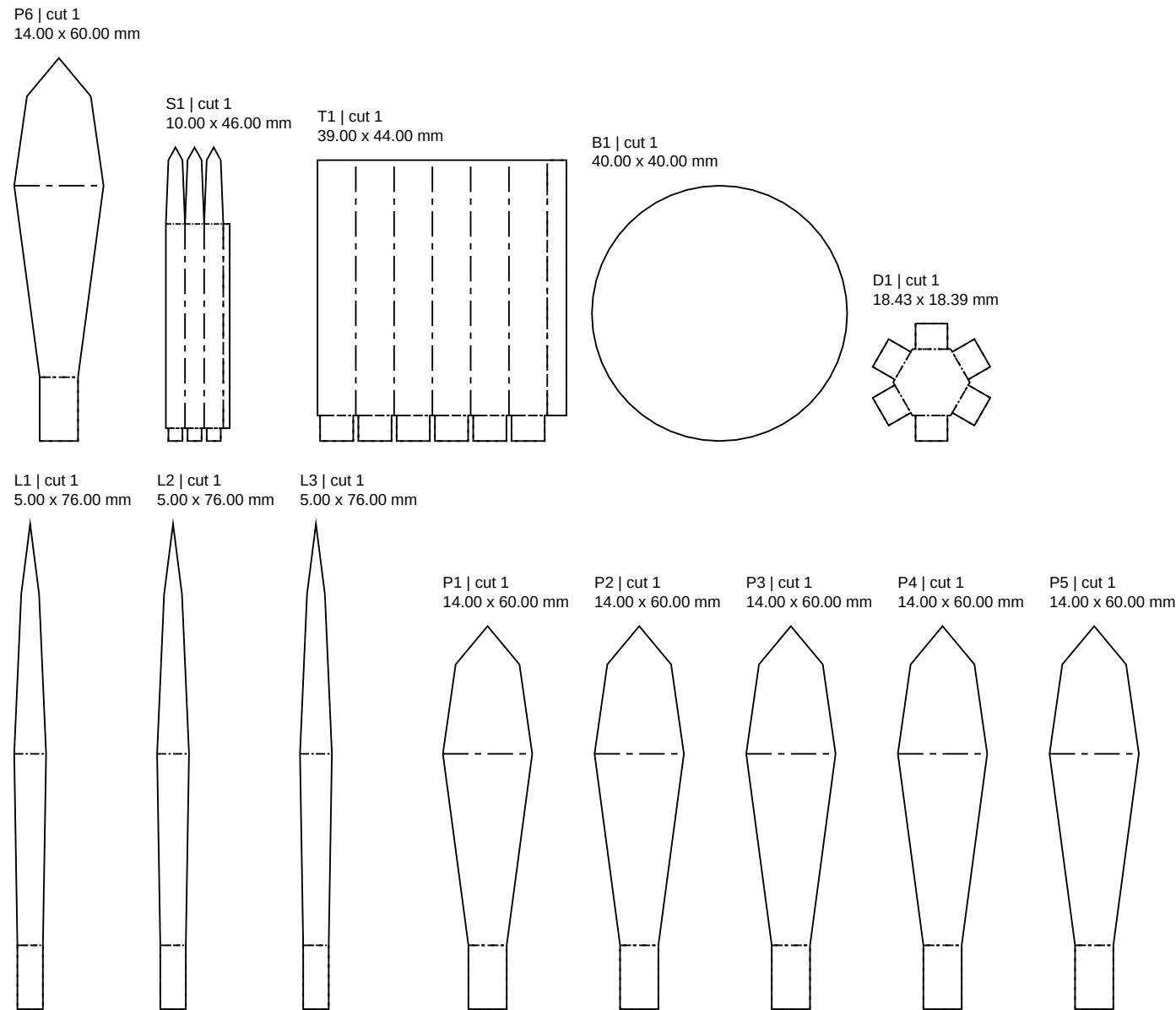
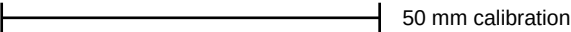


Slender Crocus Cup

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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.

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Finished size: Approximately 40 x 40 x 88 mm; 12 mm corner-to-corner support tube

Materials: 140-160 gsm purple and green paper; 160 gsm orange and pale yellow paper; 200 gsm green paper for base and tube; Scissors; PVA glue; Ruler; Blunt scoring tool; Tweezers

Original angular crocus interpretation: six long independent tepals, narrow basal leaves and a three-branch orange style; not a recolored tulip wall net.

All shaped panels and integral tabs are rigid isometries of their printed nets. No stretching, hidden wire or compound curvature.

Tube is 40 mm tall with 6 mm faces. The diaphragm at 38 mm supports a 32 mm triangular style with 12 mm branches.

The floral cup has free petal edges and small gaps, not a sealed container. Petals are planar facets, not smoothly cupped natural tissue.

Glue contacts coincide at zero thickness. Paper thickness, glue thickness, springback and fine-tab handling require physical trials.

Physical printing, cutting and assembly pending. Extra screen review deferred.

Part inventory (cut each instance once):

B1: Ground support disk

T1: Hexagonal flower tube

D1: Style support diaphragm

S1: Three-branch orange style

P1: Slender crocus tepal

P2: Slender crocus tepal

P3: Slender crocus tepal

P4: Slender crocus tepal

P5: Slender crocus tepal

P6: Slender crocus tepal

L1: Narrow basal leaf

L2: Narrow basal leaf

L3: Narrow basal leaf

1. Cut and score [B1, T1, D1, S1, P1, P2, P3, P4, P5, P6, L1, L2, L3]: Print at actual size; check the 50 mm ruler. Cut each of the 13 pieces once. Score marked hinges. Keep upper petal facets flat; do not stretch or cup them. B1 is a 40 mm diameter support disk.

2. Close the load-bearing tube [T1]: Fold the five full-height T1 hinges 60 degrees in the same direction to form a regular hexagonal tube. Fold the final seam hinge 60 degrees and glue its 3 mm lap behind the first face, matching top and bottom. Tube height 40 mm, face width 6 mm, opposite corners 12 mm. Fold the six 4 mm bottom feet outward 90 degrees.

3. Attach the ground disk [T1, B1]: Center T1 on B1 with all six feet flat on the disk. Glue the undersides of the 5.2 x 4 mm feet to B1; keep the tube perpendicular to the disk. Let dry fully.

4. Build the orange style [S1, D1]: Fold S1 vertical hinges 120 degrees to make a triangular prism with 3 mm sides. Glue the 1 mm seam lap behind its first face. Fold three 2 mm feet outward 90 degrees. Fold each 12 mm branch outward 30 degrees from vertical. Center

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the style on D1, aligning its three corner directions with alternate D1 corners. Glue its three 2.2 x 2 mm feet onto the diaphragm and dry.

5. Seat the internal support [D1, S1, T1]: Fold all six D1 tabs downward 90 degrees. Apply glue to their outward faces. Lower the assembly into T1, matching hexagon corners, until the diaphragm is 2 mm below the tube rim (38 mm above B1). Each 5 x 4 mm tab contacts an inside wall from heights 34 to 38 mm. Press with tweezers and let dry. Orange branch roots are now at height 70 mm and tips at 80.4 mm.

6. Set the first three tepals [P1, P3, P5, T1]: On P1/P3/P5 fold at y=10 mm outward 12 degrees from the vertical root, then at y=40 mm another 10 degrees outward. Glue each 6 x 10 mm root onto alternate outer tube faces, root bottom at height 30 mm and first hinge flush with the 40 mm rim. Center roots on the 6 mm faces. Leave blade edges unglued.

7. Complete the six-tepal cup [P2, P4, P6, T1]: Form P2/P4/P6 with the same 12-degree and 10-degree outward folds. Glue roots to the three remaining outer tube faces at heights 30-40 mm. Six tips should stand about 87.9 mm above B1 and about 18.9 mm from the axis. The narrow blades form an upright open cup around the orange branches. Dry without squeezing petals together.

8. Add the grasslike leaves [L1, L2, L3, T1]: Fold each leaf at y=10 mm outward 12 degrees, and y=40 mm another 6 degrees outward. Glue the 4 x 10 mm roots to alternate tube faces below P1/P3/P5, bottom at height 2 mm and first hinge at 12 mm. Leaf roots occupy heights 2-12 mm, clear of the tepal roots. Leaves remain narrow, with free tips at about height 75.6 mm. Allow every joint to dry before handling the disk.