



from challenge comes innovation



GEKKO
SYSTEMS



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GEKKO SYSTEMS PTY LTD AUSTRALIA

321 LEARMONTH ROAD
BALLARAT VICTORIA 3350
TEL + 61 3 5339 5859
FAX + 61 3 5339 5803
EMAIL gekkos@gekkos.com

SOUTH AFRICA

POSTNET 429 PRIVATE BAG X29
GALLO MANOR 2052 SOUTH AFRICA
TEL + 27 (11) 448-1222/3/4
FAX + 27 (11) 448-1230
EMAIL gekkos@gekkos.co.za

CANADA

909 BURRARD ST. SUITE 906
VANCOUVER BC V6Z 2N2
TEL +1 604 681 2288
FAX +1 604 681 2220
EMAIL jennifera@gekkos.ca

www.gekkos.com

GEKKO

GEKKO SYSTEMS specialises in the design, development and distribution of innovative mineral processing equipment and systems with a particular focus on gravity separation. Long term relationships based on trust and mutual benefit, and an emphasis on innovation, are the cornerstones of the company's philosophy. The business owners and team of employees, contractors, consultants and suppliers are passionate about producing timely, high quality products and services for our customers.

The company seeks low cost, quality solutions to metallurgical problems. Improving environmental outcomes from mineral processing is a focus. Gravity separation by its very nature provides opportunities to both lower costs and improve the environmental profile of mineral processing. Maximising recovery through gravity separation by creating a high grade stream of concentrates for preferential treatment is a significant conceptual platform to help achieve these objectives. Gravity separation also has an important function in the efficient removal of waste.

- 2003 Deloitte Technology Fast 50
- Winner Telstra and Australian Governments' Small Business Cisco Innovation Award 2002
- Winner Clunies Ross National Sciences and Technology Award (AH Gray) 2002
- Finalist National Export Awards 2000
- Winner Governor of Victoria Export Award Minerals Section 2000
- Winner AusIMM Mineral Operating Technique Award (AH Gray) 1998
- Winner Australian Emerging Micro Business Award 1998

PRODUCTS

InLine Pressure Jig

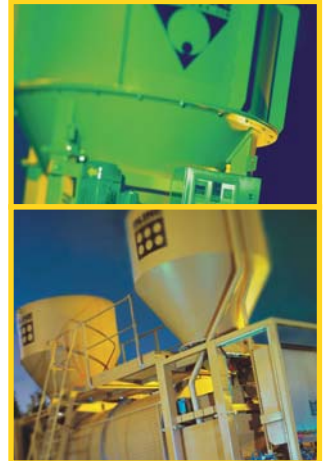
The InLine Pressure Jig is a new gravity separation technology that offers advantages of low water consumption, high recoveries and low operating costs. The unit is targeted to continuous heavy mineral recovery. Its capacity to vary mass flow to concentrate allows application in a wide range of minerals and the opportunity to maximise gravity separation. Since commercialisation in 1996, over 150 units have been manufactured and installed worldwide to recover sulphides, free gold, native copper, silver, tin/tantalum, garnet and diamonds. The InLine Pressure Jig also has potential application on coal, mineral sands, magnetite and iron recovery.

InLine Leach Reactor

The InLine Leach Reactor was developed to maximise recoveries from gravity gold concentrates produced by units such as the InLine Pressure Jig or centrifugal concentrators. The unit has since been successfully installed to treat oxide and sulphide mineral. The hallmark of this fully automated unit is +98% recoveries and low operating costs. The InLine Leach Reactor has significantly increased recoveries on complex preg-robbing ores.

InLine Spinner

The InLine Spinner is a centrifugal gravity separation unit which has been installed to: upgrade InLine Pressure Jig concentrates, scavenge centrifugal concentrator and table tails, and as a primary concentrator. The InLine Spinner is a zero water consumption bowl. The bowl is fully automated for high recovery, high upgrade and high security. The InLine Spinner offers significant operational and capital cost advantages.



MINERAL PROCESSING TECHNOLOGY

SERVICES



Design

Gekko Systems has a team of skilled process engineers, chemists and metallurgists capable of designing gravity separation process solutions appropriate to each individual application. Gekko's goal is to achieve the optimum outcome for our customers. The company focusses on designing full gravity modules for grinding circuits or alluvial mining systems. Manufacture and assembly of the modular components can be managed in-house utilising both skilled engineering staff and a network of key suppliers. A design focus on automation, where necessary, improves security and flexibility of the modules.

Testwork and Research Management

Gekko Systems is a specialist in the design of gravity and intensive leach test research programmes. Determining the recovery of minerals at their liberation size, grade recovery relationships, size recovery relationships, as well as recovery of auriferous minerals through intensive leachwork are the company's areas of expertise. Gekko also specialises in onsite auditing and survey work on all types of gravity installations. A full mass balance is developed around the gravity circuit to allow optimisation and an improved understanding. Gekko has also coordinated and undertaken successful research programs to resolve complex recovery issues. Frequently innovative process routes are recommended where traditional flowsheets have not proven successful.