

Hexagon scanner/probe and DeziqnWorks workflow

CAD-027 / REV A / 2026.09.01

Use probing for discrete functional references and scanning for surface coverage within the supported arm/software combination.

STATUS	Starting Point
CLASSIFICATION	CAD
MATERIAL	CAD / AUTOMATION
DISPOSITION	PUBLIC / STARTING POINT
CATEGORY	CAD / Scanning / Automation
RECORD TYPE	how-to

GOAL

Run the first test described in this guide and record the result for hexagon scanner/probe and deziqnworks workflow.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

- Scanner / mesh workflow
- Representative test model
- Measurement or inspection method

METHOD / STEPS

1. Confirm the arm/probe model, calibration status and supported DeziqnWorks integration. Secure the part and arm setup.
2. Establish the part coordinate system from functional datums rather than arbitrary scan orientation.
3. Probe planes, bores and key points as appropriate; scan complex surfaces where dense data adds value.
4. Build and constrain the CAD features from those references, then verify critical dimensions independently and archive raw data.

THINGS TO WATCH FOR

A moved arm or fixture can invalidate the established alignment. Probe compensation and calibration matter. Do not claim a specific Hexagon model or certified uncertainty without its records.

FIRST TEST / WHAT TO RECORD

The CAD model uses documented datums and checked critical dimensions, with raw acquisition data retained.

RESULT / WHERE THIS STANDS

The CAD model uses documented datums and checked critical dimensions, with raw acquisition data retained.

TROUBLESHOOTING

- A moved arm or fixture can invalidate the established alignment. Probe compensation and calibration matter. Do not claim a specific Hexagon model or certified uncertainty without its records.

SPECIFICATION

TOOL PATH	Scanner / mesh workflow
DELIVERABLE	HOW-TO
VALIDATION	Representative model / known dimension
STATUS	Starting Point

DEVELOPMENT HISTORY

2026.09.01 / Rev A

Imported as an independent manifest record; public copy keeps uncertainty visible.

REFERENCE NOTES

DezignWorks reference (<https://dezignworks.com/probing/>), DezignWorks reference (<https://www.solidworks.com/partner-product/dezignworks>).

HOW-TO SOURCES

DezignWorks reference

<https://dezignworks.com/probing/>

DezignWorks reference

<https://www.solidworks.com/partner-product/dezignworks>

RELEASED MATERIAL / SOURCE LINKS

cad-027-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-027-public-summary.txt>

RETURN TO THE LIVING RECORD

Hexagon scanner/probe and DeziignWorks workflow

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

<https://u225x.com/record/CAD-027>