

Outotec presents the world's largest SAG mill

Outotec provides a solution to the market demand, where ore grades are declining and at the same time demand for metals is growing. More advanced technologies are needed to process the greater quantities. In addition, mines and plants are expanding and, due to tightening legislation and general ecological attitudes towards waste handling, the demand for more efficient processes at greater capacity has increased.

With the development of the world's largest SAG mill, Ø40'x29', Outotec responds to the need by offering increased efficiency, effective grinding conditions and improved mill capacity up to 15% with reduced energy consumption.

Outotec has recently been awarded a contract to deliver one of the largest grinding mills in the world. The contract includes the design and manufacture of a Ø40'x29' SAG mill. The mill will be driven by a Gearless Motor Drive (GMD) which at 28.0MW is equal to the largest grinding mill power ever used in the mining industry.

The SAG mill design is based on Outotec's proprietary grinding mill technology, developed over decades for maximum reliability and performance. The mill will be operated as a single stage SAG mill (primary and secondary duty combined) with very high throughput made possible by the use of Outotec's patented Turbo Pulp Lifter (TPL™) Technology.

The grinding mill is planned to be installed during 2014 at First Quantum's Kansanshi Copper Mine in Zambia. The plant has been in operation since 2004 and Outotec has delivered all the critical processing equipment for the Kansanshi concentrator, including four grinding mills, multiple flotation cells and thickeners.

This order reinforces Outotec's position as the premier solution provider to the mineral processing industry through its broad product range of comminution and concentrator process equipment.



Outotec develops and provides technology solutions for the sustainable use of Earth's natural resources. As the global leader in minerals and metals processing technology, Outotec has developed over decades several breakthrough technologies. The company also offers innovative solutions for the chemical industry, industrial water treatment and the utilization of alternative energy sources. Outotec shares are listed on the NASDAQ OMX Helsinki.

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