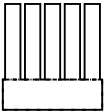


King Protea

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F01_1 | cut 1
13.15 x 14.00 mm



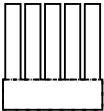
F01_2 | cut 1
8.96 x 14.00 mm



F01_3 | cut 1
4.77 x 14.00 mm



F02_1 | cut 1
13.15 x 14.00 mm



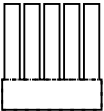
F02_2 | cut 1
8.96 x 14.00 mm



F02_3 | cut 1
4.77 x 14.00 mm



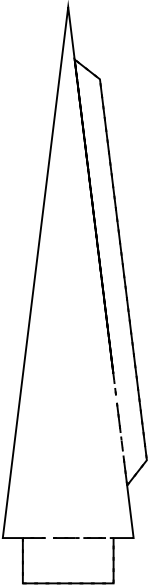
F03_1 | cut 1
13.15 x 14.00 mm



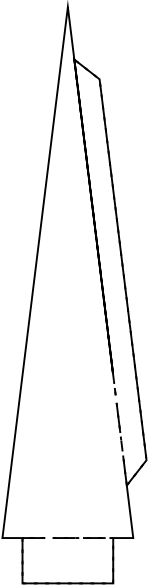
F03_2 | cut 1
8.96 x 14.00 mm



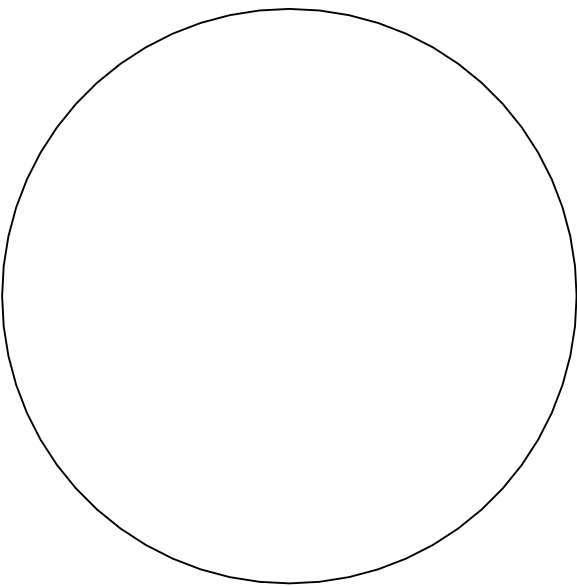
C09 | cut 1
19.06 x 76.24 mm



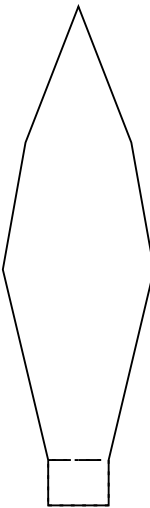
C10 | cut 1
19.06 x 76.24 mm



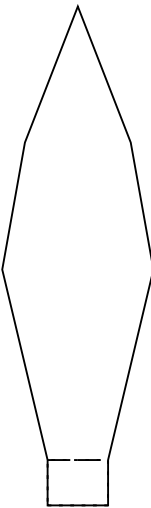
BASE | cut 1
76.00 x 76.00 mm



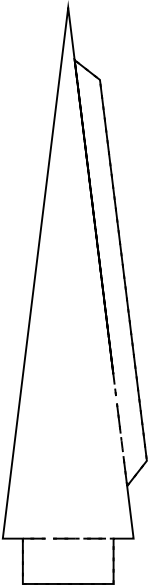
I01 | cut 1
20.00 x 66.00 mm



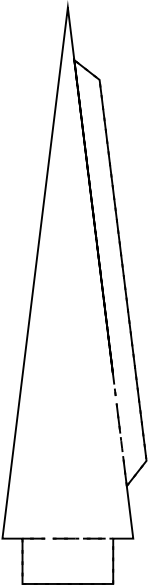
I02 | cut 1
20.00 x 66.00 mm



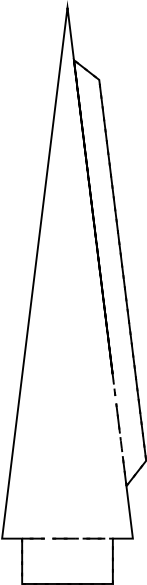
C01 | cut 1
19.06 x 76.24 mm



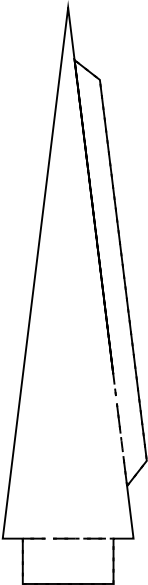
C02 | cut 1
19.06 x 76.24 mm



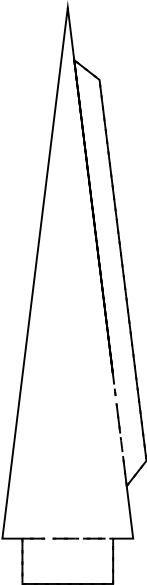
C03 | cut 1
19.06 x 76.24 mm



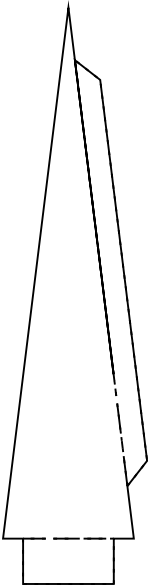
C04 | cut 1
19.06 x 76.24 mm



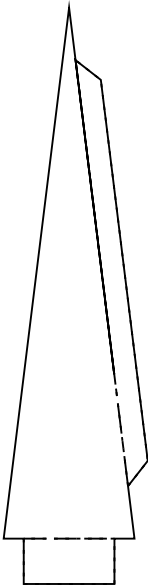
C05 | cut 1
19.06 x 76.24 mm



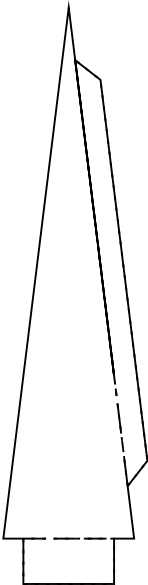
C06 | cut 1
19.06 x 76.24 mm



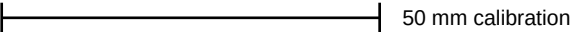
C07 | cut 1
19.06 x 76.24 mm



C08 | cut 1
19.06 x 76.24 mm



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

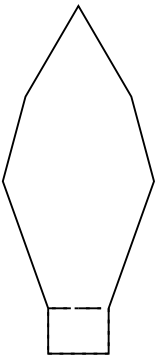


Print at 100% / Actual size. Do not fit to page. Original paper craft template.

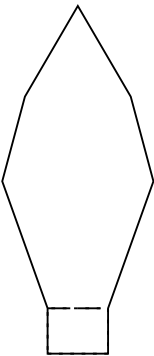
King Protea

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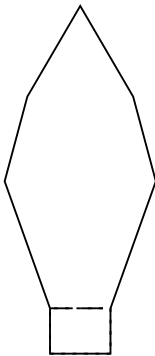
O07 | cut 1
20.00 x 46.00 mm



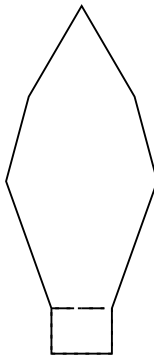
O08 | cut 1
20.00 x 46.00 mm



O09 | cut 1
20.00 x 46.00 mm



O10 | cut 1
20.00 x 46.00 mm



F04_2 | cut 1
8.96 x 14.00 mm



F04_3 | cut 1
4.77 x 14.00 mm



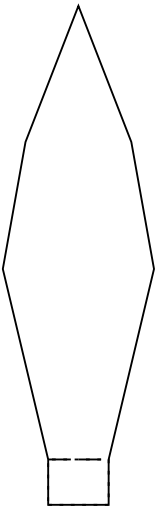
F05_1 | cut 1
13.15 x 14.00 mm



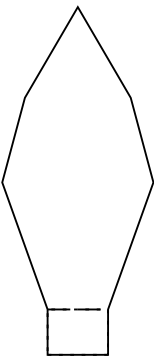
F05_2 | cut 1
8.96 x 14.00 mm



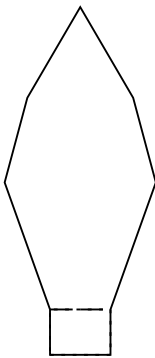
I10 | cut 1
20.00 x 66.00 mm



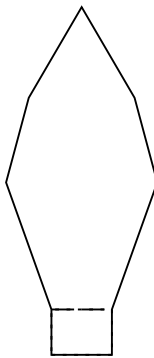
O01 | cut 1
20.00 x 46.00 mm



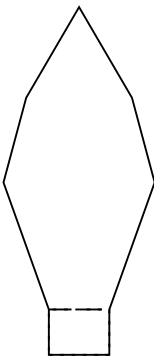
O02 | cut 1
20.00 x 46.00 mm



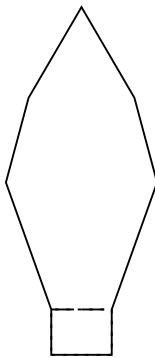
O03 | cut 1
20.00 x 46.00 mm



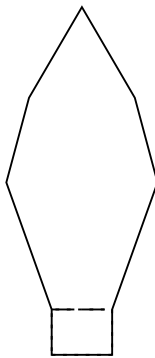
O04 | cut 1
20.00 x 46.00 mm



O05 | cut 1
20.00 x 46.00 mm



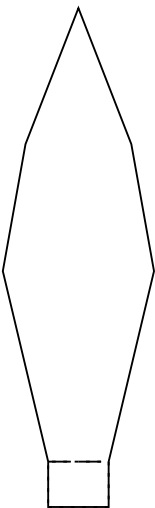
O06 | cut 1
20.00 x 46.00 mm



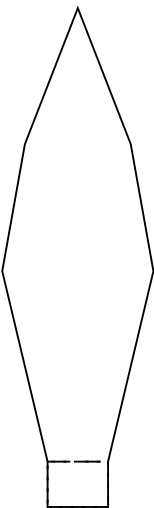
F04_1 | cut 1
13.15 x 14.00 mm



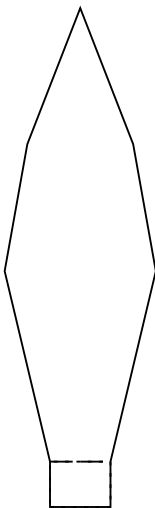
I03 | cut 1
20.00 x 66.00 mm



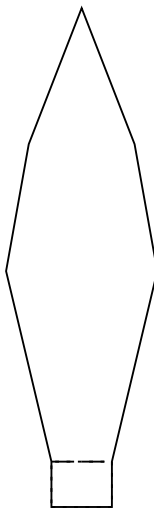
I04 | cut 1
20.00 x 66.00 mm



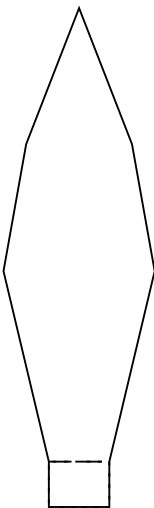
I05 | cut 1
20.00 x 66.00 mm



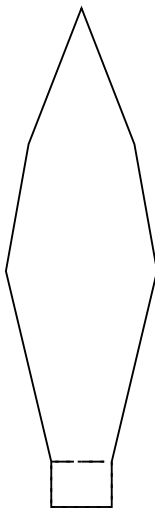
I06 | cut 1
20.00 x 66.00 mm



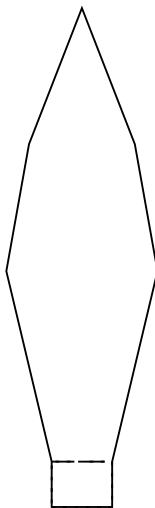
I07 | cut 1
20.00 x 66.00 mm



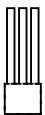
I08 | cut 1
20.00 x 66.00 mm



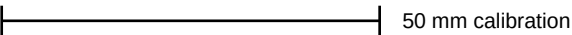
I09 | cut 1
20.00 x 66.00 mm



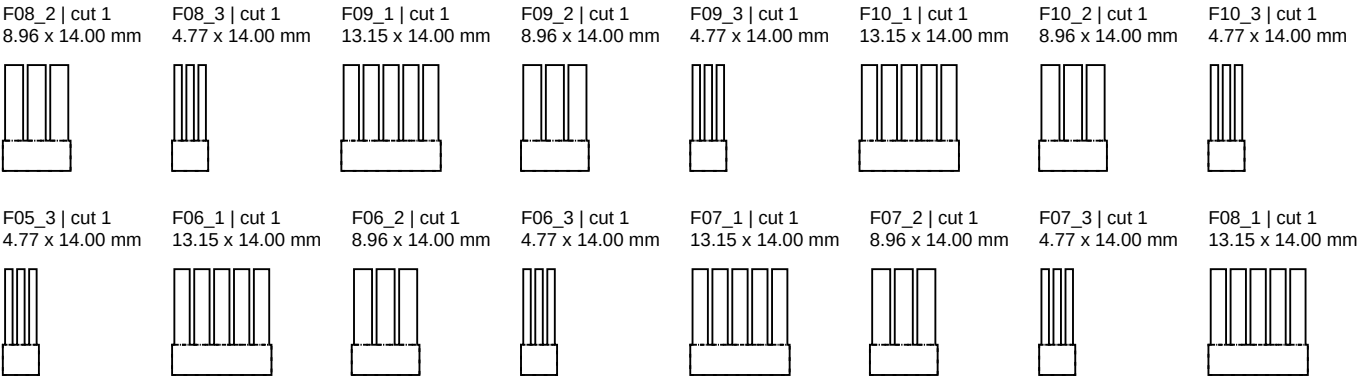
F03_3 | cut 1
4.77 x 14.00 mm



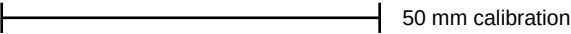
Solid: cut | Dashed: valley | Dash-dot: mountain | Dotted: glue



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



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



King Protea

protea / 1.0.0 / Letter / Assembly instructions

Finished size: 125 x 125 x 66 mm approximately

Materials: 160 gsm cream, pink and green paper; 100-120 gsm pale ivory paper for fringe; Scissors or craft knife and cutting mat; Ruler and scoring tool; PVA glue

Original faceted king protea construction; 61 physical paper pieces, no wire or hidden support.

Cone panels, side laps, mounting feet and comb teeth are piecewise rigid developments. The botanical cone and fringe are deliberately faceted; paper thickness, glue thickness and springback are not simulated.

Fringe uses actual open perimeter notches, not decorative slit lines on an uncut mesh. Bract blades stay flat above their foot hinges.

Physical printing, cutting and assembly verification pending.

Part inventory (cut each instance once):

BASE: Paper mounting base

C01: Cone panel and laps

F01_1: Pale fringe comb

F01_2: Pale fringe comb

F01_3: Pale fringe comb

C02: Cone panel and laps

F02_1: Pale fringe comb

F02_2: Pale fringe comb

F02_3: Pale fringe comb

C03: Cone panel and laps

F03_1: Pale fringe comb

F03_2: Pale fringe comb

F03_3: Pale fringe comb

C04: Cone panel and laps

F04_1: Pale fringe comb

F04_2: Pale fringe comb

F04_3: Pale fringe comb

C05: Cone panel and laps

F05_1: Pale fringe comb

F05_2: Pale fringe comb

F05_3: Pale fringe comb

C06: Cone panel and laps

King Protea

protea / 1.0.0 / Letter / Assembly instructions continued

F06_1: Pale fringe comb

F06_2: Pale fringe comb

F06_3: Pale fringe comb

C07: Cone panel and laps

F07_1: Pale fringe comb

F07_2: Pale fringe comb

F07_3: Pale fringe comb

C08: Cone panel and laps

F08_1: Pale fringe comb

F08_2: Pale fringe comb

F08_3: Pale fringe comb

C09: Cone panel and laps

F09_1: Pale fringe comb

F09_2: Pale fringe comb

F09_3: Pale fringe comb

C10: Cone panel and laps

F10_1: Pale fringe comb

F10_2: Pale fringe comb

F10_3: Pale fringe comb

O01: Pointed pink bract

O02: Pointed pink bract

O03: Pointed pink bract

O04: Pointed pink bract

O05: Pointed pink bract

O06: Pointed pink bract

O07: Pointed pink bract

O08: Pointed pink bract

O09: Pointed pink bract

O10: Pointed pink bract

I01: Pointed pink bract

King Protea

protea / 1.0.0 / Letter / Assembly instructions continued

I02: Pointed pink bract

I03: Pointed pink bract

I04: Pointed pink bract

I05: Pointed pink bract

I06: Pointed pink bract

I07: Pointed pink bract

I08: Pointed pink bract

I09: Pointed pink bract

I10: Pointed pink bract

1. Cut and score at actual size [BASE, C01, C02, C03, C04, C05, C06, C07, C08, C09, C10]: Print at 100 percent; the ruler must measure 50 mm. Cut BASE and all C panels. Score the 12 mm foot hinge and long side-lap hinge on each panel. Use 160 gsm paper for the cone and base.
2. Close the tall ten-sided cone [C01, C02, C03, C04, C05, C06, C07, C08, C09, C10]: Join C01 through C10 clockwise viewed from above: each 3 mm side lap glues under the next panel left edge. Match base corners and apex; close C10 to C01. Set base corner-to-corner diameter to 56 mm and height to 65 mm. Fold each 6 mm foot inward until horizontal (about 112 degrees from its unfolded continuation). Dry the seam before mounting.
3. Mount the cone on paper [BASE, C01, C02, C03, C04, C05, C06, C07, C08, C09, C10]: Apply a thin layer of glue to the undersides of all ten inward feet while the cone is lifted. Center the cone on the 76 mm BASE, leaving 10 mm from each cone base corner to the disk edge. Lower all feet onto BASE together. Gently hold the cone down at its lower corners without crushing the apex. Let dry 15 minutes.
4. Add fringe tier 1 [F01_1, F02_1, F03_1, F04_1, F05_1, F06_1, F07_1, F08_1, F09_1, F10_1]: Cut the ten Fxx_1 combs from 100-120 gsm pale paper, including every open notch between teeth. Keep the 4 mm band intact. Fold each 10 mm tooth outward by 20 degrees at the printed hinge. Glue only the band onto its matching numbered cone face, centered left-right, with the lower band edge 8 mm up the sloping face from the base edge. Work around all ten faces; teeth point toward the apex. Dry 5 minutes before the next tier.
5. Add fringe tier 2 [F01_2, F02_2, F03_2, F04_2, F05_2, F06_2, F07_2, F08_2, F09_2, F10_2]: Cut the ten Fxx_2 combs from 100-120 gsm pale paper, including every open notch between teeth. Keep the 4 mm band intact. Fold each 10 mm tooth outward by 20 degrees at the printed hinge. Glue only the band onto its matching numbered cone face, centered left-right, with the lower band edge 25 mm up the sloping face from the base edge. Work around all ten faces; teeth point toward the apex. Dry 5 minutes before the next tier.
6. Add fringe tier 3 [F01_3, F02_3, F03_3, F04_3, F05_3, F06_3, F07_3, F08_3, F09_3, F10_3]: Cut the ten Fxx_3 combs from 100-120 gsm pale paper, including every open notch between teeth. Keep the 4 mm band intact. Fold each 10 mm tooth outward by 20 degrees at the printed hinge. Glue only the band onto its matching numbered cone face, centered left-right, with the lower band edge 42 mm up the sloping face from the base edge. Work around all ten faces; teeth point toward the apex. Dry 5 minutes before the next tier.
7. Plant the outer pink involucre [O01, O02, O03, O04, O05, O06, O07, O08, O09, O10]: Cut O01-O10 from 160 gsm dark pink paper. Fold each 6 mm foot inward so the 40 mm pointed blade rises 45 degrees above BASE. Glue feet flat with hinge midpoints 34 mm from disk center. Space at 36 degree intervals, halfway between cone face centers. Opposite hinge midpoints are 68 mm apart. Hold until tacky, then dry 10 minutes.
8. Raise the inner pointed crown [I01, I02, I03, I04, I05, I06, I07, I08, I09, I10]: Cut I01-I10 from 160 gsm light pink paper. Fold feet inward so the 60 mm blades rise 70 degrees above BASE. Glue hinge midpoints at radius 29 mm, one aligned with each cone face center, staggered 18 degrees from the outer row. Opposite hinges are 58 mm apart. Keep tips sharp and straight; the pale cone projects above the inner tips. Dry 20 minutes on a level surface. This is a freestanding flower head with all-paper mounts, not a stemmed flower.