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size of the product can be reached by further processing the material in a ball mill or by passing it several times through high-pressure roller presses. A distinction is made between three grinding systems: pre-grinding, semifinish grinding and finish grinding. Depending on the grinding system, capacities may be raised up to 250 percent or specific energy consumption may be lowered up to 40 percent.

Substances comminuted in high-pressure roller presses include ce-

ment, clinker, coal, kieserite, kimberlite, limestone, ores, pellet feed and slags. Koppern roller presses are easy to maintain. By disconnecting drive unit and rollers promoted by the Koppern hinged frame, the rollers can be removed and mounted for maintenance purposes. In addition, the wear parts of the gravity-type feeder can be replaced from the outside. Single drives or double shaft drives are available.

[www.koppernusa.com](http://www.koppernusa.com)

**Koppern's high-pressure roller press with single drive.**



### **Knight Piésold — engineering and environmental consulting**

Knight Piésold is an international consulting company offering engineering and environmental services. Hydropower, mining, environment, water resources, roads, airports and construction management expertise is provided.

Knight Piésold's mining experience has been used on more than 400 surface and underground mining projects worldwide. These projects

include tailings disposal, waste characterization, heap leach pads, openpit stability, water management and environmental services.

The company has established a leading position in the research, design and implementation of innovative solutions to mining waste management and heap leach systems. Knight Piésold's engineers are specialists in the geotechnical aspects of

openpit stability and underground mine development. Services include tailings and water management, heap leach pad design and underground rock mechanics. Seismic monitoring, waste characterization, environmental planning and project permitting, mine closure and reclamation, and water management services are also available.

[www.knightpiesold.com](http://www.knightpiesold.com)

### **Krupp — materials-handling equipment and systems**

Krupp's group of companies provides a range of materials handling and transportation systems to the global mining industry. The company has more than 600 scraper-type reclaimers and blending bed systems in operation around the world, handling coal, limestone, marl and clinker. Krupp also manufactures a range of bucketwheel excavators and reclaimers in various capacities. Its line of stackers is also available in various sizes and can be rail- or crawler-mounted. Krupp also sup-

plies conveyor systems to mines and storage facilities. This include multi-conveyors, long distance conveyors and specialty systems for specific applications.

Krupp also supplies continuous ship loading and

unloading equipment as well as grab-type ship unloaders.

[www.thyssenkrupp.com](http://www.thyssenkrupp.com)

**Krupp's bridge-type bucketwheel reclaimer.**

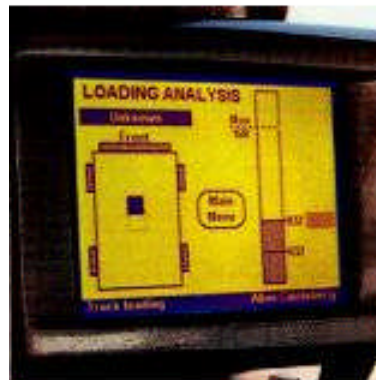


### **Leica Geosystems — fleet-monitoring systems**

Leica Geosystems' Fleet Monitoring System (FMS) is a real-time monitoring system designed for openpit mining applications. The system provides accurate production statistics, vital signs monitoring and real-time data capture. By using satellite positioning systems, FMS can track each load, where it came from and where it is going to.

Leica's FMS package allows surface mine operators to integrate monitoring navigation and reporting on draglines, drills, trucks, shovels, loaders, dozers and auxiliary equipment into one system. Shovels can

**Leica's fleet-monitoring system.**



be fitted with high-precision global positioning satellite receivers. They allow operators to see bench heights and their exact position for more accurate excavation. With FMS Pit Ops, the controller can see the big picture in real time. This provides mine management the ability to make on-the-fly decisions to maximize production and product quality, while minimizing fleet delays. And the Pit Display feature of FMS tracks the location of all equipment in the mine by satellite.

[www.leica-geosystems.com](http://www.leica-geosystems.com)