



FLSMIDTH, KAZAKHSTAN

Key Facts

Company: FLSmidth

Website: www.flsmidth.com

Description: FLSmidth is a leading provider of engineering and design services to the global cement and minerals industries. The company's 15,000 employees in 50 countries are engaged in developing new solutions to meet the world's future energy and emissions challenges, with 99% of projects outside its Denmark home market.

Industry: Metals & Mining

Country: Kazakhstan

Products Used:

- CADWorx® Plant Professional

FLSMIDTH SUCCEEDS WITH CADWORX® ON KAZAKHSTAN PROJECT

FLSmidth is a leading supplier of equipment and services to the global cement and minerals industries, including engineering and design for complete processing facilities. The company's 15,000 employees in 50 countries are engaged in developing new solutions to meet the world's future energy and emissions challenges, with 99% of projects outside its Denmark home market.

Kazakhmys PLC awarded FLSmidth a US\$63 million contract to design a copper concentrator and provide all of the process technology for a new plant at the company's Bozshakol copper mine in Kazakhstan. The project was to produce 5 million tons of ore per year and had a capital cost of US\$1.9 billion. A global leader in copper, Kazakhmys operates 16 mines, eight concentrators and a copper smelter. FLSmidth's assignment included basic and detailed engineering plus the company's proprietary technologies for crushing, milling, flotation, thickening, filtering, cycloning and pumping. It also included regrind mills, conveyors and feeders and erection supervision, start-up and commissioning services.

ADDRESSING DESIGN STANDARDIZATION CHALLENGES ON FAST-TRACK SCHEDULE

As part of detail engineering, FLSmidth brought in a U.S. engineering firm with expertise in fire protection systems and engaged the FLSmidth design offices in Salt Lake City, Utah, and Chennai, India, with each entity concentrating in its process expertise to enhance project synergies.

One project challenge was that the FLSmidth India office was running an older version of CADWorx, the U.S. office had a current version and the U.S. subcontractor had no CADWorx experience. Proceeding with these different solution versions would complicate communications and be detrimental because pipe material and support data, isometric configurations and other information would vary and, if left unchecked, would result in a nonstandard design from each stakeholder.



This would make it difficult to stay within budget and could delay the schedule. FLSmidth U.S. would then face monetary sanctions according to the contract's terms.

ACHIEVING A COLLABORATIVE DESIGN SOLUTION WITH CADWORX

With an extremely aggressive schedule and the need to integrate each player into one platform, the project leaders knew they needed the capabilities of CADWorx to standardize the design and promote effective design collaboration across all teams.

“CADWorx allowed for standardization plus effective management of engineering design data by providing three pillars: a common design platform, information sharing and information flow,” said Javier Barros, staff designer of mechanical and piping at FLSmidth. “We achieved platform integration by allowing the FLSmidth India office read-only access to the FLSmidth Salt Lake City office’s configurations in the current version of CADWorx,” Barros added.

The team in India had efficient and easy access files located on U.S. servers to complete design work, experiencing no delays. In addition, the U.S. subcontractor also quickly adopted the current version of CADWorx to complete their design scope. With CADWorx, FLSmidth was able to centralize control of material specifications and make any update in the configuration files immediately, and it completed work on schedule.

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.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

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 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at hexagon.com and follow us @HexagonAB.