



Facts and figures

Aitik mine

- Open-cast mine, in operation since 1968
- Pit is 2.5 kilometers long, 1 km wide and 400 meters deep
- Trucks removing rock from the pit weigh as much as 360 tons when fully loaded
- Ore reserves estimated at 633 million tons (430 million tons proven and 203 million tons probable)
- Ore grading is 0.27 percent copper, 0.1 grams gold/ton and 2 grams silver/ton
- Copper concentrate containing ca. 27 percent copper is taken by rail to Boliden's Rönnskär smelter for further processing

Aitik expansion project

- Project started in December 2006
- Total investment by Boliden: more than 6 billion Swedish kronor (\$780 million)
- Annual production capacity raised to 36 million tons of ore from 18 million tons
- Length of conveyor system: 7 km, of which 3.5 km is underground
- Speed of conveyor: 4 meters per second
- Concentrator capable of processing about 106,000 tons of ore per day
- Surface area of concentrator facility is equal to two soccer fields
- Number of people needed to operate concentrator: 14 per shift
- Number of employees increased to about 550 from 500

ABB delivery for expansion project

- Value of orders: \$84 million
- 650 motors for conveyors, pumps, fans, crushers, grinders and process equipment
- 230 drives and variable-speed drives to control the electric motors
- Two 22.5 MW gearless mill drives to power grinding mills
- Two 2 x 5 MW dual pinion drive systems for RMD mills
- Four 1.4 MW permanent-magnet motors for slurry pumps
- Process control system (Extended Automation System 800xA)
- 23 distribution transformers for drive systems
- Three 80 MVA power transformers for substation
- Gas-insulated switchgear (170 kilovolt) for substation
- Harmonic filter system for the complete plant
- 201 cubicles of low-voltage switchgear (400-690 volts) for distribution of power across the site
- Service contracts