CAD VIEWER
ADVANCED ANALYSIS
COLLABORATION TOOL

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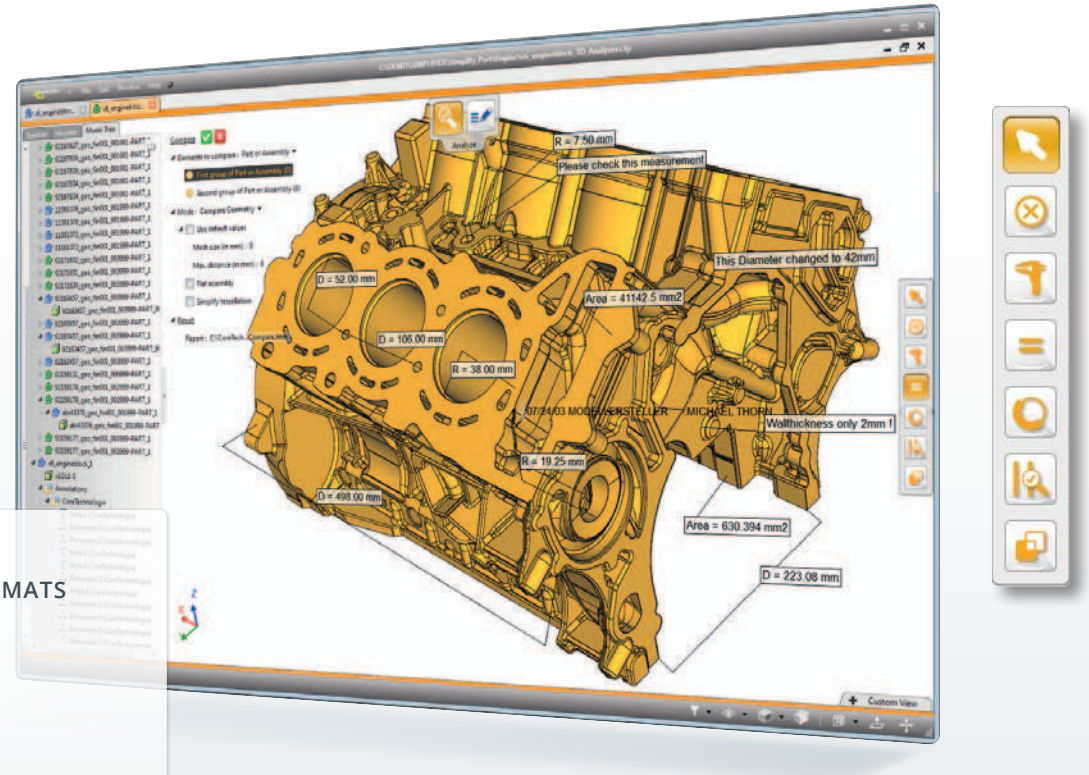
CORETECHNOLOGIE

3D ANALYZER

Our Unique Viewer is the perfect tool to independently review and analyze models of all major CAD formats.

SPEED AND PRECISION

Equipped with powerful graphics and superfast interfaces 3D_Analyzer opens and analyzes even large assemblies with impressive speed. The high end interfaces read CAD data also including features, PMI and metadata. The Viewer works with the exact B-Rep and tessellation, allowing precise measurements and an exact calculation of the model properties.

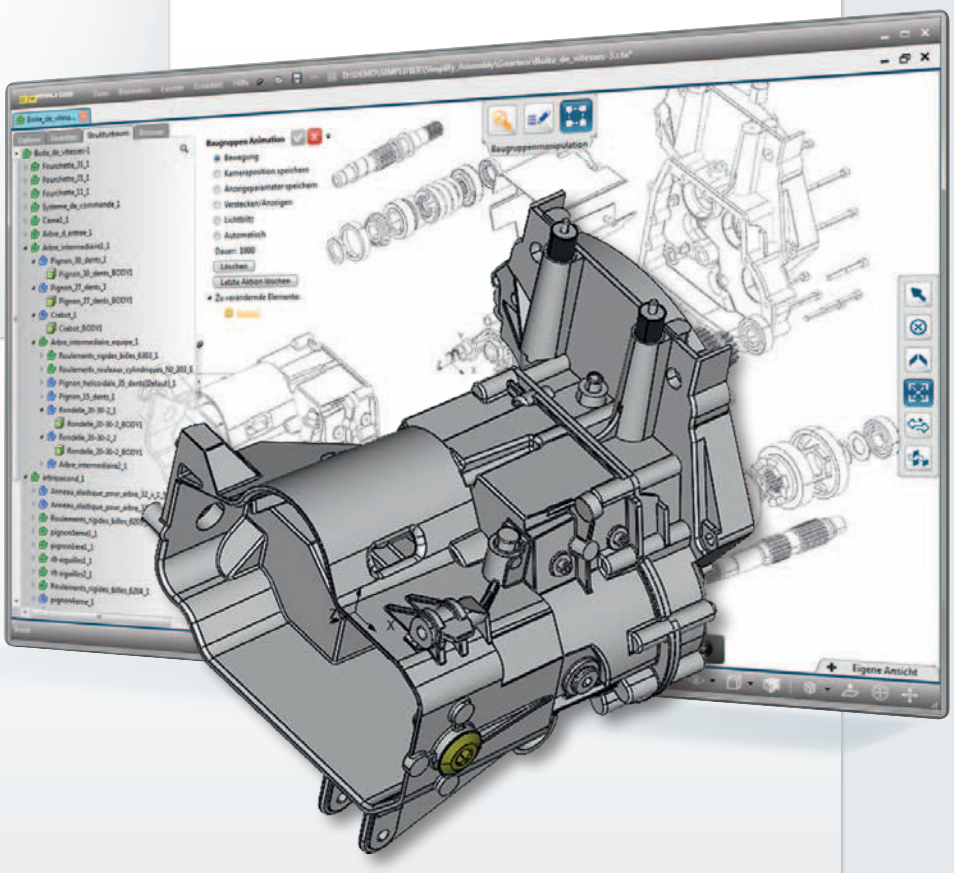


SUPPORTED FORMATS

- NX™
- CATIA® V4/V5/V6
- Creo® 1/2/3
- SOLIDWORKS®
- STEP AP 203/214/242
- JT-Format
- XT-Format
- ACIS®
- DWG
- 2D-Format
- INVENTOR®
- and many more

KEY FEATURES

- Comprehensive measuring functions
- 3D PDF and JT writing
- Redlining functions
- Display of CAD Features and Parameters
- Display of PMI and Annotations
- Display of Metadata
- Creation of sections with dynamic planes
- User customized views
- Check drafts and undercuts
- Ghost link detection
- Sharp edges detection
- Area and bounding box calculation
- PDQ Checker Sasig/VDA 4955/2
- Comparison of geometry, assemblies, PMI and attributes
- Check wall thickness
- Collision Detection Checker
- Backlash Checker
- Projected surface computation
- Explosion View
- Native viewer format
- Floating License and/or Dongle



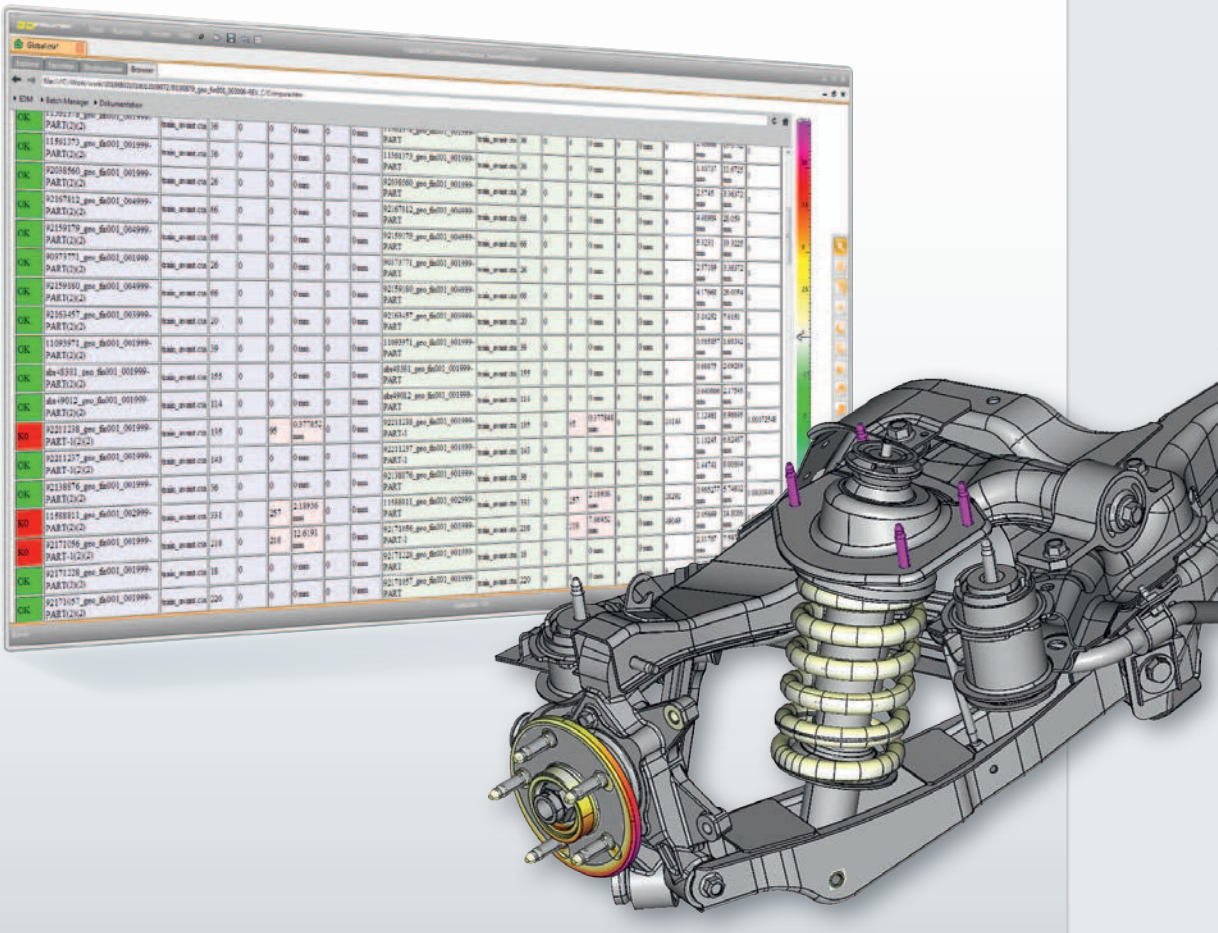
ASSEMBLIES MANIPULATION AND ANIMATION

Assemblies manipulation offers functions to modify quickly and easily the position of assembly components. They can be moved and positioned relatively to other component. An other usage is the fast creation of exploded assembly representation. The assembly modification can be recorded and replay step by step. At last action, the complete sequence can be recorded in a movie file.

Advanced Analysis for Comparison.

ASSEMBLIES, PMI, ATTRIBUTES, FEATURES, GEOMETRIC COMPARISON

Advanced Compare reliably and swiftly indicates and displays variances between different 3-D geometries. Parts and assemblies of different formats can be compared with customized accuracy. The powerful 3D_Analyzer graphics provide a clear overview. Discrepancies are highlighted with a color scale and filter functions which allow for an easy interactive analysis. Geometric variances can be detected along with, separated assembly structures as well as comparing PMIs. Performed in batch mode, the Advanced Analysis functions create reports in different formats that fit to different usage (print, display on screen) and a lightweight viewer format as a graphical output.

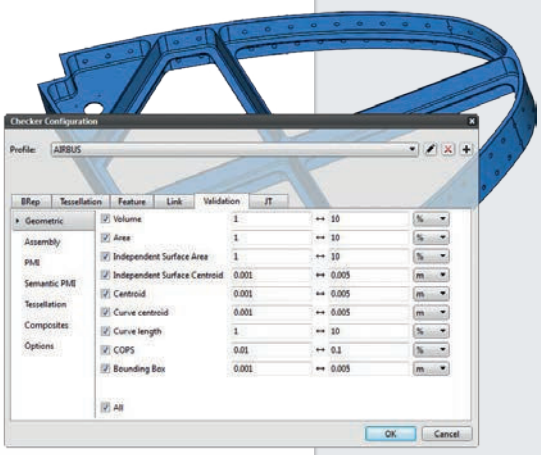


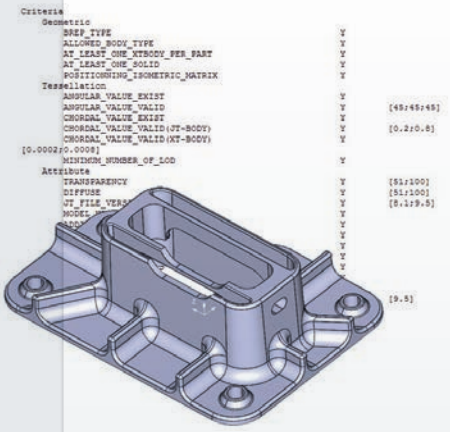
Advanced Analyze, Quality Check and Validation Tools.

LTAR GVP VALIDATION

This tool has been developed in close collaboration with the aerospace industry to validate CAD data for Long-Term Archival and Retrieval (LOTAR).

Based on the Geometric Validation Properties (GVP) values written in the STEP AP 242 files by the CAD system generating the 3D models the data will be read and checked by the independent 3D_Analyzer kernel validating these values. In addition, a log file meeting all LOTAR requirements will be created. As with all check functions this process can be performed also in batch mode. It is also available for JT format.





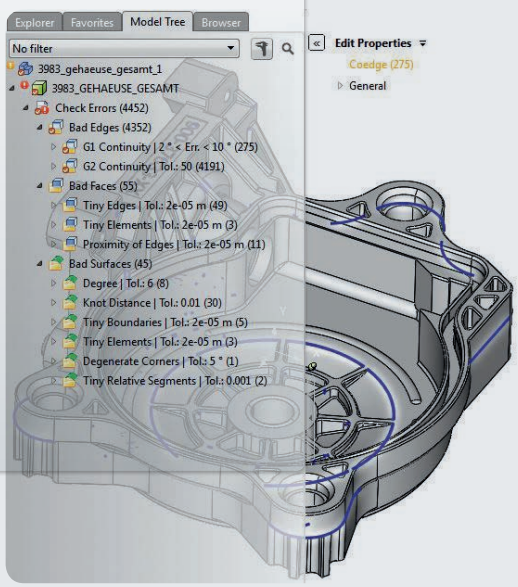
JT DATA CHECK

The JT format offers many different possibilities to describe structure and geometry as well as tessellated information. To check if a JT file created by an application is meeting specific standards the JT checker is an easy solution. At the push of a button the tool checks all relevant criteria defined by a free definable user profile.

After a check of the moniker identifier it is also possible to correct the monikers of a given model automatically. User-defined profiles make it easy to verify if data is approved, e.g. for a JT data exchange with Daimler.

VDA AND SASIG QUALITY CHECK

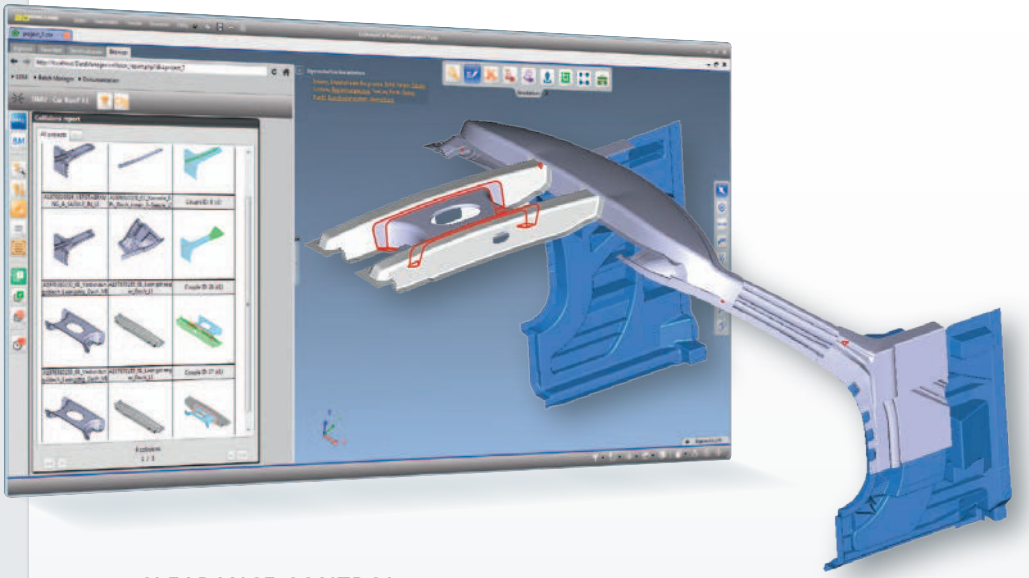
The Quality Checker verifies all 3D geometries independent of the CAD format. It is the only viewer that is certified in accordance with SASIG/PDQ and VDA 4955/2 specifications. Depending upon the application or customer requirements, testing profiles containing the relevant testing criteria can be saved.



Advanced Analysis for DMU.

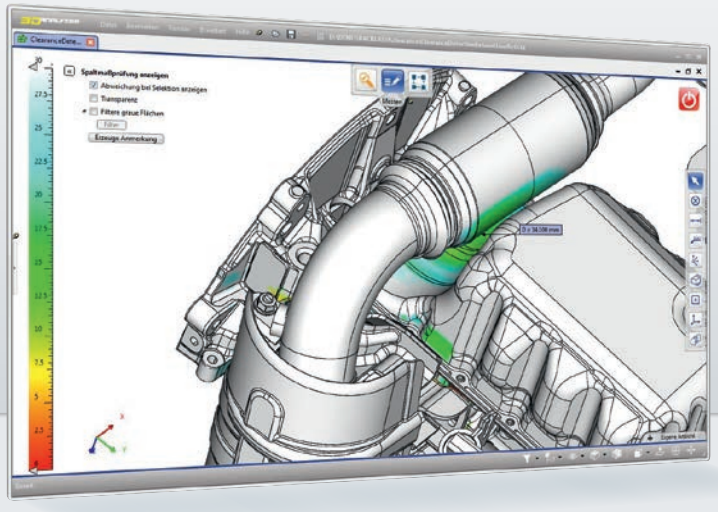
COLLISION DETECTION

For digital mock-up our reliable Collision Detection tool finds intersections between parts in assemblies. Parts with allowed intersections can be listed in a XML file and can then be excluded from the process. The detected collisions are highlighted by intersection curves while the model is displayed as transparent. The collision report file contains the list of all collided parts as well as the related fully functional 3-D and the collision curves.

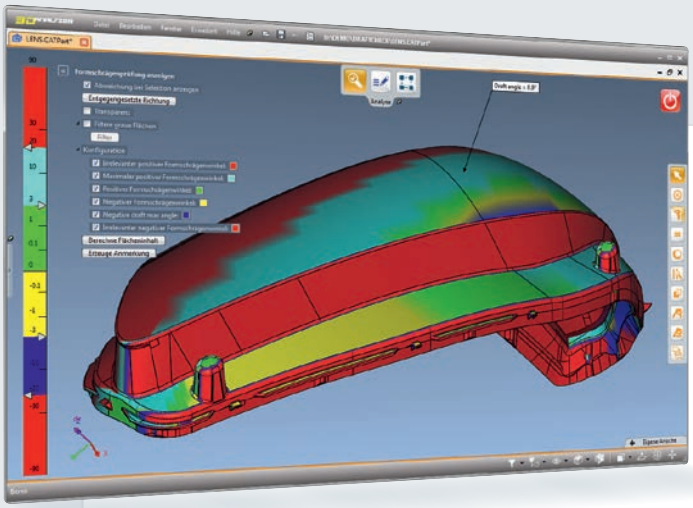


CLEARANCE CONTROL

This technology is important to ensure the quality of assemblies, e.g. to avoid vibration noises caused by parts outside a defined clearance interval. A clearance can also be checked within parts to avoid design errors causing manufacturing problems. Reliability, high-resolution display as well as outstanding performance are shared between all Advanced Analysis modules.



Advanced Analysis for Geometry.



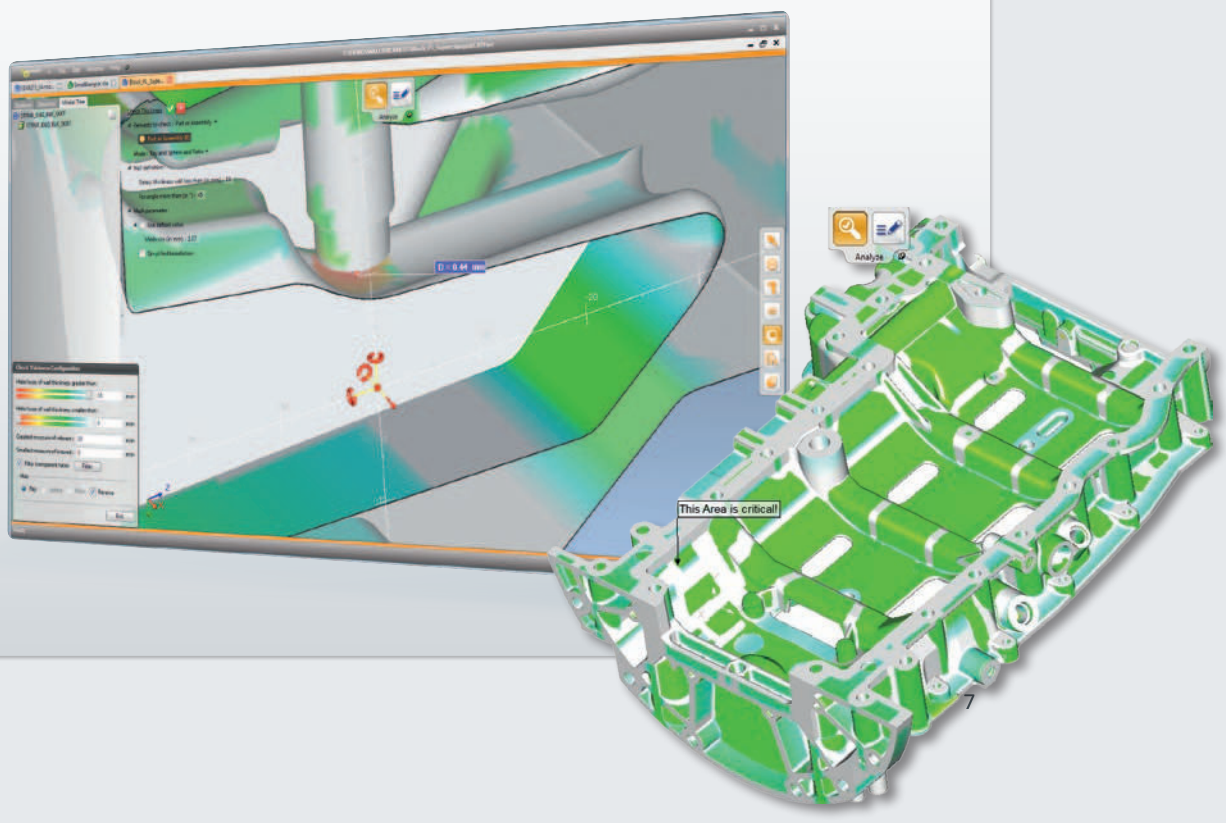
DRAFT AND UNDERCUT ANALYSIS

Draft Analysis and Undercut Analysis are two highly-developed tools that analyze and test the feasibility of removing a part from a mold.

Both tools are responsible for the correct application of drafts for surfaces and bodies. All results after using these two tools are displayed on a color map showing the draft angle across the part. This allows users to quickly determine areas of draft. Through the solutions of 3D_Evolution -the software allows a user to define specific values for X, Y and Z for Draft Analysis.

THICKNESS CHECKER

The Thickness Checker indicates areas of critical, user-defined wall thickness, e.g. in casting parts. Areas where the wall thickness falls below or rises above the defined value are clearly highlighted and can be displayed separately while the values are indicated by color. The Thickness Checker technology saves precious resources, increases quality and avoids costly changes at early stages of product development.



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ABOUT CORETECHNOLOGIE

CoreTechnologie is an international software developer with locations in Germany, France, USA, Italy, Japan, India and Great Britain. In the CAD interoperability universe, CoreTechnologie is the leading global producer of the most comprehensive 3D conversion and collaboration software tools available today. Our goal is future-oriented development and customer centric technology to optimize interoperability, thus helping organizations to streamline their Product Life Cycle management. We work with highly professional automated processes and we are always one step ahead from the latest technology. The top priority for us is that our software has the possibility to adapt to all customer requirements.

Our success is based on CoreTechnologie's unique approach to reading CAD data without the API of the CAD application of both boundary and parametric dataset with PMI, attributes and composite to name a few. In addition, with functions to incorporate the engineering chore to include but not limited to compare, simplification, and collision detection.

The customer portfolio by CoreTechnologie comprises more than 400's customer from several sectors like automotive-, aerospace-, mechanical engineering- and consumer goods industry.

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