



## Duplicator i3 3rd-rail Z tower brace

 **Delukart**

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updated 12. 4. 2022 | published 25. 3. 2022

### Summary

(Updated) i have updated the model with slightly bigger openings for the threaded rod. and also added a sat file for...

[3D Printers](#) > [3D Printers - Upgrades](#)

Tags: [wanhaoi3](#) [wanhaoduplicatori3](#) [wanhao](#) [toranado](#)

(Updated) i have updated the model with slightly bigger openings for the threaded rod.

and also added a sat file for anyone that feels necessary to modify it as long as credit is given..

Here is a Z tower brace mod that I have created to fill a need for myself and others that

want to use all of there z height after installing a toranado extruder or any extruder taller than stock.

B.O.M.

4x m3.5 hex nuts (to intsall in the new tower braces for the side screws)

3x 410mm 5/16 threaded rod

12x 5/16 nuts

12x 5/16 washers

the guide balls are meant to be used with 5/16 washers and nuts.

And they also help to square off your z towers for better print quality..

(as many of us know the original frame is not perfect.)

This mod has been tested and modified and tested some more to ensure before release it is an actual upgrade that is a working drop-in replacement for the original tower brace.

A BIG THANKS goes to --Todd Swindoll-- for testing and providing great feedback and of course showing them off in the wanhao Di3 facebook group..

The pictures above of the installed brace is my v1 (2 rail)..

The model has since been updated and pictures of the actual final 3rd rail version will be in the makes section.

## **Print Settings**

### **Printer:**

wanhao Di3

### **Rafts:**

No

### **Supports:**

Yes

### **Resolution:**

0.20 or higher

### **Infill:**

40% or higher

### **Notes:**

you will want to print these with at least 3 layers and 40% infill.  
with support enabled set to normal in simplify3d .

or in cura support enabled set to everywhere.

Category: 3D Printer Parts

## Model files



**nut\_guide\_ball\_fixed.stl**

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**lh\_brace.stl**

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**guide\_ball.stl**

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**rh\_brace.stl**

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com)

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