Cyanide accounts for a significant portion of the total operating costs of many gold and silver mines. In recognition of this fact, Orica has developed a range of On-Line Cyanide Analysers designed to optimise cyanide usage, thereby lowering costs, without sacrificing precious metal recovery rates.

Orica’s technical team, with extensive experience in gold processing works, work in close partnership with customers to select and design an on-line analyser to meet their needs.

**OCM5000 Free Cyanide Analyser**

The OCM5000 On-Line Free Cyanide Analyser has been developed for exclusive use in the gold and silver mining industries to optimise cyanide addition.

Based on well-proven potentiometric titration technology, the OCM5000 represents a cost-effective cyanide management solution.

**Benefits of the OCM5000**

- Optimal precious metal recovery through improved control of cyanide in the extraction stage.
- Reduced cyanide consumption, leading to lower operating costs.
- Reduced cyanide discharge into tailing storage facilities, a significant environmental consideration.
- Assists in achieving compliance with ICMC practice 4.2.

**OCM6000 WAD Cyanide Analyser**

The OCM6000 On-Line WAD Cyanide Analyser is based on the same operating platform as the highly successful OCM5000 analyser.

The OCM6000 incorporates an innovative micro-distillation unit and potentiometric titration technology to measure WAD cyanide concentrations.

**Benefits of the OCM6000**

- Reduced cyanide destruction costs through improved control of cyanide destruction reagents.
- Provides evidence to support compliance with the ICMC regarding the levels of WAD cyanide entering tailings storage facilities.
Proven Performance
Orica is a leading supplier of commercial explosives and reagents to the mining industry, with a worldwide operational network that spans Australia, Asia-Pacific, Europe, Canada, USA, Latin America, and Africa. Over 40 on-line cyanide analysers have already been installed worldwide, providing performance and cost benefits.

“On-line analysis of samples containing only sodium cyanide produced consistent results, with the average values showing good agreement with those obtained from manual titrations. It was also found that the method successfully determined cyanide contained in copper cyanide and nickel cyanide complexes and excellent agreement with results obtained by an external laboratory was achieved.”

Richard Holder, General Manager, Beaconsfield Gold Mine

Parker Centre Evaluation
Orica commissioned the Parker Centre to conduct an independent review of the OMC6000 On-line WAD Cyanide Analyser. The following excerpt was taken from this report:

Technical Support
Orica Mining Chemicals is a global industry leader, committed to providing our customers with innovative products and superior service quality. To achieve this end, Orica has invested heavily to upgrade both our technical capabilities and research and development programs, ensuring we possess the technical edge necessary to meet the evolving needs of our customers.

Orica have strong representation in the fields of chemistry, chemical engineering, metallurgy, civil, mechanical, engineering and safety, health and environment, expertise that can be drawn upon at any time to support the needs of our customers.

Orica also works closely with our customers to measure the commercial, technical, safety, health and environmental benefits associated with their adoption of Orica’s on-line cyanide analysers.

Safety Health & Environment
Orica operates to the highest standard of safety, health and environment, guided by our vision of “No injuries to anyone, ever.” This vision underpins Orica’s commitment to ensure that both our employees and customers operate in a safe and healthy work environment.

Orica is also a signatory to the International Cyanide Management Code (ICMC), a charter designed to “improve the management of cyanide used in gold mining” (ICMC Website). Orica’s Free Cyanide Analyser optimises the amount of Sodium Cyanide employed in the extraction process to improve operational performance and minimise costs. Orica’s WAD Cyanide Analyser reduces reagent usage whilst meeting discharge requirements. The adoption of an Orica on-line analyser is an effective tool that demonstrates adherence to the ICMC.

Further Information
Please visit www.orica-miningchemicals.com or contact the National Customer Service Centre

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