

Radius gauge generator

CAD-015 / REV A / 2026.09.01

Generate concave and convex comparison profiles with clearly identified radii.

STATUS	Recovered/Partial
CLASSIFICATION	CAD
MATERIAL	CAD / AUTOMATION
DISPOSITION	PUBLIC / RECOVERED/PARTIAL
CATEGORY	CAD / Scanning / Automation
RECORD TYPE	how-to

GOAL

Run the first test described in this guide and record the result for radius gauge generator.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

- CAD / automation tool
- Representative test model
- Measurement or inspection method

METHOD / STEPS

1. Define a radius list, units, plate thickness, spacing and label position.
2. Construct each profile from an exact arc, then connect it to a handle/body with adequate material around the notch.
3. Keep text away from the measuring edge and add a small handling radius only to non-measuring corners.
4. Print a small range, remove burrs without sanding the reference arc and compare against a known object or gauge.

THINGS TO WATCH FOR

Printer resolution, layer orientation and first-layer expansion affect fit. A printed radius gauge is a visual reference, not a calibrated inspection instrument.

FIRST TEST / WHAT TO RECORD

The measured profile is accessible and the radius label cannot be confused with its diameter.

RESULT / WHERE THIS STANDS

The measured profile is accessible and the radius label cannot be confused with its diameter.

TROUBLESHOOTING

- Printer resolution, layer orientation and first-layer expansion affect fit. A printed radius gauge is a visual reference, not a calibrated inspection instrument.

SPECIFICATION

TOOL PATH	CAD / automation tool
DELIVERABLE	HOW-TO
VALIDATION	Representative model / known dimension
STATUS	Recovered/Partial

DEVELOPMENT HISTORY

2026.09.01 / Rev A

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

RELEASED MATERIAL / SOURCE LINKS

cad-015-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-015-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/CAD-015>