



IX Healing Assistant **Effectively Fix and Reuse Imported Geometry**

IX Healing Assistant helps you to check validity of imported geometry with regard to IX V5 modeling criteria and improving the topology and the geometry of the analyzed objects

IX Healing Assistant makes parts "IX V5 compliant" as reusable components in any IX V5 application. The mold tooling process is particularly impacted by these advanced capabilities. You can fix and heal imported parts based on surfaces before using them to design the core and cavity.

Features:

- Tools to improve the geometry of analyzed objects
- Analysis tools to check the validity of imported geometry
- Healing assistant workbench

Key Benefits:

Reconciliation and fixing tools. Heal molded parts to be used in downstream manufacturing applications. This product helps check the validity of imported geometry with regard to IX V5 modeling criteria and improves the topology and geometry of the analyzed objects.

Checking tools to assess surfaces. IX Healing Assistant checks the intrinsic validity of each face, detecting: selfintersection according to merging distance criteria, wrong topology, thin faces, etc. Faces to be repaired are sorted in a specific body, keeping a partition of the initial set of faces. You can also check inter-faces G0, G1 and G2 Gap. IX Healing Assistant checks maximum G0 gap along a shared edge (3D distance maximum), G1 gap along a shared edge (angle between 0 and 180 degrees), and maximum G2 gap along a shared edge (percentage). You can accurately analyze surfaces as you are guided through intuitive dialog boxes and then choose to easily heal the defective surfaces.

Smooth face boundary and curves. IX Healing Assistant analyzes G0, G1 and G2 gaps on the boundary of a face. An automatic computation of the minimum threshold is performed so that you can then intuitively fill the gaps, smooth tangency and curvature discontinuities on the edges of the face boundary, remove small edges, or reduce the number of edges. A 3D customizable display of input and output discontinuities help you visualize the results of the analysis.

Global and local Join feature. IX Healing Assistant provides an automated tool to carry out join operations. The Global Join feature can join curves or surfaces while you control the connectivity and other options to manage and optimize the repairing. A Local Join feature is also available to join selected edges of a surface with automatic computation of the merging distance.

Automated global and local healing. IX Healing Assistant allows you to modify the face geometry of a shell in order to reduce gaps within 0.001 mm. You can impose faces not to be modified, if necessary, while planar elements are frozen by default. You have the ability to freeze faces and edges and to keep edges sharp in order to specify the way the part will be reconciled.

Prerequisite: IX Design V5

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