



jord

IDEAS ENGINEERED



BATTERY MINERALS PROCESSING

Delivering integrated process technology to meet
the demands of the global lithium battery market

www.jord.com.au



EVAPORATION

Evaporation is critical to remove excess water prior to crystallisation into various final products. Selecting and sizing the right evaporation technology is key to ensuring an energy efficient cost effective plant. Jord's range of evaporator technology is ideally suited to the task.



FINAL PRODUCT CRYSTALLISATION

The final steps to achieving the required purity of various battery grade or technical grade lithium, nickel and cobalt products is via effective crystallisation, centrifugation and drying. Jord can select and design from a range of technology to produce battery grade crystals and valuable by-products.

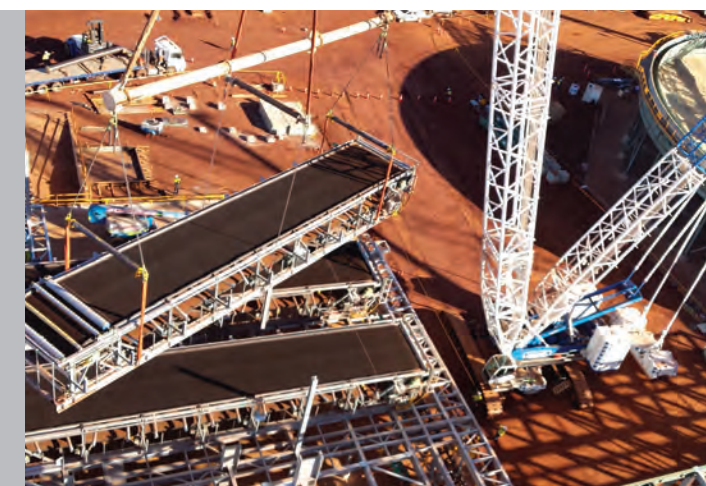
SPODUMENE CONCENTRATE DEWATERING

Jord specialise in high tonnage de-watering applications and have delivered multiple units for spodumene concentrate dewatering. Either fast acting membrane filter presses or horizontal vacuum belt filters can be utilised depending on the product particle size distribution.



TAILINGS FILTRATION

Environmental legislation and a very real need to conserve precious process water is driving the dewatering and dry-stacking of tailings materials. Jord has extensive experience across a range of tailings materials.



LEACHING TANKS

Precise measuring and mixing are key to maximising product recoveries. From detailed simulation and equipment design and supply, to optimisation of an operating plant, Jord provide the complete solution.



PRECIPITATE FILTRATION

Jord membrane chamber filter presses provide fully automated operation and high availability to ensure liquor purity via removal of precipitated contaminants. Filter cakes with very low residual moistures ensure maximum recovery and minimal recirculation.

OFF GAS SCRUBBING

Jord specialise in Clean Air technology that ensure critical emission limits are met, further minimising the environmental impact of plant operations. Applications include kiln and dryer off gas scrubbing and leach tank gas scrubbing systems.



PROCESS FLOW SHEET DEVELOPMENT

Jord utilise key OLI metallurgical simulation software and a range of laboratory scale and demonstration or pilot plant equipment in order to develop the overall process flow sheet for battery minerals production.



International Project Execution Experts

Jord delivers modular integrated process plants to global markets across a wide range of industries and international standards. Drawing upon a network of global fabrication partners Jord provides, to the highest extent possible, modular process plant to take advantage of the low cost and rapid assembly of experienced workshop teams and to avoid the risk of construction period overruns at site.

Whole of life Service and Support

Just as many of our earliest delivered plants have reached 50 years of operation, we expect our latest plants to do the same even in the most challenging operating environments. To ensure this longevity of operation Jord has a team of reliability engineers and site technicians who not only construct and commission our equipment but supply ongoing support and process optimisation services.

“Jord has the technology and experience to bring your battery minerals processing project to market fast.”