

Inspection ballooning and spreadsheet export

CAD-058 / REV A / 2026.09.01

Connect each inspection characteristic to a stable balloon identifier and a traceable model/drawing revision. 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

Connect each inspection characteristic to a stable balloon identifier and a traceable model/drawing revision.

GOAL

Run the first test described in this guide and record the result for inspection ballooning and spreadsheet export.

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
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METHOD / STEPS

1. Define which dimensions, notes and geometric tolerances require inspection.
 2. Assign unique identifiers and capture nominal values, limits, units and characteristic type.
 3. Export a structured table with drawing, sheet, view and revision references.
 4. Compare the exported rows to the drawing and review what happens when a dimension is added or removed.
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THINGS TO WATCH FOR

Do not convert all tolerances into symmetric $\pm$ values. Reference dimensions and basic dimensions have different inspection meaning. Renumbering can break historical inspection records.

FIRST TEST / WHAT TO RECORD

Every balloon has one intended row, and every exported value retains its unit and tolerance semantics.

RESULT / WHERE THIS STANDS

Every balloon has one intended row, and every exported value retains its unit and tolerance semantics.

TROUBLESHOOTING

- Do not convert all tolerances into symmetric $\pm$ values. Reference dimensions and basic dimensions have different inspection meaning. Renumbering can break historical inspection records.
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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-058-public-summary.txt](#)

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-058-public-summary.txt>

RETURN TO THE LIVING RECORD

Inspection ballooning and spreadsheet export

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

<https://u225x.com/record/CAD-058>