

Easily classify parts.

classmate DATA
classmate CAD
classmate FINDER
classmate PLAN

With the help of classmate CAD, you can reduce your design effort and bring order to the management of your parts. The software analyzes and classifies 3D models and geometric information. Independently and automatically.

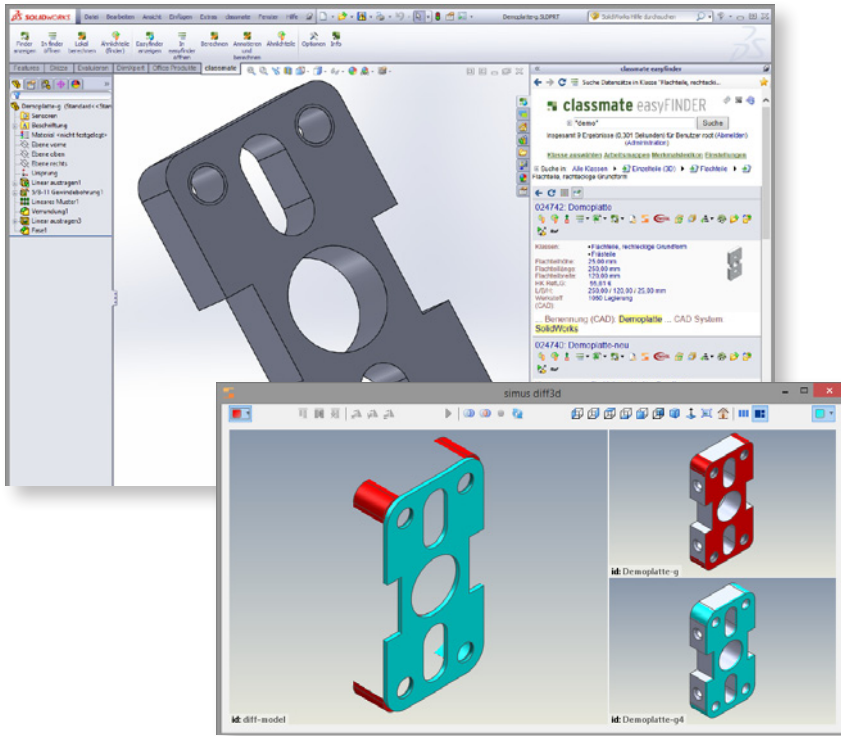
 **simus classmate**



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classmate CAD: Makes it easier than ever to locate design solutions.



With the help of classmate CAD, you can make sure that existing CAD models are efficiently used for new projects.

Profit from these advantages:

- ✓ Save money because your designers can conveniently build new projects on existing solutions.
- ✓ Time-to-Market: Save valuable time in product development by reusing proven CAD models.
- ✓ Your designing engineers do not have to make an effort since their software is running automatically in the background.
- ✓ Your CAD models are completely and correctly classified at any time, even in retrospect.

Classifies 3D models without any effort for the designing engineer.

Automatic classification

classmate CAD is patented and works as an addition to existing software solutions in your company. The automatic geometrical classification and indexing of 3D CAD models for the similar part search is embedded in the existing CAD software. classmate CAD automatically fills the class-specific table of characteristics with the determined values and creates 2D and 3D preview formats for illustration purposes.

Customizable and comprehensible system of rules at any time

classmate CAD works with customizable, highly efficient rules. A best practice regime for machinery and plant engineering already covers a large part of classification tasks by default and is individually supplemented. Your data are classified, equipped with characteristics, and geometrically indexed in the shortest time.

No effort for the designing engineer

The patented solution analyzes 3D CAD models according to form elements such as external or inner contours, drillings, drilling arrangement, chamfers, curves, and notches. Thereby, it is irrelevant how the CAD modeling is structured.

classmate CAD carries these extensive analyses and evaluation tasks out automatically without the help of the designer. The designer creates his or her model as usual and saves it in the PDM system. Parallel to this, classmate CAD independently analyzes the 3D CAD models and also calculates an index ("geometrical fingerprint") for each CAD model. That enables a similarity search on the basis of an existing geometry. Diagrams, graphics, 2D preview images, and 3D viewer formats, which are also created from the data collected, enable an efficient search for parts.

Subsequent processes are simplified

With the help of classmate CAD, you can save time and money in the long run. You do not only reuse design models and standardize parts but also relieve the work preparation, speed up the NC programming, and optimize purchasing.

classmate CAD offers interfaces to Autodesk® Inventor®, Catia, PTC Creo Parametric, Siemens NX, Solid Edge, SolidWorks.