

Cutting/embossing traced black artwork

CAD-007 / REV A / 2026.09.01

Turn the black regions into closed profiles before using them to add or remove material.

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 cutting/embossing traced black artwork.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

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

METHOD / STEPS

1. Trace or import clean vector outlines and confirm which enclosed regions represent solid artwork.
2. Scale against a known length and remove duplicate or open segments.
3. Select closed regions and extrude to join for raised art or subtract for engraving. As an FDM sample, try 0.6-1 mm relief and features wider than a single extrusion line.
4. Print a small detail coupon and adjust narrow strokes or depth before the final part.

THINGS TO WATCH FOR

Bitmap black areas do not become solid geometry automatically. Counters inside letters must remain holes. Cutting through a thin base can detach the artwork.

FIRST TEST / WHAT TO RECORD

The slicer shows all intended strokes and islands, and the sample remains readable at final size.

RESULT / WHERE THIS STANDS

The slicer shows all intended strokes and islands, and the sample remains readable at final size.

TROUBLESHOOTING

- Bitmap black areas do not become solid geometry automatically. Counters inside letters must remain holes. Cutting through a thin base can detach the artwork.

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.

REFERENCE NOTES

Shapr3D import/formats
(<https://support.shapr3d.com/hc/en-us/articles/7874523890076-Supported-file-types>).

HOW-TO SOURCES

Shapr3D import/formats
<https://support.shapr3d.com/hc/en-us/articles/7874523890076-Supported-file-types>

RELEASED MATERIAL / SOURCE LINKS

cad-007-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-007-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-007>