Built w/ Magic
www.magicloud.com

ACO ABB BELIMO Carrier CIAT Danfoss

FAGERHULT Flamco FläktWoods +GF+

GRUNDFOS GROHE GIACOMINI WATER E-MOTION

Honeywell hansgrohe Halton IMI KSB

Lindab oventrop reflex Schneider Electric

Swegon systemair TECE THORN LIGHTING PEOPLE

TROX TECHNIK The art of handling air uponor Victaulic viega wilo

ABOUT PROGMAN | Progman specializes in software and services for the building industry. Our popular MagiCAD software, for Revit and AutoCAD, is the number one Building Information Modelling (BIM) solution for Mechanical, Electrical and Piping design in the Nordics, Russia and China with over 20,000 licenses sold in more than 50 countries. In addition, our online BIM library, MagiCloud enables access to more than 1 million intelligent 3D product models from leading industry manufacturers, each product complete with accurate dimensions and comprehensive technical data.

With more than 30 years of experience in the industry, our team of more than 100 passionate software professionals continues to provide our customers with intelligent solutions that make daily engineering and design easier, faster and more profitable. Progman is a Glodon Group company.

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MagiCloud

MagiCAD

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MagiCloud

Europe's Largest
BIM Library

MagiCloud is Europe's largest BIM Library, including 200 leading manufacturers and 1,000,000 MEP products.

Achieve dramatic time and cost savings through powerful, design-ready 3D product models.

MagiCloud is a free browsing library for Mechanical, Engineering and Plumbing (MEP) designers with a wide selection of high-quality BIM products.

Designers utilising MagiCAD, REVIT MEP or AutoCAD can browse the full catalogue of one million intelligent products and access detailed, accurate dimensions and comprehensive technical data.

Many of the objects are also available for download, enabling designers to use them directly in their Revit, Revit MEP and AutoCAD projects.

Created with the highest standards, the MagiCloud library makes it easy to browse products from 200 manufacturers.

3D views are included for each product, which can be spun and viewed from any angle.

MagiCloud enables designers to collaborate effectively with teams from across the entire build – key to achieving the benefits of Building Information Modelling (BIM) for any large-scale building project.

By bringing the whole database online, collaboration can happen both online and offline.

MAGICLOUD'S KEY FEATURES

- One million+ BIM Products for MEP design available in an online library at www.magicloud.com
- Free downloads of more than 50,000 products from leading manufacturers
- 200 manufacturers' products listed with comprehensive technical data and 3D models, in a fast and intuitive library
- Effective collaboration with teams from across the build
- MagiCloud Windows Manager enables the user to place downloaded products straight into their Revit or AutoCAD project
- Free downloads of several manufacturer Plugins for use in Revit. Plugins connect manufacturers' product selection and calculation software directly with Revit or MagiCAD, making the selection process faster, easier and more accurate.

Insight matters even more for MEP design – BIM Product Databases

The example below demonstrates that MEP usually has many more components than all other components in the building project combined. Hence, having access to data-rich and up-to-date product libraries, and being able to create accurate designs by automating design tasks, can dramatically increase productivity.

Intelligent product models and databases

All product models in MagiCloud are accurately modelled based on their physical appearance and dimensions, including precise collar lengths and all other needed data. This way, designers can ensure as early as the design phase that the product will physically fit the space for which it is designated. The dimensions and the comprehensive technical data contained by the models are always checked and verified by the manufacturer before the models are published. The technical data enables accurate calculations and the ability to verify that the design actually meets the requirements. The system's networks can be balanced on site.

The full product library of MagiCloud is available for download with the purchase of MagiCAD software – the industry-leading MEP design productivity software b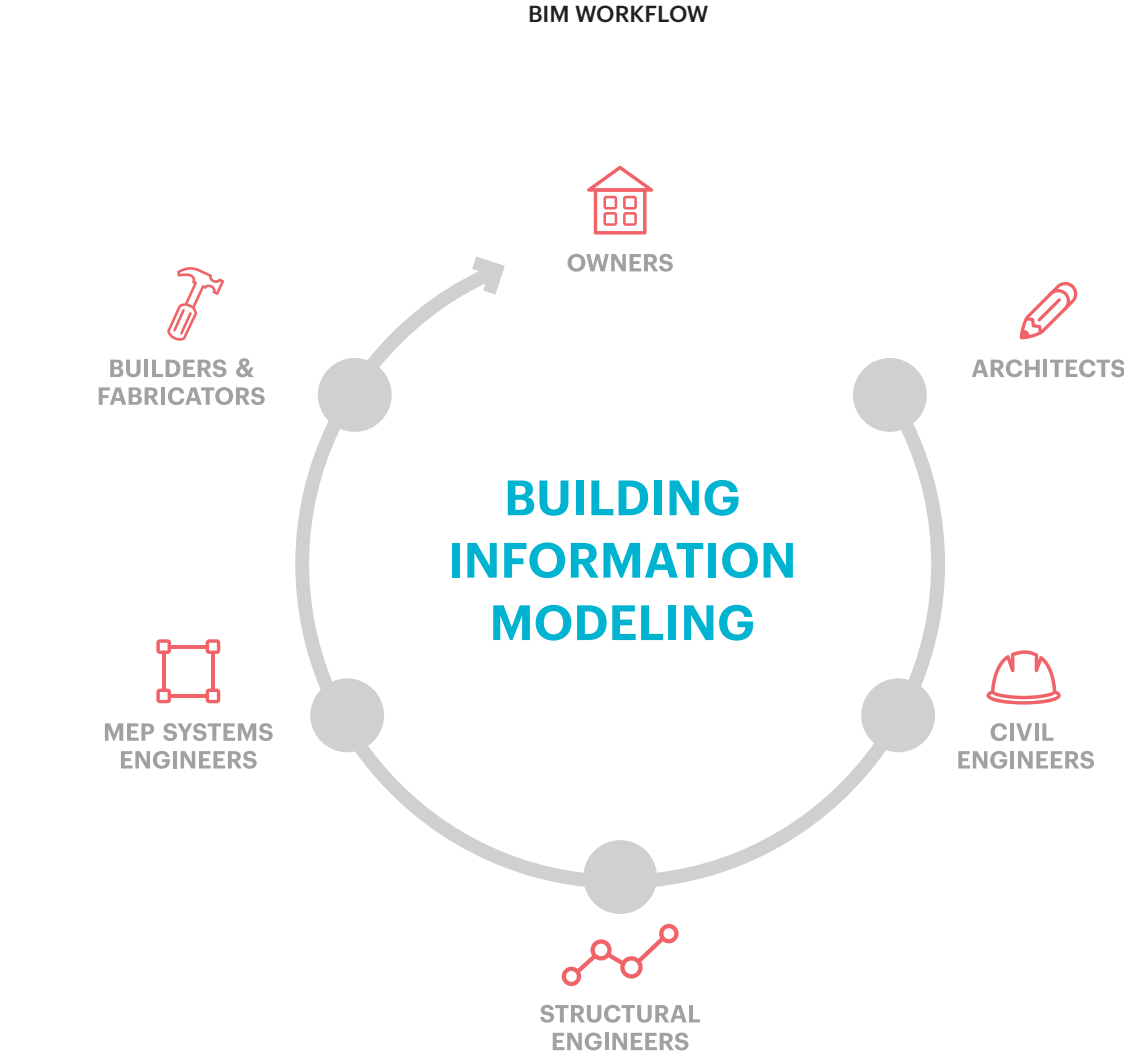y Progman. Without the MagiCAD database, a designer would be creating their own models by themselves. In addition to volumes of extra work, keeping up to date with ever changing product specifications requires close communication with several manufacturers. Because of these factors, designers end up having trouble sourcing the correctly-sized components.

With our libraries and databases, the true list of components enables designers to visualise a real system with real products *before* the build begins. The systems can be analysed to ensure they are working properly *before* the fabrication and construction begins.

Designing for the Future: Integrating all Building Processes

Collaboration and work have almost always been synonymous. People need other people to realise their greatest impact. The last 20 years have brought a convergence of communications and computing technologies that has expanded the possibilities for technology-enabled collaboration, whether synchronous or asynchronous, proximal or distant.

With all of today's technical tools being connected via the Internet—everything from mobiles to tablets to high-performance computers—information is easily accessible, from anywhere. This has enabled communication and collaboration in all areas of life and busi-

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BIM WORKFLOW

OWNERS

ARCHITECTS

CIVIL ENGINEERS

STRUCTURAL ENGINEERS

MEP SYSTEMS ENGINEERS

BUILDERS & FABRICATORS

BUILDING INFORMATION MODELING

NUMBER OF OBJECTS IN A MODEL – EXAMPLE FROM MEILAHTI TOWER HOSPITAL

Renovation project of 36 000 m²

Architectural	30 971	Hospital gas	32 823
Structural	85 120	Sprinkler	41 743
MEP (All systems)	469 305	Fixed hospital equipments	2071
Electrical	70 394	Vapour	5842
Ventilation	86 511	Pneumatic mail	178
Plumming	147 148	Provision for voids	7647
Heating/Cooling	74 948		

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ness. Stakeholders can collaborate on projects of every type like never before. *Building and construction are no different.*

The latest evolution of the industry, *Building Information Modelling* (BIM), refers to the process of designing a building collaboratively using a single coherent system of 3D models rather than separate design drawings. BIM incorporates people and technology to streamline time and cost, and improve efficiency in builds including skyscrapers, hospitals, and large office or residential buildings.

MEP design as part of an overall BIM workflow isn't just software, nor is it simply a 3D model. It contains not only the model elements but also the vast amounts of information that make up the project, as well as the process of exchanging that information with other parties involved. Whereas previous workflows relied on multiple file formats and disconnected processes that quickly became out of sync when changes were made, BIM workflows allow for a much more dynamic and synchronised approach to project management. BIM not only helps to design a building during the planning phase, but during construction, costing and management of the building as well

But is complete BIM possible for MEP designers?

Progman is one of the few companies that has made significant headway in its world-class BIM solution for MEP design aspects. MagiCAD and MagiCloud are making the design process faster, less costly, and easier for MEP designers around the world. MagiCAD has built a worldwide reputation for being user-friendly and intuitive. MEP designers all over the world have credited MagiCAD with bringing the fastest functionality possible to their designs.