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Wooden Toy Motorcycle



Here is a wooden toy motorcycle that is easy to make.

Made from 1 inch and ½ inch project timber, which measures 19mm and 12mm thick. The dowels for the axels are 3/8 or 8mm diameter.

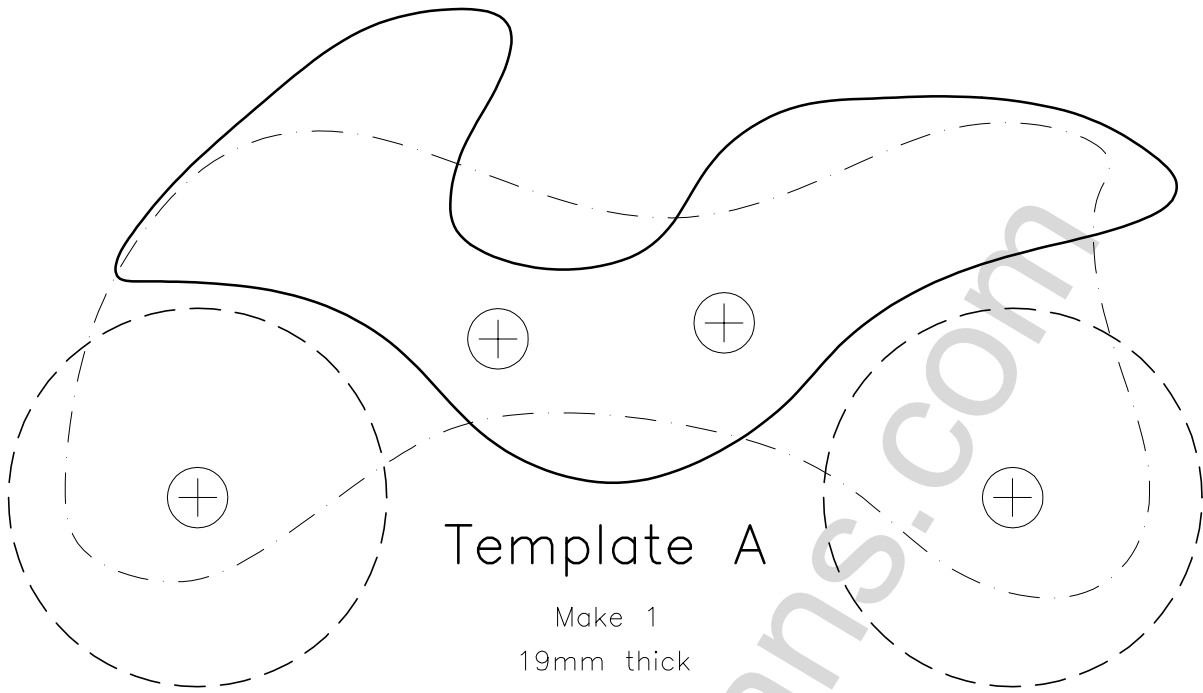
The wheels are 2 inches or 50mm diameter. You can also [make your own wheels](#).

Tools

All you need is a scroll saw or a band saw.

New!

Now includes toy quadbike plans.
Construction for the quadbike is much the same.

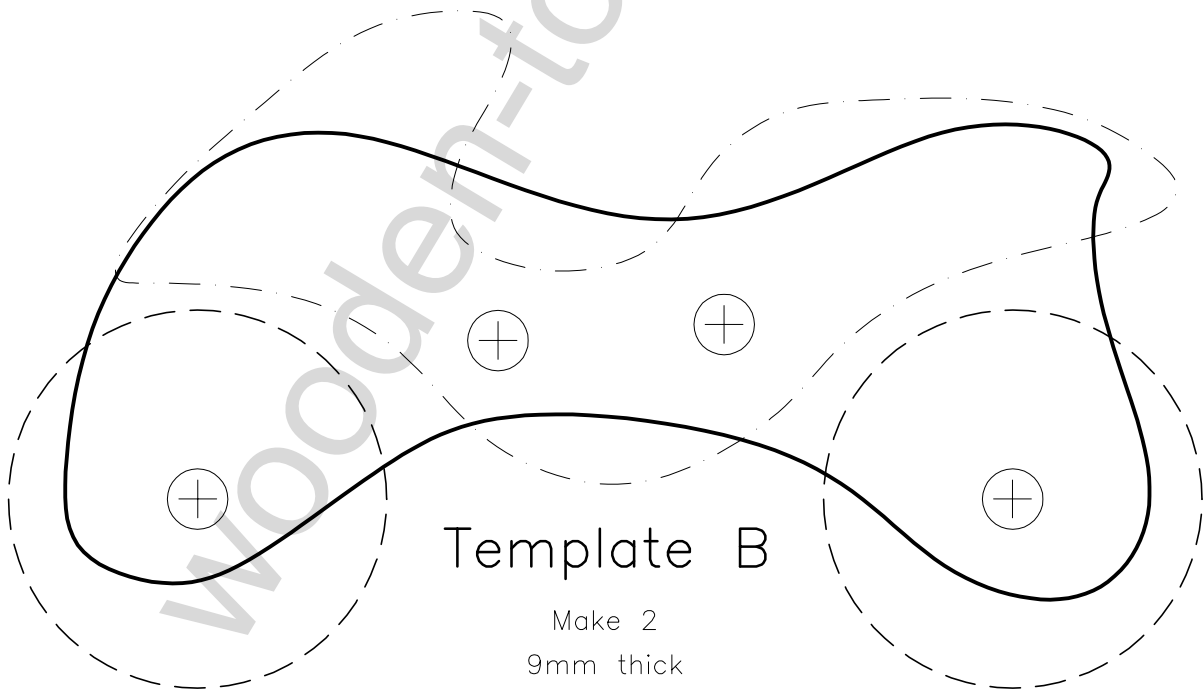


Template A

Make 1
19mm thick

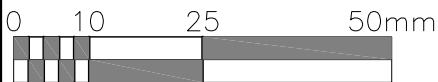
Notes

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for step by step instructions.



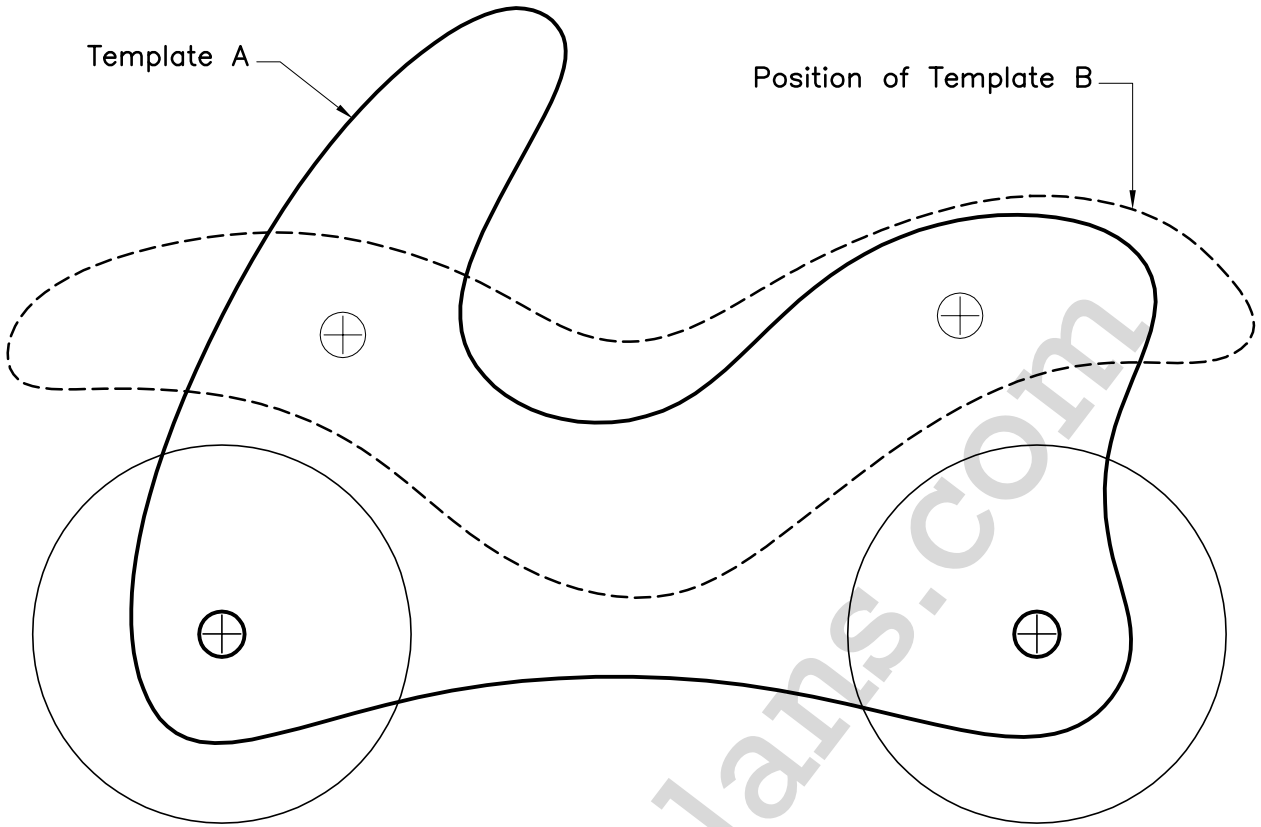
Template B

Make 2
9mm thick



Template A

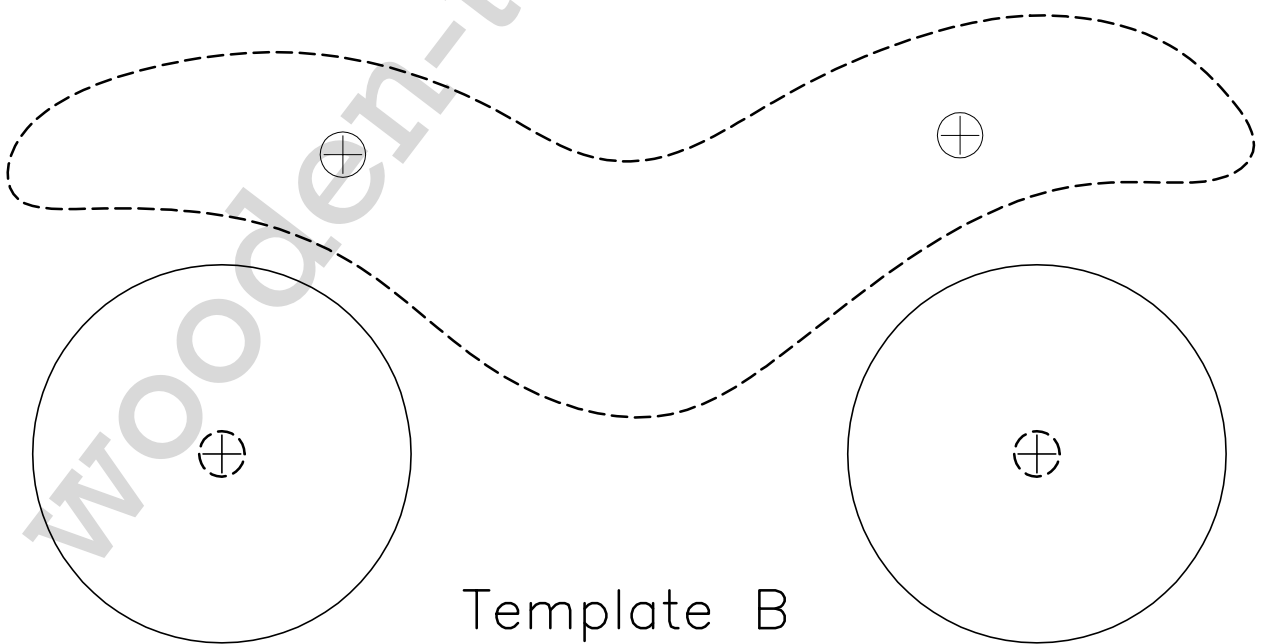
Position of Template B



Template A

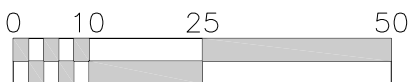
Make 1
38mm thick

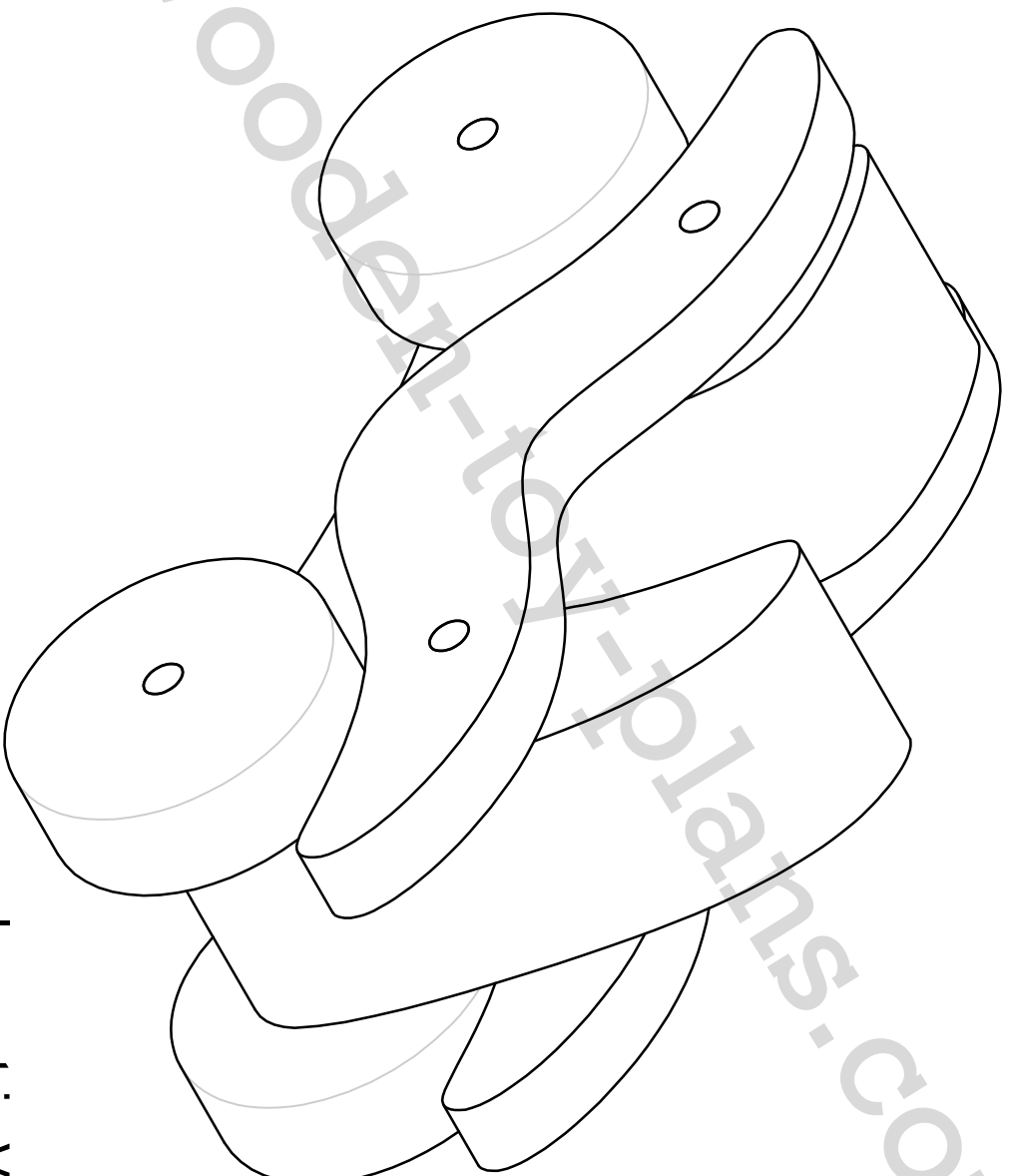
4 Wheels 50mm Dia.



Template B

Make 2
19mm thick

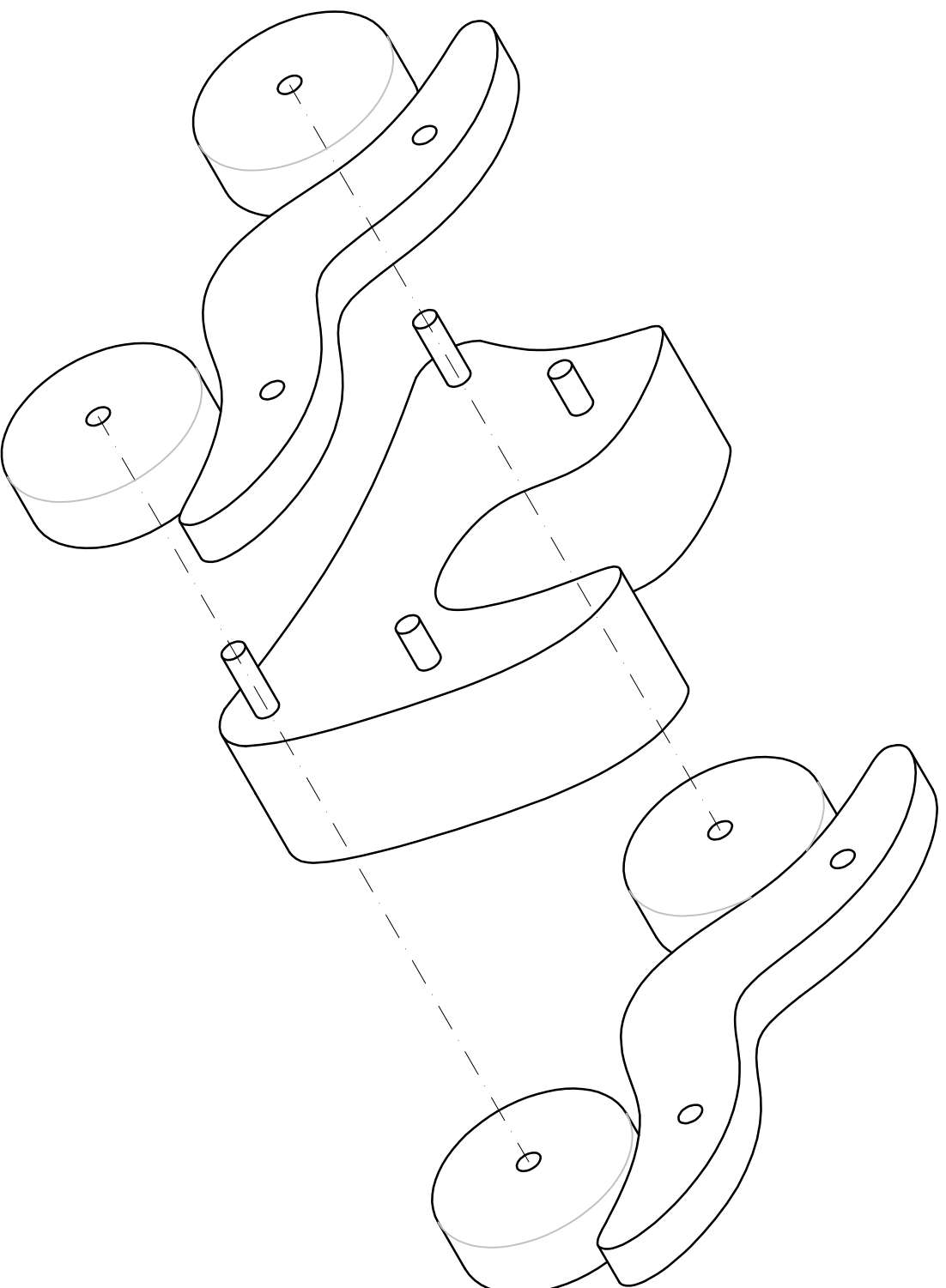




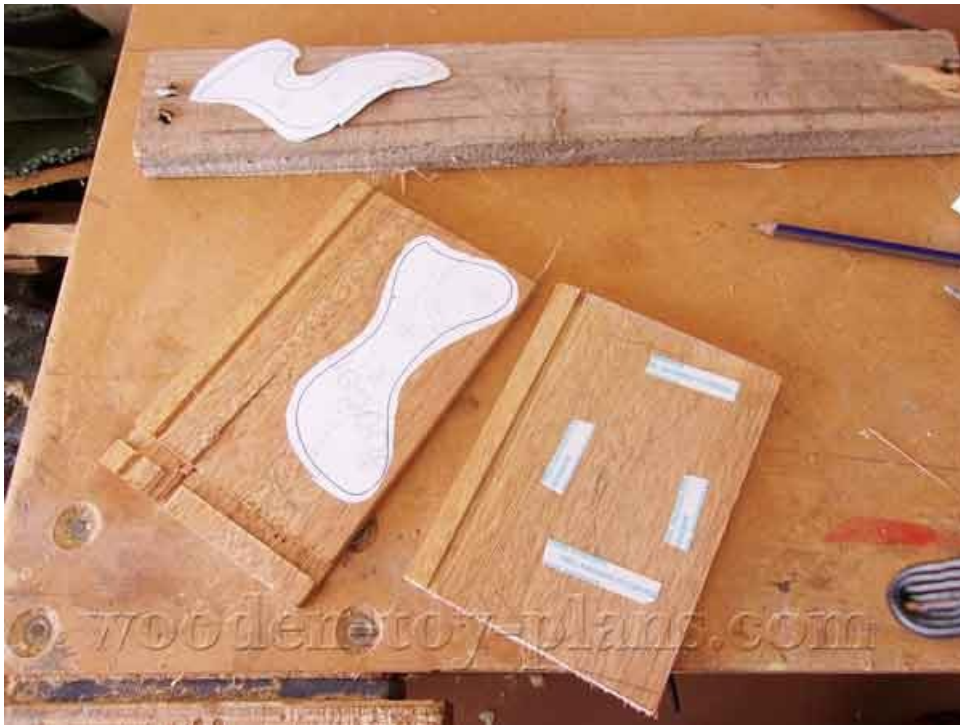
Isometric View

Wooden Toy Quadbike

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Exploded Isometric View



Wooden-toy-motorcycle02za

Step 1

The paper templates are cut out and pasted onto the wood. Here I am using 12mm thick maple recycled from a bureau of drawers.

To cut the two sides, I join the pieces with double sided tape. The paper template is glued on with paper glue.

The middle section, shown on top, is made from recycled pallet timber, shown in its raw state. It measures about 23mm thick once it has been cleaned up.

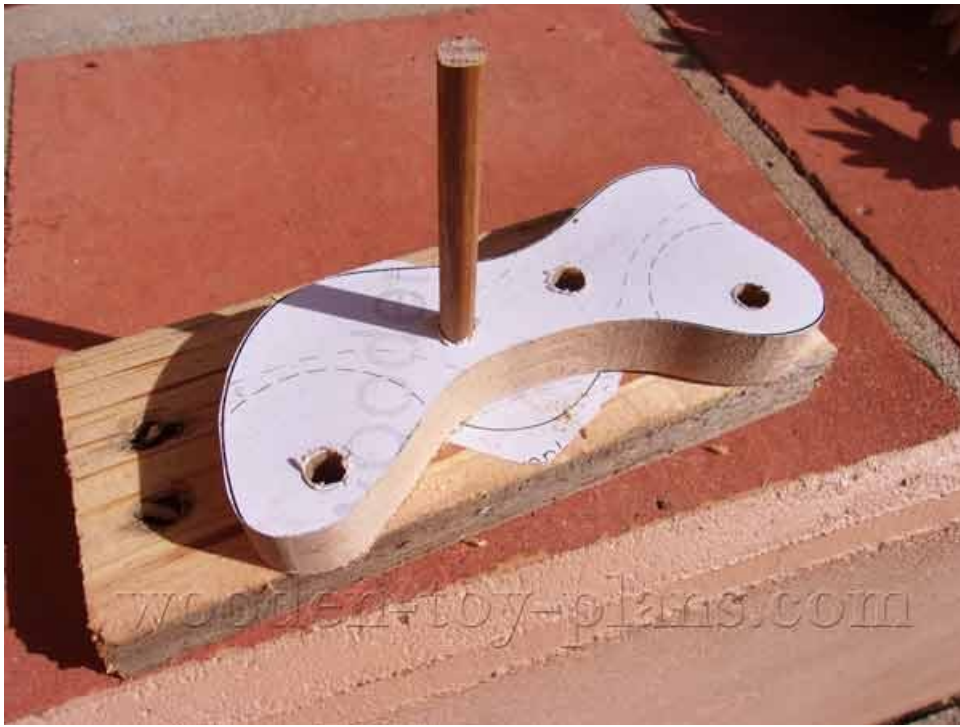
The wheels are made from project timber which is normally 19mm thick, so this gives the wheels enough clearance to spin freely.



Wooden-toy-motorcycle03za

Step 2

Cutting out the sides using a scroll saw. The two sides are stacked and held in place with double sided tape.



Step 3

To make sure the holes are properly aligned, the dowel is holding everything in place to drill the second hole.



Step 4

Dry fit the parts to make sure the wheels can turn freely. Here I have made a set of plastic washers from a milk bottle using a hollow punch.

Note the pencil outline showing the areas to apply the glue.



Here's a useful tip if you like: fluted dowels are best for making joints, but they will probably not be long enough for this application.

To make something similar, I gently but firmly squeeze the dowel with a pair of pliers as shown in the photo. Be careful not to squeeze too much or you will crush the wood fibres and weaken the dowel.

Alternatively you can use a hacksaw blade and scrape along the length of the dowel.



Here's another tip – cut a slot in the end of the dowel that is glued into the sides. This will help to relieve the pressure and prevent the wood from splitting. It also provides a small reservoir of glue.

The slot is cut with a hacksaw, I use a junior hacksaw because the blade is thinner.

Two things to bear in mind – cut the slot along the grain, and when inserting the dowel, make sure it is also in the same direction as the grain.

Final Assembly.

Round over the outer edges. I use a half round file and 80 grit sandpaper.

Glue one side first with the dowels for the axles in place. The directions for the glue that I use says to clamp for at least 30 minutes.

With the wheels and the plastic washers in place, the other side can be glued and clamped in place.

Once the glue has set, trim the dowels flush, give it a final sanding and its ready for your favourite varnish or paint.

