

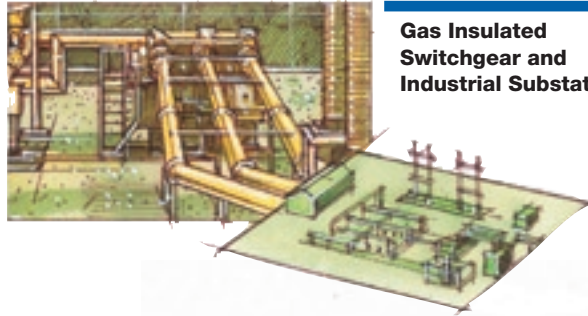
From Mine to Market

ABB in Mining & Mineral Proc

Financial Advisory Services

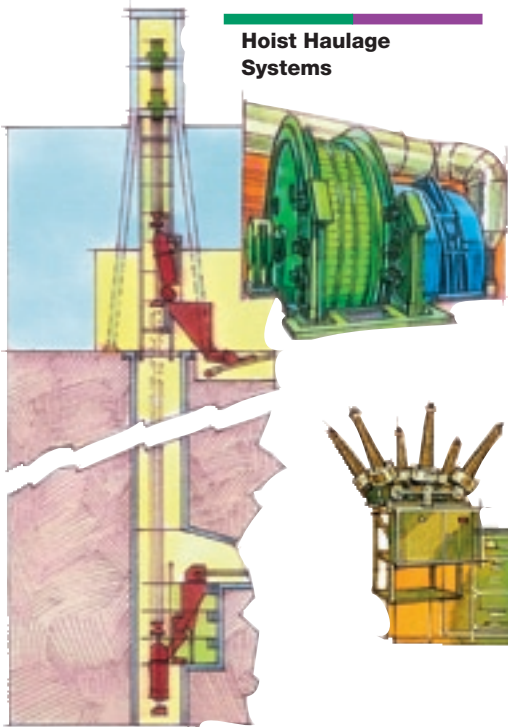


Gas Insulated Switchgear and Industrial Substations

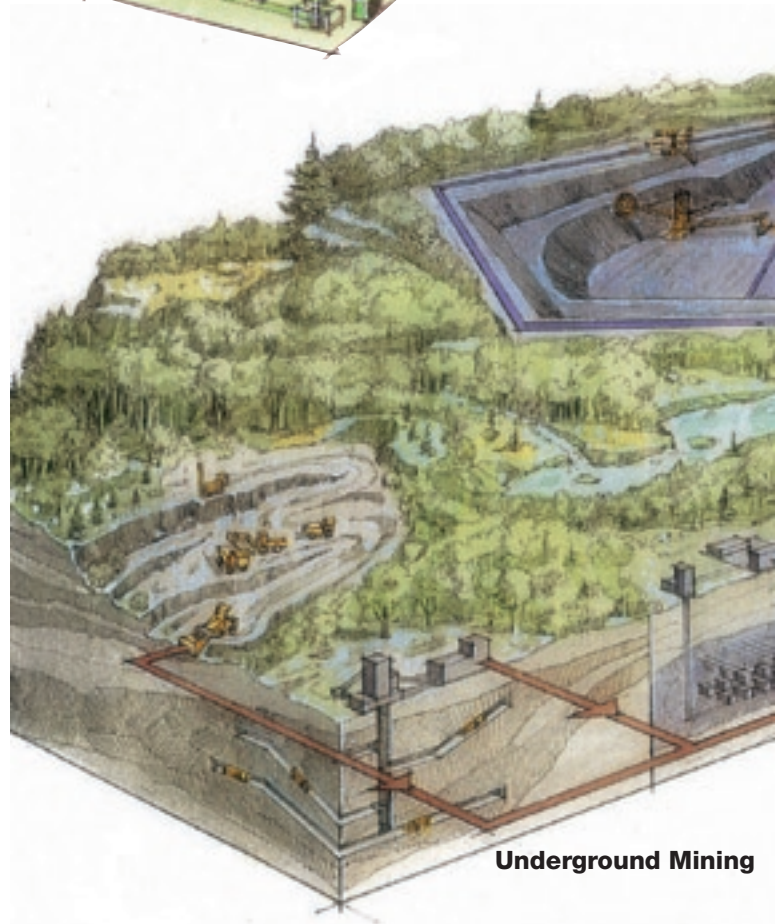
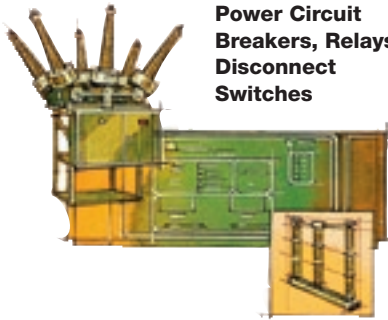


Electrification for

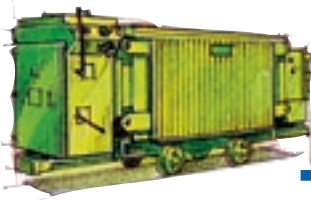
Hoist Haulage Systems



Power Circuit Breakers, Relays, Disconnect Switches



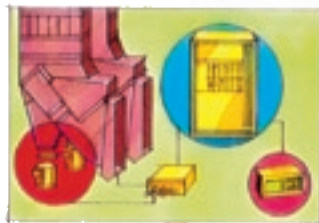
Underground Mining



Explosion Proof Equipment



Electrical Equipment for Ramp Haulage System



Ore Pocket Weighing Systems



Drive and Control Systems for Open Pit Mining Equipment

Processing



Total Plant

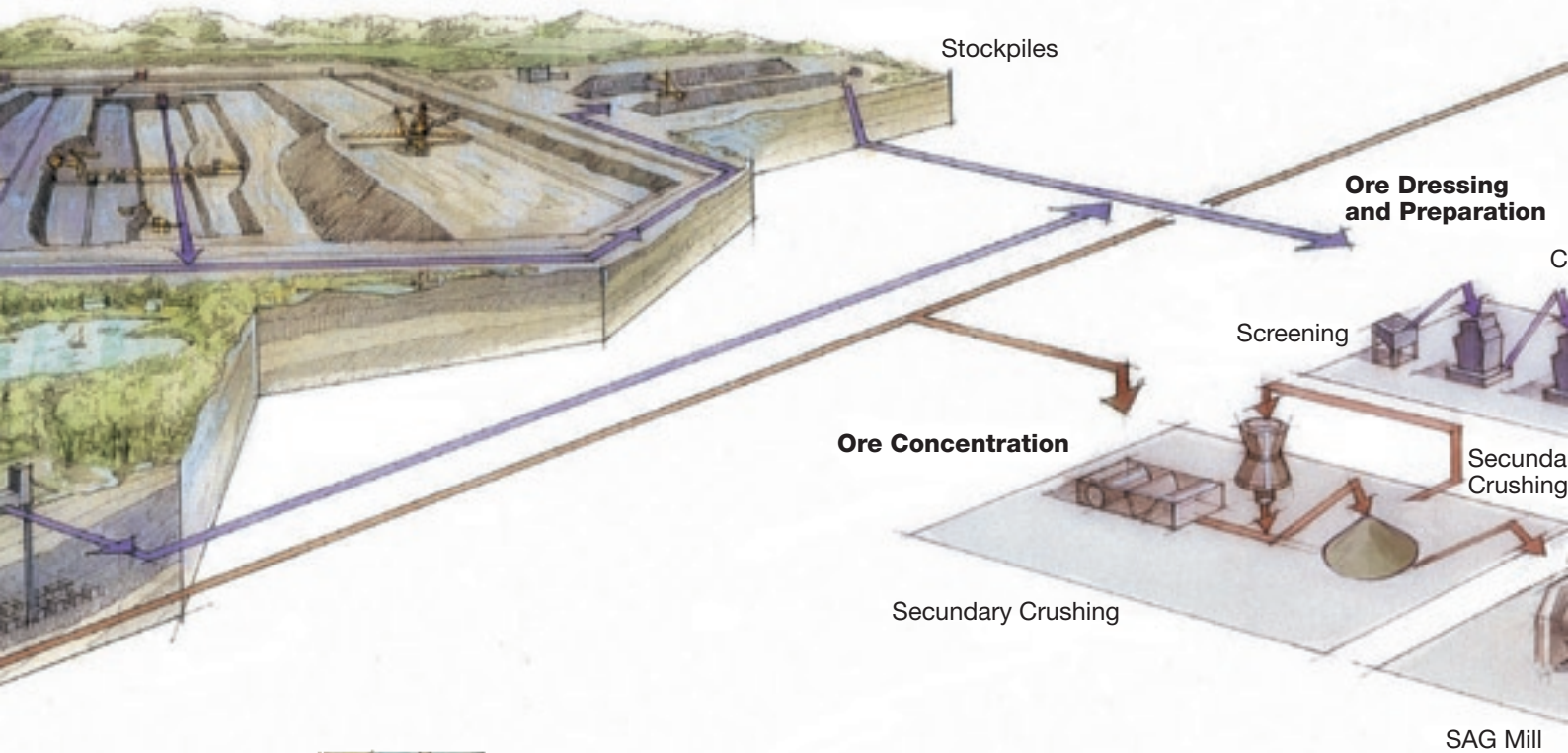


Project Management
Electrical Systems Integration

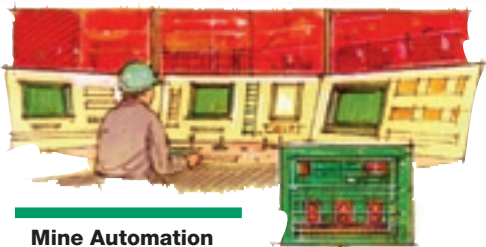
Look No Further Than ABB

At ABB, our approach covers the complete value-added chain, from your mine to the product you market. We excel at merging equipment, skills, and services to develop a complete, customized solution to strengthen your entire operation, from mine to market, regardless of project size. ABB's capabilities and global and local resources offer integrated power, control, and information solutions. You specify the requirements just once, and we take the responsibility for creating a solution that works smoothly and efficiently. Above all, it is a solution based on our solid, worldwide experience in the industry.

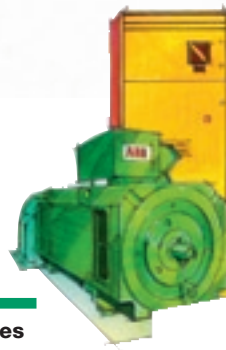
Open Pit Mining



Material Handling Systems



Mine Automation and Central Control



AC/DC Drives, Drives Systems, and Motors



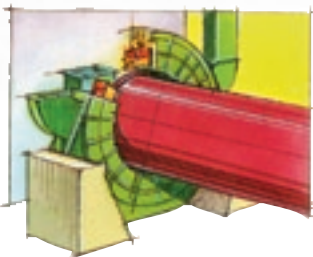
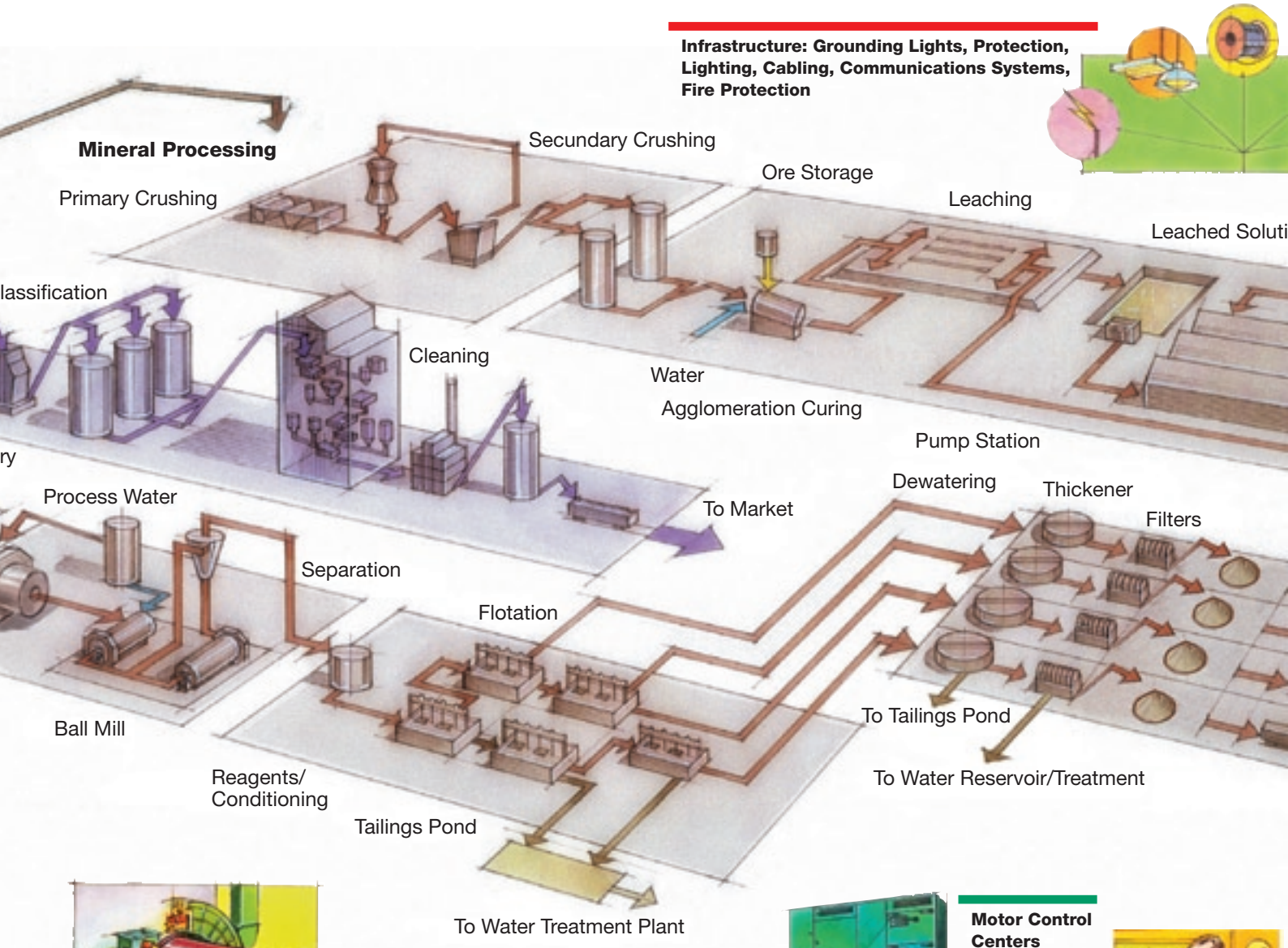
Robot Support Laboratory System

Drives Applications

You need more than electrical knowledge to interpret application specifications and select the correct drive system. ABB engineers and manufactures motors and drive systems worldwide, from sub-kilowatt applications to the megawatt ratings of gearless drives for the largest SAG and ball mill applications. As a global leader, ABB combines its extensive industry knowledge with its application expertise to select the most economical drive solution for your particular, often unique circumstances. We drive continuously for the highest availability, productivity and energy efficiency your operations can achieve.

Process Control and Automation

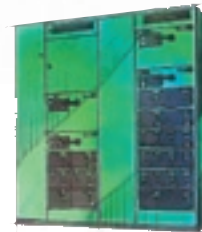
Mines and processing plants need integrated process control systems that can improve plant-wide efficiency and productivity. Our IndustrialIT solutions for process control, optimization and management information provide easy access through a «single window» to the process, production, quality and business information - from the most remote location to corporate headquarters. Whether you are building a greenfield plant, extending or modernizing an existing plant, ABB provides tailored automation solutions that use real-time data - enabling constant monitoring and analysis of your process combined with improved asset availability.



Gearless Mill Drive



Integrated Plantwide Distributed Control



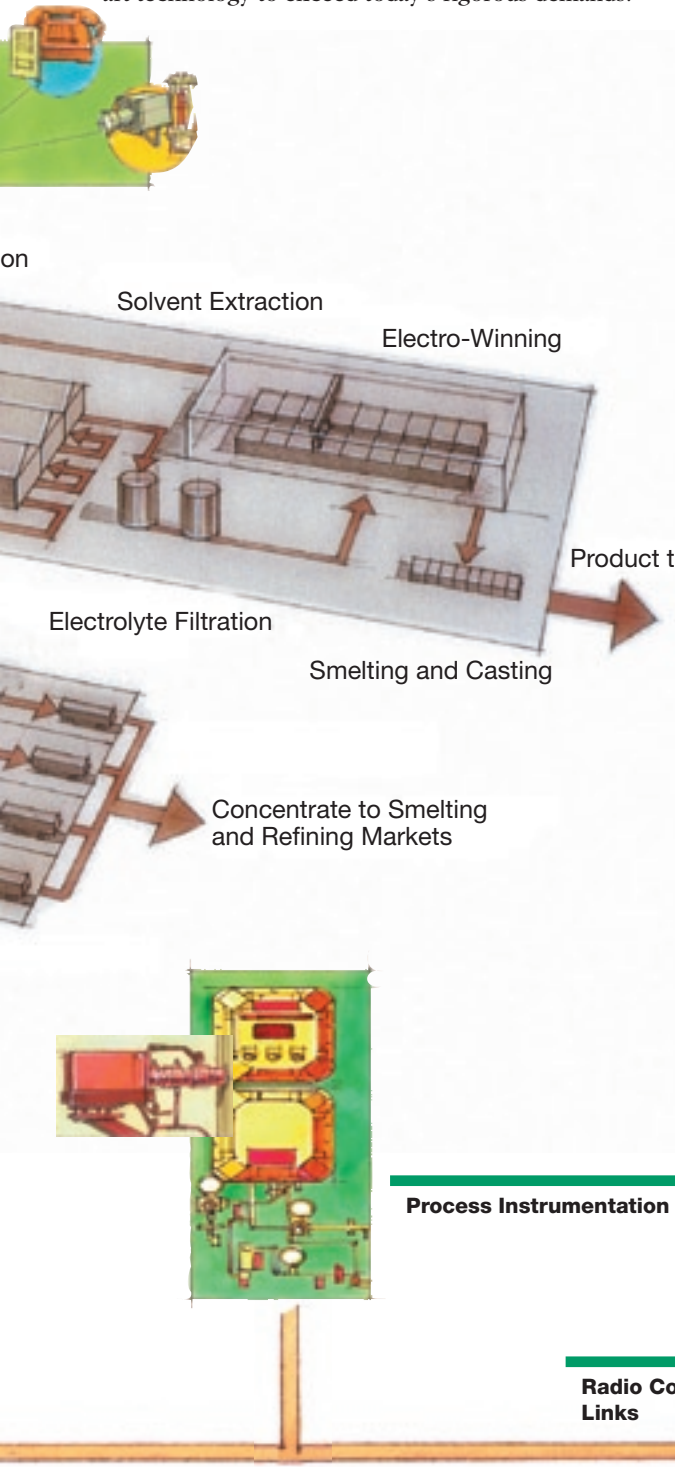
Motor Control Centers



Interoffice and Plant Data Exchange

Power Distribution and Conversation

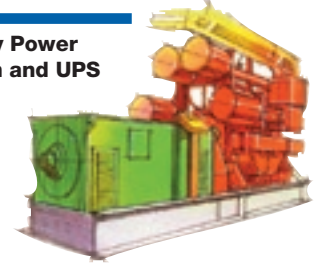
When you need efficient and reliable power distribution in your mining and mineral processing operations look to ABB. We offer the broadest range of high, medium and low voltage equipment for switching and distributing electrical power. Solutions are engineered for safety, flexibility and security to keep operations running day and night, including emergency power generation and UPS, industrial sub-stations, power factor compensation and harmonic filtering equipment, switchgear and transformers. ABB is a leading supplier of rectifier systems required as a key element in the electro-winning process as well as induction furnaces for your melting and casting operations. ABB provides you with state-of-the-art technology to exceed today's rigorous demands.



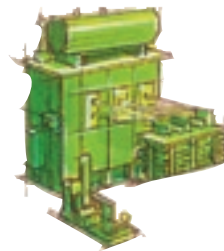
Services

Mining and processing thousands of tons of ore in a rugged environment places substantial demands on well trained human resources complemented by fast response service capabilities of the major equipment suppliers. Life cycle support: ABB has an extensive network of local service centers to support your facilities. Our expert field engineers are available day or night to diagnose, repair, upgrade, install or perform on-site maintenance for ABB systems. The local centers can also provide training to your operating and maintenance staff in the local language. When it comes to service, ABB focuses on helping your company succeed.

Emergency Power Generation and UPS



Static VAR Compensation and Harmonic Filters

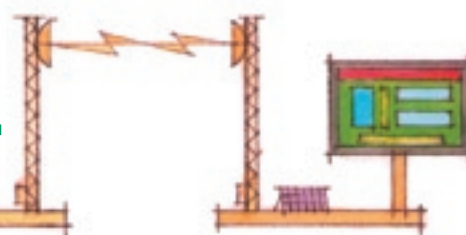


Transformers, Rectifiers, Switchgear, and Power Factor Correction

Customer Service



Radio Communication Links



Remote Control Systems with Solar Power Supply