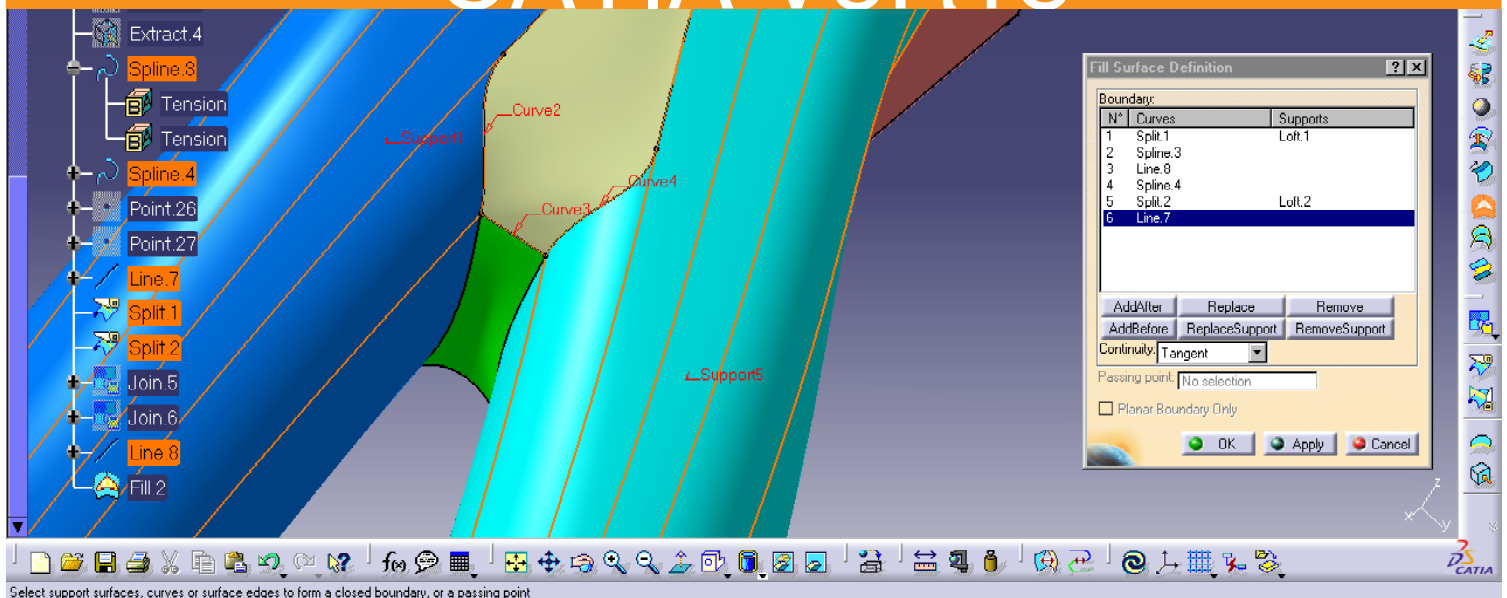


Mechanical Design

CATIA - Wireframe & Surface 1 (WS1)

CATIA V5R18





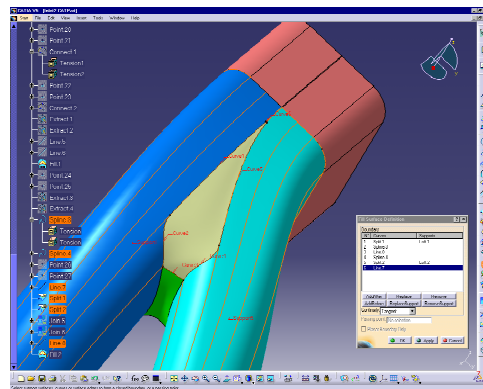
Mechanical Design

CATIA - Wireframe & Surface

Create in-context wireframe construction elements and basic surfaces

Product overview

CATIA - Wireframe & Surface 1 (WS1) is used to create wireframe construction elements during the preliminary design phase. It can also enrich existing 3D mechanical part design with wireframe and basic surface features. Its feature-based approach contributes to a productive and intuitive design environment where design methodologies and specifications can be captured and reused.



(splines 3D for instance).

Product Highlights

- ❑ Essential 3D geometric features to create wireframes and shapes
- ❑ Wireframe and Surface Structure Editor facilitates the capture of design intent and speeds up design changes
- ❑ Associative design in context allows concurrent work with user controlled associativity
- ❑ Timesaving management of design modifications
- ❑ Flexible post-design 3D parameterization

Product Key Customers Benefits

Elements and Features... Wireframe elements include point (by coordinates, on plane, on curve), line (point-to-point, point-direction, normal to), plane (offset, angle, through 3 points, through line and point, offset through point), and curves

Structure Editor... The Wireframe and Surface Structure Editor facilitates the capture of design intent and speeds up design changes. Features include cut, copy, paste, drag and drop, edit, zoom, pan, vertical and horizontal modes.

Associative... Design in context allows concurrent work with user control of associativity. The wireframe and surface can be designed using the part or assembly context. When design changes are made, the user controls the propagation of modifications. The designer can reuse an existing surface, and link in additional parts to support concurrent engineering (similar to CATIA V4's Multi Model capabilities).

Timesaving Features... CATIA Wireframe Surface 1 includes features for the management of design modifications. The product provides the capability to isolate the geometry without its history, so it can be dynamically deformed with the FreeStyle

applications.

Flexible post-design ... Post-design 3D parameterization can be performed during or following the design, by adding 3D constraints across features.

Under-constrained designs are allowed and over-constrained designs are possible. In such cases, CATIA will alert the user, asking which constraint to remove. A built-in assistant helps the user through the creation and modification of wireframe elements (snap on geometry).

ABOUT CATIA V5R18

CATIA is Dassault Systemes' PLM solution for digital product definition and simulation.

plm.3ds.com/CATIA

