

CHOP3D DIY Filament Dryer



Chop3D

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Summary

My specially created diy filament dryer.

[3D Printers](#) > [Accessories](#)

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Filament dryer. I am very pleased. create up to 80C in the chamber.

1mmStahl schablone.DXF serves as a template. I took 1mm steel and had it lasered. So all screwing points are given.

You need :

2020 Extrusions , check for local supplier

4x290mm

2x560mm

2x240mm

<https://shop.bohrers.de/testartikel-zuschnitt-neu-100m-573-575.html>

Power Supply <https://amzn.to/43zgaUE>

M4 2020 T nuts. <https://amzn.to/44MuydX>

Some Corner brackets <https://amzn.to/3qan05w>

A PTC Heater <https://amzn.to/43wArKQ>

16 Bearings 608zz <https://amzn.to/44WmFSV>

IEC connector <https://amzn.to/3pPt7MD>

A Crimping Tool and Cable Shoes <https://amzn.to/43y7T3x>

some Melt in Nuts <https://amzn.to/3q110dj>

2 Fans 12v/24v <https://amzn.to/46Xw5z3> or <https://amzn.to/43Ew7ZL>

some Thermistors <https://amzn.to/3Y1mBPj>

a BME280 <https://amzn.to/44TYh42> for checking Temp and Humidity

Silica Gel ,self-regenerating <https://amzn.to/3rypyzG>

1 sheet of 20mm insulation such as

<https://www.bauhaus.info/hartschaumplatten/ursa-hartschaumplatte-xps-eco-d-n-iii-pz-i/p/28877905>

A Printer Mainboard with Mosfet for the Bed Heater Like :

<https://amzn.to/3DmOAj2>

Two MDF Plates :

Base :

600x280x19mm MDF

Back :

606x313x19mm MDF

8mm ,880mm aluminum round rod you need 8X110mm pieces

<https://www.sonderpreis-baumarkt.de/schrauben-und-eisenwaren/eisenwaren-und-kleineisen/stangen/rundstange-8mm-silbereloxiertt>

Another important piece of information for the PTC heater. a thermistor with a cap must be installed in it. unfortunately this has to be done by DIY. but then PID tuning is possible afterwards.

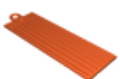
Model files



silica-behaelter-einschubhalter-4x.stl



60x60x20-fan-halter-2x.stl



silica-behaelter-deckel-4x.stl



1mmstahl-schablone.dxf



bearing-halter-aussen-8x.stl



m4-tuer-knauf-1x.stl



ptc-halter-1x.stl



bearing-halter-innen-8x.stl



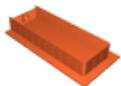
tuer-scharnier-2x.stl



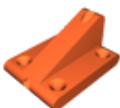
gerade-ptfe-halter-4x.stl



tpu-fuss-4x.stl



silica-behaelter-gefaess-4x.stl



90grad-ptfe-halter-4x.stl

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