

Tooling/feasibility checker

CAD-052 / REV A / 2026.09.01

Compare modeled bends and handling requirements to the actual tools available. 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

Compare modeled bends and handling requirements to the actual tools available.

GOAL

Run the first test described in this guide and record the result for tooling/feasibility checker.

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. Load a versioned tool library with cross-sections, working lengths and rated limits.
 2. Evaluate tool access at every forming stage, including nearby completed bends.
 3. Check collisions, removal path, flange support and the applicable load constraints.
 4. Produce a reviewable exception list with a view or dimension locating each issue.
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THINGS TO WATCH FOR

A final-state collision check can miss an impossible intermediate step. Missing tool dimensions should produce an unknown result, not a pass.

FIRST TEST / WHAT TO RECORD

A known interference sample is flagged and the report identifies the conflicting geometry.

RESULT / WHERE THIS STANDS

A known interference sample is flagged and the report identifies the conflicting geometry.

TROUBLESHOOTING

- A final-state collision check can miss an impossible intermediate step. Missing tool dimensions should produce an unknown result, not a pass.
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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

SOLIDWORKS API reference
(<https://help.solidworks.com/2025/English/api/sldworksapiproguide/Welcome.htm>).

HOW-TO SOURCES

SOLIDWORKS API reference

<https://help.solidworks.com/2025/English/api/sldworksapiproguide/Welcome.htm>

RELEASED MATERIAL / SOURCE LINKS

cad-052-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-052-public-summary.txt>

RETURN TO THE LIVING RECORD

Tooling/feasibility checker

This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/CAD-052>