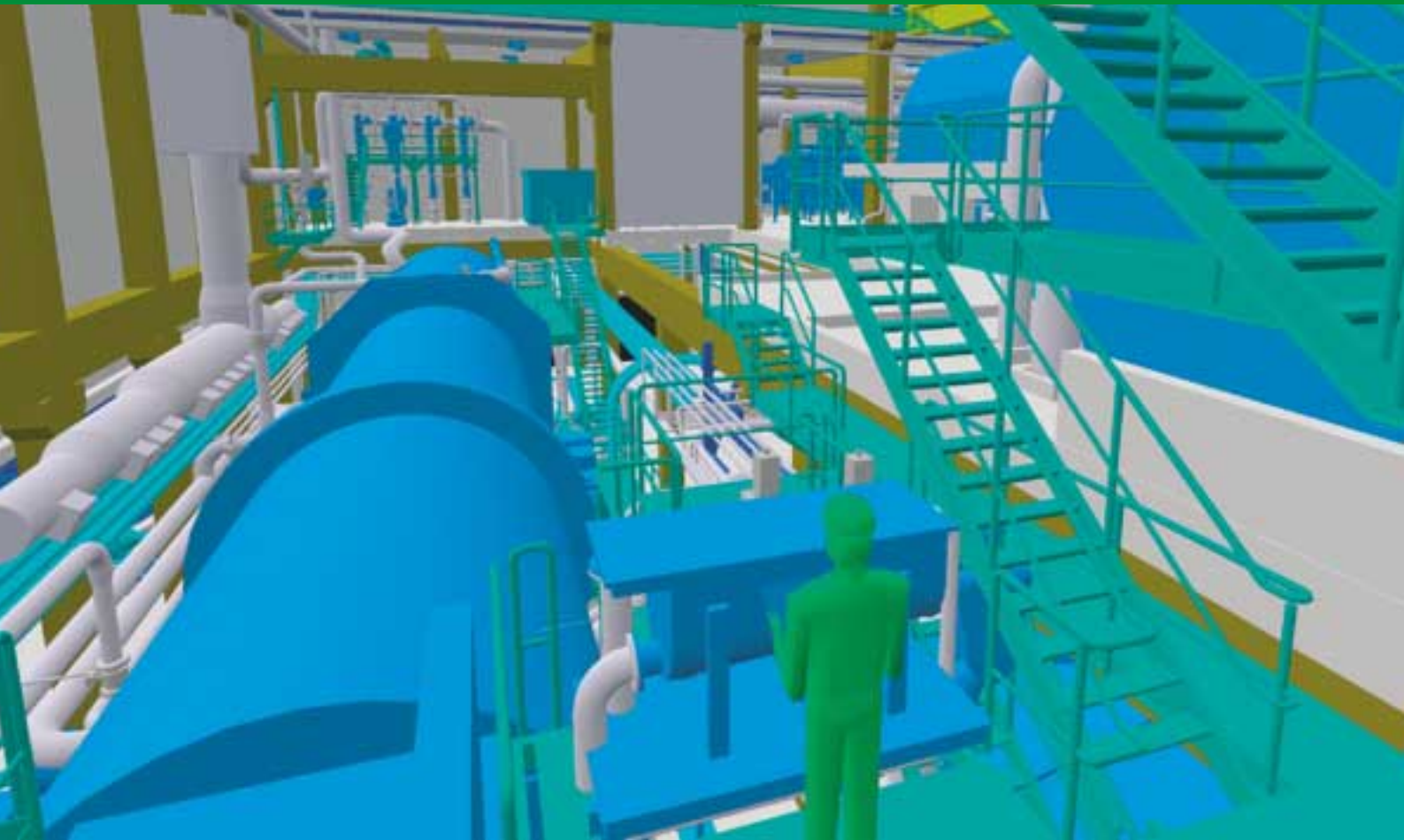


Introducing the Virtual Mill



The virtual mill model is a complete physical, technical and functional model of the mill.

Jaakko Pöyry's solution to industrial-scale information management needs is called the Virtual Mill.

The Virtual Mill is a professional solution for creating, storing, maintaining, searching and accessing technical information on an industrial scale. The solution is created during the normal course of a detail engineering project. Alternatively, the as-built situation of an existing plant can be defined in the form of a Virtual Mill.

The Virtual Mill serves all phases of the plant – design, engineering, construction, installation, start-up, operation and maintenance.

Fast and easy access to mill information

The Virtual Mill quickly provides you with up-to-date information on any part of your plant. All you need is our simple-to-use web browser interface. The Virtual Mill features

- process flowsheets, process descriptions, installation drawings
- equipment lists, pump lists, motor lists, component lists
- interlocking diagrams, loop diagrams, cabling diagrams

Figure 1. Structure of the Virtual Mill

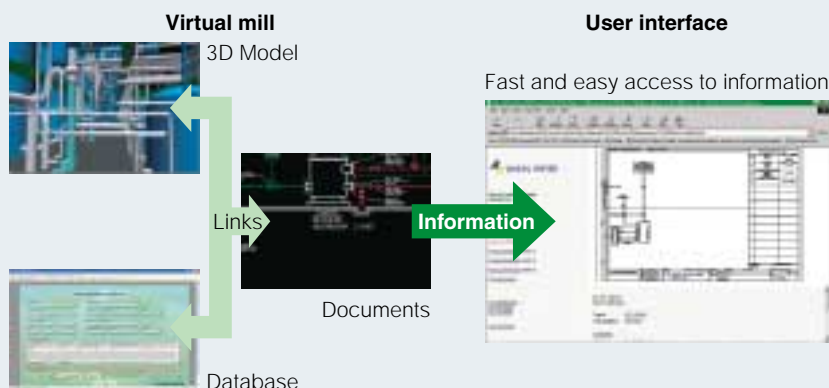


Figure 2. Navigating the Virtual Mill



- 3D views, walk-through features, 3D system reviews
- and much more.

The Virtual Mill consists of a 3D model, a database and documents, which together define the real plant, and a web-based user interface for fast and easy access to any information or document required (Figure 1).

Up-to-date virtual documents generated on call

The Virtual Mill has two very special features: virtual documents and three-way links.

The virtual documents feature means that when a document is needed, it is generated by combining the latest information from the database with customised document templates. This ensures you always get up-to-date information.

The three-way links feature means that you can approach information from three directions. You can access the information you need starting from a document (e.g. a process flowsheet), in the 3D model, or in the database. This ensures quick and easy availability of information in any situation.

Customised tools for creation and maintenance

The Virtual Mill includes a software application for creating and maintaining the database. It is used in process, mechanical, electrical and automation engineering. The application contains various customised templates, solutions, models and standards which minimise routine work and result in cost-effective, high-quality engineering.

The database is a technical and functional model of the plant, including data such as position numbers, technical component data, connections between components, and interactions with other components. It also includes customised document templates for instant generation of up-to-date drawings, reports and lists.

The 3D Model is a physical model of the plant. The Virtual Mill includes tools for viewing the 3D Model, navigating within the 3D Model and hiding or highlighting systems or components. Each component in the 3D Model is a link to the technical database and the process flowsheet (Figure 2).

The Virtual Mill user interface is an easy-to-use web browser-based application. It is used to access and publish information contained in the mill model. Information can be searched based on location, engineering discipline, process flowsheet or connections.

Naturally, the Virtual Mill can also interface with other plant IT systems such as ERP systems (SAP, JDE, IFS etc), DCS systems, document management systems, maintenance management systems or other information repositories of the plant.

For further information, please contact:

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