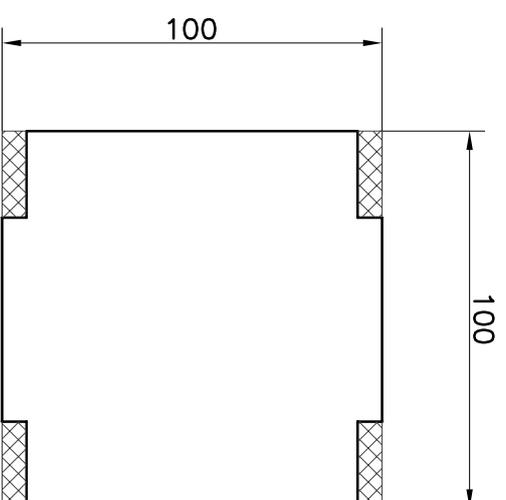


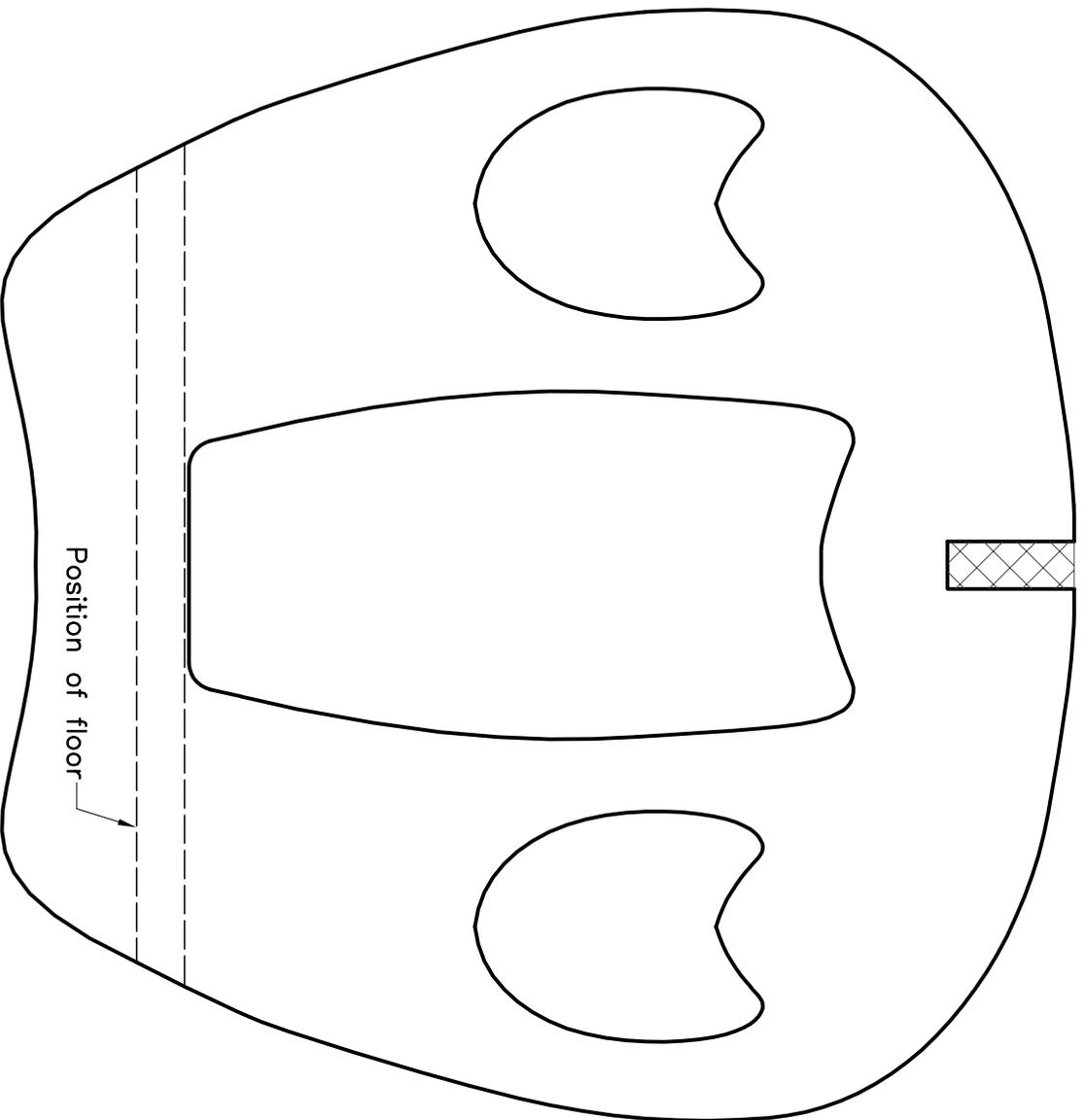
Note:

Hatched area shows width of slot to suit thickness of material



FLOOR

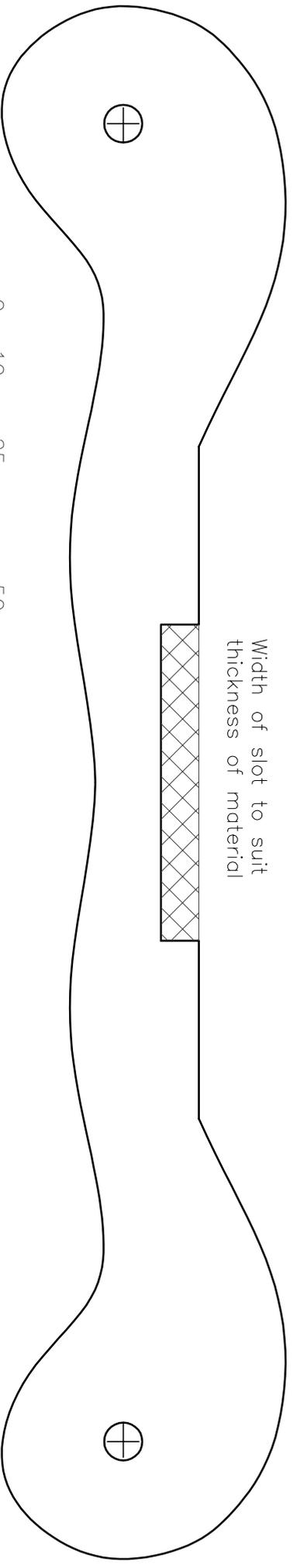
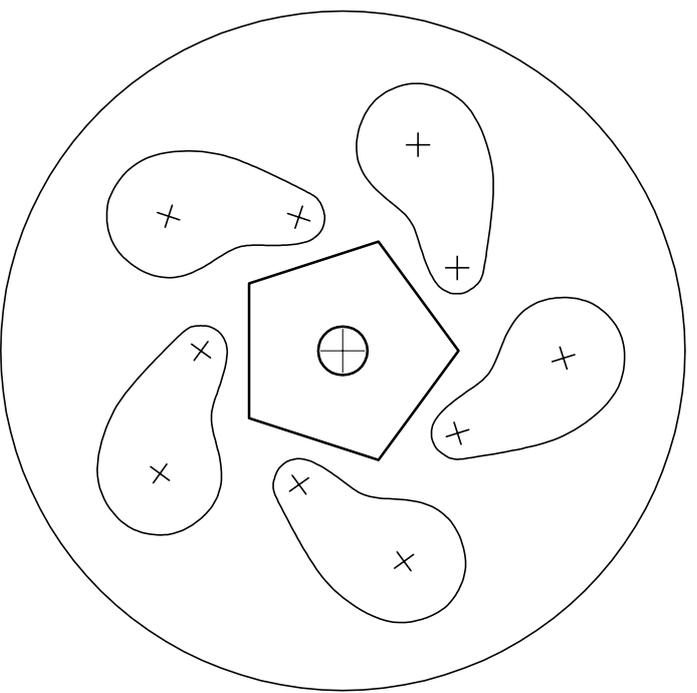
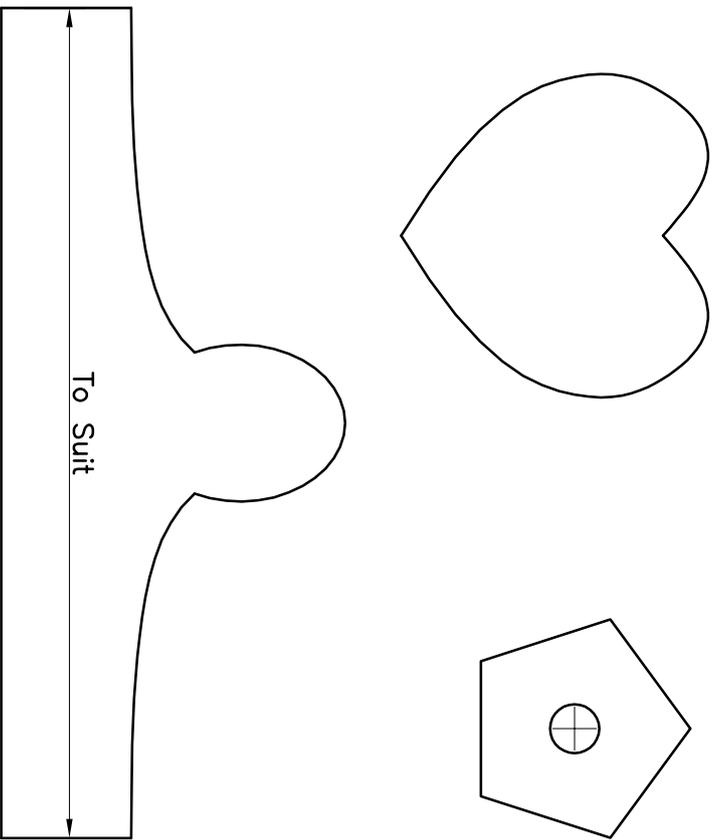
Scale 1:2

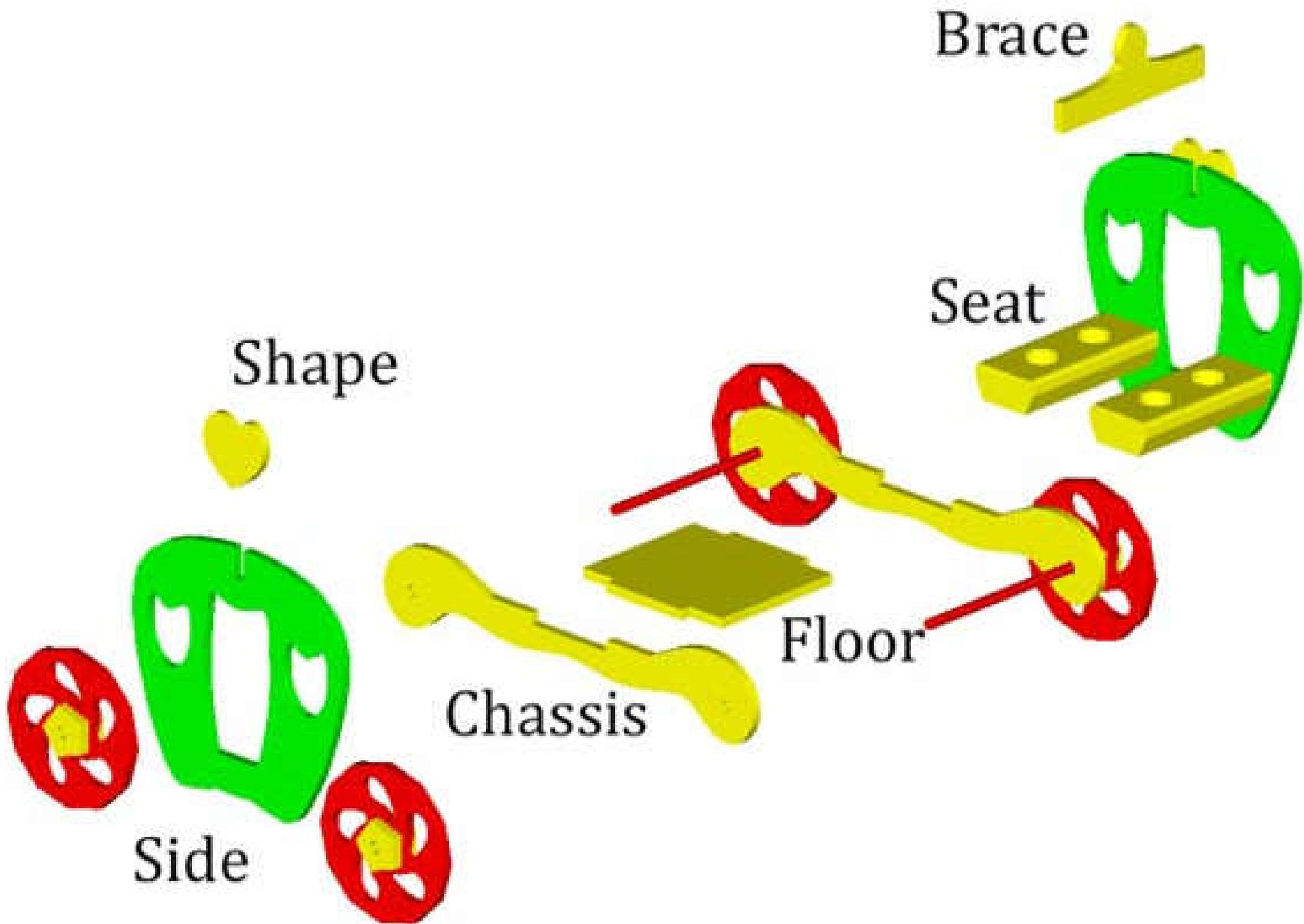


Side

Scale 1:1









Thank You.

You have successfully downloaded your free plan from wooden-toy-plans.com

Doll Coach

Step by step instructions to make a fairy tale coach for dolls.



Tools

- Scroll saw
- Electric drill
- Disc sander

A set of drill bits to suit the size of dowel, at least two sizes, one for a loose fit and one for a snug fit.

The photo shows a doll made from 19mm dowel, so I made a pair holes in each of the seats. This means this doll coach can carry four passengers.

If you want to do the same, I used a 22mm spade bit to drill the holes. A Forstner bit is also a popular choice if you can get one, and probably a lot safer to use.

The disc sander is used to make the wheels as described below.

Materials

To make this this prototype I used 3mm MDF backing board, but the wheels are made from 6mm MDF. I think it would be a much better idea to use 6mm MDF or plywood instead.

The seats are made from 19mm pine stock. You will need a piece at least 200mm long and about 40mm wide.

Also 6mm or 8mm dowel, about 500mm should be enough.

Building notes

Nothing unusual about this project, simply cut out the parts and glue them together.

If only it was as easy as that. If you are a seasoned woodworker, you would no doubt have your own way of doing things.

For what it's worth, here is a short description of how I made this doll coach.

Using a scroll saw, I stacked two pieces for the sides and the chassis using double sided tape. A piece of paper glued in between also works well.

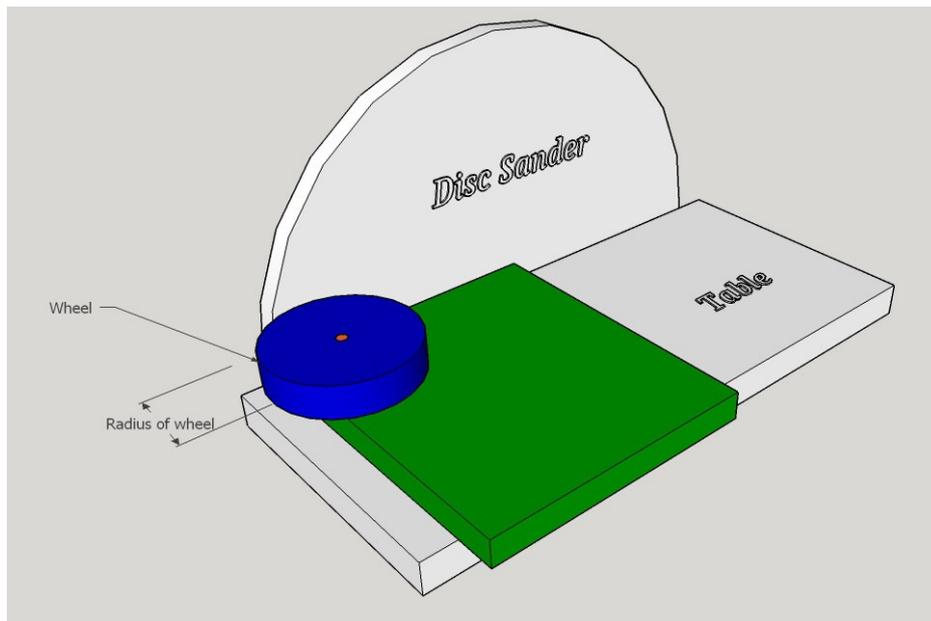
To make the wheels, this time I stacked four pieces and used a simple but effective jig as described below.

Making Large Diameter Wheels

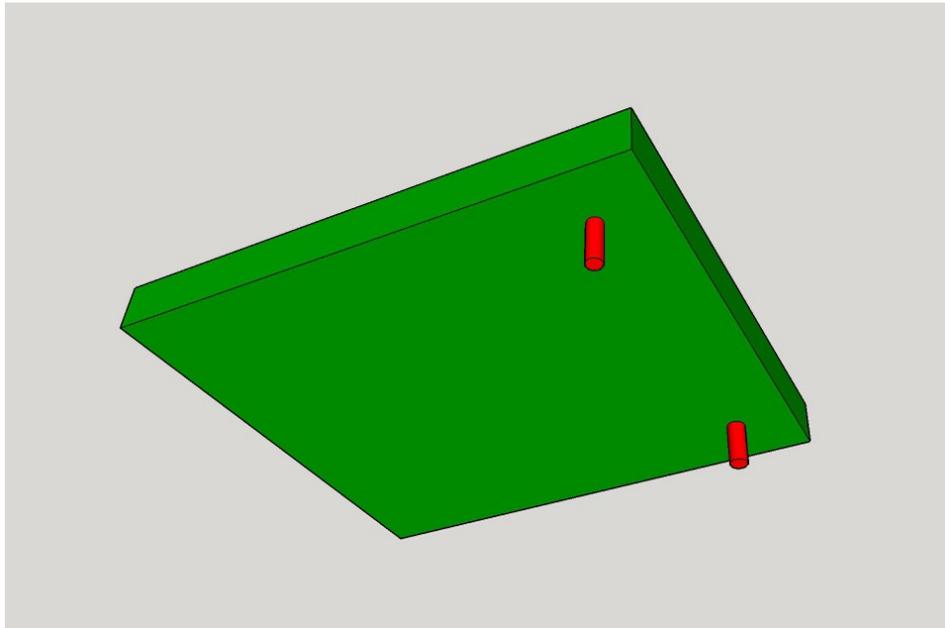
A simple woodworking jig to make large diameter wooden toy wheels.

The way I normally make wheels for toys is to use a circle cutter – I am happy to do this for wheels up to about 70mm in diameter. Anything bigger makes me feel uncomfortable.

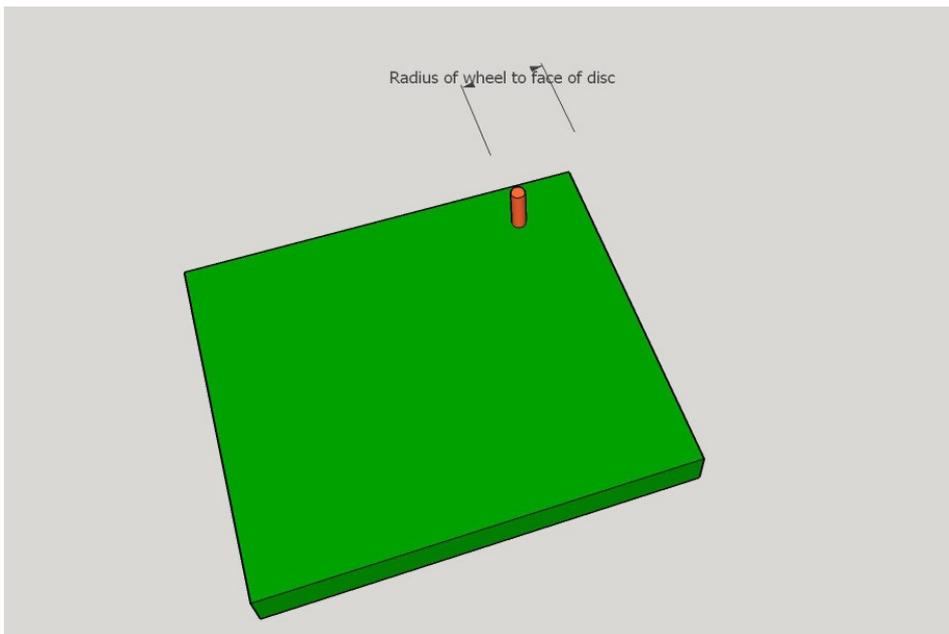
This is how I make large wheels using a disc sander and a very simple but effective jig. When I say large wheels, I mean the size of wheels that cannot be made using the fly cutter, which is another method for making wooden toy wheels.



In the image above, the green represents the jig, very similar to a bench hook. The blue disc is the wheel, and the red dot in the middle is the axle.



Showing the underside of the jig, with two dowel pins fixed in place. These pins rest on the edge of the disc sander table.



Once again the top of the jig, this time without the wheel to show the dowel pin. Measure the radius from the face of the disc to drill the hole. I use the same jig with holes at different positions for wheels of different sizes.

Note that the dowel is a press fit, not glued in place. To do this, I cut a slot in the dowel to make it easier to insert and remove without being too loose.

Woodworking Tip: Note that it is good practice to cut the slot in the dowel along the grain and not across it.

Making the wheel.

Start by marking out the size that I want using a pair of compasses. Sometimes I paste a paper template onto the work-piece.

Drill the hole for the axle.

Using a scroll saw, a band saw or even a jigsaw, I cut out the disc as close to the line as possible trying not to touch it.

Place the rough cut disc on the dowel, it should be able to rotate freely without too much slack.

Start the disc sander, and place the jig on the table with the underside dowel diagonally across from the wheel touching the edge of the table.

This allows me to pivot the jig by applying gentle pressure against the sanding disc and rotating the wheel at the same time. Too much pressure and you burn the wheel.

Slow and gentle is best until you have turned a complete circle, sliding the jig back and forth as you would with any other work-piece.

Viola! You now have a perfectly round large diameter wooden wheel. Not only that, you can make as many as you want and they will all be exactly the same size.

Finishing

There are many ways to apply a finish to a wooden toy. I have used food colouring on pine to good effect.

Conclusion

I certainly hope you have enjoyed making this project. Use this [contact me](#) form if you would like to submit your project to the [photo gallery](#).

About hot melt glue

The advantage of hot melt glue is the speed at which it sets, which is in a way also a disadvantage, because there is no room for error. You have to match up the two pieces really quickly before the glue cools and a proper bond is not formed.

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This is the results of experimenting with glitter.