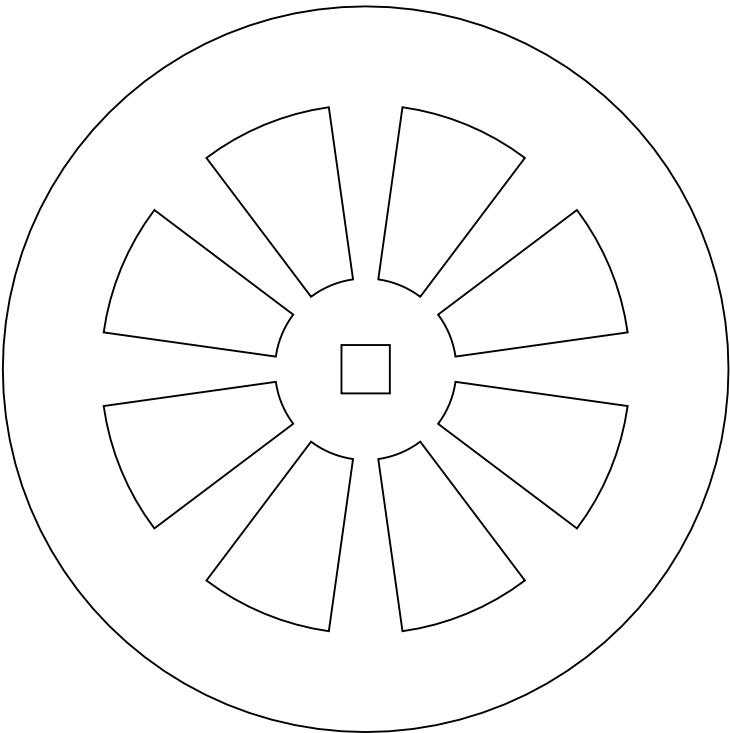


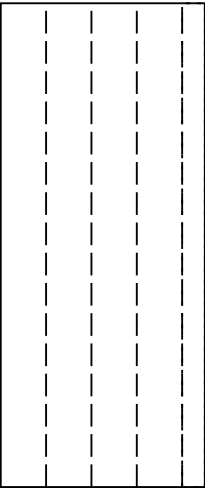
Stationary Paper Waterwheel

water-wheel / 1.0.0 / Letter / Template page 1

R2 | cut 1
96.00 x 96.00 mm



AX | cut 1
27.00 x 64.00 mm



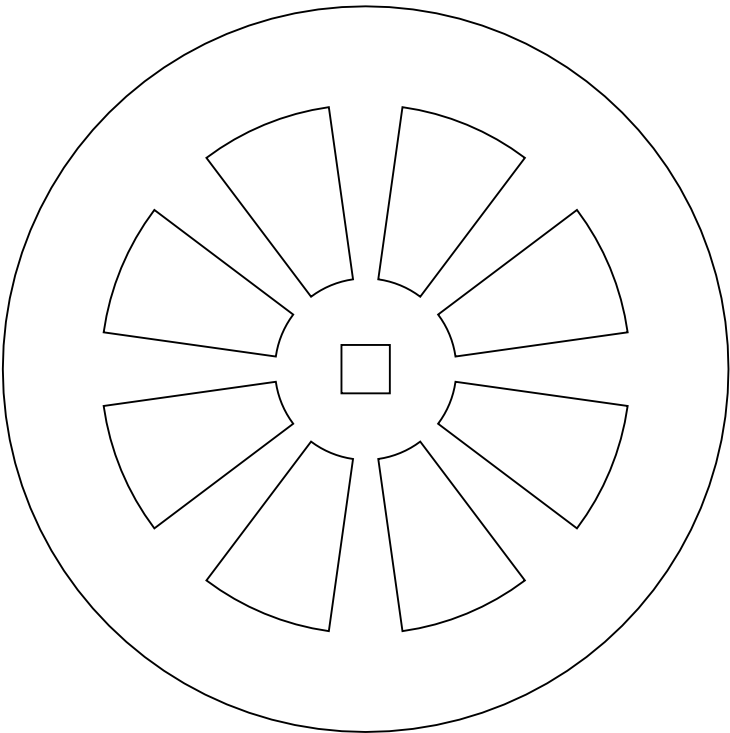
P1 | cut 1
10.00 x 42.00 mm



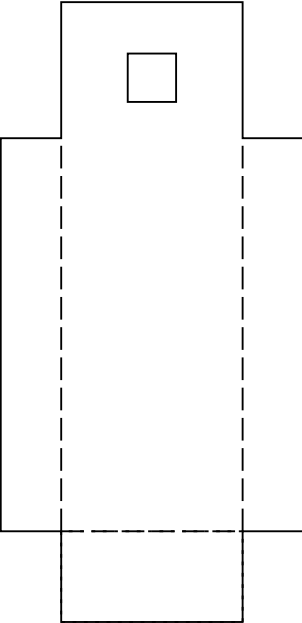
P2 | cut 1
10.00 x 42.00 mm



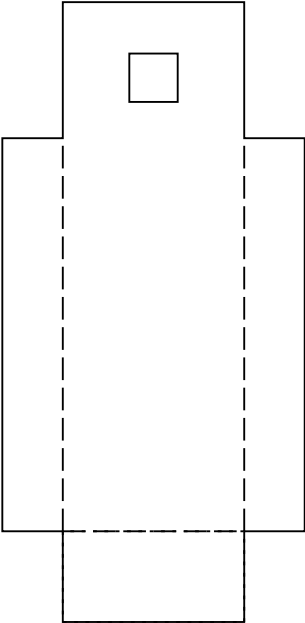
R1 | cut 1
96.00 x 96.00 mm



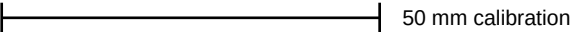
S1 | cut 1
40.00 x 82.00 mm



S2 | cut 1
40.00 x 82.00 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

Stationary Paper Waterwheel

water-wheel / 1.0.0 / Letter / Template page 2

P6 | cut 1
10.00 x 42.00 mm



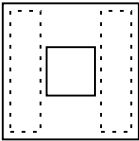
P7 | cut 1
10.00 x 42.00 mm



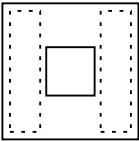
P8 | cut 1
10.00 x 42.00 mm



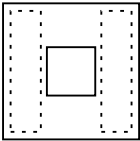
C1 | cut 1
18.00 x 18.00 mm



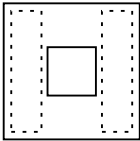
C2 | cut 1
18.00 x 18.00 mm



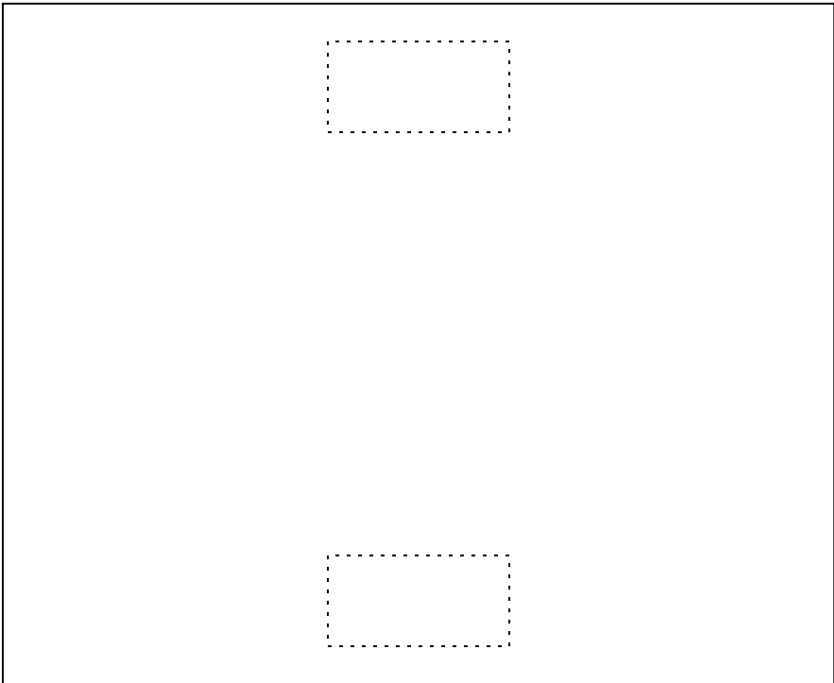
C3 | cut 1
18.00 x 18.00 mm



C4 | cut 1
18.00 x 18.00 mm



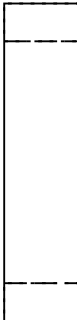
BASE | cut 1
110.00 x 90.00 mm



P3 | cut 1
10.00 x 42.00 mm



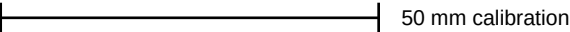
P4 | cut 1
10.00 x 42.00 mm



P5 | cut 1
10.00 x 42.00 mm



Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



Print at 100% / Actual size. Do not fit to page. Original paper craft template.

Stationary Paper Waterwheel

water-wheel / 1.0.0 / Letter / Assembly instructions

Finished size: 110 x 90 x 108 mm

Materials: 220-250 gsm cardstock; PVA glue; Scissors; Craft knife and cutting mat; Ruler and blunt scoring tool

Original construction. Physical printing, cutting and assembly remain pending.

Stationary decorative model only; not a functioning water device. No rotation, water, or external loads.

All 18 physical paper pieces are supplied, including four reinforcing collars. No hidden axle, wire, stand or ballast.

Rigid-face meshes include every integral glue tab with exact flat correspondence. Rim holes are actual removed paper.

Paper and glue thickness, stiffness and drying distortion are idealized; 6.4 mm holes provide nominal clearance for the 6 mm folded axle. Collar layers are offset by 0.2 mm in the preview. Physical fit and stability remain unverified.

Part inventory (cut each instance once):

BASE: Display base

S1: Footed axle support

S2: Footed axle support

AX: Square paper axle

R1: Pierced rim and spokes

R2: Pierced rim and spokes

P1: Connecting paddle

P2: Connecting paddle

P3: Connecting paddle

P4: Connecting paddle

P5: Connecting paddle

P6: Connecting paddle

P7: Connecting paddle

P8: Connecting paddle

C1: Fixed axle collar

C2: Fixed axle collar

C3: Fixed axle collar

C4: Fixed axle collar

1. Print and cut all paper parts [BASE]: Print at 100% and confirm the 50 mm ruler. Cut all 18 pieces, including the eight windows and square axle hole in each rim. Cut the square holes in supports and collars. Score dashed creases before folding. Retain every integral tab.

2. Fold and mount the two supports [S1, S2, BASE]: S1 and S2 each have a 24 x 70 mm upright. Fold the 12 mm bottom foot 90 degrees outward; fold both 8 x 52 mm side returns 90 degrees toward that same outward side. Glue the feet to the two marked 24 x 12

Stationary Paper Waterwheel

water-wheel / 1.0.0 / Letter / Assembly instructions continued

mm BASE areas. Uprights are 56 mm apart, centered across the 110 mm base width, and 17 mm inward from each 90 mm base edge. Square the uprights and let dry.

3. Make the fixed square axle [AX]: Fold AX at 6, 12, 18 and 24 mm across its 27 mm width, all 90 degrees in the same wrapping direction. Glue the final 3 mm lap inside the first face. Keep the section square, 6 x 6 mm, along its full 64 mm length. Leave both ends open; no rod or wire is needed. Dry fully.

4. Reinforce the rim hubs [R1, R2, C1, C2]: Center C1 on the outer face of R1 and C2 on the outer face of R2. Align the 6.4 mm square holes exactly, apply glue to the collar back around the hole, and press flat. The collars are 18 mm square and remain within the solid central hubs.

5. Attach eight paddle ends to the first rim [P1, P2, P3, P4, P5, P6, P7, P8, R1]: Each paddle has a 10 x 32 mm blade and two 10 x 5 mm end tabs. Fold both tabs 90 degrees to the same tangential side of the blade. On the inner face of R1, glue one tab per spoke at 45 degree intervals. Set each blade crease radially from 37 to 47 mm from the hub center; the tab extends 5 mm clockwise as viewed from outside R1. Blade spans stand perpendicular to the rim. Dry with blades square.

6. Close the wheel with the second rim [R2, P1, P2, P3, P4, P5, P6, P7, P8]: Apply glue to the eight remaining 5 mm tabs and seat R2 on them, inner face toward R1. Align corresponding spokes and square hub holes; do not offset the pattern. Keep the two rim planes parallel and exactly 32 mm apart. Press each tab through a neighboring window and let the wheel dry completely.

7. Reinforce the support bearings [C3, C4, S1, S2]: Glue C3 and C4 to the inward-facing sides of S1 and S2, aligning square holes. Each collar center is 60 mm above the base. The collars reinforce fixed paper joints, not rotating bearings. Dry before loading.

8. Install and permanently fix the wheel [AX, R1, R2, C1, C2, C3, C4]: Hold the dry wheel between the supports. Slide AX through S1/C3, R1/C1, R2/C2, then S2/C4. Center the 64 mm axle so 4 mm protrudes beyond each support plane. Set each rim 12 mm inward from its adjacent support plane; wheel center is 60 mm above BASE with 12 mm bottom clearance. Keep spokes horizontal/vertical and at 45 degrees. Apply a small PVA fillet around all four axle-to-collar square joints, hold square, and dry. This is a stationary decorative waterwheel, not a functioning water device; do not rotate, wet, or load it.