

Fixed Miniature Ferris Wheel

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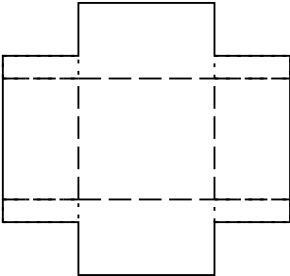
LOCK_W | cut 1
12.00 x 12.00 mm



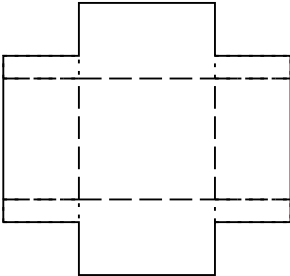
LOCK_F | cut 1
12.00 x 12.00 mm



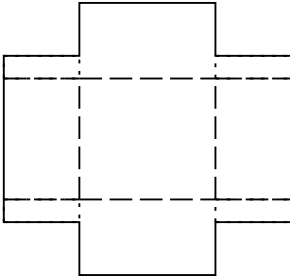
BOX_1 | cut 1
38.00 x 36.00 mm



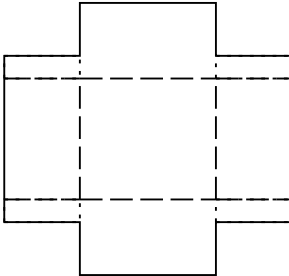
BOX_2 | cut 1
38.00 x 36.00 mm



BOX_3 | cut 1
38.00 x 36.00 mm



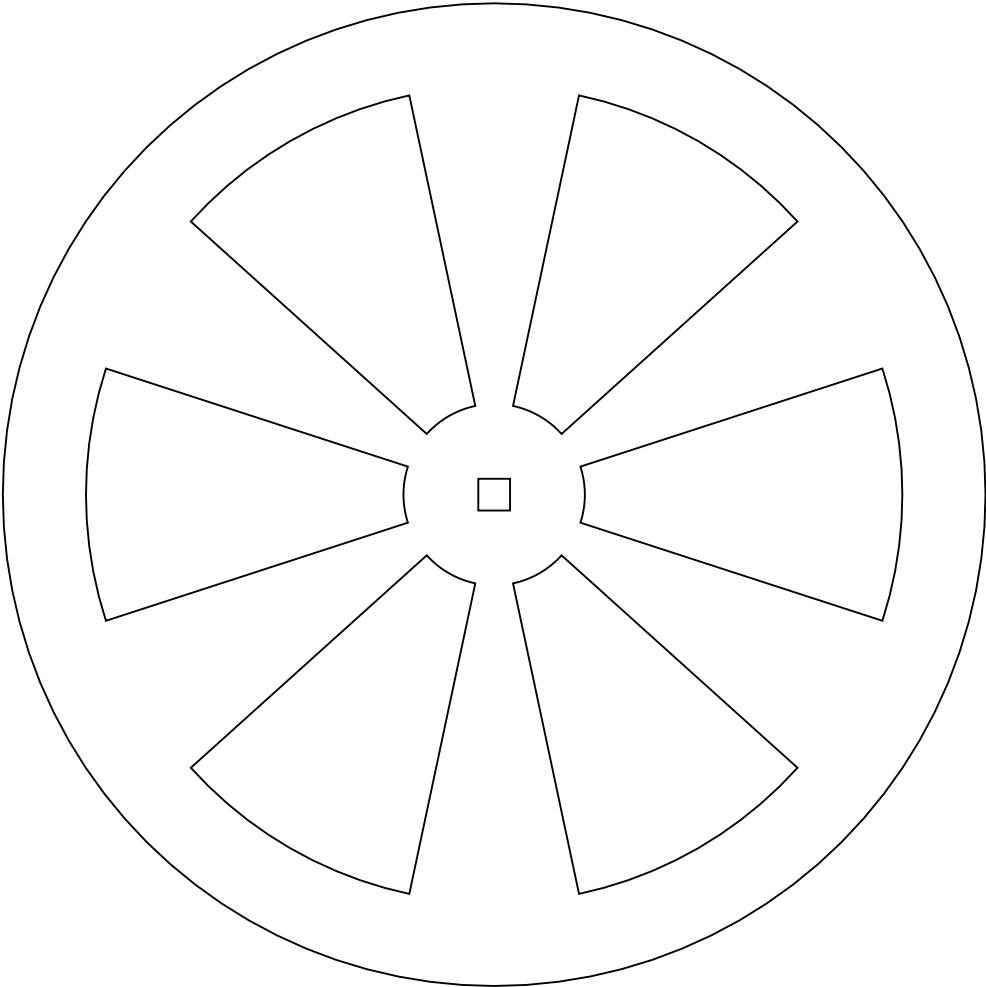
BOX_4 | cut 1
38.00 x 36.00 mm



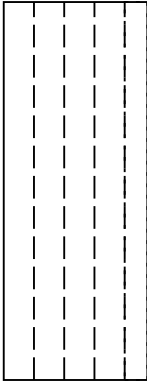
LOCK_R | cut 1
12.00 x 12.00 mm



WHEEL_R | cut 1
130.00 x 130.00 mm



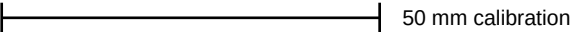
AXLE | cut 1
19.00 x 50.00 mm



HANGER_1 | cut 1
8.00 x 23.00 mm



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

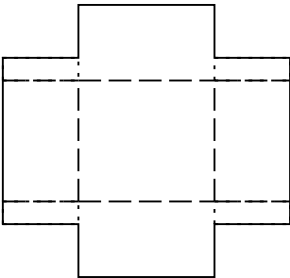


Print at 100% / Actual size. Do not fit to page. Original paper craft template.

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BOX_6 | cut 1
38.00 x 36.00 mm



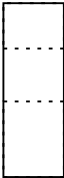
HANGER_2 | cut 1
8.00 x 23.00 mm



HANGER_3 | cut 1
8.00 x 23.00 mm



HANGER_4 | cut 1
8.00 x 23.00 mm



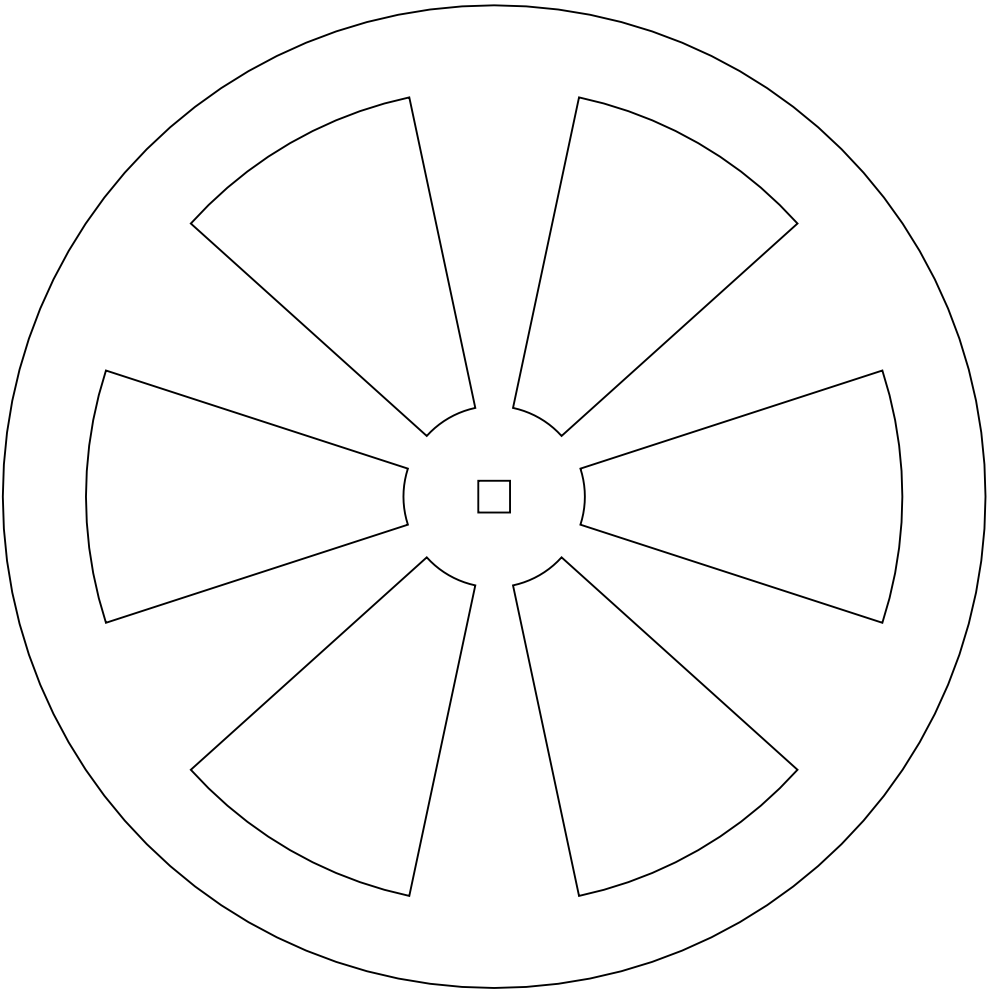
HANGER_5 | cut 1
8.00 x 23.00 mm



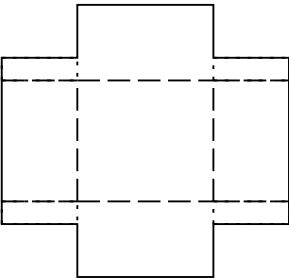
HANGER_6 | cut 1
8.00 x 23.00 mm



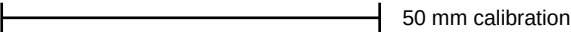
WHEEL_F | cut 1
130.00 x 130.00 mm



BOX_5 | cut 1
38.00 x 36.00 mm



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



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

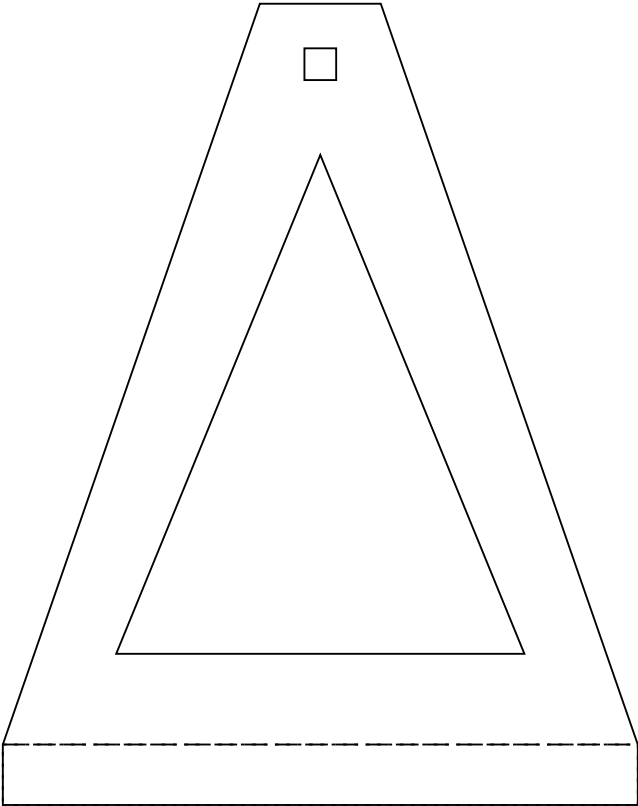
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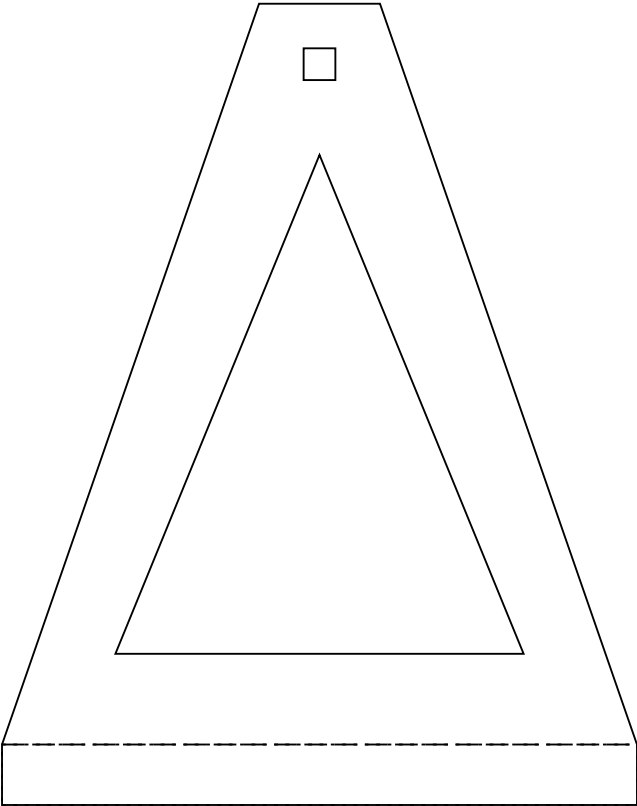
BASE | cut 1
150.00 x 70.00 mm



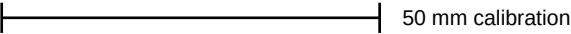
FRAME_R | cut 1
84.00 x 106.00 mm



FRAME_F | cut 1
84.00 x 106.00 mm



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



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Finished size: 150 x 70 x 155 mm

Materials: 250-300 gsm cardstock; PVA glue; Scissors; Craft knife and cutting mat; Ruler and scoring tool

Original measured construction. Fixed decorative nonrotating model; gondolas do not swing.

All structural pieces, axle, collars, mounting straps and box corner tabs are printable paper. No hidden wire or dowel.

Rigid folded faces preserve template dimensions. Paper thickness, glue thickness and stiffness are idealized; small display offsets distinguish laminated faces.

Generation only. Physical printing, cutting, assembly and load/stability verification deferred.

Part inventory (cut each instance once):

BASE: Display base

FRAME_R: A frame with base flange

FRAME_F: A frame with base flange

AXLE: Fixed square paper axle

WHEEL_R: Cutout rim and six spokes

WHEEL_F: Cutout rim and six spokes

LOCK_R: Fixed axle collar

LOCK_W: Fixed axle collar

LOCK_F: Fixed axle collar

HANGER_1: Gondola mounting strap

BOX_1: Open upright gondola

HANGER_2: Gondola mounting strap

BOX_2: Open upright gondola

HANGER_3: Gondola mounting strap

BOX_3: Open upright gondola

HANGER_4: Gondola mounting strap

BOX_4: Open upright gondola

HANGER_5: Gondola mounting strap

BOX_5: Open upright gondola

HANGER_6: Gondola mounting strap

BOX_6: Open upright gondola

1. Cut at actual size [BASE]: Print at 100 percent and confirm the 50 mm ruler. Use 250-300 gsm card. Cut all outlines and enclosed waste, including the six wheel windows and square axle holes. Score folds before assembly. BASE is 150 x 70 mm; place its long edge

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horizontally.

2. Mount the two A frames [FRAME_R, FRAME_F]: Fold each 84 x 8 mm foot flange 90 degrees forward. On BASE measure x from the left edge and y from the rear edge. Center both frames at x=75 mm. Place rear upright at y=14 mm, front upright at y=56 mm, with flanges extending to y=22 and 64 mm. Glue full flanges to BASE; hold uprights perpendicular until dry. Axle centers are 90 mm above the base.

3. Fold the real paper axle [AXLE]: Fold AXLE at 4, 8, 12 and 16 mm across its width, each 90 degrees around a 4 x 4 mm square. Glue the final 3 mm lap inside the first face along the full 50 mm length. Keep straight and let dry. The tube remains open-ended; no wooden dowel or hidden wire is used.

4. Laminate and lock the wheel [WHEEL_R, WHEEL_F, LOCK_R, LOCK_W, LOCK_F]: Align WHEEL_R and WHEEL_F exactly and glue matching rims, spokes and hubs back to back, keeping all waste windows open. Orient a spoke vertically upward. Slide AXLE through rear frame, wheel and front frame: rear end projects 4 mm beyond rear frame, front end 4 mm beyond front frame. Wheel front face is 16 mm forward of rear frame and 26 mm behind front frame. Glue square holes to axle. Glue LOCK_R, LOCK_W and LOCK_F around the axle against the forward faces of rear frame, wheel and front frame respectively, and glue collar hole edges to axle. Dry upright. All joints are fixed: this decorative wheel does not rotate.

5. Mount upright gondola 1 [HANGER_1, BOX_1]: Fold BOX_1 walls 90 degrees up around its 18 x 16 mm floor. Fold the four 3 mm corner tabs inward and glue inside front/back walls; keep the top open. On the front wheel face locate the spoke/rim mount at x=51.96 mm relative to hub and height 120.00 mm above BASE (60 mm radially from hub). Glue the top 6 mm of HANGER_1 centered on that mount; strap stays vertical, top 3 mm above mount, bottom 20 mm below. Glue the centered 8 x 10 mm lower strap area flat to the outside of the gondola back wall. Floor height is 100.00 mm; box projects 16 mm forward from wheel. Hold the floor level and back wall against strap until fully dry. The box is physically supported by this glued strap, not a floating or swinging seat.

6. Mount upright gondola 2 [HANGER_2, BOX_2]: Fold BOX_2 walls 90 degrees up around its 18 x 16 mm floor. Fold the four 3 mm corner tabs inward and glue inside front/back walls; keep the top open. On the front wheel face locate the spoke/rim mount at x=0.00 mm relative to hub and height 150.00 mm above BASE (60 mm radially from hub). Glue the top 6 mm of HANGER_2 centered on that mount; strap stays vertical, top 3 mm above mount, bottom 20 mm below. Glue the centered 8 x 10 mm lower strap area flat to the outside of the gondola back wall. Floor height is 130.00 mm; box projects 16 mm forward from wheel. Hold the floor level and back wall against strap until fully dry. The box is physically supported by this glued strap, not a floating or swinging seat.

7. Mount upright gondola 3 [HANGER_3, BOX_3]: Fold BOX_3 walls 90 degrees up around its 18 x 16 mm floor. Fold the four 3 mm corner tabs inward and glue inside front/back walls; keep the top open. On the front wheel face locate the spoke/rim mount at x=-51.96 mm relative to hub and height 120.00 mm above BASE (60 mm radially from hub). Glue the top 6 mm of HANGER_3 centered on that mount; strap stays vertical, top 3 mm above mount, bottom 20 mm below. Glue the centered 8 x 10 mm lower strap area flat to the outside of the gondola back wall. Floor height is 100.00 mm; box projects 16 mm forward from wheel. Hold the floor level and back wall against strap until fully dry. The box is physically supported by this glued strap, not a floating or swinging seat.

8. Mount upright gondola 4 [HANGER_4, BOX_4]: Fold BOX_4 walls 90 degrees up around its 18 x 16 mm floor. Fold the four 3 mm corner tabs inward and glue inside front/back walls; keep the top open. On the front wheel face locate the spoke/rim mount at x=-51.96 mm relative to hub and height 60.00 mm above BASE (60 mm radially from hub). Glue the top 6 mm of HANGER_4 centered on that mount; strap stays vertical, top 3 mm above mount, bottom 20 mm below. Glue the centered 8 x 10 mm lower strap area flat to the outside of the gondola back wall. Floor height is 40.00 mm; box projects 16 mm forward from wheel. Hold the floor level and back wall against strap until fully dry. The box is physically supported by this glued strap, not a floating or swinging seat.

9. Mount upright gondola 5 [HANGER_5, BOX_5]: Fold BOX_5 walls 90 degrees up around its 18 x 16 mm floor. Fold the four 3 mm corner tabs inward and glue inside front/back walls; keep the top open. On the front wheel face locate the spoke/rim mount at x=-0.00 mm relative to hub and height 30.00 mm above BASE (60 mm radially from hub). Glue the top 6 mm of HANGER_5 centered on that mount; strap stays vertical, top 3 mm above mount, bottom 20 mm below. Glue the centered 8 x 10 mm lower strap area flat to the outside of the gondola back wall. Floor height is 10.00 mm; box projects 16 mm forward from wheel. Hold the floor level and back wall against strap until fully dry. The box is physically supported by this glued strap, not a floating or swinging seat.

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10. Mount upright gondola 6 [HANGER_6, BOX_6]: Fold BOX_6 walls 90 degrees up around its 18 x 16 mm floor. Fold the four 3 mm corner tabs inward and glue inside front/back walls; keep the top open. On the front wheel face locate the spoke/rim mount at $x=51.96$ mm relative to hub and height 60.00 mm above BASE (60 mm radially from hub). Glue the top 6 mm of HANGER_6 centered on that mount; strap stays vertical, top 3 mm above mount, bottom 20 mm below. Glue the centered 8 x 10 mm lower strap area flat to the outside of the gondola back wall. Floor height is 40.00 mm; box projects 16 mm forward from wheel. Hold the floor level and back wall against strap until fully dry. The box is physically supported by this glued strap, not a floating or swinging seat.

11. Final drying and display [BASE, AXLE]: Let all axle, frame and gondola glue joints dry completely before lifting by BASE. Six boxes remain upright and permanently fixed. Do not turn the wheel or load the boxes. Paper and glue thickness are idealized; close face offsets in the preview represent laminated joints. This is a static decorative miniature, not a working ride.