

Spinning-top project

3DP-046 / REV A / 2026.09.01

A spinning top rewards symmetry, a centered tip and a smooth contact point. Balance usually matters more than decorative detail. Use the spool maker's PLA temperature range; no tested historical top dimensions were recovered.

STATUS	Starting Point
CLASSIFICATION	3DP
MATERIAL	3D PRINT / MAKER
DISPOSITION	PUBLIC / STARTING POINT
CATEGORY	3D Printing
RECORD TYPE	project

TECHNICAL NOTES

A spinning top rewards symmetry, a centered tip and a smooth contact point. Balance usually matters more than decorative detail.

GOAL

Run the first test described in this guide and record the result for spinning-top project.

SOURCE STATE

New reference guidance; not a recovered test result

PREPARATION / NOTES

Use the spool maker's PLA temperature range; no tested historical top dimensions were recovered.

EQUIPMENT

- FDM printer / slicer
- Slicer project
- Calipers or inspection method

MATERIALS

- Material requires confirmation
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METHOD / STEPS

1. Model the body around one axis with the handle and tip concentric. Keep decorative features balanced around that axis.
 2. Start with PLA, 0.4 mm nozzle, 0.16-0.20 mm layers, 3 walls and 20-35% infill. Orient the part so supports do not damage the contact tip; consider a separate replaceable tip.
 3. Remove brim remnants and seam bumps carefully. Keep any weights securely enclosed and equally distributed.
 4. Spin on the same level hard surface for several trials. Change one variable, such as tip radius or rim mass, then compare average spin time.
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THINGS TO WATCH FOR

An off-center seam, bent stem or rough tip can cause wobble. A heavier top is not automatically better. Small detachable parts should be kept away from young children.

FIRST TEST / WHAT TO RECORD

Record print orientation, total mass, wobble and the average of five spins.

RESULT / WHERE THIS STANDS

Record print orientation, total mass, wobble and the average of five spins.

TROUBLESHOOTING

- An off-center seam, bent stem or rough tip can cause wobble. A heavier top is not automatically better. Small detachable parts should be kept away from young children.
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SPECIFICATION

PRINTER	FDM printer / slicer
MATERIAL	Material requires confirmation
FOCUS	First layer, dimensions, surface, and function
VALIDATION	Small test print before release

DEVELOPMENT HISTORY

2026.09.01 / Rev A

Imported as an independent manifest record; public copy keeps uncertainty visible.

RELEASED MATERIAL / SOURCE LINKS

3dp-046-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/3dp-046-public-summary.txt>

RETURN TO THE LIVING RECORD

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This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/3DP-046>