

Parallel second-edge offset for hole patterns

CAD-038 / REV A / 2026.09.01

Use two parallel edges to define row placement without confusing edge direction and distance. 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

Use two parallel edges to define row placement without confusing edge direction and distance.

GOAL

Run the first test described in this guide and record the result for parallel second-edge offset for hole patterns.

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

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

METHOD / STEPS

1. Select the face and two straight reference edges, then express them in the same sketch coordinate system.
2. Verify parallelism within a stated tolerance and reject ambiguous or coincident choices.
3. Define the inward normal and signed distances; constrain the first row from one edge and the second from the other.
4. Preview all centers, checking inside-face placement and minimum edge distance before creating holes.

THINGS TO WATCH FOR

Reversed edge parameter direction can flip an offset. A bounding-box distance is not the true normal distance for a rotated part.

FIRST TEST / WHAT TO RECORD

Rotate the model and reverse selection order in a test copy; the intended physical rows remain correct.

RESULT / WHERE THIS STANDS

Rotate the model and reverse selection order in a test copy; the intended physical rows remain correct.

TROUBLESHOOTING

- Reversed edge parameter direction can flip an offset. A bounding-box distance is not the true normal distance for a rotated part.

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

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-038-public-summary.txt](#)

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-038-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-038>