

Inventor automated DXF creation and orientation

CAD-039 / REV A / 2026.09.01

Create a manufacturing DXF from the current sheet-metal flat pattern with explicit orientation and layer choices. Work on a copy first. Record application version, units and active document/configuration. Names below identify the catalogued workflow; they do not claim a particular button layout or verified implementation.

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

TECHNICAL NOTES

Create a manufacturing DXF from the current sheet-metal flat pattern with explicit orientation and layer choices.

GOAL

Run the first test described in this guide and record the result for inventor automated dxf creation and orientation.

SOURCE STATE

Operational reference/specification; original rule or add-in source not inspected

PREPARATION / NOTES

Work on a copy first. Record application version, units and active document/configuration. Names below identify the catalogued workflow; they do not claim a particular button layout or verified implementation.

EQUIPMENT

- Inventor / iLogic
- Representative test model
- Measurement or inspection method

METHOD / STEPS

1. Verify sheet-metal document type, material, thickness and a valid flat pattern.
2. Update/unfold, choose the intended reference edge and establish the output orientation.
3. Export with the approved layer mapping, units and naming rule, keeping unwanted bend/construction lines off cutting layers.
4. Open the DXF independently and check extents, closed contours, bend-layer intent and revision.

THINGS TO WATCH FOR

Do not export the folded silhouette as a flat pattern. Automatic longest-edge orientation can choose a different edge after a model change.

FIRST TEST / WHAT TO RECORD

The reopened DXF matches the checked flat pattern at 1:1 scale and contains only intended manufacturing geometry.

RESULT / WHERE THIS STANDS

The reopened DXF matches the checked flat pattern at 1:1 scale and contains only intended manufacturing geometry.

TROUBLESHOOTING

- Do not export the folded silhouette as a flat pattern. Automatic longest-edge orientation can choose a different edge after a model change.

SPECIFICATION

TOOL PATH	Inventor / iLogic
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

Autodesk reference (<https://aps.autodesk.com/developer/overview/inventor-api>).

HOW-TO SOURCES

Autodesk reference

<https://aps.autodesk.com/developer/overview/inventor-api>

RELEASED MATERIAL / SOURCE LINKS

cad-039-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-039-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-039>