

World Mining Equipment

## **Modern Shaft Sinking** —Dealing with extremes at Resolution Copper's No. 10 shaft

Mechanized Mining at South Deep

Digital Tools Offer a **Competitive Edge** 

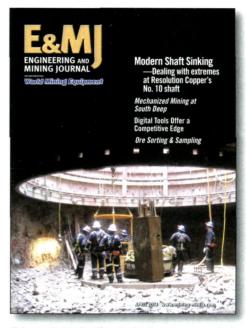
Ore Sorting & Sampling





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South Deep Turns to Mechanized Mining Approaching two miles underground, it's hard to forget that if something goes wrong, help is very far away	ļ
Drilling Enhances Shaft Safety  Shaft sinking and raising are the focus for an increasing number of equipment manufacturers. E&MJ looks at some of the newest machines and concepts.  40	)
Ore Sorters and Analyzers: The Technology Develops  Once the domain of the diamond industry, ore-sorting technology has become much more sophisticated in recent years. E&MJ looks at some of the systems now available, together with analyzers that are bringing real-time capabilities to exploration.	5
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Digital Tools for Mines Help Maintain a Competitive Edge  Many mining executives are convinced there's really no alternative: either join the industry's quickening interest in digital technology or risk losing ground  65	5
Performance of Dynamic Support System in Highly Burst-prone Ground Conditions at Vale's Copper Cliff Mine: A Case Study  An example of a well-designed ground support system can withstand major, repetitive seismic events while allowing mining to proceed safely in troublesome areas  74  Blended Learning: A More Effective Model for Haul-truck Operator Training	1
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This month E&MJ offers in-depth coverage on shaft sinking and raise boring. On the cover, collar construction is being done on Resolution Copper's No. 10 shaft, which has reached a depth of 6,630 ft, making it the deepest single-lift shaft in the U.S. The photo was taken by Randy Seppala, Resolution Copper's project manager.

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