



CATIA PLM Express

CATIA - Mechanical Shape Optimization

Rapid deformation of any complex shape

Overview

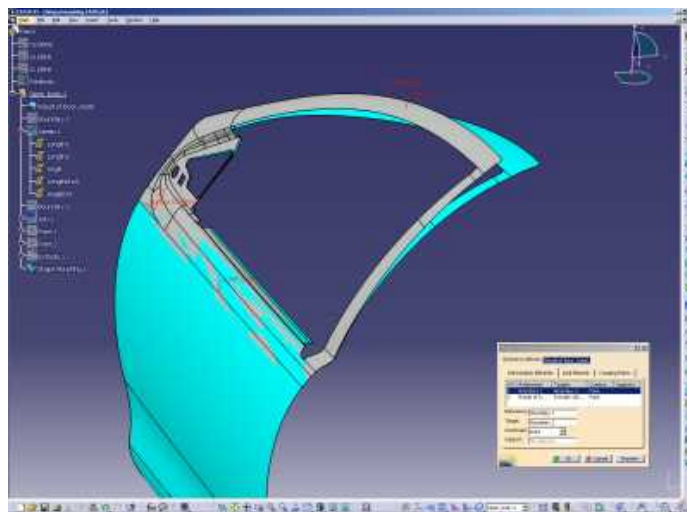
CATIA - Mechanical Shape Optimization embeds unique breakthrough technologies enabling to perform quickly global morphing on complex shapes. It allows either to deform interactively shapes or to capture the realistic one based on real-world tests of the product in operation. This easy-to-use environment helps designers to achieve a real productivity gains to optimize the product or the tooling definition.

Benefits

- Achievement of high productivity gains while performing global deformation on complex shapes without altering models quality
- Optimization of the product or the tooling definition thanks to the comparison between the shape created from as-built measurements and nominal one
- Robust morphing approach promoting the use of high quality generative models ready for manufacturing purposes

Capabilities

- Set of smart tools for local and global morphing of complex surfaces
- Immediate comparison between nominal shape and realistic one
- Ability to modify surfaces coming from external systems
- Create a curve or a surface deformation based on a defined initial status and a final one
- Manages offset of non-tangent skins with different values thanks to the Variable Offset
- Flexible Rough Offset to deform shapes with constraints
- Transfer multiple curves or points laid on a revolution surface on a plane surface and conversely



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About Dassault Systèmes

As a world leader in 3D and Product Lifecycle Management (PLM) solutions, Dassault Systèmes brings value to more than 90,000 customers in 80 countries. A pioneer in the 3D software market since 1981, Dassault Systèmes develops and markets PLM application software and services that support industrial processes and provide a 3D vision of the entire lifecycle of products from conception to maintenance. The Dassault Systèmes portfolio consists of CATIA for designing the virtual product - SolidWorks for 3D mechanical design - DELMIA for virtual production - SIMULIA for virtual testing and ENOVIA for global collaborative lifecycle management, including ENOVIA VPLM, ENOVIA MatrixOne and ENOVIA SmarTeam. Dassault Systèmes is listed on the Nasdaq (DASTY) and Euronext Paris (#13065, DSY.PA) stock exchanges. For more information, visit <http://www.3ds.com>

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TECMES

MAIS INFORMAÇÕES:

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