

workxplore

3D

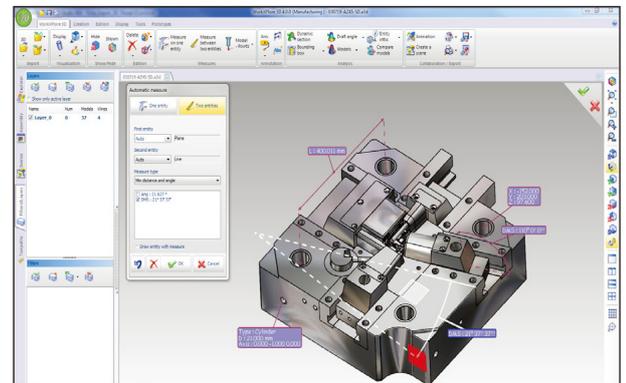
WorkXplore V4.0 - New Features and Improvements

WorkXplore V4.0 is a major release which integrates around 30 new, innovative functions offering improved ergonomics and more detailed and accurate analysis tools.

New Measurement Functions

The Point, Distance, Radius and Angle measurement tools have been replaced by two new functions: Measure on One Entity and Measure between Two Entities.

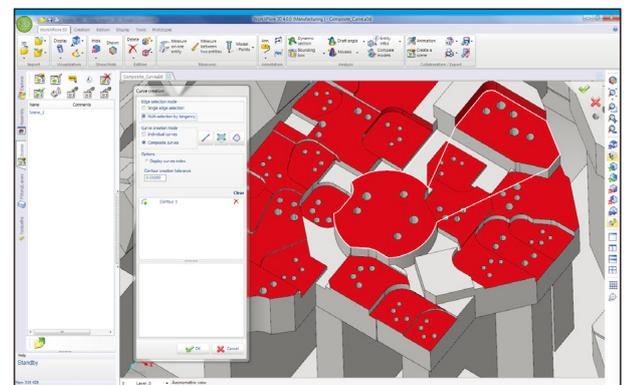
Users no longer have to explicitly indicate the type of measurement that he wants to make. He simply has to select the entities to obtain the result. Even though the automatic mode covers a large range of user requirements, there is still the possibility of forcing a specific mode such as point or plane selections in order to eliminate any restrictions with respect to the entities used for making measurements.



New Measuring Tools

Composite Curves

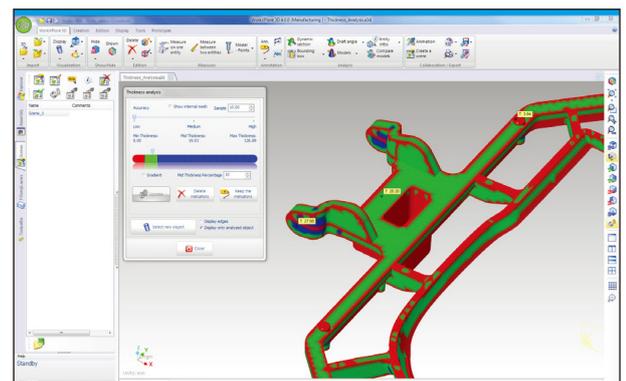
This new type of entity, integrated into Version 4, allows several curves to be combined and merged into one single entity whilst preserving the original individual entities. The creation process is simple yet powerful at the same time and in addition to curve entities, solid and mesh edges can be used. Composite curve analysis is a source of useful information such as curve length, whether it is planar or not, the area if it is closed and planar along with details of each element which composes the curve. Composite curves can also be used as guides for dynamic sectioning and animation purposes.



Rapid Creation of Composite Curves on a Model

Thickness Analysis

The thickness analysis function can be used to highlight critical zones on mechanical parts. Values are indicated on a colour scale which can be represented by colored bands or progressive colour changes. There are three levels of precision to determine analysis rapidity and quality. Users can also obtain information about thickness at a specific point by clicking on the model.



New Thickness Analysis Function and Localized Measurements

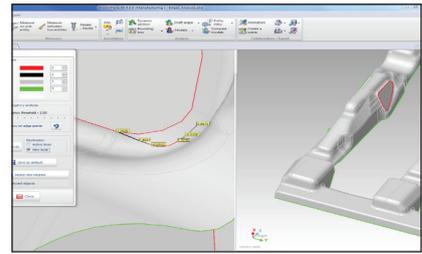
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Improved boundary and edge analysis

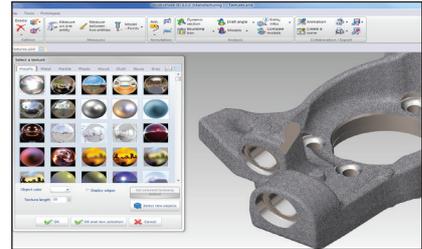
It is possible to extract boundary and edge analysis curves. Only the displayed entities are extracted. The result can be saved in the current layer or automatically saved in a new layer. Once the function is active, users can select model edges to obtain detailed information about them. Edge colour varies according to tangency values. Tangency values can also be displayed.



Progressive edge colouring according to tangency value

Textures

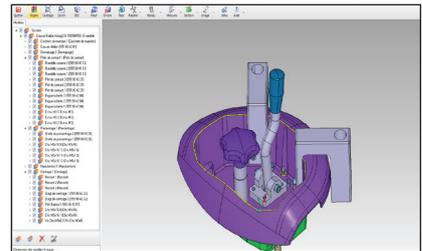
The Texture function now has the same behaviour as other rendering modification functions, activating the display with the texture applied to all visible objects. Objects are displayed with their previously defined texture or with a default texture. Three new parameters have also been added: entity background colour, edge display and the density of the texture representation on the part.



Rapid Application of Model Texture

Improvements in 'Client Viewer'

Four major improvements have been made to the Client Viewer, amongst these are the possibility of recovering an assembly as it seen in WorkXplore 3D. Labels can be added as a new annotation function by the end-user. After having defined the text, the label is created by simply clicking in the Viewing Area. The label can be freely positioned in the Viewing Area. Two new buttons have been added to the measurements list: this allows all measurements in the list to be deleted and the text of a selected label can be modified. In the Client Viewer, anchor points used for measurements are now positioned at the extremities and mid-points of model edges.

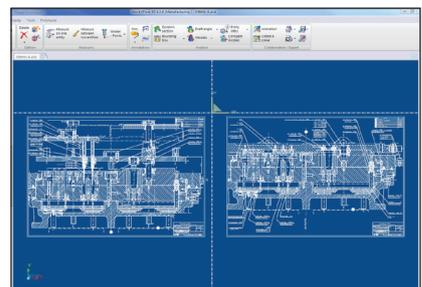


Assembly Tree Recovery from WorkXplore

Numerous features and improvements...

The wide range of new features and improvements introduced in this new version offer greater flexibility to WorkXplore throughout the whole production process, including steps such as purchasing, quotations, design and marketing.

- Copy and paste,
- Data import from compressed files,
- Exporting scenes in PDF, HTML and RTF formats,
- Monochrome wireframe display,
- Importing a Workzone by Drag & Drop.



Monochrome wireframe display



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