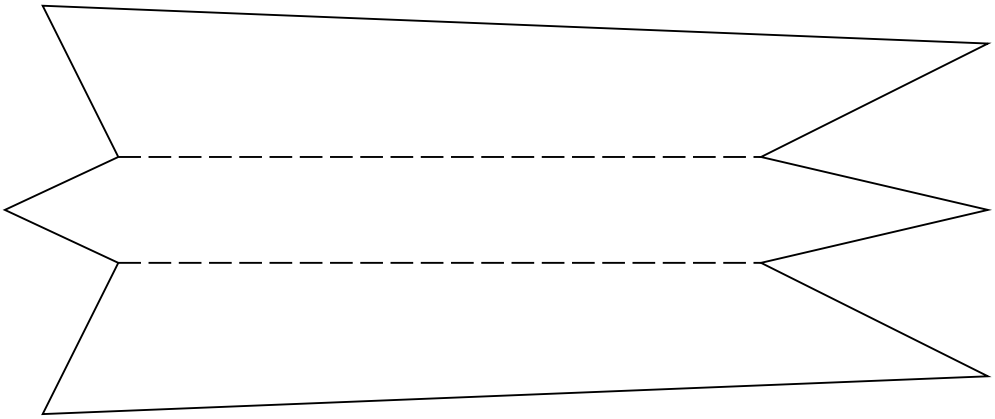
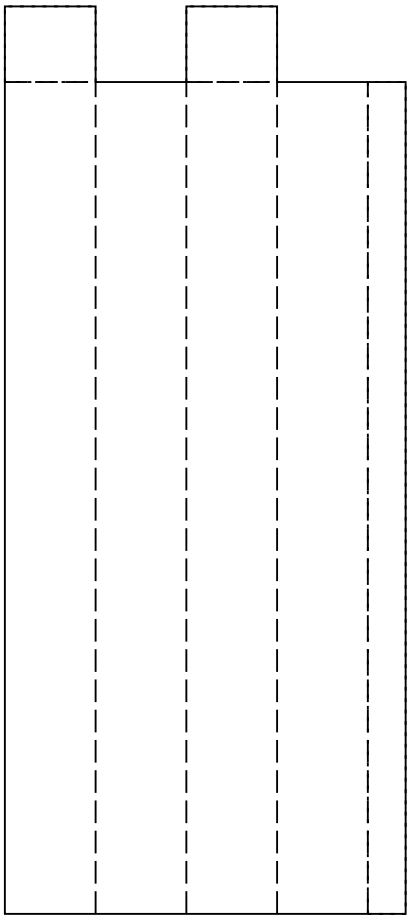
Bird of Paradise

bird-of-paradise / 1.0.0 / A4 / Template page 1

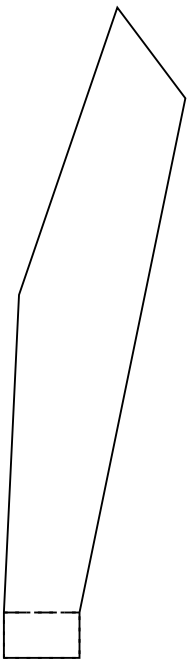
B1 | cut 1
130.00 x 54.00 mm



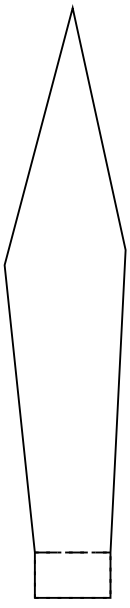
S1 | cut 1
53.00 x 120.00 mm



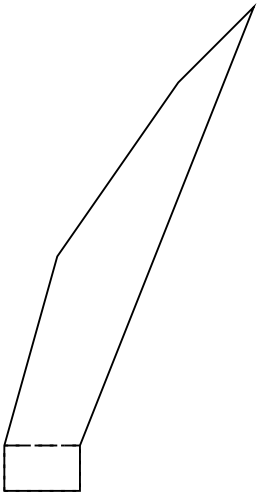
O2 | cut 1
24.00 x 86.00 mm



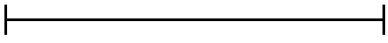
O1 | cut 1
16.00 x 78.00 mm



O3 | cut 1
33.00 x 64.00 mm



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



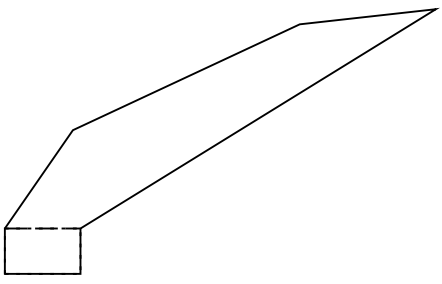
50 mm calibration

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

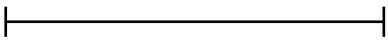
Bird of Paradise

bird-of-paradise / 1.0.0 / A4 / Template page 2

T1 | cut 1
57.00 x 35.00 mm



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



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

Bird of Paradise

bird-of-paradise / 1.0.0 / A4 / Assembly instructions

Finished size: 130 x 37 x 190 mm excluding required external clamp

Materials: 180-220 gsm cardstock for flower parts; 220-250 gsm cardstock for square stem; Scissors or craft knife, scoring tool and ruler; PVA paper glue; External padded desk clamp with a 12 mm opening and at least 25 mm grip height (required; not a paper part)

Original measured planar design; not a botanical replica. The green bract is an open-ended angular trough, not a sealed vessel.

All panels, integral feet and seam tabs have exact flat-to-folded face correspondence. No curling, stretching, hidden wire or extra cutting is required.

The square stem is NOT freestanding: secure its bottom 25 mm in a padded desk clamp before loading the flower. Clamp hardware is external and not included in the GLB.

The 3D geometry idealizes paper and glue as zero thickness; contacting glue feet and seam laps intentionally overlap. Allow for card thickness when closing the stem.

Generation only. Physical printing, assembly, clamp grip and cantilever stability remain pending; screen review deferred.

Part inventory (cut each instance once):

S1: Square stem with top feet

B1: Horizontal green boat bract

O1: Rear upright orange sepal

O2: Tall orange spear sepal

O3: Forward orange sepal

T1: Blue projecting tongue

1. Print and prepare six pieces [S1, B1, O1, O2, O3, T1]: Print at 100% actual size; the calibration ruler must measure 50 mm. Cut S1, B1, O1-O3 and T1 on solid outlines. Score dashed hinges. Keep all integral feet and the 5 mm stem seam; do not cut them off.

2. Close the square stem [S1]: S1 has four 12 x 110 mm walls and a 5 x 110 mm seam flap. Fold the long scores 90 degrees to form a 12 mm square tube. Glue the 5 mm flap inside the first wall, maintaining the full 110 mm height. Hold square until dry. Fold both 12 x 10 mm top feet inward 90 degrees; glue their 8 mm mutual overlap to form the top seat.

3. Clamp and form the boat [S1, B1]: Grip the bottom 25 mm of S1 with a padded desk clamp attached to a stable surface, leaving the stem vertical. Tighten only enough to hold without crushing. On B1 raise each long side 55 degrees above the floor (125 degree inside opening). Leave both angular ends open. The floor remains horizontal; the long pointed nose faces right.

4. Attach bract to the stem seat [S1, B1]: Use floor coordinates with the rear tip at x=-35, the nose at x=95 and the centerline y=0. Glue the underside of B1 to the top feet of S1: the stem seat occupies x=-12 to 0 and y=-6 to 6 mm. Thus the stem center is 29 mm forward of the rear tip. Hold the floor level at 110 mm above the stem bottom and let dry fully before fitting blades.

5. Mount the three orange spears [B1, O1, O2, O3]: Fold each 10 x 6 mm foot back 90 degrees so its orange blade is vertical. Glue the feet to the B1 floor at these rectangles in the same coordinates: O1 x=-14 to -4, y=-5 to 1; O2 x=3 to 13, y=-2 to 4; O3 x=20 to 30, y=-6 to 0 mm. Their heights above the floor are 72, 80 and 58 mm. All blade planes run rear-to-nose; the pointed profiles lean toward the nose. Hold each upright until set.

6. Fit the blue tongue and dry [T1, B1, S1, O1, O2, O3]: Fold T1 at its 10 mm root hinge to make a 90 degree foot. Glue its 10 x 6 mm foot at x=27 to 37, y=-1 to 5 mm on the floor. Its vertical blade lies at y=5, projecting forward to x=84 and rising 29 mm. Keep the blue tongue on the far side of the orange blades. Allow all glue to cure while clamped; keep the finished display in the required clamp. Physical stability and assembly are still unverified.