

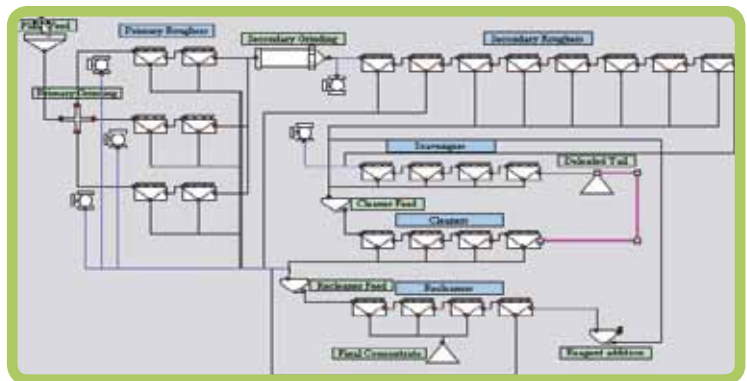
## JK Batch Flotation Cell

*Increase flotation circuit performance through improved laboratory scale flotation testing*

The JKTech Batch Flotation Cell is a bottom driven cell that provides an accurate and reliable means of generating reproducible laboratory flotation test results. Over many years it has proven its ability to provide the flotation characterisation necessary for reliable floatability modelling and flotation circuit simulation.

Developed out of many years of flotation research by the world renowned Julius Kruttschnitt Mineral Research Centre (JKMRC), the JK 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.

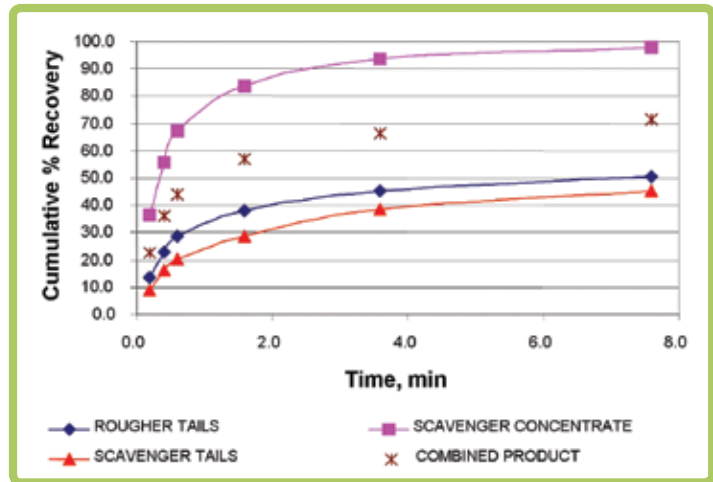


### JK Batch Flotation Cell allows the user to:

- 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
- Produce mineral grade/recovery curves in conjunction with liberation data from automated mineralogy
- Conduct frother characterisation studies with bubble size data
- Accurately scale up with additional bubble size information
- Evaluate the effect of power input on flotation performance

## 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:

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



## JKTech Services

- Consulting (comminution, flotation, mineralogy, mining & geometallurgy)
- Process Mineralogy and In-House Instrument Analysis
- Specialist Software (JKSimMet, JKSimFloat, JKMultiBal, JKSimBlast)
- Specialist Equipment (ore breakage characterisation, flotation characterisation)
- Metallurgical Laboratory Services
- SMI Knowledge Transfer

## Contact

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