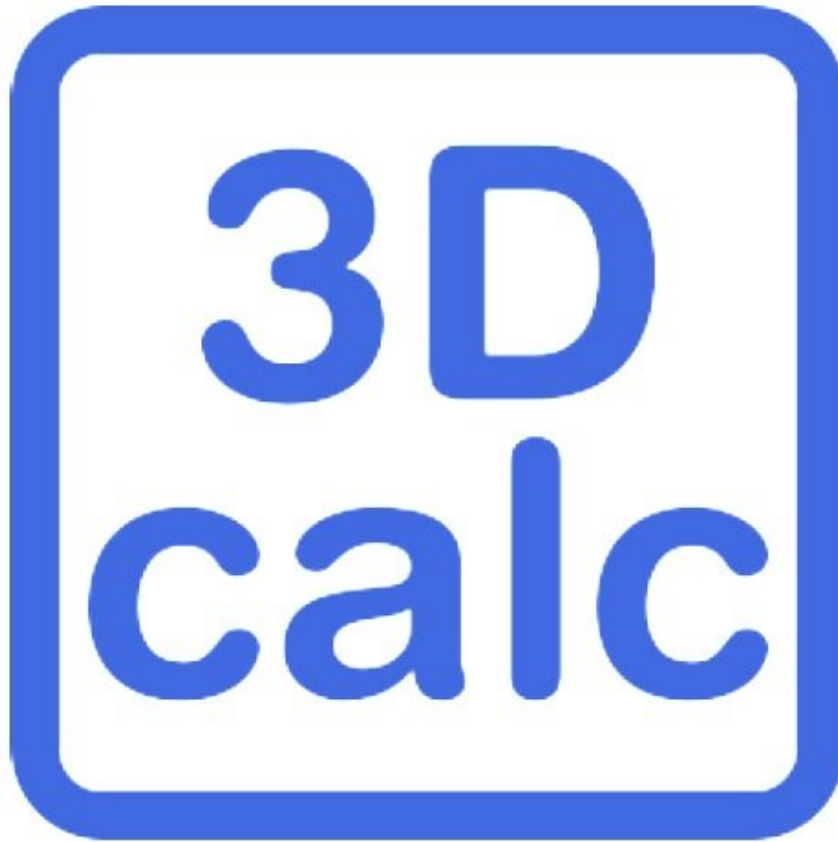# How to set up and use 3DCALC Software

This guide will help you to set up a 3DCALC Software - Unique application for calculations of total 3D printing costs for makers.

Written By: custom.3d.services

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INTRODUCTION

3DCALC Software

is a unique application for calculations of total 3D printing costs for makers. This guide will help you to set up everything in a few easy steps.

🔧 TOOLS:

- [Microsoft windows 7 (or later)](#) (1)
- [wkhtmltopdf tool to render HTML into PDF](#) (1)
- [3DCalc Software](#) (1)

Step 1 — Getting Started

- Start with downloading of the application demo (you can convert it to full version in Step number 2)

- [Download App Here](#)

⚠ Before starting to use software please read our disclaimer: [Disclaimer](#)

Step 2 — How to get a full version

- The full version of the app will be given to everybody who will buy a "coffee" to developers - visit https://www.ko-fi.com/3dprintcalc website

- Fill your email (Will be used for software registration and for access to download repository)

- Fill your name

- Click on the button - you will be redirected to payment method selection

- You can select between PayPal or Card payment

⚠ Double-check your email address!

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Step 3 — Licencing First Step

- After you proceed the payment you will get an email with access to download repository

- (i) It usually takes a few hours until an email is delivered.

- Open application (3DPC.exe) and click on button

- Fill your Name (same as in Step 1 —Downloading of application)

- Fill your Email (same as in Step 1 —Downloading of application)

- Click on button

- File *license.xml* will be generated. Send it via email to **3dprintcalc@gmail.com**

Step 4 — Licencing Second Step

- After you will get authorized license save it and then load it by clicking on the button

- If your license is accepted, a notification will pop up

⚠ Note that license is hardware locked (It is usable only on the computer when was licensing proceeded).

ⓘ License migration between computers is viable if needed - don't hesitate contact support

Step 5 — Set application to your needs: Others tab
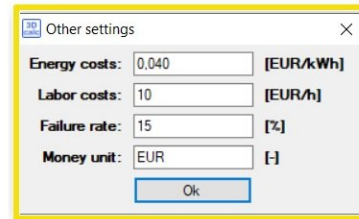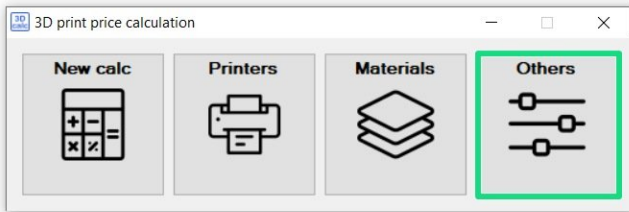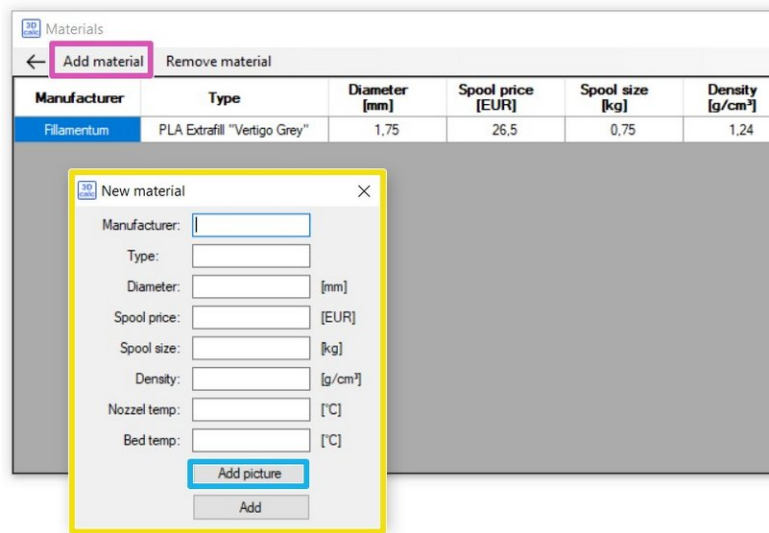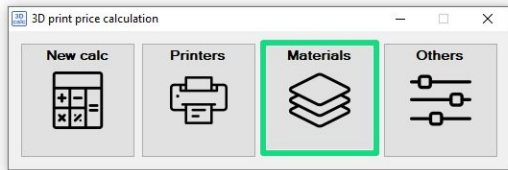

- Firstly click on *Others* setting

- Fill all the setting:

  - **Energy costs**: *The estimated electric consumption of 3D printer*

  - **Labor costs**: *Stands for all time-consuming activities of the 3D printing process (except printing time itself), such as CAD operations, Slicing, Support removal, etc.. Will be shown in detail later*

  - **Failure rate**: *The estimated average failure rate of 3D printing process*

  - **Money unit**: *Your preferable currency*

- (i) You can change all these settings anytime later

Step 6 — Set application to your needs: Materials tab

ⓘ *Materials* Tab is a library of your fillaments

● Firstly click on *Materials* setting

● Click for *Add material*

● Fill all the setting:

  ● **Manufacturer**: *Name of filament manufacturer / brand name*

  ● **Type**: *Type and color of filament*

  ● ... rest of settings are self-explanatory

● You can also add a picture of a filament/spool (It can be used in an invoice later). Recommended resolution is 360/360 px

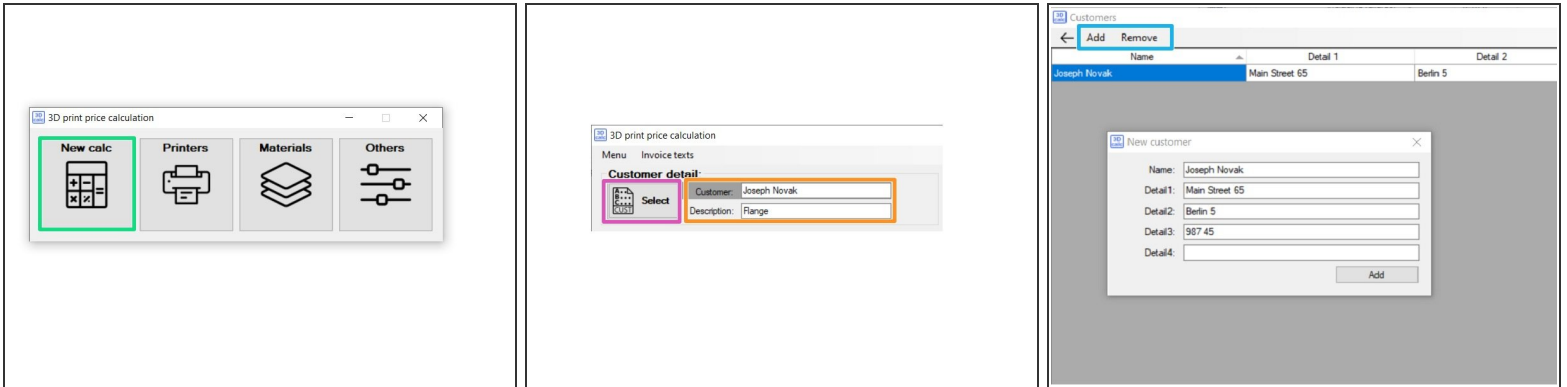## Step 7 — Set application to your needs: Printers tab
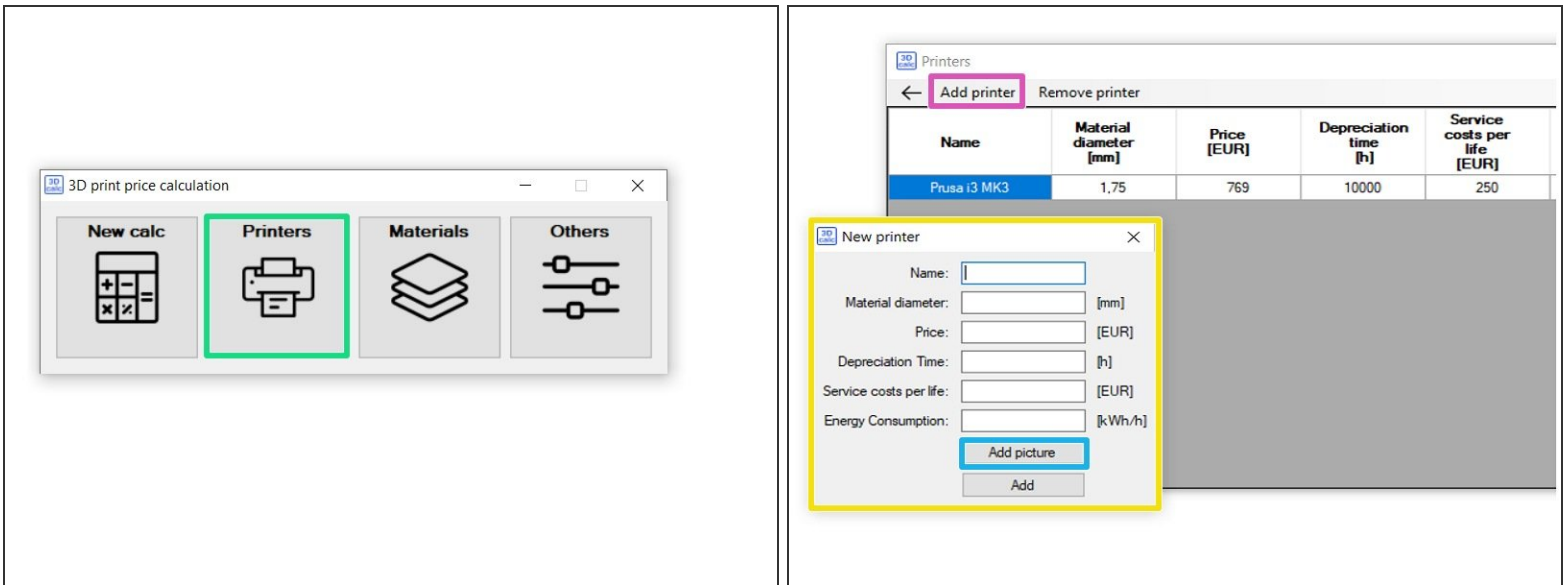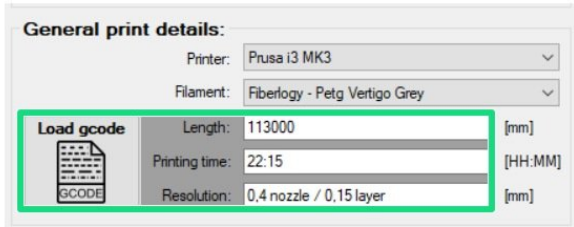

ⓘ *Printers* Tab is a library of your printers

● Click on *Printers* setting

● Click for *Add printer*

● Fill all the setting:

● You can also add a picture of a printer (It can be used in an invoice later). Recommended resolution is 360/360 px

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Step 8 — Creating a New Calc: Customer detail and Invoice texts

- Click on *New calc*

- In *Customer details* tab fill Customer initials and Description of printed model

- You can also keep your Customers details in your address book (click on *Load* button)

- In your adress book you manage your customers simply via *Add* and *Remove* buttons

Step 9 — Creating a New Calc: General print details

- Select **Printer** from your list as well as **Filament**

- Fill all details: **Length** of used filament, **Printing time** spent and you can also fill your printing **Resolution** (nozzle dia, speed/quality/detail/draft print setting)

- ⓘ You can also **Load gcode** of your sliced model and mentioned information will be filled automatically

- 📌 **Load gcode** is a new version and was tested mainly with PrusaSlicer. If a system can´t load gcode details from your Slicer let us know and we will do our best to make it compatible

Step 10 — Creating a New Calc: Preparation

Preparation:

Model preparation (Fixing, CAD...):	47	[min]
Slicing (Supports, Parameters...):	5	[min]
Material change:	10	[min]
Transfer and Start:	2	[min]
Total:	64	[min]

- In this section, you can include all your time-consuming activities you make during print preparation. Each row is a self-explanatory
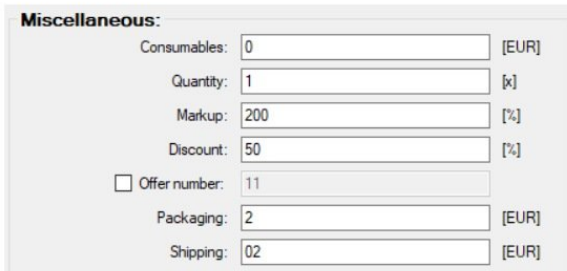
Step 11 — Creating a New Calc: Post processing

Post-processing:

Job removal:	5	[min]
Support removal:	15	[min]
Additional work:	0	[min]
Total:	20	[min]

- In this section, you can include all your time-consuming activities you make during post processing. Each row is a self-explanatory

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## Step 12 — Creating a New Calc: Miscellaneous

- **Consumables**: Price of consumables used during the printing process (glues, cleaners, sanding stuff...)

- **Quantity**: If you are printing more than 1 piece, costs evaluated in **Preparation** section will be divided by the number of printed pieces.. (e.g. time needed to prepare the model for printing is spread equally to all printed copies)

- **Markup**: Multiplies the calculated costs. (e.g. If calculated costs are 37 EUR and Markup is set to 200% total price will be 74 EUR) Default 100%

- **Discount**: Discount for your customer. (0% stands for no discount, 100% for maximum discount e.g. total price is 0) Default 0%

- **Offer number**: You can use this information in an invoice. You can write your own, use default (automatically numbered) or do not use it at all

- **Packaging and Shipping**: You can include costs for packaging and shipping

Step 13 — Costs overview and an invoice generation
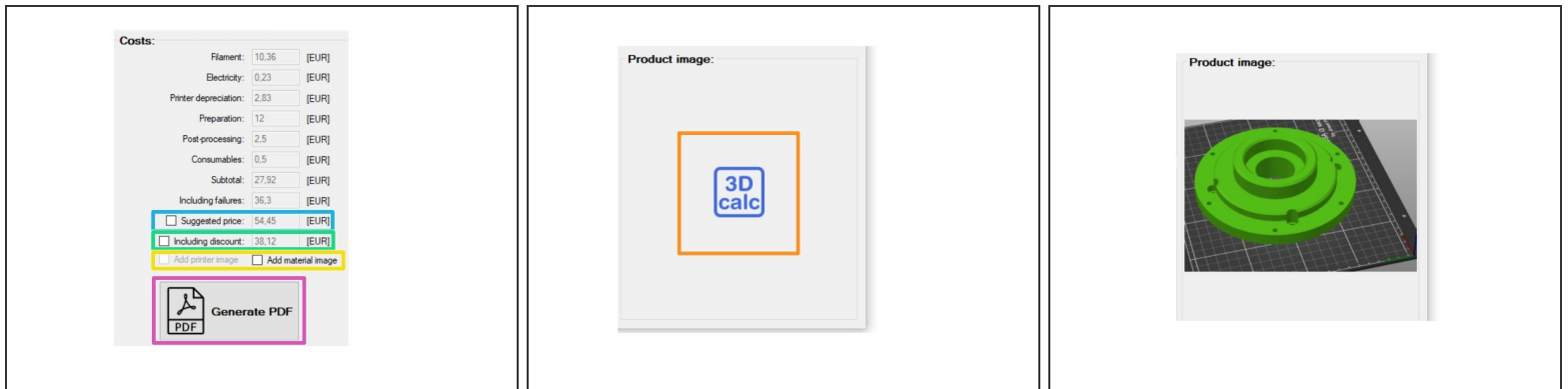
- You can check calculated costs for each category

- By checking the box you can retype calculated value

- By checking the box you can retype calculated value

- You can add material or printer image in your invoice (as mentioned in previous steps)

- We recommend to also add a **Product image** , click on the logo and select your picture

- This is it! Click the button and you are done :)

Step 14 — Support & Bug fixes
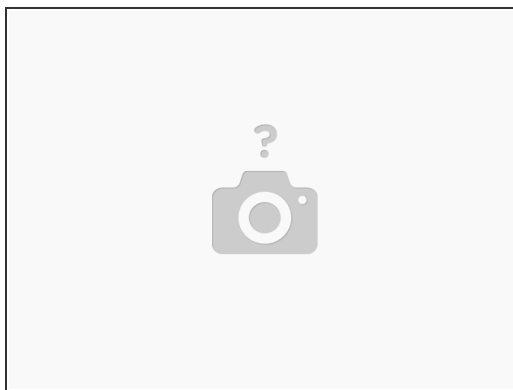
⚠ This software is still a beta, so if you figure something out, just let us know.

To reassemble your device, follow these instructions in reverse order.