

Gnome Reconstruction / Keeping the Character

MDL-GNOME-001 / REV A / 2026.10.10

The point was to recover the little sculpture's character, including its expression and gesture. After the initial repair, a second pass concentrated on rough surfaces inside the eyes, around the nose, and across the hands. The version-two image shows the whole model alongside close views of those changes. Both images are digital renders. The full-resolution scan, STL, and Blender project remain local rather than becoming large website downloads.

STATUS	REFINED MODEL / PRINT TEST PENDING
CLASSIFICATION	MDL
MATERIAL	SCANNED SCULPTURE / MESH REPAIR
DISPOSITION	PUBLIC PROCESS / RENDERS + NOTES
CATEGORY	CAD / Scanning
RECORD TYPE	build-post

TECHNICAL NOTES

Repairing a scanned gnome without sanding away its expression: rebuild the hat, refine the eyes and nose, and clean up the hands.

GOAL

Make the scan usable while keeping the gnome's expression, gesture, and recognizable form.

BUILD STORY

This is a scanned sculpture repair project, separate from the older Gnomie game in the archive.

The first repair restored a usable overall form, including the hat. Missing or unreliable scan detail had to be approximated, so the result is a reconstruction rather than an exact measurement of the original sculpture.

Version two focused on specific areas instead of applying another global smoothing pass. The rough inner eye surfaces became smooth rounded caps, leaving eyelids and eyebrows in place. The blank eye surfaces were intended to be suitable for painting later.

The nose was rounded and lightly smoothed while retaining nostrils. The backs of the hands, curled fingers, and small palm defects received a similar local cleanup. Those changes kept the gesture intact rather than replacing it with a different pose.

The saved validation report describes a single closed mesh and no detected self-intersections. The model is about 88.8 mm tall when its coordinates are read as millimeters. Those checks say something about the exported geometry, not about print supports, durability, or fidelity to every detail of the original.

For the website, the before-and-after renders carry the story. The large mesh and editable project stay local. A photograph of the first successful print will be the next meaningful addition.

RESULT / WHERE THIS STANDS

The final v2 model and matching validation report exist locally. The recorded checks found a connected closed mesh and no detected self-intersections. A successful physical print or painted result has not been documented.

NEXT TO ADD

- Photo of the original scanned gnome for comparison.
- Finished-print photographs and any painted result.
- Printer/material/support choices and observations from the first print.

SPECIFICATION

CURRENT REVISION	Refined v2 / October 4, 2026
NOMINAL MODEL ENVELOPE	49.855 × 48.225 × 88.799 mm when interpreted as millimeters
GEOMETRY	One connected closed mesh in the saved validation report
DETAIL WORK	Eyes, nose, backs of hands, inner fingers, and palm defects
PRESERVED	Repaired hat, expression, gesture, body, boots, and upright orientation
EVIDENCE	Version-one and version-two model renders
PUBLIC FILES	Screenshots and notes; scan/STL/Blender data retained locally

DEVELOPMENT HISTORY

2026.10.04 / REPAIR

Repaired the scanned gnome and preserved an earlier model render.

2026.10.04 / V2

Refined the eyes, nose, and hand surfaces while keeping the pose and repaired hat.

2026.10.10 / A

Added the visual reconstruction story to the public archive.

RELEASED MATERIAL / SOURCE LINKS

Gnome_Refined_v2_Preview.png

MODEL RENDER / Refined v2 with face and hand detail views; not a printed object.

https://u225x.com/uploads/gnome-reconstruction/Gnome_Refined_v2_Preview.png

Gnome_Repaired_Preview.png

MODEL RENDER / Earlier repaired version for comparison.

https://u225x.com/uploads/gnome-reconstruction/Gnome_Repaired_Preview.png

MDL-GNOME-001-project-notes.txt

PROJECT NOTES / CURRENT RECORD + NEXT EVIDENCE

<https://u225x.com/downloads/project-notes/MDL-GNOME-001-project-notes.txt>

MDL-GNOME-001-report.pdf

PRINTABLE RECORD / PROJECT NOTES

<https://u225x.com/record/MDL-GNOME-001/pdf>

CONNECTED RECORDS

HOW-PIKA-001

<https://u225x.com/record/HOW-PIKA-001>

MDL-ICE-SHOVEL-001

<https://u225x.com/record/MDL-ICE-SHOVEL-001>

CAD-028

<https://u225x.com/record/CAD-028>

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/MDL-GNOME-001>