

RACING CARS

Many different shaped cars can be made from a basic rectangle of wooden batten, and four wheels cut from dowel rod and attached with screws. Once completed, each racer can be painted in a different colour, or have a number printed on the side, or a clear polyurethane varnish can be applied to enhance the natural grain of the wood

Streamlined Racing Car

Tools

Tenon saw, G-clamp or vice, drill with 1mm (½16in.) and 5mm (¾16in.) bits, screwdriver, small paint brush, ruler, pencil

Materials

Wooden batten, 50mm x 25mm x 178mm (2in. x 1in. x 7in.)

Dowel rod, 38mm (1½in.) diameter

Four 25mm (1in.) round-headed screws

Clear polyurethane varnish

Masking tape

Fine grade sandpaper

Figure 6 Racing car body measurements

To make the racing car

Transfer the measurements in figure 6 to the batten using the ruler and pencil. Secure it with the G-clamp and saw.

Drill four 1mm ($\frac{1}{16}$ in.) holes at the marked points to accommodate the screws.

Sandpaper all over, removing rough and sharp edges.

To make the wheels

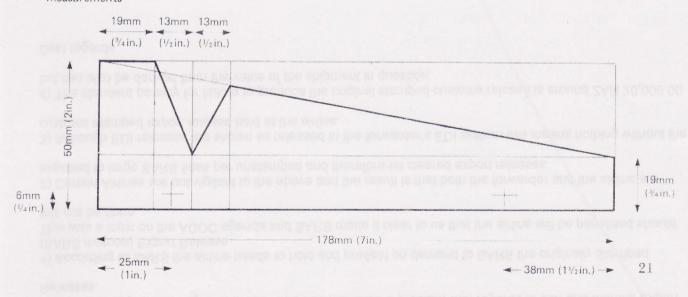
Divide the dowel into four 19mm (3/4 in.) sections. Wrap masking tape around the dowel and saw.

Secure each piece in the vice and drill a 5mm (3/16 in.) hole through the centre.

Attach the screws loosely so that the wheels can rotate freely.

Finishing

Apply clear polyurethane varnish or paint if desired.



Small Racing Car Set

Tools

Tenon saw, G-clamp or vice, set square, bradawl, small screwdriver, ruler, pencil

Materials

Masking tape

Fine grade sandpaper

Wooden batten, 25mm x 25mm x 305mm (1in. x 1in. x 12in.)
Dowel rod, 25mm (1in.)
diameter
Twelve 19mm (¾in.) round-headed screws
Wood glue

These instructions are for a set of three cars of varying shape: to obtain different shaped cars, vary the angles when making the body.

To make the racing cars

Divide the batten into three 102mm (4in.) sections. Clamp, and saw the end off each piece at an angle. Glue an off-cut on top of each body (see photograph). On the bodies mark four points for the wheels 5mm ($\frac{3}{16}$ in.) up from the base, 22mm ($\frac{7}{8}$ in.) from the back and front: start the wheel holes with the bradawl.

Sandpaper all over, removing rough and sharp edges.

To make the wheels

Divide the dowel into twelve 8mm (5/16 in.) sections.

Wrap masking tape around the dowel, and saw.

Secure each piece in the vice and drill a 3mm (1/8 in.) hole through the centre.

Attach the screws loosely so that the wheels can rotate freely.

Large Racing Car

Tools

Tenon saw, G-clamp or vice, drill with 1mm (½16in.) and 5mm (¾16in.) bits, screwdriver, set square, small paint brush, ruler, pencil

Materials

Wooden batten, 51mm x 51mm x 230mm (2in. x 2in. x 9in.)
Dowel rod, 51mm (2in.) diameter
Four 38mm (1½in.) round-headed screws
Wood glue

Clear polyurethane varnish Masking tape Fine and medium grade sandpaper These chunky racing cars need only a gentle push to send them speeding across the floor. Their wide wheels give them extra stability.

To make the racing car

Secure the batten with the G-clamp and saw off one end at an angle of 45 degrees.

Glue the off-cut on top of the body (see photograph).

Saw off the front of the car at an angle.

On the body, mark four points 6mm ($\frac{1}{4}$ in.) up from the base, 51mm (2in.) from the back, and 64mm ($\frac{21}{2}$ in.) from the front: clamp, and drill 1mm ($\frac{1}{16}$ in.) holes.

Sandpaper all over, removing all rough and sharp edges.

To make the wheels

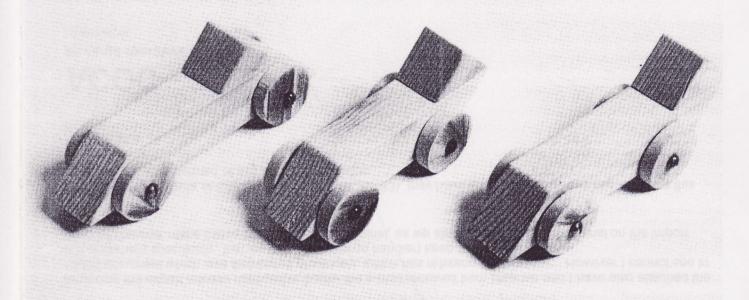
Divide the dowel into four 22mm (%sin.) sections. Wrap masking tape around the dowel and saw. Secure each piece in the vice and drill a 5mm (%16 in.) hole through the centre.

Attach the screws loosely so that the wheels can rotate freely.

Finishing

Apply varnish to enhance the natural grain of the wood.

Original Nessage——
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Small racing cars, length 102mm (4in.)

THE SHOP

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