

Inkscape PNG-to-SVG conversion

CAD-009 / REV A / 2026.09.01

Trace a raster image into real vector paths suitable for cleanup and downstream CAD preparation.

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 inkscape png-to-svg conversion.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

- Inkscape / SVG
- Representative test model
- Measurement or inspection method

METHOD / STEPS

1. Import the PNG, select it and open Path > Trace Bitmap.
2. For black-and-white art, begin with a single brightness-cutoff trace and adjust the threshold in preview.
3. Move the traced vector aside to verify it is separate from the bitmap. Delete unwanted background shapes, simplify cautiously and repair holes or islands.
4. Save SVG, then reopen it and inspect at high zoom. Convert strokes to paths when downstream software needs filled outlines.

THINGS TO WATCH FOR

Saving an embedded PNG with an SVG extension is not vectorization. Excess simplification changes the artwork, and excessive nodes make CAD imports harder.

FIRST TEST / WHAT TO RECORD

The file contains editable paths and retains the correct holes, silhouette and intended physical scale.

RESULT / WHERE THIS STANDS

The file contains editable paths and retains the correct holes, silhouette and intended physical scale.

TROUBLESHOOTING

- Saving an embedded PNG with an SVG extension is not vectorization. Excess simplification changes the artwork, and excessive nodes make CAD imports harder.

SPECIFICATION

TOOL PATH	Inkscape / SVG
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.

REFERENCE NOTES

Official inkscape-manuals.readthedocs.io reference
(<https://inkscape-manuals.readthedocs.io/en/latest/tracing-an-image.html>).

HOW-TO SOURCES

Official inkscape-manuals.readthedocs.io reference
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RELEASED MATERIAL / SOURCE LINKS

cad-009-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-009-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-009>