

Ensured Results in Mineral Processing

Gearless Mill Drives





ABB's scope of supply: Four complete Gearless Mill Drive Systems including:

- Wrap-around Motors
- Cycloconverters & Excitations
- Transformers, E-House Containers incl.: Cycloconverters, MCC's, PLC's, VMS
- Excitation Converters, Fire Fighting, UPS
- Two complete Synchronous Condenser Systems
- Two complete Filter and Compensation Systems for Plant Compensation
- Two 220/23 kV Main Transformers
- 75/100/125 MVA

**Antamina
Compania Minera Antamina S.A.
Peru**

Project: One SAG Mill and 3 Ball Mill Drive Systems

Capacity: SAG Mill 1000 t/h
Ball Mills 1000 t/h

Consultant: Bechtel, USA

Mill Builder: FFE Minerals, USA

Mill Size: SAG Mill 38 feet/11,58 m
Ball Mills 24 feet/7,32 m

Ore processed: Copper/Zinc

Drive Rating: SAG Mill 20,1 MW, 9,23 rpm
Ball Mills 11,2 MW, 11,38 rpm

Award of Contract: March 1999

Start of Operation: June 2001



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- Wrap-around Motors
- Cycloconverters & Excitations
- Transformers, E-House containers incl.: Cycloconverters
- MCC's, UPS, Fire Fighting, PLC's
- VMS, Excitation Converters

Escondida IV, Chile

Project: One SAG Mill and 3 Ball Mill Drive Systems

Capacity: SAG Mill 4583 t/h
Ball Mills 4583 t/h

Consultant: Bechtel, Chile

Mill Builder: FFE Minerals, USA

Mill Size: SAG Mill 38 feet/11,58 m
Ball Mills 25 feet/7,62 m

Ore processed: Copper Ore

Drive Rating: SAG Mill 19,4 MW / 9,31 rpm
Ball Mills 13,43 MW / 11,5 rpm

Award of Contract: November 2000

Start of Operation: December 2002



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- Wrap-around Motors
- Cycloconverters & Excitations
- Transformers
- E-House Containers incl.:
- Cycloconverters
- MCC's, PLC's, VMS
- Excitation Converters
- Fire Fighting
- UPS

Batu Hijau PT. Newmont Nusa Tenggara Indonesia

Project: Two SAG Mill Drive Systems

- Capacity:** 850 t/h
- Consultant:** Fluor Daniel, USA
- Mill Builder:** Svedala, USA
- Mill Size:** 36 feet/10,97 m
- Ore processed:** Copper/Gold
- Drive Rating:** 13,5 MW, 9,77 rpm
- Award of Contract:** February 1997
- Start of Operation:** December 1999



ABB's scope of supply: One complete Gearless Mill Drive System including:

- Wrap-around Motor
- Cycloconverter & Excitation
- Transformers, E-House Container incl.:
- Cycloconverters, MCC's, PLC, VMS
- Excitation Converter, Fire Fighting, UPS
- One complete Ball Mill Drive System incl.:
- Wound Induction Motor 6,72 MW, 996 rpm, 6 pole, 50 Hz. Liquid Starter

Century Zinc Pasminco Century Australia

Project: One SAG Mill Drive System

- Capacity:** 680 t/h
- Consultant:** CMBJV
- Mill Builder:** Fuller, USA
- Mill Size:** 36 feet/10,97 m
- Ore processed:** Zinc
- Drive Rating:** 12,0 MW, 9,20 rpm
- Award of Contract:** February 1997
- Start of Operation:** October 1999



Goldstrike Barrick Goldstrike USA

Project: Two Ball Mill Drive Systems

Capacity:	512 t/h
Consultant:	Hatch Associate, Canada
Mill Builder:	Polysius, USA
Mill Size:	19 feet/5,8 m
Ore processed:	Gold
Drive Rating:	7,5 MW, 13,45 rpm
Award of Contract:	October 1998
Start of Operation:	April 2000

ABB's scope of supply: Two complete Gearless Mill Drive Systems including:

- Wrap-around Motors
- Cycloconverters & Excitations
- Transformers, E-House Containers incl.: Cycloconverters, MCC's, PLC's, VMS
- Excitation Converters, UPS
- Two complete Filter and Compensation Systems

ABB – Your Partner in Mining & Mineral Processing

- Serving the industry since 1973
- Over 40 complete plants installed in 20 countries
- Drives and process control systems installed at more than 160 locations in 25 countries
- Internationally supported competencies and resources
- Single source responsibility for engineering and hardware needs
- Financially secure, longterm global commitment
- Over 80 additional process optimization and information management installations
- Wide range of process instrumentation
- Industry specific applications

ABB offers comprehensive packages of ABB competencies, products and services for the electrification, automation and optimization of the complete production chain in the industry.

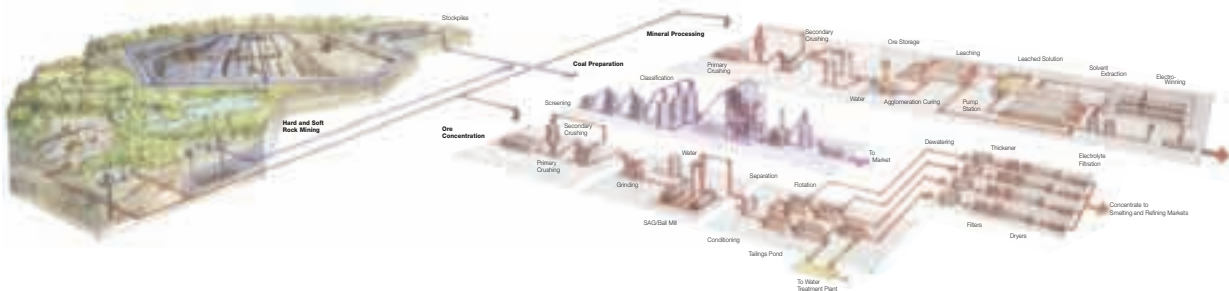


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