eBrowser (PB1–PB4)

The ultimate project review tool allows users to walk through the 3D model or point clouds, combine several models into one or compare them with each other, check collisions, easily locate and check details about any object, get dimensions and make markups for project coordination and change management.

Key Features

- Stand-alone browser with support for multiple file formats: EBM (native CADMATIC format), DWG, DFX, IFC, DGN.
- Possibility to merge models from different formats and sources and subset parts of the models into a separate file.
- Comparison of 3D models, including metadata and clash check.
- Possibility to upload point clouds with photorealistic panoramic views.
- Simple and efficient navigation using 3D or model hierarchy.
- Control of visibility, transparency and color of objects.
- Attributes and metadata from design models.

Main Benefits

- Small file sizes: a complete model of a complex factory including all disciplines will take only a few Mb of disk space and can be sent via email.
- Combine or compare several 3D models.
- Walk through the project virtually, check all the details of any object.
- Check designs for clashes in 3D.
- Use markups for change management and discussions with other project partners.
- Load point clouds to compare new designs and existing structures.
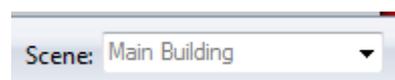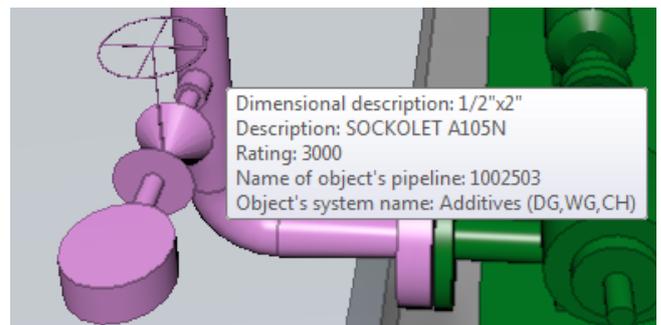- Free limited version available from www.cadmatic.com.

Models from CADMATIC, IFC and Other CAD Formats

CADMATIC eBrowser supports opening models, generated from CADMATIC Design software, files with an .ebm extension and files in IFC format. eBrowser files can also be generated via CADMATIC eXchangers (PDMS, PDS, SmartPlant 3D). In this case, the project originating from
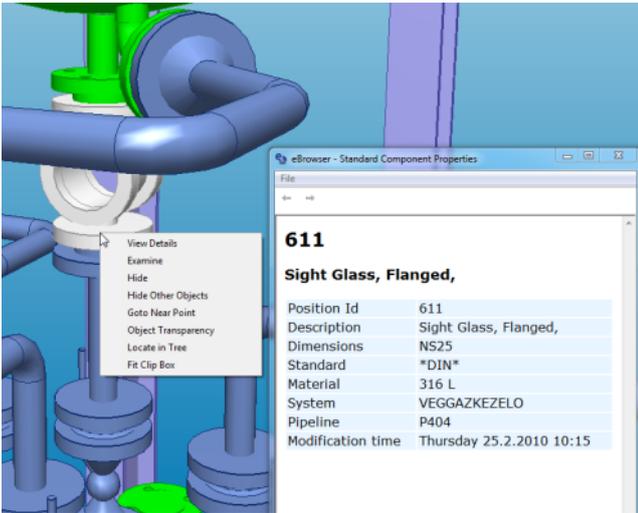
these programs can be opened in eBrowser with all the intelligence included – colors, attributes, coordinates, etc.

Efficient 3D Model Review

- Navigate in the 3D model with a mouse.
- Use predefined scenes in the model to jump from one location to another.
- Configurable property tips to quickly show information about any object.
- Check any object details with a mouse click.
- Measurements including distances from the surfaces of pipes.
- Hierarchies and model tree for visibility control.
- Search for any data.
- Clip the model view box to limit viewing to only one part of the model.
- Control visualizations in the model with hiding, transparent, examine, and x-ray modes.
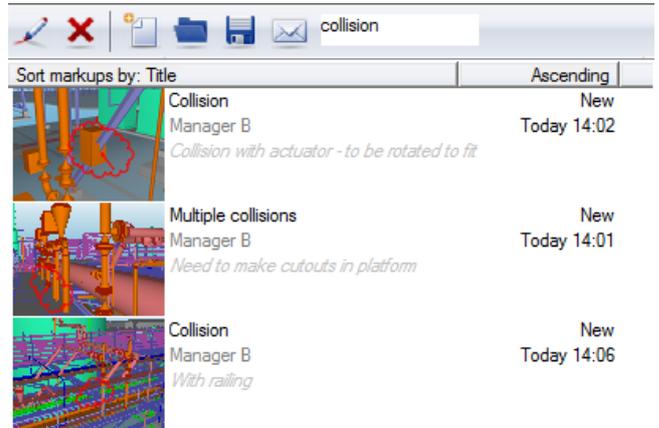

Dimensional description: 1/2"x2"
Description: SOCKOLET A105N
Rating: 3000
Name of object's pipeline: 1002503
Object's system name: Additives (DG,WG,CH)

Scene: Main Building

Configurable object property tooltips

Complete object properties can be shown

Measurements from the model

The user can optimize work in the model with various settings: selecting measurement units, controlling view distance (how far you see from each point), moving and turning speed, level of optimization (frames per second).

Additionally, there are visualization settings for better representation of the model: background image, highlighting materials, transparency intensity.

Project Coordination and Collaboration

Designers, engineers, subcontractors, and end clients are linked to a 3D model that allows easy project reviews, facilitated by the ability to virtually walk around the design area and access all design data. The use of smart visualization techniques makes the 3D models very light. This makes distribution by email or over the Internet, for example, very easy.
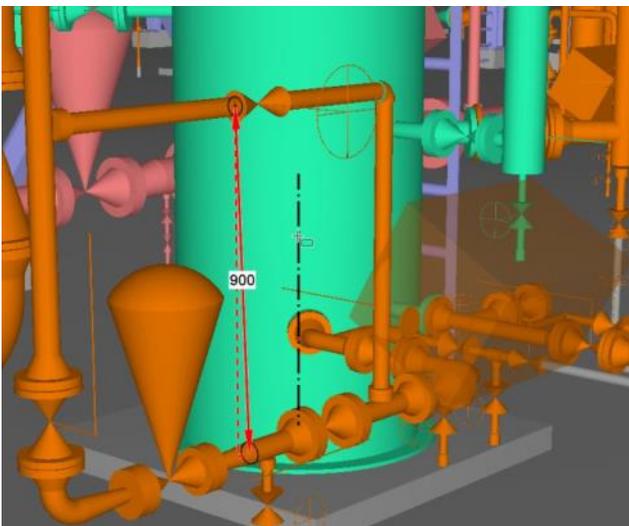
- Markups for storing any discussion about the model.
- Merging models: loading several models, relocating models and saving the merged models into one.
- Comparison of the 3D models.

Markups allow storing and sharing project review information

Check Models for Clashes

In addition to efficient browsing of 3D models, comparison tools and storing discussions, it is now possible to check for collisions directly in eBrowser. The collision detector inside eBrowser enables users to gain deeper insight into the 3D model and combine 3D models from different sources and check consistency between disciplines.
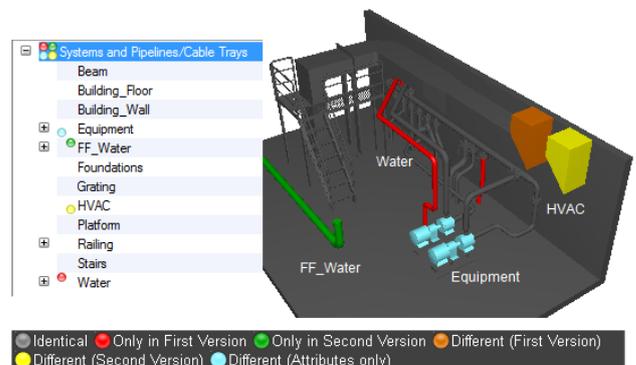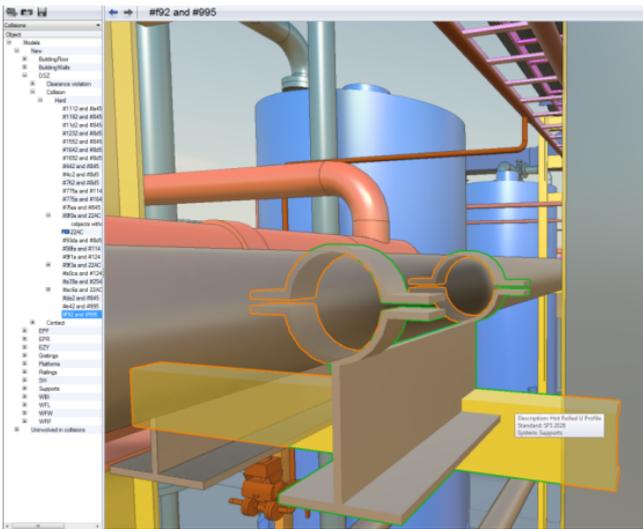
Collision Reports Visualized in eBrowser

It is possible to check for clashes directly in CADMATIC eBrowser. The collision detector inside eBrowser enables users to gain deeper insight into the 3D model, combine 3D models from different sources, and check consistency between disciplines.

Clash reports generated by design modules can be uploaded to eBrowser and visualized in 3D.

Collision checking helps finding design flaws.

Point Clouds in eBrowser

User can load point clouds into eBrowser and merge them with a 3D model for visual comparison and distance measurements. Photopanoramic views optimize point cloud data and provide the possibility to jump from one location to another.

Point clouds and 3D model can be visualized at the same time

Data Interfaces

- eBrowser supports opening models, generated from CADMATIC Design software, files with the .ebm extension and files in the following formats: IFC, DGW, DFX, DGN.
- eBrowser files can also be generated via CADMATIC eXchangers (PDMS, PDS, SmartPlant 3D). In this case, the projects originating from these programs can be opened in eBrowser with all the intelligence included – colors, attributes, coordinates, etc.
- Markups are stored in the EBX format and can be exported and imported from other users of the same model.
- Collision reports can be loaded from CADMATIC Design application in XLS format.
- Point clouds can be uploaded in formats: CPD, E57, PTX.