

Improved Multi-Site Design Management for Peikko

By Erik Johansson

Typical for a supplier to the construction industry, Peikko needed to shorten the design phase of its configurable products and to provide a specific set of up-to-date, accurate product data for each different phase of the production process. ENOVIA did just that and more.

About Peikko Group

Peikko Group is a Finnish family-owned company specializing in composite beams and fastening products for concrete connections. Peikko Group's parent company Peikko Finland Oy has subsidiaries in Austria, Canada, the Czech Republic, Denmark, Estonia, France, Germany, Italy, Latvia, Lithuania, the Netherlands, Norway, Poland, Russia, Slovakia, Spain, Sweden, Ukraine, the United Arab Emirates and the United Kingdom. The production facilities of Peikko Group are located in Lahti, Finland, in Waldeck, Germany, in Kralovo, Slovakia and in Kaunas, Lithuania. Peikko Group's sales turnover in 2007 was EUR 94 million and it targets more than 20% growth for 2008. Peikko Group employs more than 900 people. Further information: www.peikko.com

MODERN MANUFACTURING AND INNOVATIVE R&D

The wide range of Peikko fastening products and Deltabeam composite beams offers optimal solutions for all kinds of concrete connections for prefabricated frames, steel structures and machine basements.

State-of-the-art manufacturing, automation and robot welding guarantee high quality and competitive prices for these products. Most customers' orders for fastening products are delivered directly from stock or manufactured to order in a matter of a few days.

Peikko focus their business activities on the European construction market and serve their customers via a network of their own subsidiaries. These subsidiaries are responsible for sales and technical support in various European countries.

Environmental and quality inspections are executed regularly by a number of external auditors. Peikko was selected in 2005 to be an approved supplier for the nuclear power plant construction site of Olkiluoto 3 in Finland. Thanks to its stringent existing quality systems, Peikko Group were able to meet the special quality requirements for that project.

FLEXIBILITY IN A GLOBAL MARKET

In the cost-conscious construction industry (AEC), in which suppliers must often deliver products to bid and to strict contract schedules, it is vital for Peikko to maintain its flexibility in a global market, and to be able to quickly offer specially designed components and solutions. To increase their profitability and better meet the demands of the market the company needed to shorten the design phase of its high volume configurable products,



Peikko® PC corbel system is designed to support precast concrete beams and composite beams to reinforce concrete columns. The PC corbel also allows small variations of the corbel height at the construction site.

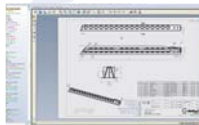


and to provide a specific set of up-to-date, accurate product data for each different phase of the production process. Since Peikko operates globally in about 20 different European countries, the company also needed support for multi-site engineering and a design repository to manage data collaboration between design offices and factories all over Europe. That's where data management through PLM enters the picture: "Before we had to rely on MS Excel reports and the data was transferred manually between servers. Without this solution it was impossible to easily manage the data between our design offices and factories as we do today," says Tuomas Martere, Development Manager at Peikko.

SHARING OF DATA AND CAPACITIES

To achieve its objectives of both flexibility and efficiency, Peikko selected ENOVIA SmartTeam supporting automated SolidWorks applications in a multi-site environment. Integration to Axiata ERP was executed across several global production sites. In total Peikko have about 80 users, of

All users (CAD or non CAD users) can view all product data (metadata/attributes, 3D/2D models) through ENOVIA SmartTeam platform.



ENOVIA SmartTeam
is like electricity -
you must have it.

these some 20-25 of them are SolidWorks integration users. Subsidiaries are gaining access to the system using Citrix terminal servers. The implementation was initially carried out for the company's internal data collaboration. The main idea was to share data between four factories in four different countries, and two design offices in Finland and Slovakia. All of this in order to implement a collaborative design environment in which geographical location doesn't matter. Furthermore the PLM solution enables optimized sharing of their engineering and production capacities across the countries. "Our designing process is going through ENOVIA SmartTeam and that gives us the possibility to share capacities and to revise our design process, which is now totally integrated to our supply chain," Tuomas explains.

TRANSPARENCY AND SHORTENED PROJECT LEAD TIMES

As a result of the implementation of ENOVIA SmartTeam, Peikko have significantly shortened their delivery project lead times. They have also gained the benefits of a multi-site design environment and a central product data repository providing accurate data to their ERP systems at all the different sites. "Now we're experiencing a transparent process and documentation through the whole organization, which gives us the possibility to build a good reporting system. This would have

In practice



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been impossible without this solution and the transparency is an enormous benefit to our organization. This solution is like electricity - you must have it," Tuomas says.

FUTURE

In the future Peikko will add all their standard product data to ENOVIA SmartTeam to manage it via PLM practices. They will also manage data for standard configured products in ENOVIA SmartTeam. "Also our frame business area needs a solution like ENOVIA SmartTeam to share data between our engineering sites and, for example, our Lithuanian factory. Drawings should be shared with the same technique as Deltabeam projects. So basically all our production data will be there: standard components, project info, layouts, DXF- and DWG files, SolidWorks files etc.," Tuomas explains.

For more information:
Miikka.Virtola@ravalik.fi

About Technia-Ravalik

Technia acquired Ravalik Oy in July 2008 and strengthened the position as the leading supplier of PLM systems in the Nordic region. Similar to Technia, Ravalik's PLM solutions are based on software from Dassault Systèmes and proprietary components. After the acquisition of Ravalik, Technia has +45 employees in Finland and 200 employees totally in Sweden, Finland and Norway. Welcome to the new powerhouse of vision and delivery. www.technia.com and www.ravalik.fi.