

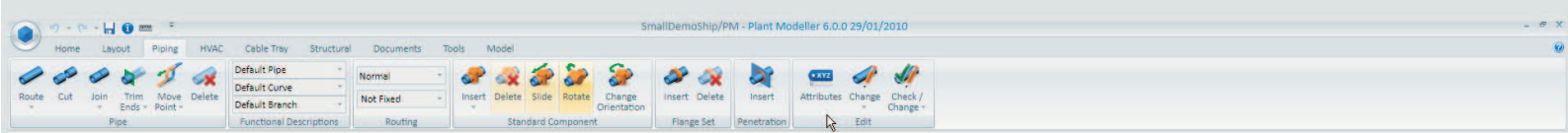
CADMATIC



Solution provider for industrial projects

Cadmatic Version 6

O P T I M I Z I N G R E S O U R C E S



Cadmatic Version 6

Boosted with new features and a modern interface

After three major releases of Version 5, the time has come for the first release of the next generation of Cadmatic software, Version 6. A major feature of the V6 software is the gradual introduction of a new interface that will further ease work and bring new efficiencies throughout the design process. Version 6.0 contains a large number of new features and innovations.

New user interface in Version 6

The new user interface in V6 combines a modern look and feel with enhancements welcomed by both novice and experienced users. What catches the eye first is the new attractive visual style, but there is much more. The new interface will change the way the software is used and allow for faster and more efficient work. In Version 6 it is available in Plant Modeller with other modules to follow in due course.

From the very beginning the interface development project team were guided by four leading principles: *Usefulness, Ease of use, Efficiency and Familiarity.*

Office 2007 look with Cadmatic logic

A powerful feature of the interface is that it has a look and feel that users are familiar with in other applications. Cadmatic's distinctive user interface is the result of years of development close to users and is already considered very efficient and easy to use. We have recognized the need for standard interfaces, but do not want to abandon our innovative ways that make Cadmatic stand out among its competitors. We also know that a 3D CAD program is not a word processor and care has been taken to use the standard interfaces in a way that is suitable to our domain. Our current principle is to use a standard look and feel with the ordinary interface components: windows, command buttons etc. and develop our own specialized interfaces in areas specific to 3D CAD and our applications. Version 6 combines the standard Office 2007 look and feel with the familiar Cadmatic logic.

Tabs to switch between command bars

Usefulness has been enhanced by increased context awareness. The main characteristic of the new ribbon interface is the use of tabs to switch between command bars; it can in fact be thought of as an extension of the traditional toolbar interface.

The tabs correspond to task areas and contain the necessary commands and options for each area. Particular attention has been paid to ensure the user's workflows are optimally supported.

Fewer and more powerful commands

The interface also strives to keep the design process as simple as possible. There are fewer and more powerful commands with clear and descriptive icons, all contained in the ribbon bar at the top of the screen. View management, for example, has been made easier with a new Views window that packs the functionality of a previous menu full of commands. The application settings can, likewise, now be found in a single place, organized logically.

Undo and Redo

Undo and Redo commands are now available, eliminating the message boxes that used to require the user's confirmation and giving the user freedom to experiment with new designs safely. The heads-up information and prompt display reduces the need to follow the message log and allows the user to maintain focus on the working area while modelling.

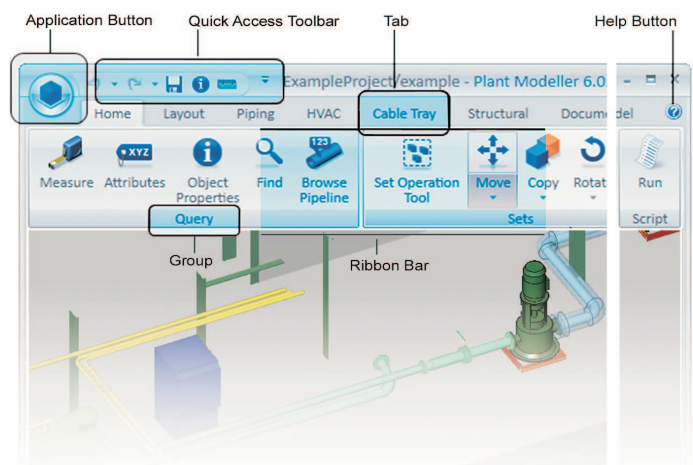
Advanced 3D interfaces

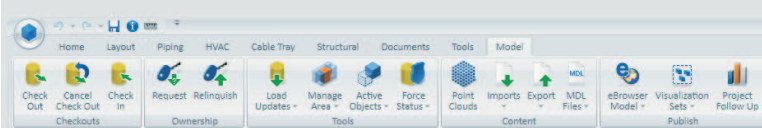
The new interface was also designed to be more efficient and this has been achieved in particular with advanced 3D interfaces. The X-ray feature, familiar from eBrowser, is now used in Plant Modeller and allows the user to see what is being modelled even when obscured by surrounding objects. This and the visualization of edges and seams, make shaded views much more useful than before. Views can be easily customized and can float freely which allows them to be dragged between multiple screens.

As before, we are piloting some new interface techniques in eBrowser. In this version, it not only sports a new look but also has snapping, which allows quick and exact picking of model geometry points. The new user interface is much more than a makeover, but aims to provide the designer with a totally new and more efficient user experience. The user interface will remain at the forefront of development efforts at Cadmatic and subsequent versions will not only bring these changes to all modules, but will contain new features and improvements as well.

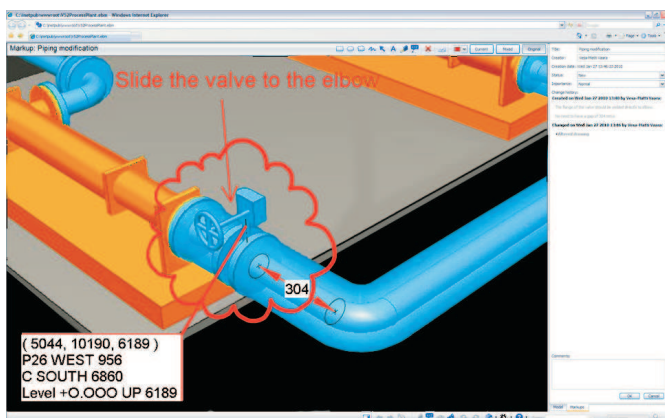
Insulation

Version 6 brings with it the all new insulation feature that will ease the work of designers significantly. Pipe insulation is specification-driven which means that the different insulation specifications can already be defined in the diagram phase. When modelling the correct insulation and materials are automatically selected according to the specifications and requires no further input from the user. This saves time and also helps the user to identify the correct space allocations



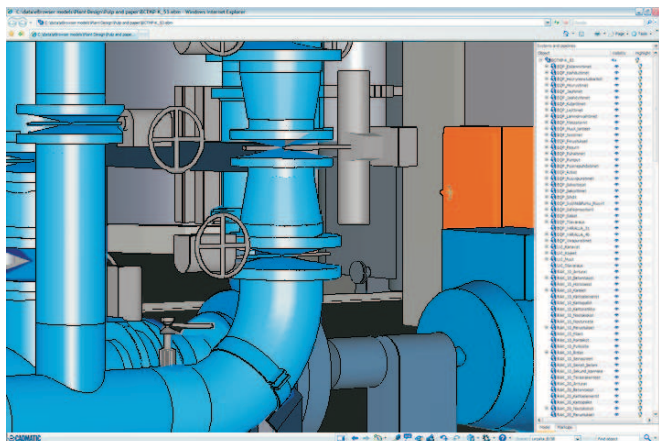


immediately and to notice possible collisions while modelling. Improvements have also been made to collision detection in Version 6 with two types of collisions, hard and soft (insulation), now detected. Collision detection is more precise in V6 than in previous versions and user-friendly tools have been added to facilitate the acceptance or rejection of collisions.



Mark-up feature in eBrowser

In V6 the Cadmatic eBrowser boasts a brand new mark-up function that is bound to make all eBrowser users sit up and take notice. The extremely useful mark-up tool allows the user to glue notes directly into the eBrowser that can then be sent immediately to another project partner for re-view or further commenting, without the need to send an explanatory email or make further phone calls. The user can flexibly point out components and areas by drawing arrows or encircling desired components to which the notes can be added. The eBrowser has always been an excellent project communication tool but with this new feature its reputation will be further enhanced.



Visible edges

In V6 edges and corners of 3D components are visible, providing the user with much clearer and more detailed information about the model. In shaded views and in some axonometric views visible edges identify the true position and composition of components that would not be discernable without this feature. This feature is available in both eBrowser and Plant Modeller in V6.

Initial Material Estimation

At Cadmatic there has recently been an increased focus on developing tools to increase the scope of software use in the early design phases. The Initial Material Estimation (IME) tool in Cadmatic Diagram is an example of such a development. Once the basic dimensions are available and the general process and component P&ID's created on top of the top views, the IME can be used to generate an estimated list of materials and components that will be required on the plant. This is an extremely useful tool for rapidly estimating the materials cost of a plant as early as the concept design phase.

Functional design template

The functional design template tool is an extremely useful tool for storing and reusing model objects or object sets as functional design templates for later use. The user simply picks piping elements, hvac, layouts or components from the 3D model and stores them in the library for later use. When the user works with a similar area or component set etc. at a later stage the functional design template can be inserted into the model after which the necessary adjustments are made. This saves a lot of time in the early design phases and enables design companies to make more efficient use of design materials from previously completed projects.

New advanced tutorial and help material

A new and extremely easy-to-use tutorial is now available for model building in Cadmatic. The tutorial is divided into three chapters and provides detailed instructions of the mandatory steps. The tutorial has already proven to be a hit with its first users with praise coming in for the ease with which new designers can get started with the help of the tutorial.

ERP/Material management systems integrations

The Cadmatic development team has several ongoing projects with current customers concerning ERP and materials management system (Mars) integration projects. Among these is STX Europe in Finland, internationally renowned for building the largest cruise ships in the world, for which a special integration between the Cadmatic Diagram module and the yard's Logimatic Mars system has been developed. Cadmatic is well placed to provide its customers with similar integrations to their ERP and Mars systems.

Version 6 highlights

New GUI

First the first time in history the Office 2007 style User Interface has been applied to 3D software thereby making its learning and use very easy and fast. Cadmatic's intuitive and efficient User Interface speeds up design projects.

Distributed design

Cadmatic's CoDesigner technology is the most advanced and easiest tool to use for distributed projects. It does not require massive hardware or very fast internet connections.

Easy administration

Administration of 3D software has never been so easy. Cadmatic has the most modern tools for library and catalogue management.

Internet based technology

Cadmatic was the first company in the world to launch an Internet-based 3D model viewer and data query tool on the market in 2003. eBrowser is today the most advanced software to visualize 3D models, to walk through, to query data and to communicate interactively about design details with other users and project parties. The web-based technology has unlimited scope for easy integrations.



Cadmatic is a leading developer and supplier of 3D plant and ship design software and engineering data management solutions. Cadmatic's innovative and dedicated personnel are constantly working on the long-term development of our software solutions. Our technical expertise and dedication to understanding customer needs make Cadmatic your ideal long-term partner.

The close relationship between Cadmatic and its customers has allowed Cadmatic to keep its software up-to-date with the requirements of modern design, engineering, manufacturing, production and operating companies. Our growing list of references include over 4500 satisfied users in more than 40 countries worldwide. Cadmatic has a growing network of certificated sales and support centers in over 20 countries around the world. We pride ourselves on providing excellent service to our customers.

Cadmatic Ltd is part of Elomatic Ltd, a leading Scandinavian consulting and engineering company.



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New Features in V6

Diagram

- Insulation specifications
- Improved reference drawing handling
- New reference drawing manager improves handling of reference drawings
- Reference views enable e.g. estimation pipe lengths and component location

Plant Modeller

- News user interface with ribbons and head-up display (HUD)
- New Insulation functionality automatically selects correct insulation materials via user-definable specifications
- Renewed "case based" collision control and new collision browser
- Functional model templates
- Improved view handling
- X-Ray visualization mode and visible edges in shaded views
- Undo/Redo function
- New advanced find & query
- New tool for pipeline, specification and NS selection
- Beam tool improved
- Tasks tool improved
- Reconstructed hole management
- 3D Import/Export improvements
- Improved component modeler

Pipe

- Improvements in spool generation
- Pipe isometry definitions via block, system and pipeline
- Options for indicating Insulation & tracing.
- Several improvements in automatic annotation
- Dimensioned 3D attachments of spool drawings

System Administration

- COS improvements including recurred memory consumption while replicating
- License management supports more browsers
- Specification setup made even more easier
- Drawings – 2D symbols improvements
- Piping component & library management improvements

Documents

- 2D Import / Export improvements

eXchanger

- Supports many new AutoCAD entities including proxy objects.
- Other improvements

eBrowser

- Improved user interface
- Mark-ups
- Improved measuring tool with snapping
- Object edges can be visualized
- Insulations can be visualized
- Improved coordinate display including HUD
- Movement speed is adapted to model size
- Keyboard shortcuts