Layered Spoon-Ray Gerbera

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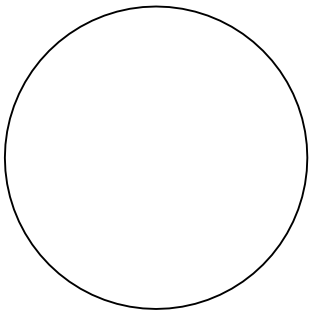
B | cut 1
40.00 x 40.00 mm



M01 | cut 1
7.50 x 38.00 mm

M02 | cut 1
7.50 x 38.00 mm

M03 | cut 1
7.50 x 38.00 mm

M04 | cut 1
7.50 x 38.00 mm

M05 | cut 1
7.50 x 38.00 mm

M06 | cut 1
7.50 x 38.00 mm

O17 | cut 1
8.50 x 48.00 mm

O18 | cut 1
8.50 x 48.00 mm

O19 | cut 1
8.50 x 48.00 mm

O20 | cut 1
8.50 x 48.00 mm

O21 | cut 1
8.50 x 48.00 mm

O22 | cut 1
8.50 x 48.00 mm

O23 | cut 1
8.50 x 48.00 mm

O24 | cut 1
8.50 x 48.00 mm

O09 | cut 1
8.50 x 48.00 mm

O10 | cut 1
8.50 x 48.00 mm

O11 | cut 1
8.50 x 48.00 mm

O12 | cut 1
8.50 x 48.00 mm

O13 | cut 1
8.50 x 48.00 mm

O14 | cut 1
8.50 x 48.00 mm

O15 | cut 1
8.50 x 48.00 mm

O16 | cut 1
8.50 x 48.00 mm

O01 | cut 1
8.50 x 48.00 mm

O02 | cut 1
8.50 x 48.00 mm

O03 | cut 1
8.50 x 48.00 mm

O04 | cut 1
8.50 x 48.00 mm

O05 | cut 1
8.50 x 48.00 mm

O06 | cut 1
8.50 x 48.00 mm

O07 | cut 1
8.50 x 48.00 mm

O08 | cut 1
8.50 x 48.00 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.

Layered Spoon-Ray Gerbera

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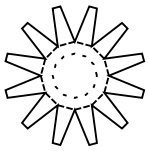
I11 | cut 1
6.00 x 27.00 mm

I12 | cut 1
6.00 x 27.00 mm

C2 | cut 1
18.33 x 18.33 mm



D | cut 1
5.40 x 5.40 mm

I03 | cut 1
6.00 x 27.00 mm

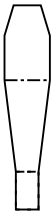
I04 | cut 1
6.00 x 27.00 mm

I05 | cut 1
6.00 x 27.00 mm

I06 | cut 1
6.00 x 27.00 mm

I07 | cut 1
6.00 x 27.00 mm

I08 | cut 1
6.00 x 27.00 mm



I09 | cut 1
6.00 x 27.00 mm

I10 | cut 1
6.00 x 27.00 mm

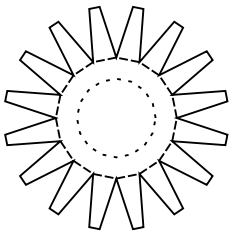
M15 | cut 1
7.50 x 38.00 mm

M16 | cut 1
7.50 x 38.00 mm

M17 | cut 1
7.50 x 38.00 mm

M18 | cut 1
7.50 x 38.00 mm

C1 | cut 1
29.40 x 29.40 mm



I01 | cut 1
6.00 x 27.00 mm

I02 | cut 1
6.00 x 27.00 mm

M07 | cut 1
7.50 x 38.00 mm

M08 | cut 1
7.50 x 38.00 mm

M09 | cut 1
7.50 x 38.00 mm

M10 | cut 1
7.50 x 38.00 mm

M11 | cut 1
7.50 x 38.00 mm

M12 | cut 1
7.50 x 38.00 mm

M13 | cut 1
7.50 x 38.00 mm

M14 | cut 1
7.50 x 38.00 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.

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Finished size: 124 x 124 x 12 mm approximately

Materials: 120-150 gsm colored paper for rays and crowns; 180-220 gsm green cardstock for backing B; Scissors or craft knife and cutting mat; Scoring tool and ruler; Protractor, tweezers and quick-grab PVA glue

Original faceted, stemless gerbera interpretation; not a botanical scale model.

All raised surfaces are exact rigid paper facets with matching flat nets. No smooth compound curvature is implied.

Flat feet, backing and crown floors are modeled at a common zero-thickness contact plane. Real paper and glue add small laminate thickness; attach in the stated order.

54 individual rays: 24 outer, 18 middle and 12 inner. Two toothed crown nets provide 28 raised florets. All physical pieces are enumerated.

Screen review and physical printing/cutting/assembly are deferred; physical feasibility remains pending a real build.

Part inventory (cut each instance once):

B: Receptacle backing

O01: Spoon ray O01

O02: Spoon ray O02

O03: Spoon ray O03

O04: Spoon ray O04

O05: Spoon ray O05

O06: Spoon ray O06

O07: Spoon ray O07

O08: Spoon ray O08

O09: Spoon ray O09

O10: Spoon ray O10

O11: Spoon ray O11

O12: Spoon ray O12

O13: Spoon ray O13

O14: Spoon ray O14

O15: Spoon ray O15

O16: Spoon ray O16

O17: Spoon ray O17

O18: Spoon ray O18

O19: Spoon ray O19

O20: Spoon ray O20

O21: Spoon ray O21

O22: Spoon ray O22

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O23: Spoon ray O23

O24: Spoon ray O24

M01: Spoon ray M01

M02: Spoon ray M02

M03: Spoon ray M03

M04: Spoon ray M04

M05: Spoon ray M05

M06: Spoon ray M06

M07: Spoon ray M07

M08: Spoon ray M08

M09: Spoon ray M09

M10: Spoon ray M10

M11: Spoon ray M11

M12: Spoon ray M12

M13: Spoon ray M13

M14: Spoon ray M14

M15: Spoon ray M15

M16: Spoon ray M16

M17: Spoon ray M17

M18: Spoon ray M18

I01: Spoon ray I01

I02: Spoon ray I02

I03: Spoon ray I03

I04: Spoon ray I04

I05: Spoon ray I05

I06: Spoon ray I06

I07: Spoon ray I07

I08: Spoon ray I08

I09: Spoon ray I09

I10: Spoon ray I10

I11: Spoon ray I11

I12: Spoon ray I12

C1: Floret crown C1

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C2: Floret crown C2

D: Dark central eye

1. Cut and score the backing and rays [B]: Print at 100%; the ruler must measure 50 mm. Cut B (40 mm diameter) and all rays. Score the two folds on each ray before shaping. Keep the 3 x 5 mm glue feet flat. Place B green side down.

2. Fold O spoon rays [O01, O02, O03, O04, O05, O06, O07, O08, O09, O10, O11, O12, O13, O14, O15, O16, O17, O18, O19, O20, O21, O22, O23, O24]: For O01-O24, lift the stalk 10 degrees above the flat foot at the first valley score, 5 mm from the base. At the second score, turn the spoon blade downward by 12 degrees relative to the stalk. The blade remains -2 degrees above horizontal. Do not curl or stretch these facets.

3. Attach O whorl [O01, O02, O03, O04, O05, O06, O07, O08, O09, O10, O11, O12, O13, O14, O15, O16, O17, O18, O19, O20, O21, O22, O23, O24, B]: Glue only the underside of each 3 x 5 mm foot to B or the already attached feet directly beneath it. Put the inner foot ends 14 mm from B center; the fold hinges are at radius 19 mm. Point each ray radially outward, evenly spaced by 15 degrees; start the first ray at 0 degrees from the rightward radius. Keep the feet flat in contact, press with tweezers, and let this whorl dry before adding the next. The broad spoons stay free of glue.

4. Fold M spoon rays [M01, M02, M03, M04, M05, M06, M07, M08, M09, M10, M11, M12, M13, M14, M15, M16, M17, M18]: For M01-M18, lift the stalk 24 degrees above the flat foot at the first valley score, 5 mm from the base. At the second score, turn the spoon blade downward by 12 degrees relative to the stalk. The blade remains 12 degrees above horizontal. Do not curl or stretch these facets.

5. Attach M whorl [M01, M02, M03, M04, M05, M06, M07, M08, M09, M10, M11, M12, M13, M14, M15, M16, M17, M18, B]: Glue only the underside of each 3 x 5 mm foot to B or the already attached feet directly beneath it. Put the inner foot ends 11 mm from B center; the fold hinges are at radius 16 mm. Point each ray radially outward, evenly spaced by 20 degrees; start the first ray at 7.5 degrees from the rightward radius. Keep the feet flat in contact, press with tweezers, and let this whorl dry before adding the next. The broad spoons stay free of glue.

6. Fold I spoon rays [I01, I02, I03, I04, I05, I06, I07, I08, I09, I10, I11, I12]: For I01-I12, lift the stalk 40 degrees above the flat foot at the first valley score, 5 mm from the base. At the second score, turn the spoon blade downward by 12 degrees relative to the stalk. The blade remains 28 degrees above horizontal. Do not curl or stretch these facets.

7. Attach I whorl [I01, I02, I03, I04, I05, I06, I07, I08, I09, I10, I11, I12, B]: Glue only the underside of each 3 x 5 mm foot to B or the already attached feet directly beneath it. Put the inner foot ends 8 mm from B center; the fold hinges are at radius 13 mm. Point each ray radially outward, evenly spaced by 30 degrees; start the first ray at 15 degrees from the rightward radius. Keep the feet flat in contact, press with tweezers, and let this whorl dry before adding the next. The broad spoons stay free of glue.

8. Raise the outer floret crown [C1, B]: Cut C1 as one connected piece. Score all 16 floor edges and lift each 7 mm floret 72 degrees above the floor; the tips rise 6.7 mm. Leave its 16-sided floor flat. Apply glue under the marked central patch and center C1 on B, contacting B inside the ray feet. Allow to set.

9. Nest the inner florets [C2, C1]: Cut C2 as one connected piece. Fold its twelve 5 mm florets up 72 degrees, to a tip height of 4.8 mm. Glue its marked underside patch directly onto the center of the C1 floor; rotate the first floret 15 degrees from the outer crown. Keep both floors flat and concentric.

10. Finish the dark eye and dry [D, C2]: Glue D flat at the exact center of the C2 floor. Press with a blunt tool without flattening the upright florets. Let all joints dry flat for at least 20 minutes or the glue maker's full setting time. This is a stemless face-up flower head; hold by B rather than by the spoon tips.