

# The Very Hungry Caterpillar

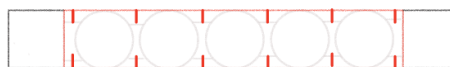
Noel French

..an adaptation / easier way, of the Caterpillar plan from Sth Auckland group (<https://sawg.org.nz/sawg/wp-content/uploads/2023/07/Toy-Wiggly-Worm.pdf>)



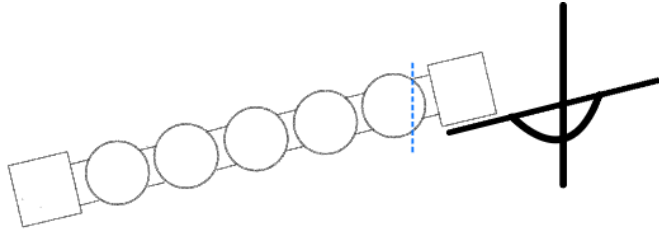
This job can be done between centres without using chucks, except perhaps for head and tail, and requires bandsaw and drill press

1. For a 10 section caterpillar, start with two ~50x300mm lengths of square pine (eg packing case stuff)
2. Keeping ends square, turn to round 35-40mm and mark out 5 divisions, each the width of the cylinder
3. Part between divisions to approximately 2/3 of cylinder diameter (eg for 40mm diameter, part down to 27~30mm)

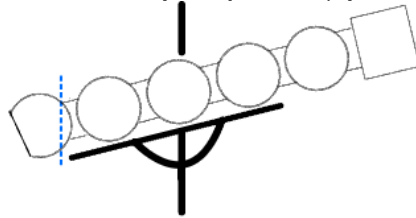


4. Create a round bead at each division as far as the parting cuts
5. Drawing a pencil line from the midpoint of each square end to the other square end can help later orientation

6. On the bandsaw, using a guide set at 15deg from horizontal, cut through from the junction of bead and parting cut

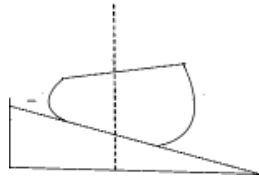


7. Turn the piece over end to end (having square ends really helps here) you can cut in the reverse direction



8. Repeat for remaining 4 sections

9. Next, drill a hole 3mm (or whatever suits chosen elastic source) through the centre of each section. To do this cut a 15 deg angle block piece of scrap, put each rounded section on this block under the drill press, eyeball the centre ( the previous pencil lines are helpful)



10. Round the sharp edges from the bandsaw cuts ( I mounted each section on a short awl and disc-sanded)

11. Repeat whole process for second length of pine

12. Turn desired head and tail shapes of choice

13. For head, turn/sand surface to match section 1

14. For tail turn/sand to match last section, drill 3mm through, and 6mm half through, to accomodate elastic knot

15. Colouring: paint to choice, but I found using food safe wood dyes maintained texture/ grain of wood to good effect, and 3-5ml green dye in a pot of ~20ml water was very quick way to colour; mounting each piece on a food skewer. Added a touch of blue for some sections for variety/effect. Dry overnight.

16. Thread pieces on elastic; superglue into head, stretch/knot at tail

17. Seal surface using lacquer or clear spray can ( dye will bleed into acrylic paint, or wet hands, unless sealed)

18. Paint on eyes, add features such as antennae

19. Et voilà!