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## **3D** professionals in Turin - Italy

The future belongs to those who believe in the beauty of their dreams - E. Roosevelt -

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reseller



# How to configure WASP Delta2040 (Std & Turbo) in Cura Rel. 15.4.6

(MS Windows systems)

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#### Introduction

First of all I want congratulate you, because if you bought a **WASP** 3D printer, you bought a great machine wich I am used to work with every day.

I decided to write this how-to to help international WASP customers, because at present the tutorial on the **WASP website** is only in Italian language.

This tutorial is written for the last 'general purpose' Cura version available, Cura 15.4.6, but the values are correct also for older versions: my favourite one is 14.2.1. No differences apply between standard Delta 2040 and Turbo version in Cura configuration.

Cura is a slicing tool running under Linux, Windows and Xos operating systems, is developed by Ultimaker B.V. (Geldermalsen - The Netherlands) and can be downloaded here:

https://ultimaker.com/en/products/cura-software/list.

The versions numbered until 15.4.6 are 'general purpose', the newer ones are Ultimaker printers specific only.

After this introduction.... let's go! You will see that the process consists of 2 steps, so it's quite easy.



Configure WASP Delta2040 in Cura Rel. 15.4.6



#### Step 1: Start the configuration wizard

Please click on the **Machine** menu in the program menu-bar, and select the command **Add a new machine,** as shown below:



The program will start the configuration wizard, but the same happens if you just installed Cura and you run it for the first time.





In both cases you will see the window below, and you will click **next** button to confirm.







The next window lets you choose your machine, but you can't find WASP printers in the list, so you will select **Other**, as shown in the following image. Then you click **Next** button to continue.

Configuration Wizard X
Select your machine
What kind of machine do you have:
O Ultimaker 2+
Ultimaker 2 Extended+
O Ultimaker 2
Ultimaker 2 Extended
Ultimaker 2 Go
Ultimaker Original
Ultimaker Original+
OPrintrbot
O Luizbot TAZ
O Lulzbot Mini
Other (Ex: RepRap, MakerBot, Witbox)
The collection of anonymous usage information helps with the continued improvement of Cura.
This does NOT submit your models online nor gathers any privacy related information.
Submit anonymous usage information: 🗹
For full details see: http://wiki.ultimaker.com/Cura:stats
< Back Next > Cancel

Then you must choose your machine type, and for **WASP Delta 2040** select **Deltabot** from the list. As usual you have to click **Next** button to go on.





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You have completed the wizard, as you can see from the confirmation windows that will appear, and you can see below too.

You click **Finish** button to end this procedure.







#### **Step 2: Set the machine specific settings**

Now we have added a generic delta printer, as you can see form the **Machine** menu, where you can fined a printer named **Deltabot style**, assuming that this is the first printer you add, otherwise a progressive number will be added accordingly at the end of the name, see below.



Now we have to complete the machine dependent setting.

To start this procedure, click on the **Machine** menu in the program menu bar again, and select **Machine settings** command, as you can see from the following picture.





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At this point you will see the **Machine Settings** window, where you have to complete the fields as shown in the image that follows.

Note that as happened in every section of Cura, if you put your mouse cursor over a parameter, a little box with a help message will appear explaining the parameter meaning.

Machine settings			×
Deltabot Style			4 1
Machine settings		Printer head size	
E-Steps per 1mm filament	0	Head size towards X min (mm)	0.0
Maximum width (mm)	150	Head size towards Y min (mm)	0.0
Maximum depth (mm)	Size of the machine in mm	Head size towards X max (mm)	0.0
Maximum height (mm)	150	Head size towards Y max (mm)	0.0
Extruder count	1 ~	Printer gantry height (mm)	0.0
Heated bed Machine center 0,0	$\Sigma$	Communication settings	,
Build area shape	Circular 🗸 🗸	Serial port	AUTO $\checkmark$
GCode Flavor	RepRap (Marlin/Sprinter) 🗸 🗸	Baudrate	AUTO ~
Ok Add nev	v machine Remove machin	Change machine name	

As first thing I suggest you to rename the printer clicking on the **Change machine name** button: the following window will appear, and you will be able to enter your favourite name: for example I entered the name **MyDelta2040**, see the picture.

Change machine name		×
Enter the new name:		
MyDleta2040		
	OK	Cancel

When you finished, click on the **OK** button to continue.





Now pay attention to enter the values you can see in the window below. When done click on **OK** button to confirm settings and close the window.

Machine settings			×
Mydleta2040			4 1
Machine settings		Printer head size	
E-Steps per 1mm filament	0	Head size towards X min (mm)	0
Maximum width (mm)	200	Head size towards Y min (mm)	0
Maximum depth (mm)	200	Head size towards X max (mm)	0
Maximum height (mm)	400	Head size towards Y max (mm)	0
Extruder count	1 ~	Printer gantry height (mm)	0
Heated bed Machine center 0,0	N	Communication settings	
Build area shape	Circular $\checkmark$	Serial port	AUTO $\sim$
GCode Flavor	RepRap (Marlin/Sprinter) 🗸 🗸	Baudrate	AUTO ~
Ok Add new	machine Remove machine	e Change machine name	

At this point if you reopen the **Machine** menu from the main Cura window, you will see your new printer selected as active in the printer list (you see the example name **MyDelta2040 on the left**).

Please note how many WASP printers I use... ;-)

🔳 Cur	a - 15	.04.6							
File To	ools	Machin	e Exp	pert	Help				
Basic	Adva	Powerwasp-Dia3						1	
Qualit	y	Deltawasp_20X40_Ug07							
Layer h	neight	De	ltawas	p_20	X40_Ug04				
Shell th	ickne:	De	ltawas	p40X	(70				
Enable	retra	Pv	asp-X	I-Ug(	0P35				
rall		Pv	asp-X	I-Ug(	0P4				
<b>FIII</b>	-	Pv	asp-X	I-Ug(	0P7				
Bottom	lob	Re	prap						
Fill Den	sity ('	Mydleta2040							
Speed	d and	Add new machine							
Print sp	eed (	Machine settings							
Printing	) temp	Install default firmware					1.1		
Bed ter	npera	Install custom firmware							
Support									
Support type				lone		~			
Platform adhesion type			N	lone		~			
Filament									
Diameter (mm)			2	.85					

#### **Tutorial end**

The Cura configuration procedure is completed, and if you entered correct values, you are ready to go and to enjoy your **WASP Delta 2040**.

### Happy printing from <u>Cosmo3d</u>.