



Gridfinity standard bins with label + parametric file



Akio

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Summary

Standard gridfinity bin with full label tab, better printable magnet holes and parametric fusion 360 file.

[Hobby & Makers](#) > [Organizers](#)

Tags: [magnet](#) [bin](#) [gridfinity](#) [voidstar](#) [voidstarlabs](#)

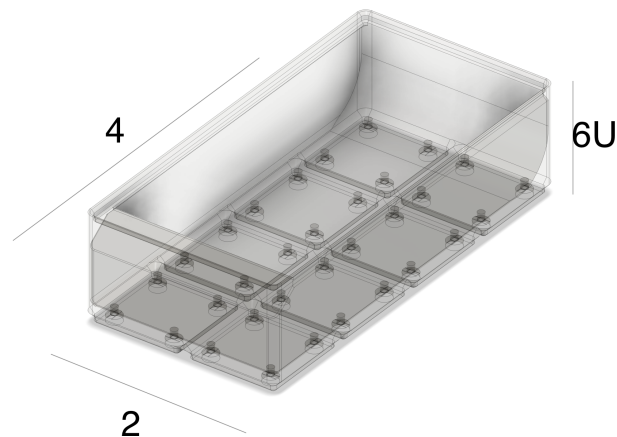
Update Dezember 2023:

I got a lot of requests of people who don't like to use Fusion360 so I added .stl files for bins from 1x1 to 7x7. Each size is available in 3U, 4U, 5U and 6U heights. And all files are available for 6x2mm and 6x3mm magnets.

If you still want to have a different size bin there are instructions how to use the parametric Fusion360 file below. You just need to scroll down ;)

To find the right size the files are named as follows: depth x width x height

4x2x6U.stl



This is a remix of the original bins by Zack Freedman that you can find here: <https://bit.ly/ZFGridfinityDividerBins>

Outer dimensions of the bins are exactly the same as the original bins, so you have full compatibility to the gridfinity system.

Improvements of this remix over the original model

- The label tab is always as wide as the bin. This helps with lifting the bin easily and allows for more text on the label for wider bins.
- The magnet holes have an improved design. They now print clean without support. I found that the magnet holes of the original bins did not print great and I had to clean a lot of them manually before being able to put in the magnets.
- A completely redone parametric Fusion 360 file is included, that enables you to easily create the basis for your own bin design.
- For ease of use of the Fusion 360 files dividers are not supported.
- Guide to use the parametric Fusion 360 file - see the description below.

Magnets

- The provided stl files come either with holes for 6x2mm magnets or 6x3mm magnets. Both versions have advantages and disadvantages.
 - The 6x2mm magnets are usually a bit more expensive and hold less strong to the baseplates, however they don't interact that easily with the contents of your bins, when stacked on top of each other.

- The 6x3mm magnets are usually a bit cheaper to get and when using only 2 of them on a bin you can get roughly the same holding force as with 4 6x2mm magnets. However they also interact more with the contents of your bins, when the content is magnetic or ferromagnetic.

Accessories

- The bins with the magnets go great with my version of the modular baseplates that can be equipped with ferromagnetic screws. This is cheaper than having to put magnets on the baseplate and you don't have to get the polarity of the magnets right. You can find the baseplates here: <https://www.printables.com/model/360046-gridfinity-modular-baseplates>
- The bins with also go great with my gridfinity tray. When using it you have a separating layer between the bins, that prevents the stronger 3x6mm magnets of interacting with magnetic content of the tray below. You can find the tray here: <https://www.printables.com/model/361287-gridfinity-tray-for-ikea-samla>

Recommended print settings

For my bins I use the following settings:

- 0.2 mm layer height
- 3 walls
- 10% infill (rectilinear)
- Arachne wall generator

Parametric source file - what it offers and how to use it

The original parametric fusion360 file that Zack created did not work for me for bigger bins. I got errors and the final bin consisted of several objects. After hours of searching for the reason I found out that this is a bug/missing feature in fusion360. Fusion360 can only combine as many objects as were existing during the initial creation. The original file seems to be created with a 1x3 bin. That means there are problems for all bigger bins. So I re-created the fusion360 file with a bin size of 10x10. This means you will be able to create bins from 1x1 to 10x10 without errors. I decided to have the same parameters as in the original file to make it easy for users of the existing file from Zack to use this.

Parameters to change without problems

The following parameters can be changes within the given value ranges without causing problems with the provided fusion360 file.

Note that you not only can add nubmers, but also fractions as parameters. This is useful for the slotsHigh parameter. In the original fusion360 file slotHigh “1” creates a 6U high bin. So if you want to easily have a bin with a specific gridfinity xU hight, you can just put in x/6 as the parameter.

Changing other parameters than in the table below might work, but I did not test it.

Fusion360 might need a while when you go for huge bins.

Parameter	Value	Description
slotsWide	1-10	width of the bin
slotsDeep	1-10	depth of the bin
slotsHigh	3/6 - 10/6	height of the bin
magnetThiccness	2.4 - 3.4	2.4 for 6x2mm magnets 3.4 for 6x3mm magnets

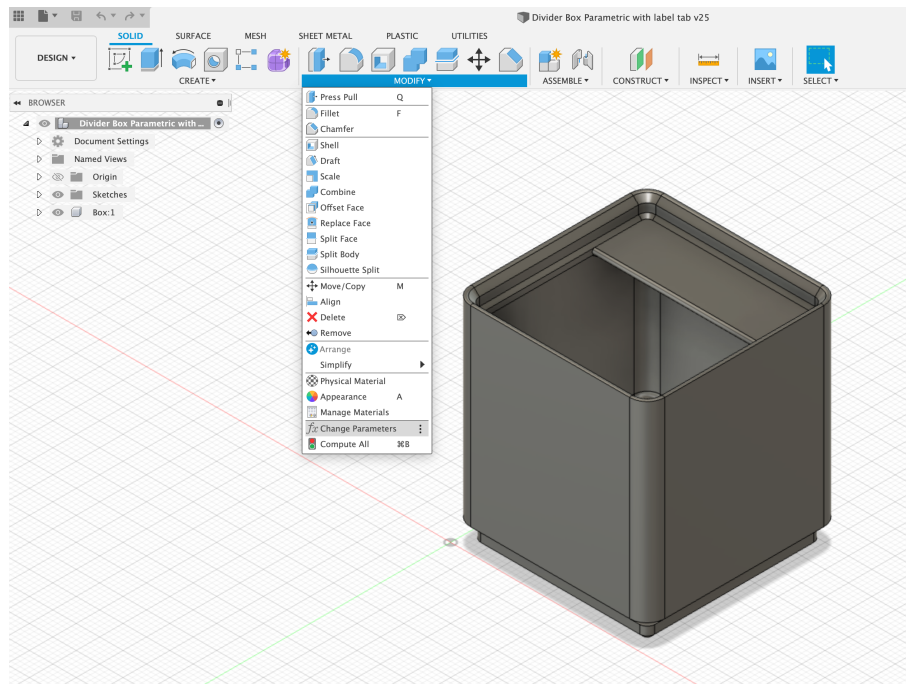
Remove Magnet holes

If you do not want magnet holes on the bottom of the bin there is an easy way to remove them:

Set the parameters screwTightDiameter and magnetDiameter to 0.01. This will not cause errors in the parametric file and make the holes so small your slicer will not recognize the holes any more.

How to change parameters in fusion360

- Click on Modify>Change Parameters

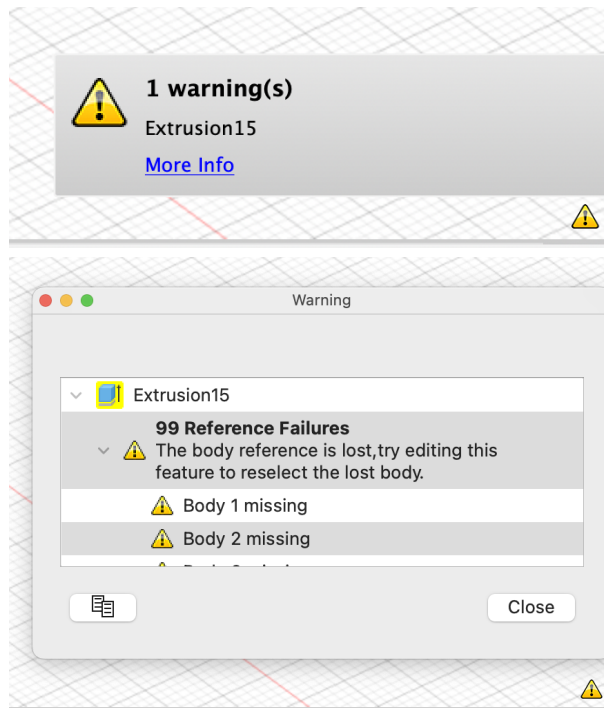


- In the column Expression change the value of the parameter

+ User Parameter				
Filter all parameters				
Parameter	Name	Unit	Expression	Value
★ Favorites				
fx User Parameters				
★ User Parameter	slotsWide		1	1
★ User Parameter	slotsHigh		1	1
★ User Parameter	slotsDeep		1	1
★ User Parameter	slotDimension	mm	42 mm	42.00
★ User Parameter	nestingDepth	mm	5 mm	5.00
★ User Parameter	nestingRimWidth	mm	2.4 mm	2.40
★ User Parameter	nestingClearance	mm	0.25 mm	0.25
★ User Parameter	cornerFillet	mm	4 mm	4.00
★ User Parameter	ledStripWidth	mm	13 mm	13.00
★ User Parameter	ledSlotHeight	mm	4 mm	4.00
★ User Parameter	screwTightDiameter	mm	3 mm	3.00
★ User Parameter	magnetDiameter	mm	6.5 mm	6.50
★ User Parameter	magnetThiccness	mm	2.4 mm	2.40
★ User Parameter	wallThiccness	mm	1.2 mm	1.20
★ User Parameter	dividerCount		1	1

Warnings

The file will give you a warning for bins with a size less than 10x10. This is normal and expected.




This remix is based on





Gridfinity Divider Bins - 3D model by ZackFreedman on Thangs

by ZackFreedman

Model files

 **Parametric Files** 2 files

 **divider-box-parametric-with-label.f3d**

 **divider-box-parametric-with-label-no-magnet-holes.f3d**



Bins for 6x2 magnets 1x1 - 1x7

28 files



1x1x3u-magnet6x2.stl



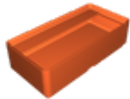
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1x1x5u-magnet6x2.stl



1x1x6u-magnet6x2.stl



1x2x3u-magnet6x2.stl



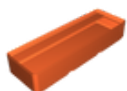
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1x2x5u-magnet6x2.stl



1x2x6u-magnet6x2.stl



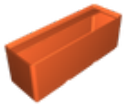
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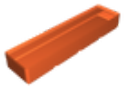
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1x3x6u-magnet6x2.stl



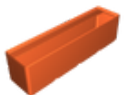
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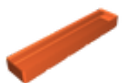
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1x4x5u-magnet6x2.stl



1x4x6u-magnet6x2.stl



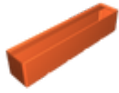
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1x5x4u-magnet6x2.stl



1x5x5u-magnet6x2.stl



1x5x6u-magnet6x2.stl



1x6x3u-magnet6x2.stl



1x6x4u-magnet6x2.stl



1x6x5u-magnet6x2.stl



1x6x6u-magnet6x2.stl



1x7x3u-magnet6x2.stl



1x7x4u-magnet6x2.stl



1x7x5u-magnet6x2.stl



1x7x6u-magnet6x2.stl



Bins for 6x2 magnets 2x1 - 2x7

28 files



2x1x3u-magnet6x2.stl



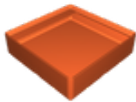
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2x1x6u-magnet6x2.stl



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2x2x4u-magnet6x2.stl



2x2x5u-magnet6x2.stl



2x2x6u-magnet6x2.stl



2x3x3u-magnet6x2.stl



2x3x4u-magnet6x2.stl



2x3x5u-magnet6x2.stl



2x3x6u-magnet6x2.stl



2x4x3u-magnet6x2.stl



2x4x4u-magnet6x2.stl



2x4x5u-magnet6x2.stl



2x4x6u-magnet6x2.stl



2x5x3u-magnet6x2.stl



2x5x4u-magnet6x2.stl



2x5x5u-magnet6x2.stl



2x5x6u-magnet6x2.stl



2x6x3u-magnet6x2.stl



2x6x4u-magnet6x2.stl



2x6x5u-magnet6x2.stl



2x6x6u-magnet6x2.stl



2x7x3u-magnet6x2.stl



2x7x4u-magnet6x2.stl



2x7x5u-magnet6x2.stl



2x7x6u-magnet6x2.stl



Bins for 6x2 magnets 3x1 - 3x7

28 files

3x1x3u-magnet6x2.stl



3x1x4u-magnet6x2.stl



3x1x5u-magnet6x2.stl



3x1x6u-magnet6x2.stl



3x2x3u-magnet6x2.stl



3x2x4u-magnet6x2.stl



3x2x5u-magnet6x2.stl



3x2x6u-magnet6x2.stl



3x3x3u-magnet6x2.stl





3x3x4u-magnet6x2.stl



3x3x5u-magnet6x2.stl



3x3x6u-magnet6x2.stl



3x4x3u-magnet6x2.stl



3x4x4u-magnet6x2.stl



3x4x5u-magnet6x2.stl



3x4x6u-magnet6x2.stl



3x5x3u-magnet6x2.stl



3x5x4u-magnet6x2.stl



3x5x5u-magnet6x2.stl



3x5x6u-magnet6x2.stl



3x6x3u-magnet6x2.stl



3x6x4u-magnet6x2.stl



3x6x5u-magnet6x2.stl



3x6x6u-magnet6x2.stl



3x7x3u-magnet6x2.stl



3x7x4u-magnet6x2.stl



3x7x5u-magnet6x2.stl



3x7x6u-magnet6x2.stl



Bins for 6x2 magnets 4x1 - 4x7

28 files

4x1x3u-magnet6x2.stl



4x1x4u-magnet6x2.stl



4x1x5u-magnet6x2.stl



4x1x6u-magnet6x2.stl



4x2x3u-magnet6x2.stl



4x2x4u-magnet6x2.stl



4x2x5u-magnet6x2.stl



4x2x6u-magnet6x2.stl



4x3x3u-magnet6x2.stl





4x3x4u-magnet6x2.stl



4x3x5u-magnet6x2.stl



4x3x6u-magnet6x2.stl



4x4x3u-magnet6x2.stl



4x4x4u-magnet6x2.stl



4x4x5u-magnet6x2.stl



4x4x6u-magnet6x2.stl



4x5x3u-magnet6x2.stl



4x5x4u-magnet6x2.stl



4x5x5u-magnet6x2.stl



4x5x6u-magnet6x2.stl



4x6x3u-magnet6x2.stl



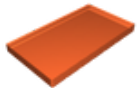
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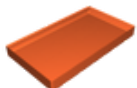
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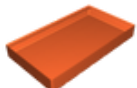
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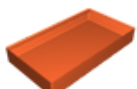
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4x7x4u-magnet6x2.stl



4x7x5u-magnet6x2.stl



4x7x6u-magnet6x2.stl



Bins for 6x2 magnets 5x1 - 5x7

28 files

5x1x3u-magnet6x2.stl



5x1x4u-magnet6x2.stl



5x1x5u-magnet6x2.stl



5x1x6u-magnet6x2.stl



5x2x3u-magnet6x2.stl



5x2x4u-magnet6x2.stl



5x2x5u-magnet6x2.stl



5x2x6u-magnet6x2.stl



5x3x3u-magnet6x2.stl



5x3x4u-magnet6x2.stl



5x3x5u-magnet6x2.stl



5x3x6u-magnet6x2.stl



5x4x3u-magnet6x2.stl



5x4x4u-magnet6x2.stl



5x4x5u-magnet6x2.stl



5x4x6u-magnet6x2.stl



5x5x3u-magnet6x2.stl



5x5x4u-magnet6x2.stl



5x5x5u-magnet6x2.stl





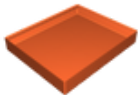
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5x6x4u-magnet6x2.stl



5x6x5u-magnet6x2.stl



5x6x6u-magnet6x2.stl



5x7x3u-magnet6x2.stl



5x7x4u-magnet6x2.stl



5x7x5u-magnet6x2.stl



5x7x6u-magnet6x2.stl



Bins for 6x2 magnets 6x1 - 6x7

28 files

6x1x3u-magnet6x2.stl



6x1x4u-magnet6x2.stl



6x1x5u-magnet6x2.stl



6x1x6u-magnet6x2.stl



6x2x3u-magnet6x2.stl



6x2x4u-magnet6x2.stl



6x2x5u-magnet6x2.stl



6x2x6u-magnet6x2.stl



6x3x3u-magnet6x2.stl



6x3x4u-magnet6x2.stl



6x3x5u-magnet6x2.stl



6x3x6u-magnet6x2.stl



6x4x3u-magnet6x2.stl



6x4x4u-magnet6x2.stl



6x4x5u-magnet6x2.stl



6x4x6u-magnet6x2.stl



6x5x3u-magnet6x2.stl

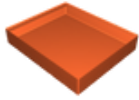


6x5x4u-magnet6x2.stl



6x5x5u-magnet6x2.stl





6x5x6u-magnet6x2.stl



6x6x3u-magnet6x2.stl



6x6x4u-magnet6x2.stl



6x6x5u-magnet6x2.stl



6x6x6u-magnet6x2.stl



6x7x3u-magnet6x2.stl



6x7x4u-magnet6x2.stl



6x7x5u-magnet6x2.stl



6x7x6u-magnet6x2.stl



Bins for 6x2 magnets 7x1 - 7x7

28 files

7x1x3u-magnet6x2.stl



7x1x4u-magnet6x2.stl



7x1x5u-magnet6x2.stl



7x1x6u-magnet6x2.stl



7x2x3u-magnet6x2.stl



7x2x4u-magnet6x2.stl



7x2x5u-magnet6x2.stl



7x2x6u-magnet6x2.stl



7x3x3u-magnet6x2.stl



7x3x4u-magnet6x2.stl



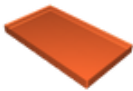
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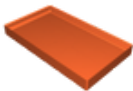
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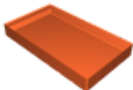
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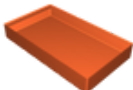
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7x4x5u-magnet6x2.stl



7x4x6u-magnet6x2.stl



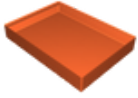
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7x5x4u-magnet6x2.stl



7x5x5u-magnet6x2.stl



7x5x6u-magnet6x2.stl



7x6x3u-magnet6x2.stl



7x6x4u-magnet6x2.stl



7x6x5u-magnet6x2.stl



7x6x6u-magnet6x2.stl

7x7x3u-magnet6x2.stl



7x7x4u-magnet6x2.stl



7x7x5u-magnet6x2.stl



7x7x6u-magnet6x2.stl



Bins for 6x3 magnets 1x1 - 1x7

28 files



1x1x3u-magnet6x3.stl



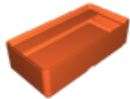
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1x2x3u-magnet6x3.stl



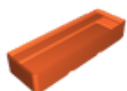
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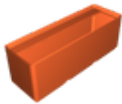
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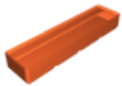
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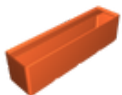
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1x4x4u-magnet6x3.stl



1x4x5u-magnet6x3.stl



1x4x6u-magnet6x3.stl



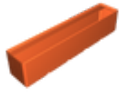
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1x5x4u-magnet6x3.stl



1x5x5u-magnet6x3.stl



1x5x6u-magnet6x3.stl



1x6x3u-magnet6x3.stl



1x6x4u-magnet6x3.stl



1x6x5u-magnet6x3.stl



1x6x6u-magnet6x3.stl



1x7x3u-magnet6x3.stl



1x7x4u-magnet6x3.stl



1x7x5u-magnet6x3.stl



1x7x6u-magnet6x3.stl



Bins for 6x3magnets 2x1 - 2x7

28 files



2x1x3u-magnet6x3.stl



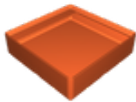
2x1x4u-magnet6x3.stl



2x1x5u-magnet6x3.stl



2x1x6u-magnet6x3.stl



2x2x3u-magnet6x3.stl



2x2x4u-magnet6x3.stl



2x2x5u-magnet6x3.stl



2x2x6u-magnet6x3.stl



2x3x3u-magnet6x3.stl



2x3x4u-magnet6x3.stl



2x3x5u-magnet6x3.stl



2x3x6u-magnet6x3.stl



2x4x3u-magnet6x3.stl



2x4x4u-magnet6x3.stl



2x4x5u-magnet6x3.stl



2x4x6u-magnet6x3.stl



2x5x3u-magnet6x3.stl



2x5x4u-magnet6x3.stl



2x5x5u-magnet6x3.stl



2x5x6u-magnet6x3.stl



2x6x3u-magnet6x3.stl



2x6x4u-magnet6x3.stl



2x6x5u-magnet6x3.stl



2x6x6u-magnet6x3.stl



2x7x3u-magnet6x3.stl



2x7x4u-magnet6x3.stl



2x7x5u-magnet6x3.stl



2x7x6u-magnet6x3.stl



Bins for 6x3magnets 3x1 - 3x7

28 files

3x1x3u-magnet6x3.stl



3x1x4u-magnet6x3.stl



3x1x5u-magnet6x3.stl



3x1x6u-magnet6x3.stl



3x2x3u-magnet6x3.stl



3x2x4u-magnet6x3.stl



3x2x5u-magnet6x3.stl



3x2x6u-magnet6x3.stl



3x3x3u-magnet6x3.stl





3x3x4u-magnet6x3.stl



3x3x5u-magnet6x3.stl



3x3x6u-magnet6x3.stl



3x4x3u-magnet6x3.stl



3x4x4u-magnet6x3.stl



3x4x5u-magnet6x3.stl



3x4x6u-magnet6x3.stl



3x5x3u-magnet6x3.stl



3x5x4u-magnet6x3.stl



3x5x5u-magnet6x3.stl



3x5x6u-magnet6x3.stl



3x6x3u-magnet6x3.stl



3x6x4u-magnet6x3.stl



3x6x5u-magnet6x3.stl



3x6x6u-magnet6x3.stl



3x7x3u-magnet6x3.stl



3x7x4u-magnet6x3.stl



3x7x5u-magnet6x3.stl



3x7x6u-magnet6x3.stl



Bins for 6x3magnets 4x1 - 4x7

28 files

4x1x3u-magnet6x3.stl



4x1x4u-magnet6x3.stl



4x1x5u-magnet6x3.stl



4x1x6u-magnet6x3.stl



4x2x3u-magnet6x3.stl



4x2x4u-magnet6x3.stl



4x2x5u-magnet6x3.stl



4x2x6u-magnet6x3.stl



4x3x3u-magnet6x3.stl





4x3x4u-magnet6x3.stl



4x3x5u-magnet6x3.stl



4x3x6u-magnet6x3.stl



4x4x3u-magnet6x3.stl



4x4x4u-magnet6x3.stl



4x4x5u-magnet6x3.stl



4x4x6u-magnet6x3.stl



4x5x3u-magnet6x3.stl



4x5x4u-magnet6x3.stl



4x5x5u-magnet6x3.stl



4x5x6u-magnet6x3.stl



4x6x3u-magnet6x3.stl



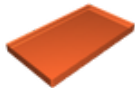
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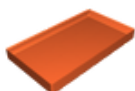
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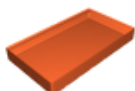
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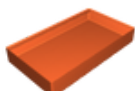
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4x7x4u-magnet6x3.stl



4x7x5u-magnet6x3.stl



4x7x6u-magnet6x3.stl



Bins for 6x3magnets 5x1 - 5x7

28 files

5x1x3u-magnet6x3.stl



5x1x4u-magnet6x3.stl



5x1x5u-magnet6x3.stl



5x1x6u-magnet6x3.stl



5x2x3u-magnet6x3.stl



5x2x4u-magnet6x3.stl



5x2x5u-magnet6x3.stl



5x2x6u-magnet6x3.stl



5x3x3u-magnet6x3.stl



5x3x4u-magnet6x3.stl



5x3x5u-magnet6x3.stl



5x3x6u-magnet6x3.stl



5x4x3u-magnet6x3.stl



5x4x4u-magnet6x3.stl



5x4x5u-magnet6x3.stl



5x4x6u-magnet6x3.stl



5x5x3u-magnet6x3.stl



5x5x4u-magnet6x3.stl



5x5x5u-magnet6x3.stl





5x5x6u-magnet6x3.stl



5x6x3u-magnet6x3.stl



5x6x4u-magnet6x3.stl



5x6x5u-magnet6x3.stl



5x6x6u-magnet6x3.stl



5x7x3u-magnet6x3.stl



5x7x4u-magnet6x3.stl



5x7x5u-magnet6x3.stl



5x7x6u-magnet6x3.stl



Bins for 6x3magnets 6x1 - 6x7

28 files

6x1x3u-magnet6x3.stl



6x1x4u-magnet6x3.stl



6x1x5u-magnet6x3.stl



6x1x6u-magnet6x3.stl



6x2x3u-magnet6x3.stl



6x2x4u-magnet6x3.stl



6x2x5u-magnet6x3.stl



6x2x6u-magnet6x3.stl



6x3x3u-magnet6x3.stl



6x3x4u-magnet6x3.stl



6x3x5u-magnet6x3.stl



6x3x6u-magnet6x3.stl



6x4x3u-magnet6x3.stl



6x4x4u-magnet6x3.stl



6x4x5u-magnet6x3.stl



6x4x6u-magnet6x3.stl



6x5x3u-magnet6x3.stl



6x5x4u-magnet6x3.stl



6x5x5u-magnet6x3.stl





6x5x6u-magnet6x3.stl



6x6x3u-magnet6x3.stl



6x6x4u-magnet6x3.stl



6x6x5u-magnet6x3.stl



6x6x6u-magnet6x3.stl



6x7x3u-magnet6x3.stl



6x7x4u-magnet6x3.stl



6x7x5u-magnet6x3.stl



6x7x6u-magnet6x3.stl



Bins for 6x3magnets 7x1 - 7x7

28 files

7x1x3u-magnet6x3.stl



7x1x4u-magnet6x3.stl



7x1x5u-magnet6x3.stl



7x1x6u-magnet6x3.stl



7x2x3u-magnet6x3.stl



7x2x4u-magnet6x3.stl



7x2x5u-magnet6x3.stl

7x2x6u-magnet6x3.stl



7x3x3u-magnet6x3.stl



7x3x4u-magnet6x3.stl



7x3x5u-magnet6x3.stl



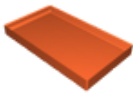
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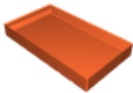
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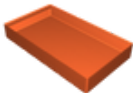
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7x4x5u-magnet6x3.stl



7x4x6u-magnet6x3.stl



7x5x3u-magnet6x3.stl

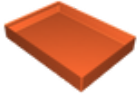


7x5x4u-magnet6x3.stl



7x5x5u-magnet6x3.stl





7x5x6u-magnet6x3.stl



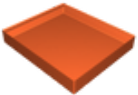
7x6x3u-magnet6x3.stl



7x6x4u-magnet6x3.stl



7x6x5u-magnet6x3.stl



7x6x6u-magnet6x3.stl



7x7x3u-magnet6x3.stl



7x7x4u-magnet6x3.stl



7x7x5u-magnet6x3.stl



7x7x6u-magnet6x3.stl

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