Sardine Automaton files

The diagrams on page 2 need to printed out at 100%. 2 reference squares at the bottom can be used to check that the print out is the correct size.

The files have been created to accompany the YouTube video

https://youtu.be/RBfnnq-lcmE

You will note that the top cam follower in the diagram has an inset square. This should be cut out from each cam follower if you intend to use modelling clay as a counter weight.

The diagram below shows the lay out of the parts.

The next is a template for making the holes in the sardine can.

The fish shapes are provided as an example. Depending on the size of your sardine tin they may need to be adapted to fit.

It is best to cut the fish out whole and do any desired shaping and carving before cutting the joint with a scrollsaw.
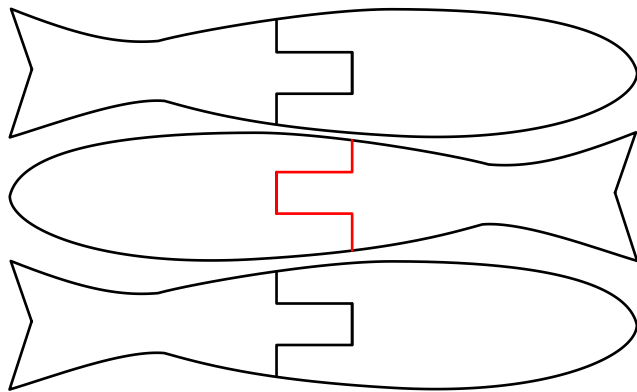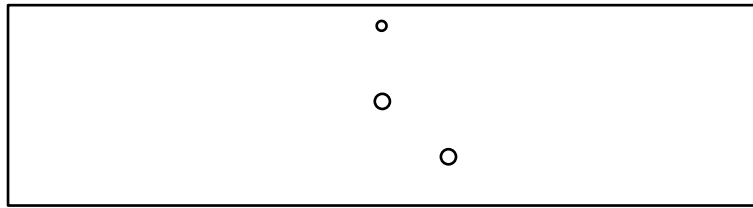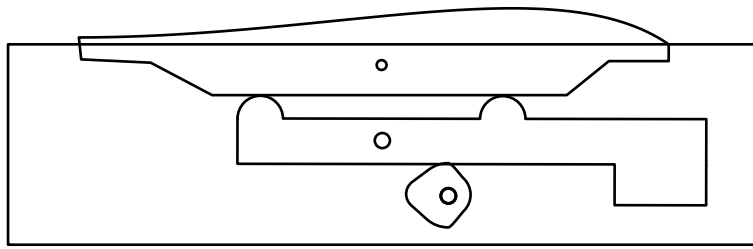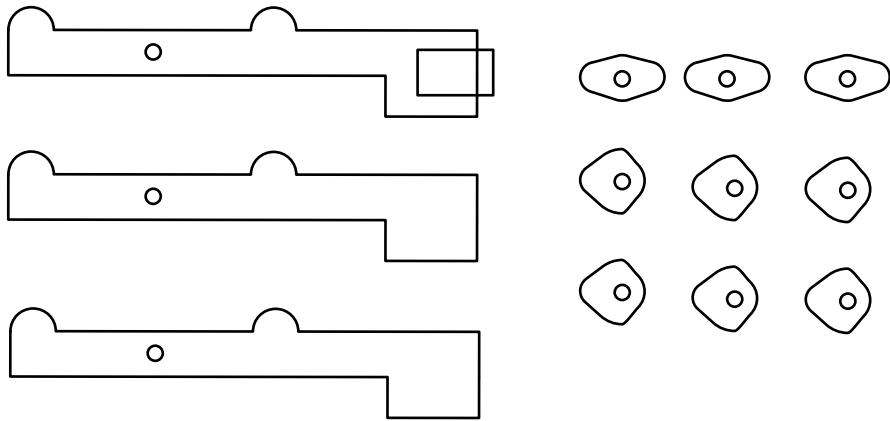
If you have any questions about building this automaton please ask them in the comments box underneath the YouTube video. That way everyone interested gets to see the answer.

DISCLAIMER

The techniques I show in the video I have deemed safe for me using my tools on the materials that I am using with my skill level. They are not a recommendation of the best way to do it in your circumstances. As all of these factors will be different for you, it is important that make you own assessment of what is a safe method for you. WORK SAFELY.

Philip Lowndes

www.lowbot.co.uk Other plans are available.

30mm

1"

Tools required

Basic

A handheld fretsaw

Access to an electric drill

A wire snip/pliers.

Pointy thing

Sandpaper

Better

Electric scrollsaw/fretsaw

Dremel type rotary tool

Ideal

Small pillar drill or drill stand for Dremel.

Small belt sander

Materials required

Sardine tin. Ideally 30mm deep. Minimum without scaling the plans 23mm deep.
(requires extra work cutting a hole in the base.)

6mm (1/4 inch) birch ply for the mechanism.

8mm+ carvable wood like lime, balsa, soft pine for the fish.

2mm (#9863) or 3/32 K&S brass wire (#8163)

1.2mm (3/64) (#8161) K&S brass wire

1mm (1/16") plywood (available from craft stores and online)

Stiff card will work if you cannot find the plywood.

Acrylic paints