CADdoctor offers

- Precise and exact 3D data conversion
- Secure and fast exchange of complex CAD data
- Loss-free conversion, repair and processing
- FE modeling support and geometry simplification
**CADdoctor**

With CADdoctor the designer has a tool that converts, repairs and optimizes 3D CAD data precisely without any loss.

The increasing complexity of the data and the conversion of CAD data via neutral interfaces frequently lead to loss of data or elaborate reworking. The combination of native interfaces and high-quality repair functions guarantees a fast, precise and flexible exchange even of the most complex 3D CAD data.

**Qualitative CAD data checking and optimization**

CADdoctor validates the data set for potential error sources. The points of failure are visualized in the model, classified according to their severity and automatically optimized. The repair algorithms always adjust within the system tolerances of the native CAD systems to ensure full data integrity. The intuitional user interface makes it simple for the designer to also make repairs interactively.

**FE-modeling and geometry simplification, polygon data**

Complex CAD models can specifically be simplified and unwanted geometry, such as fillets, chamfers and perforations are removed. This feature avoids invalid network structures, irregularities, analytical errors or unnecessarily long calculation times.

**Creating metafaces by combining individual surface patches**

**CADdoctor** visualizes potential sources of error (left), classifies them in terms of their severity levels and optimizes the CAD model automatically (right).

**Removing of geometries such as radii, holes, perforations**

**Creating a bounding geometry for know-how protection from interference contours and data reduction**

**Creation, examination, reparation and optimization of polygon data by remeshing**

**Creation of polygon data from point clouds including processing**

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