



CGM Defeaturing

Automated Simplification of Models

Identify and remove features such as fillets and holes from CAD models to achieve the right level-of-detail for visualization, design, manufacturing or simulation.

Applications can use feature recognition along with face removal to build smart defeaturing workflows such as the elimination of specific hole types including counter bore holes, counter sunk holes, through holes, blind holes, and more.

PROCESS AUTOMATION

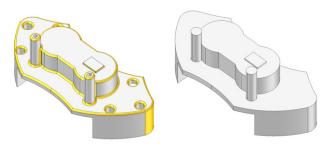
CGM Defeaturing delivers automation by removing hole or fillet features in one-step without user input; for example deleting all the complex fillet chains on a CAD model without manual selection of seed faces.

SIMPLIFICATION FOR SIMULATION

CGM Defeaturing is customizable by filtering on hole or fillet size; small model details can be removed to reduce solver time and larger details needed in the analysis can be kept.

LEVEL OF DETAIL IN VISUALIZATION

CAD Parts and assemblies created for manufacturing carry more detail than is needed for real-time rendering, CGM Defeaturing reduces model tessellation and improves visualization performance.





CGM DEFEATURING **FEATURES**

Fillet and Hole Removal

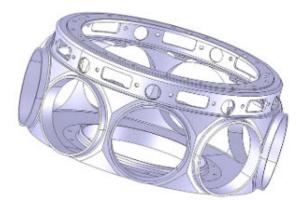
CGM Defeaturing supports standard hole types in CAD systems such as SolidWorks, Catia, etc but is also robust for complex real world scenarios. When removing fillets, CGM Defeaturing preserves model quality through robust surface extension algorithms allowing future modifications such as the application of drafts, chamfers, or direct edits.

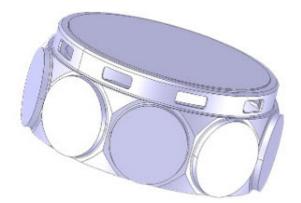
Modeler and CAD Agnostic

CGM Defeaturing uses a geometrical recognition algorithm and supports Native CAD and formats which do not have feature tree information such as STEP, IGES, etc.

Feature Recognition and Face Removal

Use feature recognition along with face removal to eliminate details such as logos, pockets and pads.





Our **3D**EXPERIENCE® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE** Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating 'virtual experience twins' of the real world with our **3DEXPERIENCE** platform and applications, our customers push the boundaries of innovation, learning and production.



Dassault Systèmes' 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.





Americas Dassault Systèmes 175 Wyman Street Waltham, Massachusetts 02451-1223 USA

Europe/Middle East/Africa Dassault Systèmes 10, rue Marcel Dassault CS 40501

France

Dassault Systèmes K.K. ThinkPark Tower 78946 Vélizy-Villacoublay Cedex Tokyo 141-6020 Japan

3DEXPERIENCE Asia-Pacific 2-1-1 Osaki, Shinagawa-ku,