



"CADWorx allowed us to develop a complete Design Life Cycle engineering solution."

Bruce Trevena, CADWorx Trainer and Piping Designer at AB Mauri

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AB Mauri uses distributive intelligence of CADWorx P&ID to create relational database

Leading the multinational family of businesses producing yeast and bakery ingredients

AB Mauri was formed in November 2004 as a new operating division of Associated British Foods plc (ABF), an international food, ingredients and retail group. AB Mauri operates globally in yeast and bakery ingredient production with 50 plants in 28 countries, supplying plant and artisanal bakers and the food service and wholesale channels. It is a technology leader in providing bread improvers, dough conditioners and bakery mixes. Based in Sydney, Australia, the Global Technology Group of AB Mauri, the focus of this piece, is comprised of engineers, designers, scientists and laboratory technicians.

Building a Yeast Plant to meet Asian market demands

AB Mauri and its parent company ABF were well aware of the growing need for baker's yeast products in Asia. To meet this demand, they decided to expand their yeast extracts business by building a new yeast extracts plant in Acheng, Harbin, China, designed to produce in excess of 15,000 tones of yeast extracts for the food and fermentation markets. The Global Technology Group of AB Mauri undertook a \$30M expansion of the baker's yeast plant at the company's existing Acheng, Harbin site, in the Heilong Jiang province in North Eastern China. Project equipment included exchangers, pumps, vessels, sanitary valves, and stainless steel tube from 12.7mm OD to 152.4mm OD and carbon steel pipe from 25NB to 300NB.

Developing a complete design life cycle solution

At AB Mauri the previous uses of databases and data from the design processes were limited to BOM lists for the procurement of materials. Using CADWorx P&ID Professional, with its intelligent bi-directional database, allowed AB Mauri to use both P&ID's and project database to develop a complete design life cycle engineering solution. "Using CADWorx P&IDs, we were able to link the tables to form the framework of a fully functioning, relational project database, which allowed us to create complex custom datasheet templates and reports with detailed information," explained Bruce Trevena, CADWorx trainer and piping designer at AB Mauri. "This was more than we'd have achieved in the past by generating lists manually from individual tables."

Creating relational database with CADWorx modules

By using additional CADWorx modules such as Plant, Steel and Equipment, AB Mauri was able to develop piping models, process and instrument diagrams, equipment modeling and equipment layouts. "COADE's CADWorx solutions helped us develop a relational database as a single repository for all engineering data," said Trevena.

Achieving synchronization and solving individual needs

CADWorx solutions helped AB Mauri not only achieve complete project synchronization but also answered the unique needs of individual internal teams. With CADWorx, the procurement team was able to develop complete purchase order data, quotations, packing lists, deliveries, and erection packs from the database. "We were able to duplicate the capabilities of our complex procurement spreadsheets while minimizing risks associated with data duplication," Trevena added.

"All the templates and detailed data that we created from using the CADWorx modules were very accessible and provided a great assistance to designers, engineers, checkers and procurers throughout the design process," Trevena concluded.