



FLSmidth, Mongolia

Key Facts

Company: FLSmidth

Website: www.flsmidth.com

Industry: Metals & Mining

Country: Mongolia

Products Used:

- CADWorx® Plant Professional

FLSmidth & Co Leverages CADWorx® Plant for Project Success in Mongolia

Headquartered in Denmark and with over 13,000 employees in 50 countries, FLSmidth is a leading supplier of equipment and services to the global cement and minerals industries. The company's in-house engineers develop, plan, design, install and service equipment, with most of the manufacturing being outsourced to sub-suppliers with most business coming from outside Denmark.

Supplying Large Copper Concentrator for MAK Group Mine

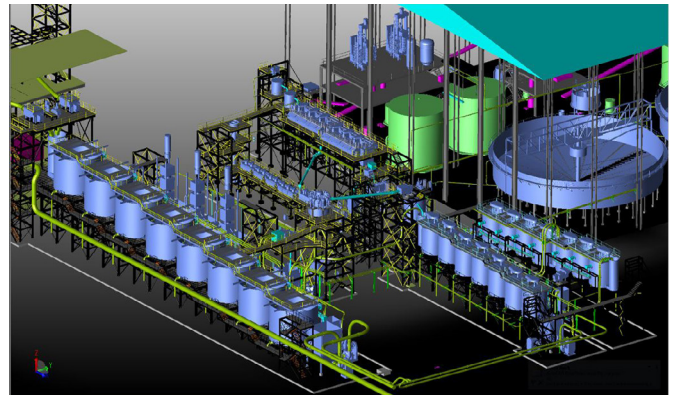
Mongolyn Alt (MAK) Group selected FLSmidth for a US\$105M project to supply a state-of-the-art 40,000 ton-per-day greenfield copper concentrator for a mine 500 kilometers from Mongolia's capital city Ulaanbaatar, with the project directed by the FLSmidth office in Salt Lake City, Utah, USA. MAK produces coal from three open cut mines in Mongolia. Using its proprietary technology for all processes in the plant, FLSmidth provided the automated control system, basic and detailed plant and process engineering, and related supervision, start-up and commissioning services. FLSmidth used its technology from recently acquired Knelson-Deswik for the fine grinding mill concentrate re-grind.

Improving Accuracy and Reducing Waste with CADWorx Plant

FLSmidth selected CADWorx Plant Professional to develop the piping plans and sections and used the software's built-in Isogen® capabilities to produce the isometric drawings. With the CADWorx export tool and live database, it produced the bills of materials automatically from the model. Working collaboratively with a construction and procurement company, the company used a material management system to assign commodity codes to every piping component – approximately 10,000 in all – to include on the material list and all isometrics drawings. It was able to assign these codes seamlessly with no additional work from designers required and automatically incorporate FLSmidth into the material list and isometric drawings.

Leveraging Collaboration and Automation Capabilities

By providing this information to the company responsible for procurement, it significantly improved the accuracy of material handling and reduced waste in the ordering of construction material. “The live database allowed us to incorporate the support information from the procurement company by combining the database code feature with database matching queries,” explained Javier Barros, senior designer at FLSmidth. “This reduced the input from designers when indicating the type of support because the live database in CADWorx can match it to a document number and update the model automatically.” These advanced CADWorx database capabilities eliminated duplicate and incorrect information in the design and list of materials material generated from the design. This was of extreme importance since the output was to be incorporated in the second company material handling software.



Delivering Project Success through the Flexibility of CADWorx

“The significant reduction in work and the high accuracy achieved with CADWorx is a clear example of the product’s flexibility and strength,” Barros added. “CADWorx has the flexibility to work with other design platforms such as Intergraph Smart® 3D for this project.” The resulting high quality in material control and engineering design data received praise from the procurement company collaborating with FLSmidth on this project and delivered the required results for the client.

About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Hexagon’s PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 21,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at [hexagon.com](https://www.hexagon.com) and follow us @HexagonAB.