

JKTech Products

BATCH FLOTATION CELL



Increase performance with improved laboratory flotation test results

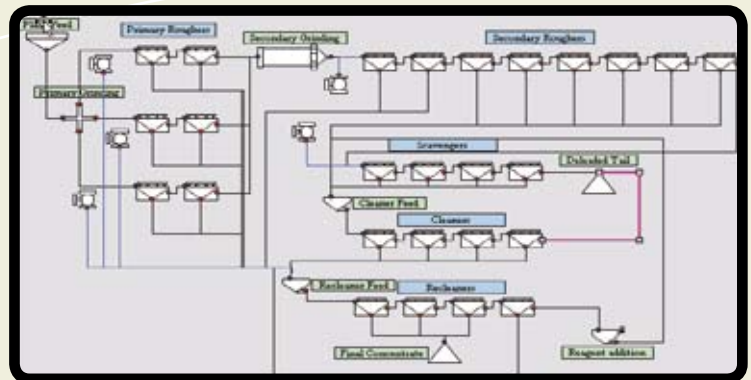
Product Development

The JKTech Batch Flotation Cell was initially designed for the high accuracy required in floatability modelling and flotation simulation. It is a bottom driven cell that provides an accurate, reliable means of generating reproducible laboratory flotation test results.

When provided with bubble sizing measurements it accurately determines scale up characteristics, allowing simulation and design of plant operations.

Developed out of the renowned Julius Kruttschnitt Mineral Research Centre (JKMRC), the JKTech Batch Flotation Cell allows for the analysis of flotation performance incorporating the effect of bubble size, grind size, reagent addition and residence time.

Coupled with JKSimFloat it can provide simulations of flotation circuits incorporating industrial strength models developed at the JKMRC.



JK Batch Flotation Cell Allows the User to:

- Conduct routine batch flotation tests to determine grade / recovery profiles
- Conduct flotation kinetics tests
- Conduct locked cycle test programs
- When operated under standard JKMRC conditions determine mineral floatability parameters for use in JKSimFloat
- When operated in conjunction with JKMineralogy produce mineral grade / recovery curves
- When operated with bubble sizing devices conduct frother characterisation studies
- When operated with bubble sizing devices determine accurate scale up parameters to full scale equipment
- Evaluate the effect of power input on flotation performance



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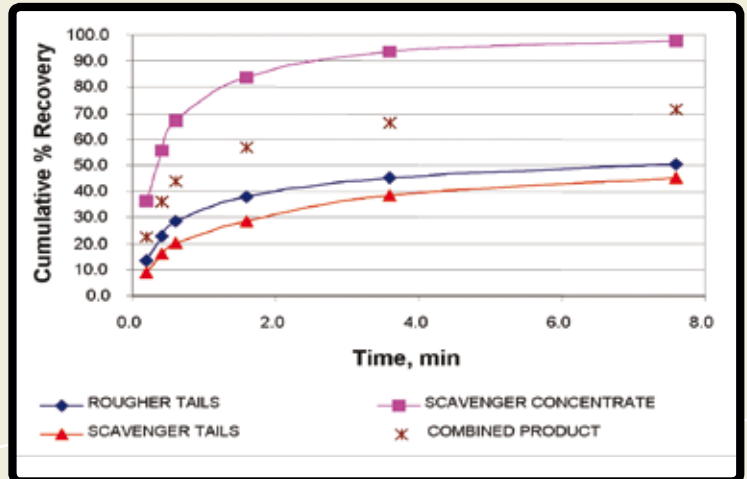
Isles Road, Indooroopilly, QLD 4068, AUSTRALIA
Telephone: +61 7 3365 5842 Facsimile: +61 7 3365 5900
info@jktech.com.au | www.jktech.com.au

*Delivering world class solutions to
the minerals industry*

Increase plant performance with improved laboratory flotation test results

JK Batch Flotation Cell features:

- Bottom driven impeller allowing full scraping of the froth for concentrate removal
- Impellers with cell capacities of 5, 3 or 1.5 litres
- Fine adjustment of air flows within the cell
- Electronic digital read-out of impeller speed accurate to +/- 0.1%
- Rugged 0.37kW, dc motor, 90/130 VAC allowing connection to 110V-240V, 50/60Hz, 10A single phase socket outlet
- Spindle speed variable between 200 and 1500RPM



Other JKTech Specialist Equipment:

- JK Drop Weight Tester
- Abrasion Mill
- Superficial Air Velocity Probes
- Air Hold-up Probes
- Bubble Sizing Equipment



Other JKTech Services

- Consulting (comminution, flotation, mine-to-mill)
- Quantitative Mineralogy (MLA and JKMineralogy)
- Specialist Software (JKSimMet, JKSimFloat, JKSimBlast)
- Metallurgical Laboratory Services
- Training Courses

Contact

Dr Greg Harbort
Technology Manager

Telephone: +61 7 3365 5847

Facsimile: +61 7 3365 5900

Email: g.harbort@jktech.com.au

JKTech's range of technologies is supported by the ongoing research activities of the world renowned JKMRRC.

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