



The complete solution for BIM in plant engineering

CADISON

Integrated engineering. Made in Germany. In use worldwide.



Effective Plant Management with BIM

Building Information Modeling (BIM), initially originated in **Construction & Building Industry**, has evolved to become a **pivotal element in Plant Engineering**. Originally conceived as an integrated 3D planning methodology, BIM harnesses digital models and data to meticulously strategize, operate, and refine the complete lifespan of a facility.

In Plant Engineering, BIM enables a precise 3D representation of the facility and integrates all information regarding materials, components, costs, and other crucial aspects. This method ensures a comprehensive view and seamless collaboration among diverse disciplines involved in the planning process. As a result, errors are minimized, costs are reduced, and efficiency is enhanced throughout the entire project life-cycle. All for better outcomes and more effective plant management.



7 Advantages of BIM for Plant Engineering

1. Informed Decision-making:

Comprehensive information, e.g. on materials, components, equipment or nominal widths, is integrated directly into the model.

2. Enhanced Collaboration:

BIM fosters seamless collaboration among various disciplines by utilizing a centralized database as single source of truth, with consistently managed data.

3. Realistic Visualization:

BIM enables realistic visualizations of planned systems. This empowers all stakeholders to identify and implement optimizations beforehand.

4. Early Issue detection:

Through 3D models and simulations, BIM detects and rectifies faults and clashes at an early stage, ensuring error-free projects.

5. Cost Reduction and Time Efficiency:

Integration of relevant data enables better budget control and streamlined scheduling, leading to cost savings and more efficient timelines.

6. Process Optimization:

BIM models facilitate analysis, allowing for continual refinement and optimization of design processes.

7. Maintenance and Operations:

Post-project completion, the BIM model serves as a foundation for system maintenance, operation, and disassemble. Continuously updated data enhances operational efficiency.

Overall, BIM helps to significantly increase quality, accuracy and efficiency in plant construction. This promotes a holistic and forward-looking approach to the planning, construction and operation of plants.



Centralized data management and module diversity for the complete engineering workflow

CADISON consolidates all data across the entire lifecycle of a system into a single database. Simultaneously, this integrated engineering solution provides a diverse range of modules catering to various applications and requirements throughout the entire plant lifecycle. This comprehensive approach aims to enhance efficiency, avoid errors, shorten project planning durations, and minimize expenses. These combined attributes make CADISON the first choice for implementing BIM in Plant Engineering.

Process & project engineers use CADISON Project Engineer for complete management of project administration, planning, costing, scheduling, and monitoring.

Project managers and plant operators view the planning data and documentation with the CADISON Project Navigator.

Operators organize and schedule their recurring maintenance and inspections with the CADISON Maintenance module.

CADISON MATPIPE provides Catalog management & standardization of pipe classes, creation of parametric 3D components, creation & integration of manufacturer's product catalogs at organizational level.

P&ID planners use the CADISON P&ID Designer to create block flow diagrams, process flow diagrams or detailed P&ID diagrams.

CADISON®

Installation and piping planners use the CADISON 3D Designer for accurate 3D Plant Planning & Design – Plant Layout, Pipeline Routing, Equipment Modeling, Steel Layout, GA & Isometric Drawings and Automatic Report Generation.

I&C planners and electrical engineers use CADISON Electrical Designer to create the all electrical designs, documentations, and project management.

CADISON: The complete solution that fosters collaboration across all disciplines for Plant Engineering

The Open system architecture ensures seamless data exchange

CADISON caters to the entire Plant lifecycle while ensuring smooth information flow with other systems. We are committed to continuous development, aligning our solution with industry trends and requirements, constantly enhancing its capabilities. For example, the IFC interface simplifies data sharing among planning stakeholders, particularly crucial for BIM in Plant Engineering.

The ERP interface connects to business management systems, while the new DEXPI interface streamlines P&IDs exchange in a universal format. Additionally, our web viewer allows non-CADISON users to review the plant's 3D model and propose modifications, seamlessly integrating into the system.



ITandFactory GmbH, a wholly owned subsidiary of Neilsoft Private Limited, is one of the largest providers of complete IT solutions for the Process industry. For more than 25 years, we have been supporting Plant manufacturers worldwide with our engineering tools in the project planning and multidisciplinary planning of Process Plants and their Process equipment.

Our solutions are used across all sectors: in the chemical and pharmaceutical industries, in the food sector and by operators in the oil and gas industry. Our aim is to support our customers in the digitalization process with our products and services. Our portfolio includes the CADISON, VPID and E&I Electrical Designer brands.

Find out more at: www.cadison.com/en



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