prime the extruder
G92 E0
G1 F200 E3
M106 S255
;G1 X0 Y178 Z0.5 F200
;G1 X180 E45 F200
;G92 E0
```

**Extruder 1**

**Printhead Settings**

|                                 |                                     |    |
|---------------------------------|-------------------------------------|----|
| X min                           | -20                                 | mm |
| Y min                           | -10                                 | mm |
| X max                           | 10                                  | mm |
| Y max                           | 10                                  | mm |
| Gantry Height                   | 150.0                               | mm |
| Number of Extruders             | 1                                   | ▼  |
| Apply Extruder offsets to GCode | <input checked="" type="checkbox"/> |    |

**End G-code**

```
M104 S0
;M140 S0
;Retract the filament
G92 E1
;G1 E-20 F300
G28 X0 Y0
M84
M18
M106 S0
```

Colocar TODAS as caixas e os valores iguais a estes

Se os valores e caixas nao forem colocados igual aos da imagem a impressora nao vai funcionar corretamente e pode entupir e ate mesmo estragar algum dos motores. Verificar todos os valores antes de avançar de slide.

Ver ficheiro Poncha\_start.txt

Ver ficheiro Poncha\_end.txt

# Verificar os settings do extrusor

Machine Settings

Poncha

Printer

Nozzle Settings

|                              |      |    |
|------------------------------|------|----|
| Nozzle size                  | 0.4  | mm |
| Compatible material diameter | 1.75 | mm |
| Nozzle offset X              | 0.0  | mm |
| Nozzle offset Y              | 0.0  | mm |
| Cooling Fan Number           | 1    |    |

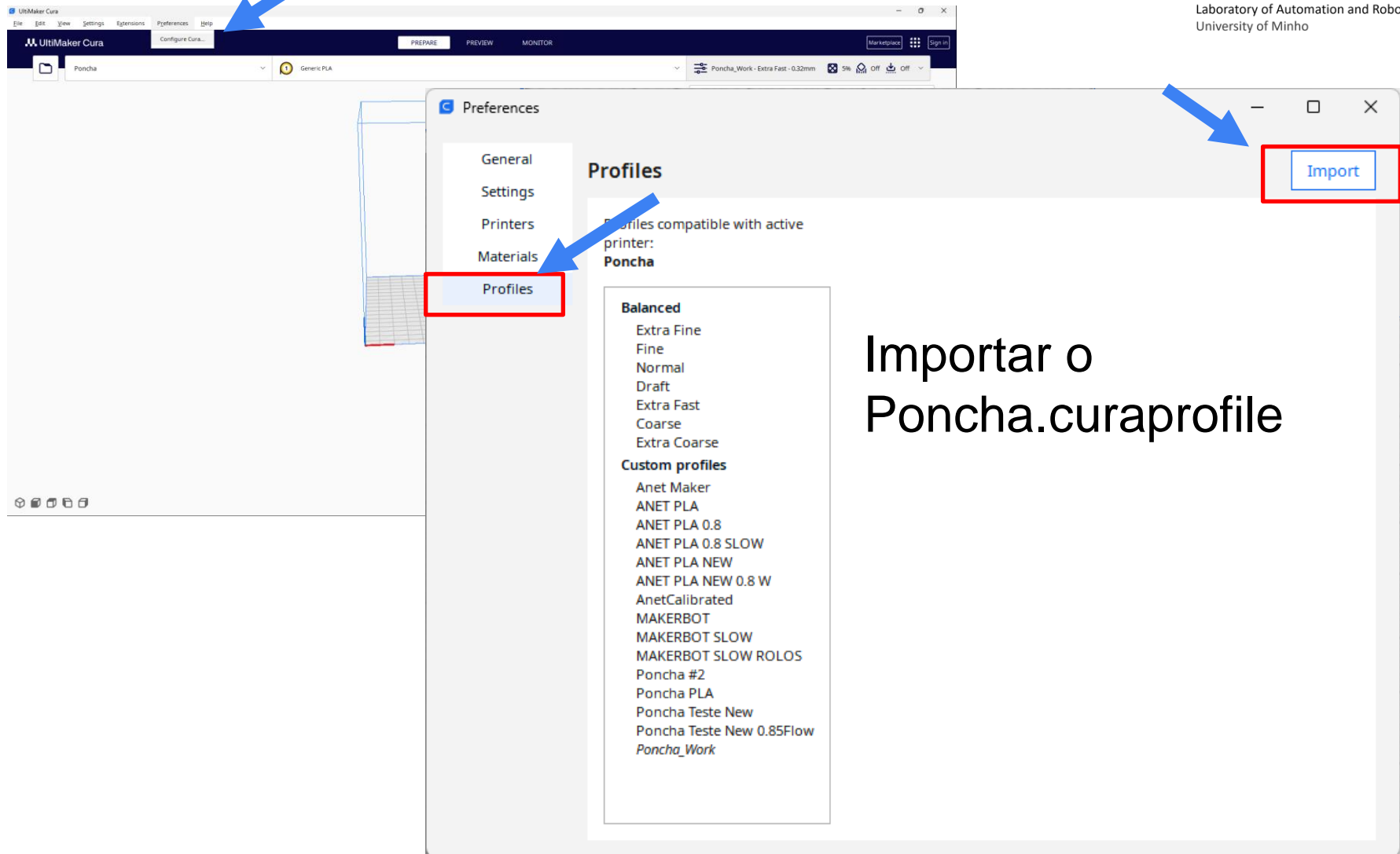
Extruder 1

Extruder Start G-code

Extruder End G-code

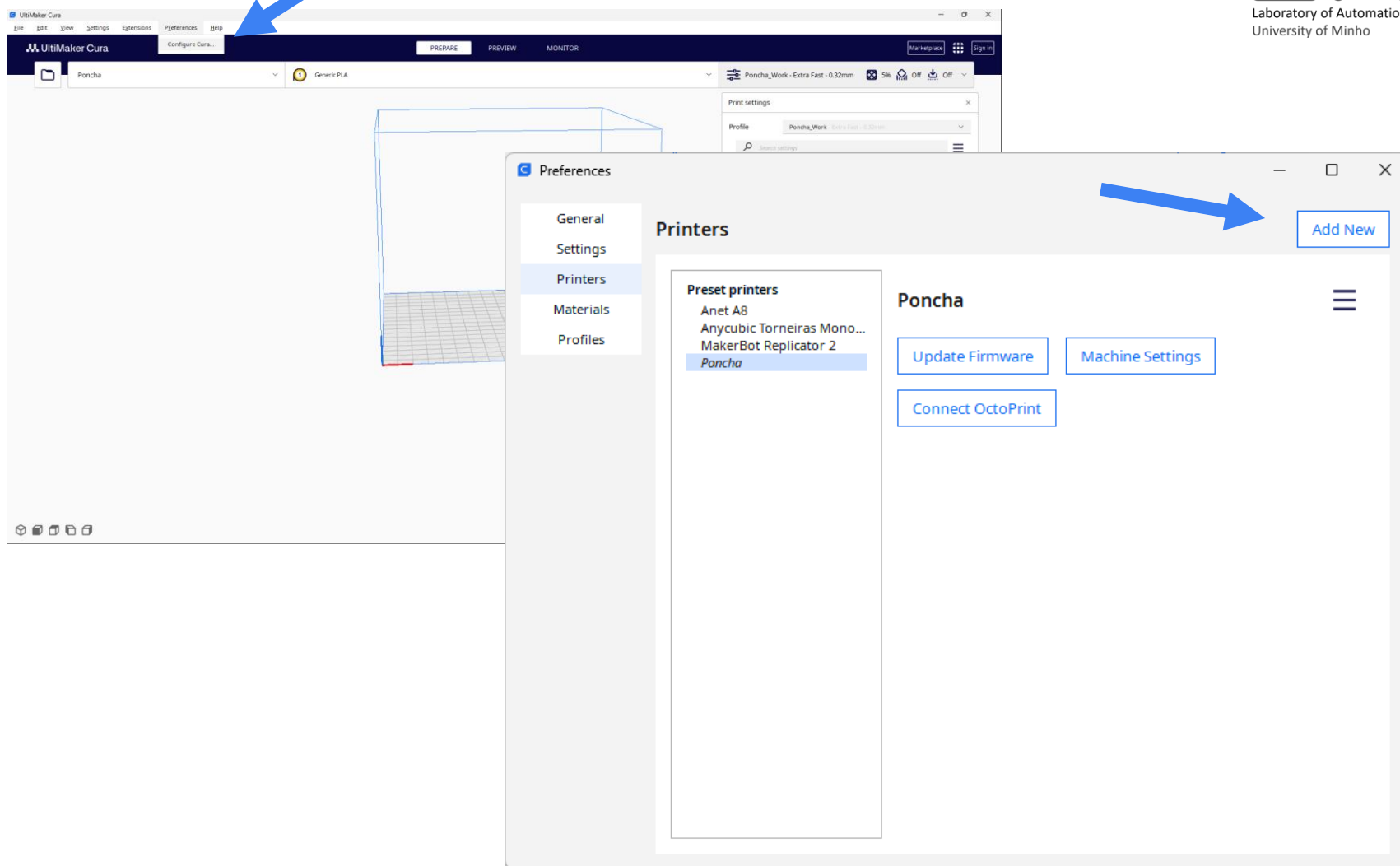


Após a configuração anterior vão encontrar o seguinte ambiente, e ainda é necessário colocar as respetivas configurações de impressão. Voltar a ir aos settings.



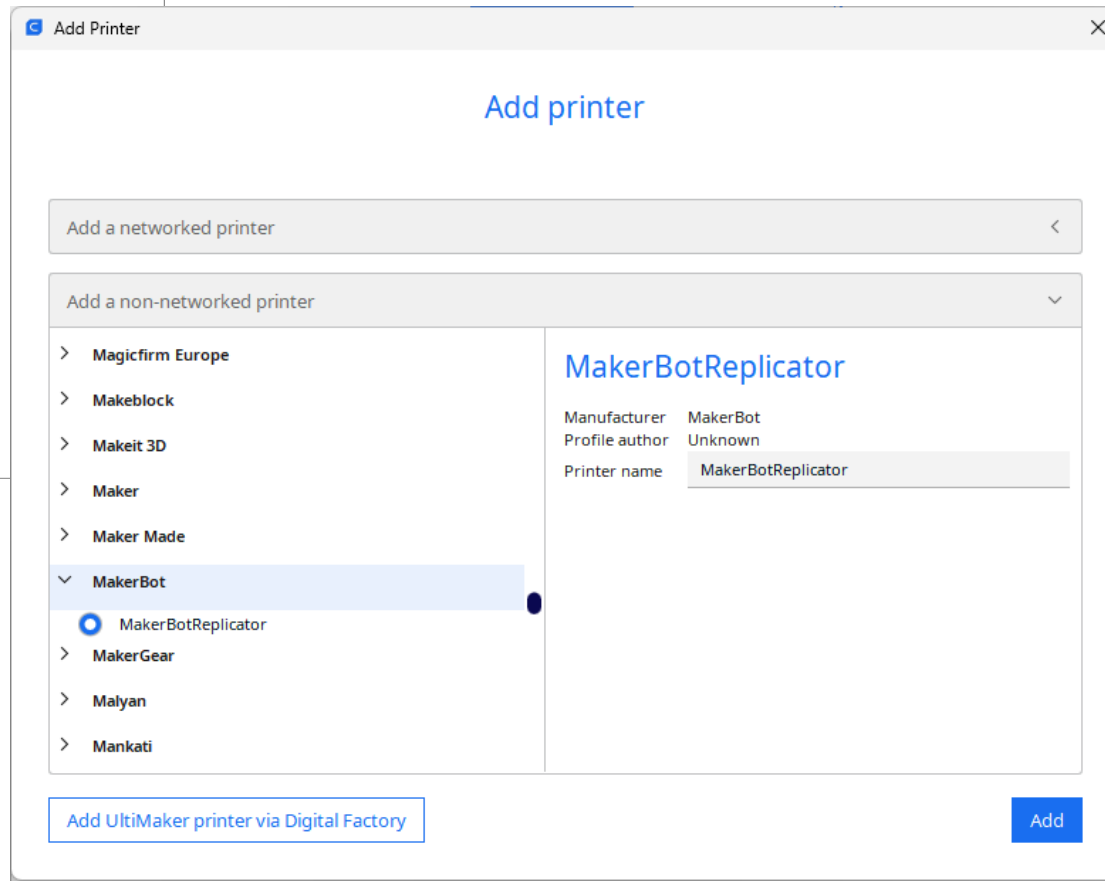
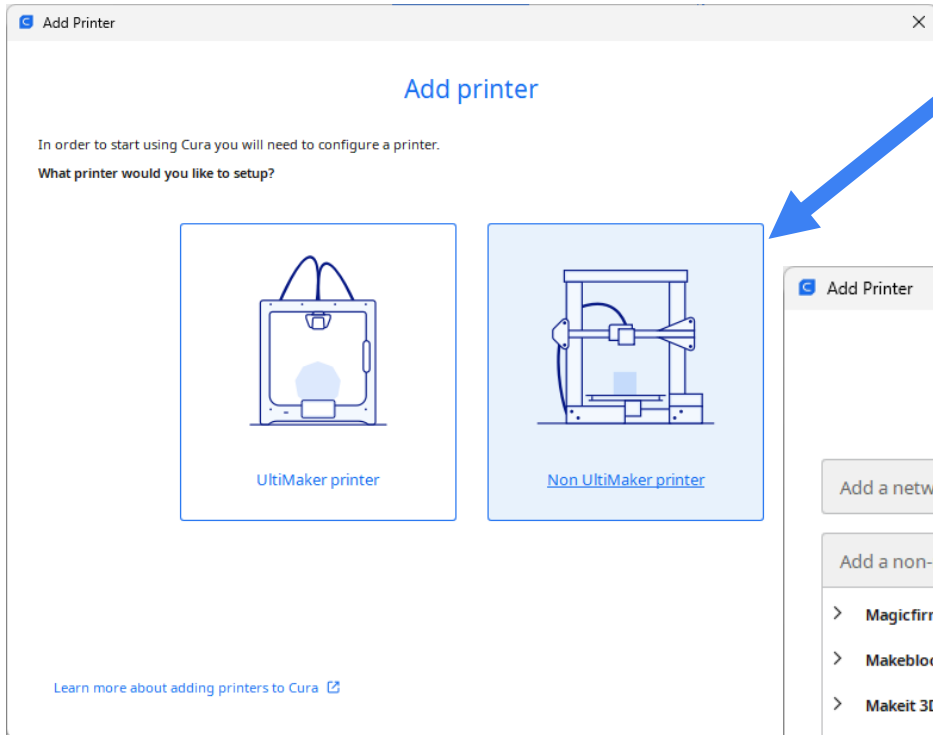
Importar o  
Poncha.curaprofile

# Como adicionar a impressora MakerBot Replicator 2



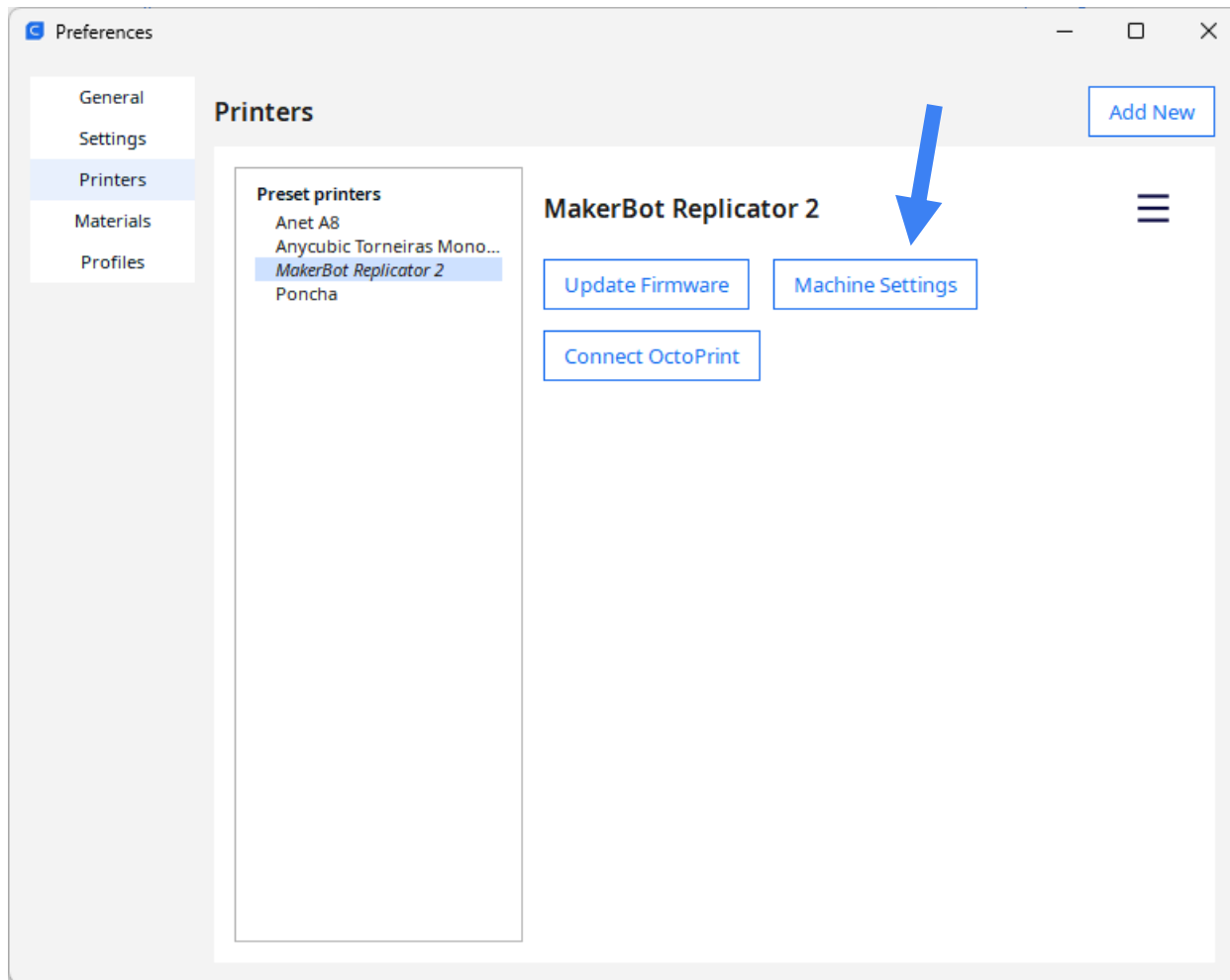
# Adicionar impressora

## Selecionar MakerBot Replicator

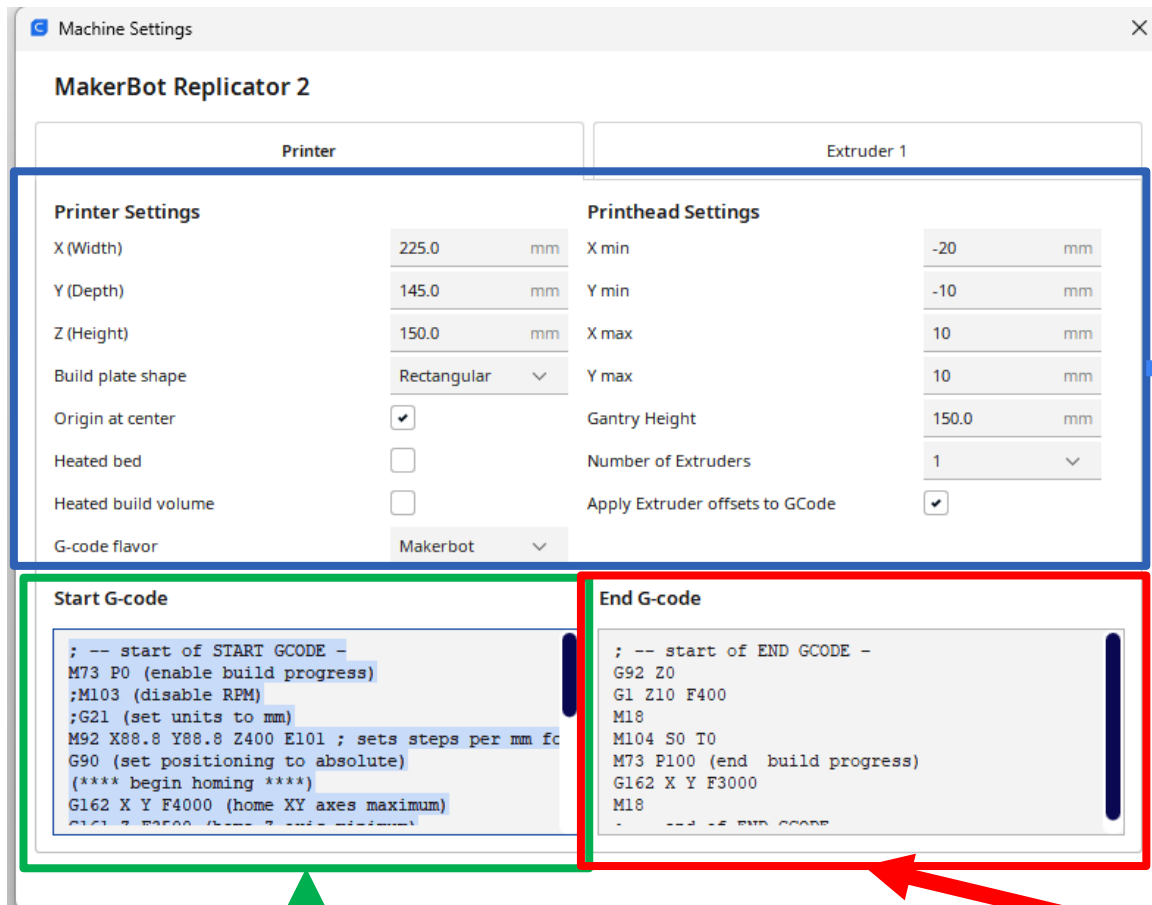


# MakerBot Replicator 2

## Ir as definições da maquina



# MakerBot Replicator 2 – Colocar os settings iguais



Machine Settings

### MakerBot Replicator 2

| Printer                 |                                     | Extruder 1                      |                                     |
|-------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| <b>Printer Settings</b> |                                     | <b>Printhead Settings</b>       |                                     |
| X (Width)               | 225.0 mm                            | X min                           | -20 mm                              |
| Y (Depth)               | 145.0 mm                            | Y min                           | -10 mm                              |
| Z (Height)              | 150.0 mm                            | X max                           | 10 mm                               |
| Build plate shape       | Rectangular                         | Y max                           | 10 mm                               |
| Origin at center        | <input checked="" type="checkbox"/> | Gantry Height                   | 150.0 mm                            |
| Heated bed              | <input type="checkbox"/>            | Number of Extruders             | 1                                   |
| Heated build volume     | <input type="checkbox"/>            | Apply Extruder offsets to GCode | <input checked="" type="checkbox"/> |
| G-code flavor           | Makerbot                            |                                 |                                     |

**Start G-code**

```
-- start of START GCODE --
M73 P0 (enable build progress)
;M103 (disable RPM)
;G21 (set units to mm)
M92 X88.8 Y88.8 Z400 E101 ; sets steps per mm for
G90 (set positioning to absolute)
(**** begin homing ****)
G162 X Y F4000 (home XY axes maximum)
G162 Z F3000 (home Z axis maximum)
```

**End G-code**

```
-- start of END GCODE --
G92 Z0
G1 Z10 F400
M18
M104 S0 T0
M73 P100 (end build progress)
G162 X Y F3000
M18
-- end of END GCODE --
```

Colocar TODAS as caixas e os valores iguais a estes

Se os valores e caixas não forem colocados igual aos da imagem a impressora não vai funcionar corretamente e pode entupir e até mesmo estragar algum dos motores. Verificar todos os valores antes de avançar de slide.

Ver ficheiro Replicator\_2\_start.txt

Ver ficheiro Replicator\_2\_end.txt

# MakerBot Replicator 2 – confirmar extrusor

Machine Settings

## MakerBot Replicator 2

Printer

### Nozzle Settings

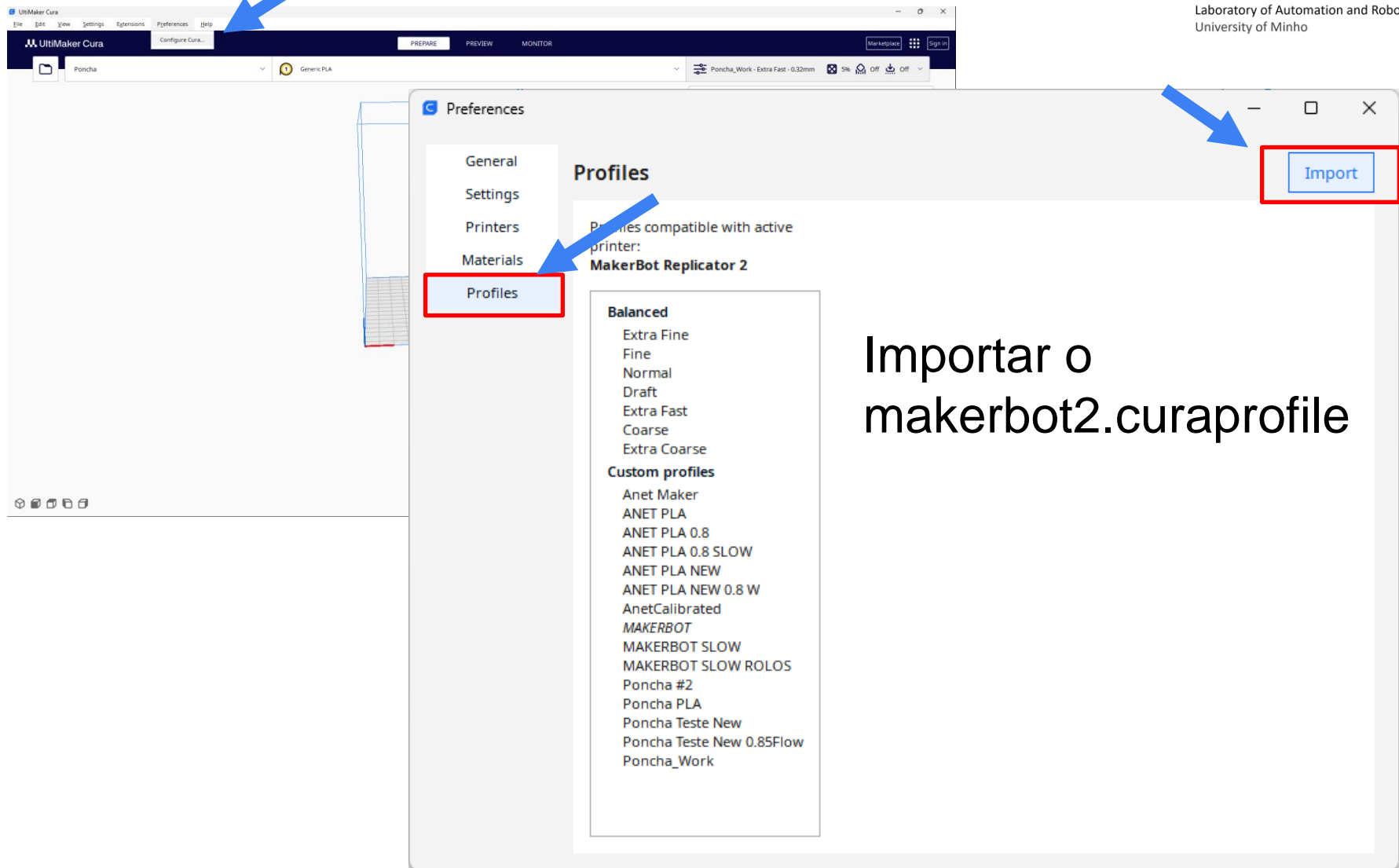
|                              |      |    |
|------------------------------|------|----|
| Nozzle size                  | 0.4  | mm |
| Compatible material diameter | 1.75 | mm |
| Nozzle offset X              | 0.0  | mm |
| Nozzle offset Y              | 0.0  | mm |
| Cooling Fan Number           | 0    |    |

### Extruder Start G-code

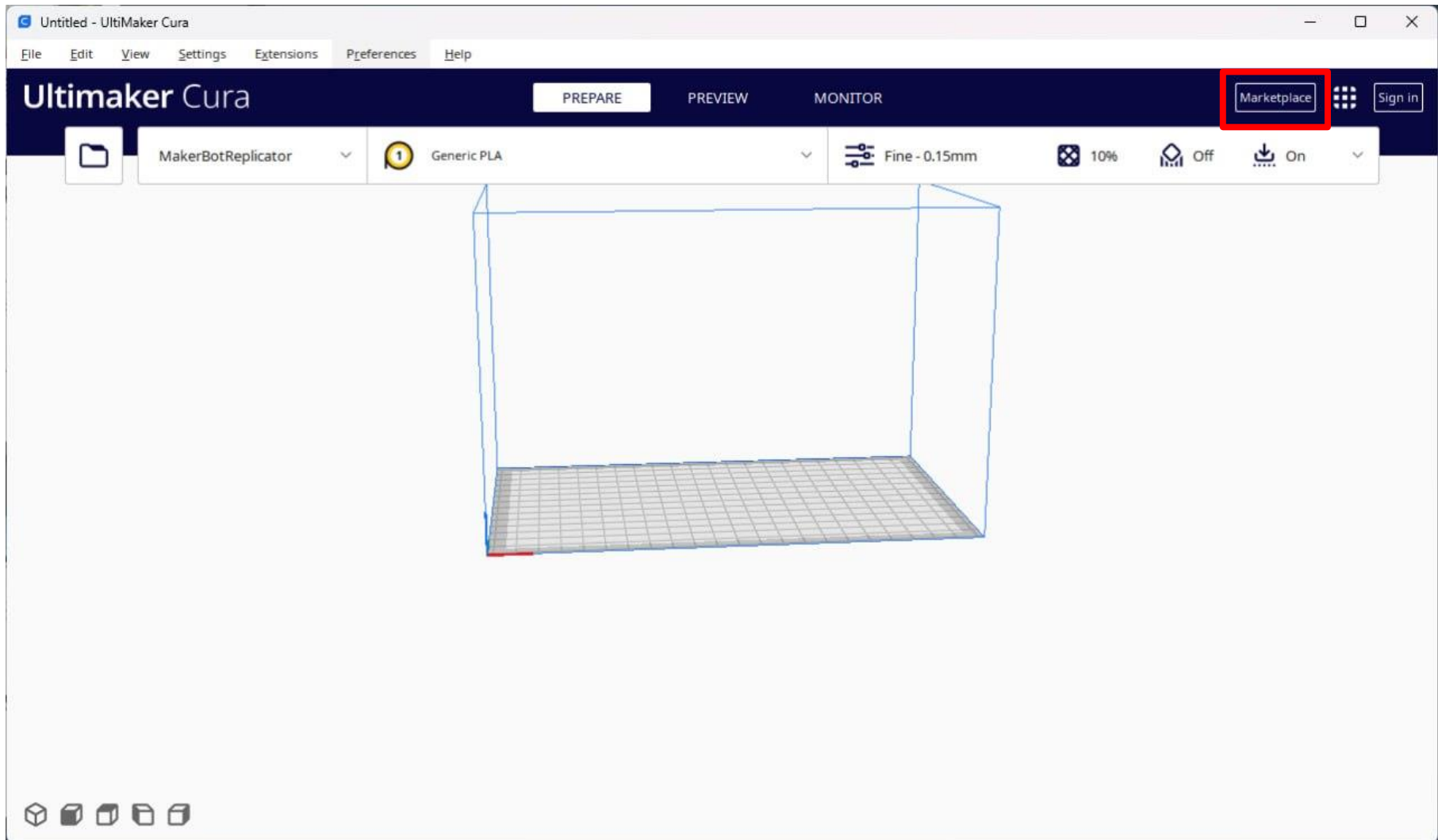
### Extruder End G-code

Extruder 1

Após a configuração anterior vão encontrar o seguinte ambiente, e ainda é necessário colocar as respetivas configurações de impressão. Voltar a ir aos settings.

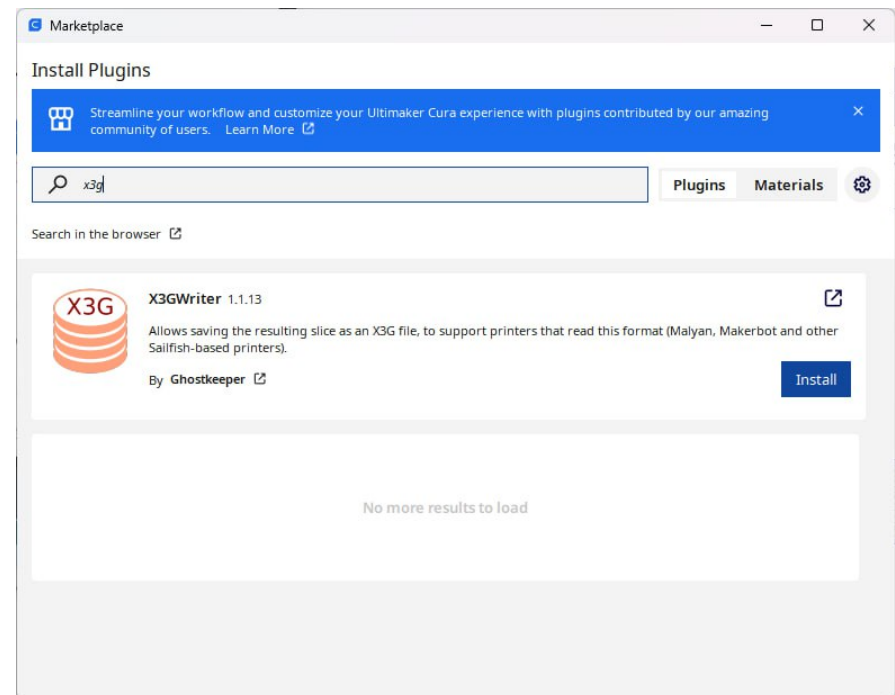
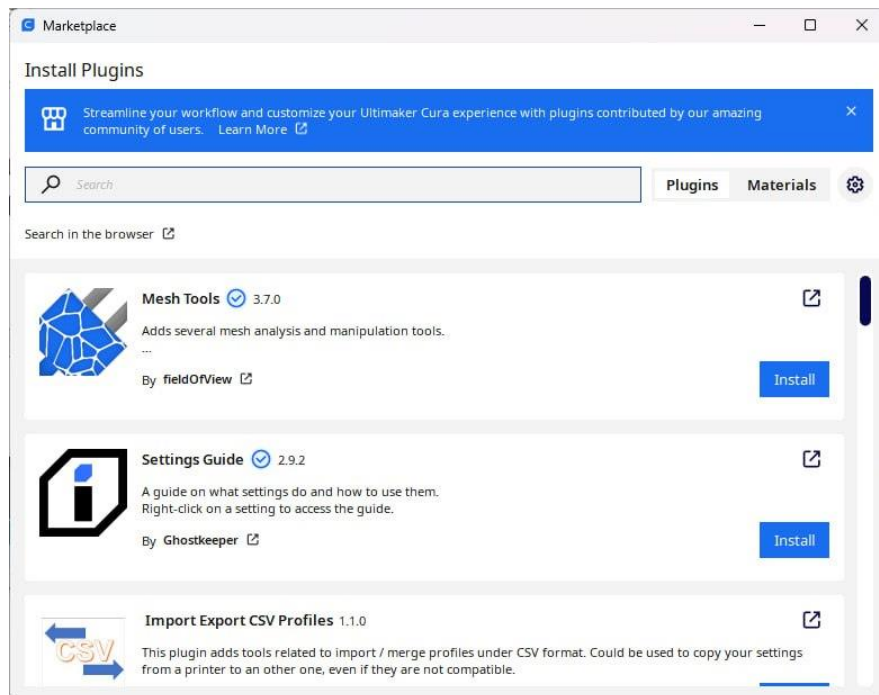


# Adicionar PlugIn para o X3G

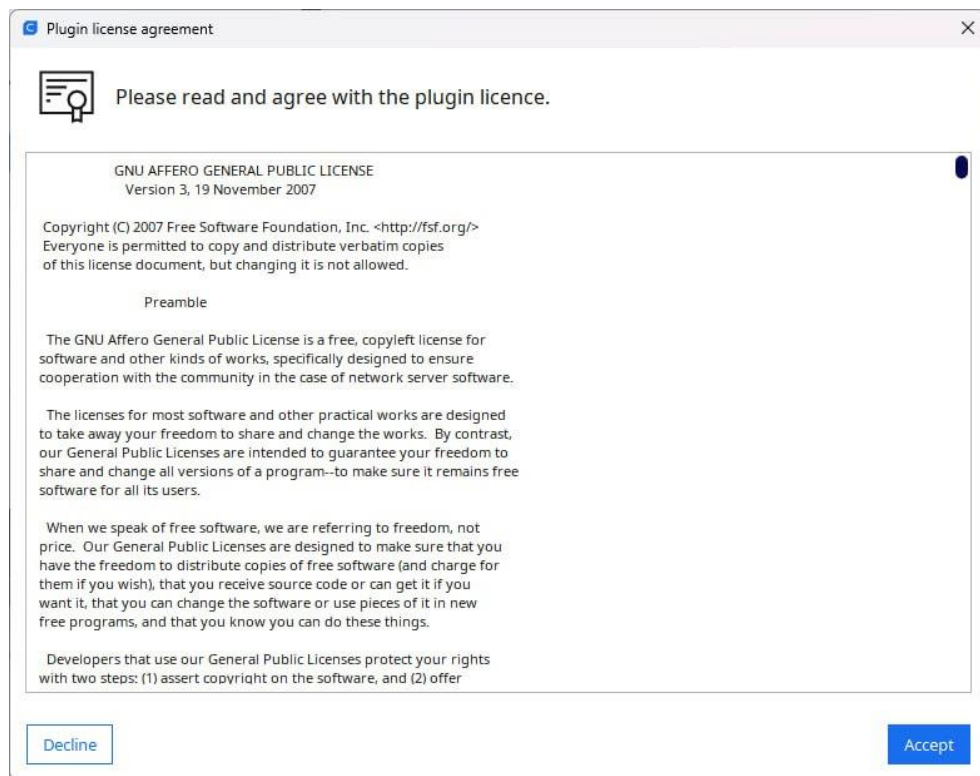




# Adicionar PlugIn para o X3G



# Adicionar PlugIn para o X3G



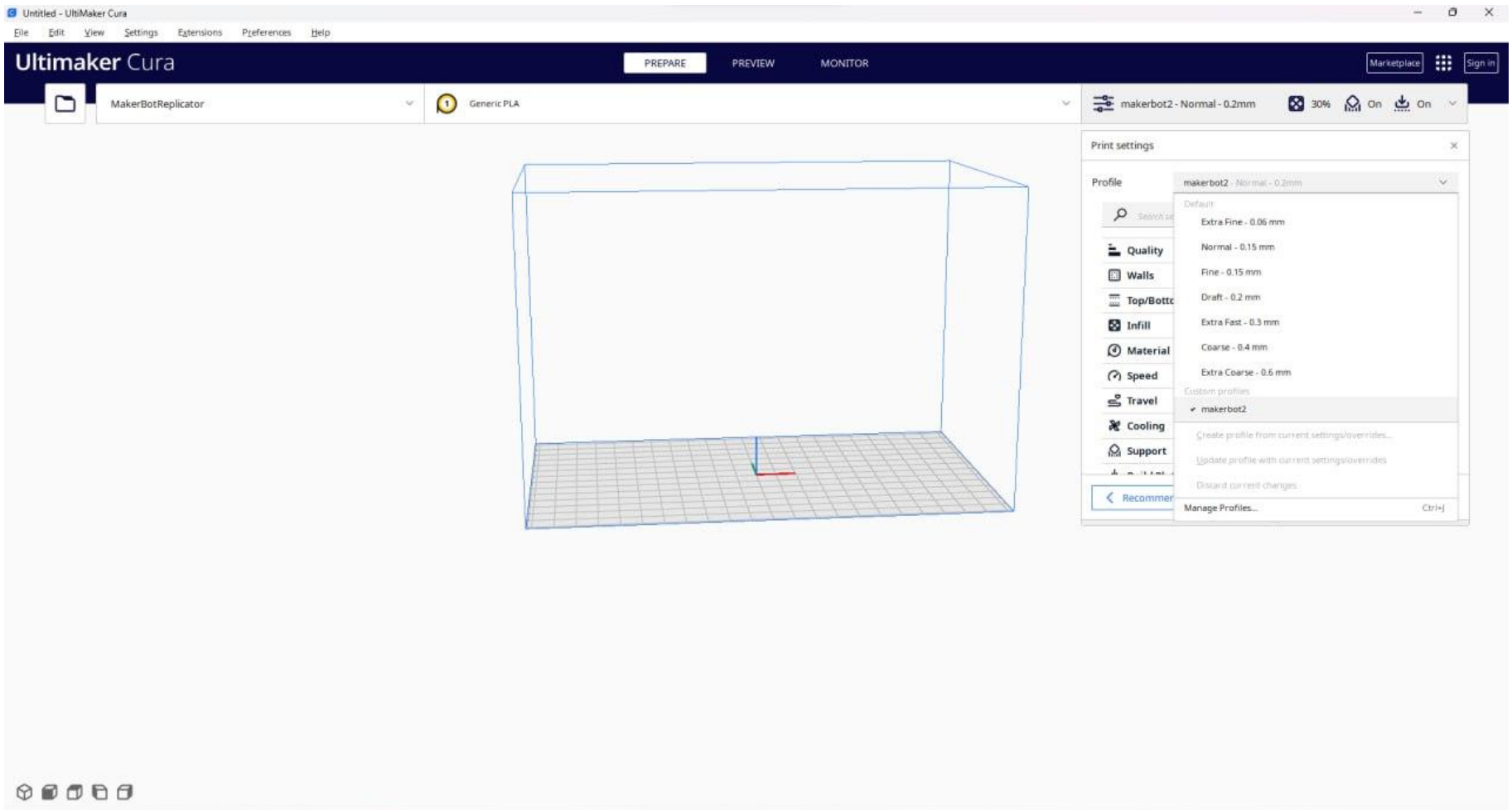
Após fazer a instalação do PlugIn é necessário reiniciar o Ultimaker Cura!



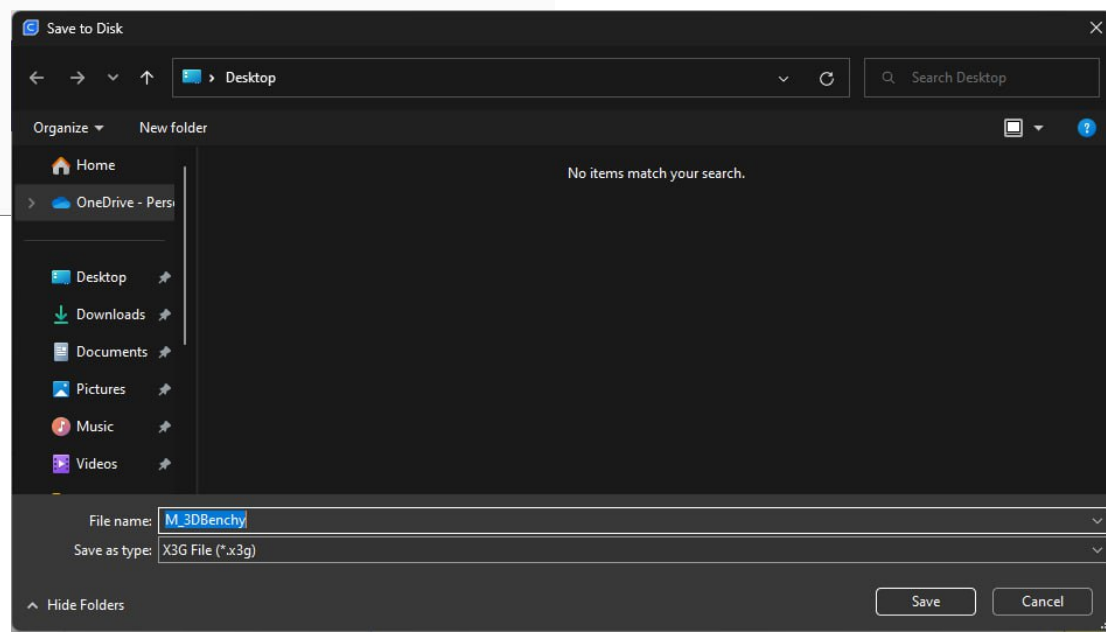
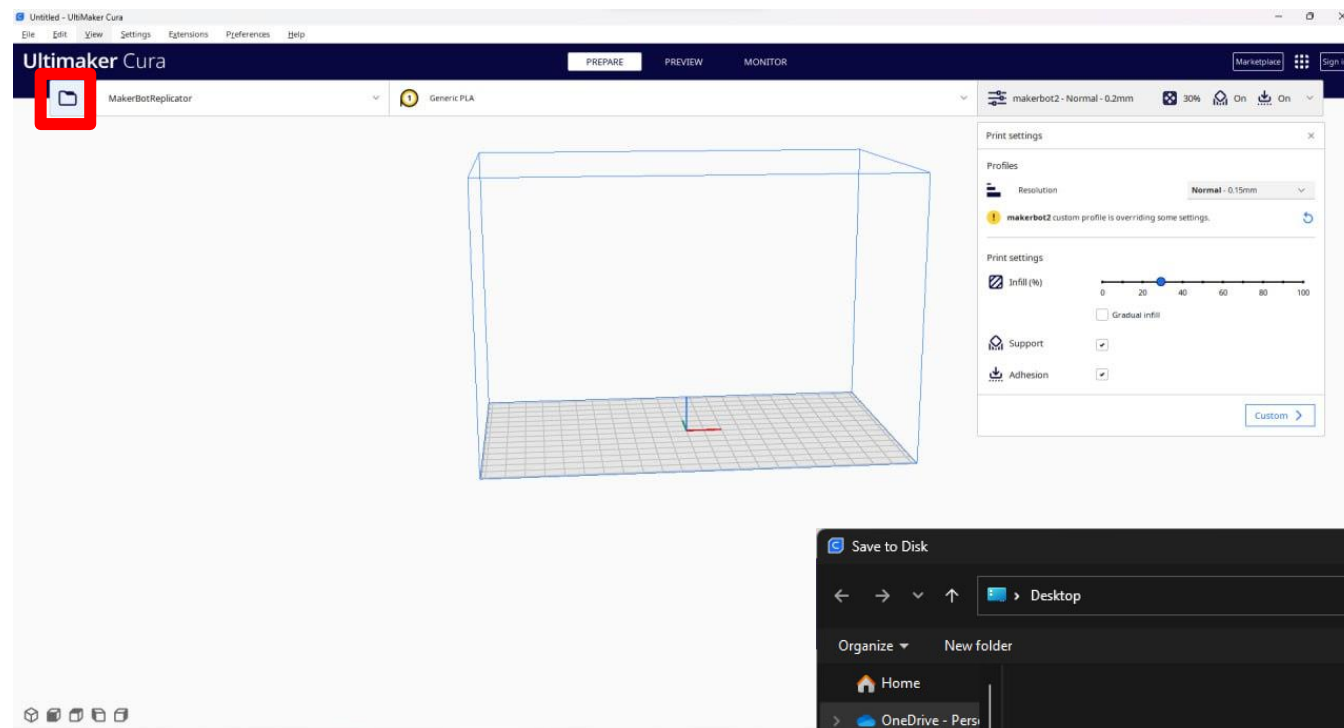
Verificar que ao gerar um ficheiro, este é escrito com o formato x3g

# COMO IMPRIMIR

## Selecionar a impressora e perfil correto

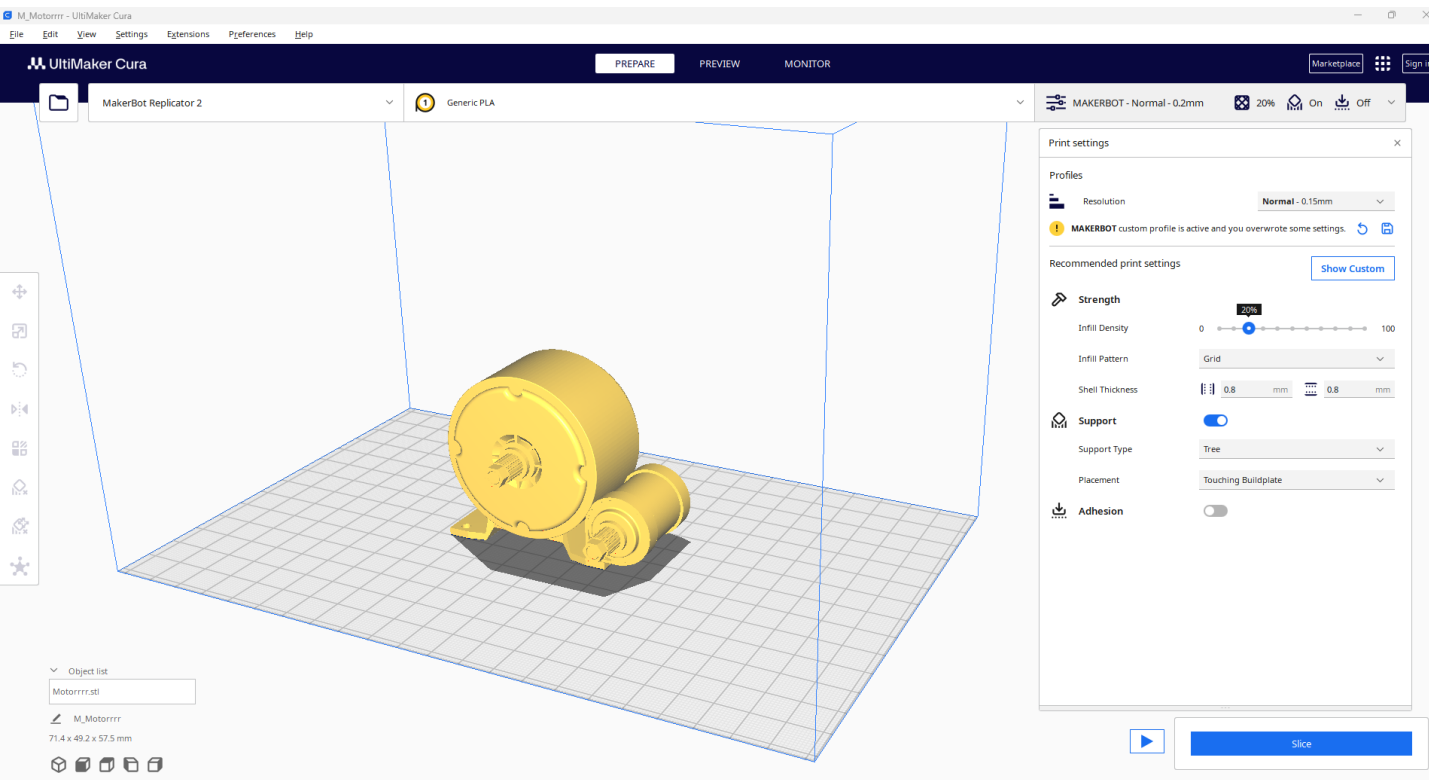


# Escolher a peça a imprimir



# Escolher os settings apropriados

## Clicar Slice -> Preview



🕒 3 hours 9 minutes

📊 54g · 18.22m

Preview

Save to Disk

No Preview da para ver exatamente o que a impressora vai fazer  
Depois apenas clicar “Save To Disk”

MultiMaker Cura

PREPARE PREVIEW MONITOR

View type Layer view Colors scheme Line Type

MAKERBOT - Normal - 0.2mm 20% On Off

Print settings

Profiles

Resolution Normal - 0.15mm

MAKERBOT custom profile is active and you overwrote some settings.

Recommended print settings Show Custom

Strength

Infill Density 0 20% 100

Infill Pattern Grid

Shell Thickness 0.8 mm 0.8 mm

Support

Support Type Tree

Placement Touching Buildplate

Adhesion

Object list

Motortrrr.stl

M\_Motortrrr

71.4 x 49.2 x 57.5 mm

Visualizar Movimentos

Tempo

3 hours 9 minutes

54g - 18.22m

Save to Disk

Barra das layers

# Dicas de Impressão

- Garantir que a impressora tem PLA suficiente e da cor correta
- Tentar que tenha o menor número de suportes possível
- Garantir que a peça está acente na base
- Escolher o infill apropriado, nem sempre mais infill quer dizer mais robustez
- Verificar sempre o modelo no preview para garantir que vai imprimir o que é suposto