

Pioneering Lithium Ore (Spodumene) DMS Plants



Dense media separation (DMS) plants play a crucial role in powering the lithium revolution. As electric vehicles become more prevalent, the demand for lithium is skyrocketing, and innovative techniques like DMS are helping meet that demand in an environmentally friendly way. SGS Bateman pioneered its first modular lithium DMS plant in 2012.

SGS Bateman has been at the forefront of innovation, offering cutting-edge modular mineral processing plants that have revolutionized the industry. Since the 1960s,

our competitive modular plant solutions not only reduce risks through proven designs but also accelerate project implementation and maximize returns, even in challenging project locations. Modular plants are used in the beneficiation and recovery of a wide range of commodities, including lithium, diamonds, coal, graphite, copper, andalusite, chromite, platinum and gold.

With the global shift towards clean energy, our commitment to sustainability and eco-friendly practices led us to supply our first chemical grade 50 tph lithium DMS plant to a

leading lithium minerals concentrate producer in Australia. This significant milestone was followed by the successful delivery of a second 100 tph DMS plant several years later, significantly increasing the processing capacity. The recognition of our expertise and reliability has now led to the commencement of construction of a third 150 tph lithium processing plant for the same client in 2023.

One of the keys to our success lies in our approach to creating self-contained plants. Each plant is meticulously constructed, fully

trial-erected, and pre-commissioned in South Africa before being carefully stripped down and packed into containers for dispatch to the designated project site. This approach ensures streamlined installation and swift operation, minimizing downtime and maximizing efficiency.

At SGS Bateman, we take immense pride in our role in the lithium processing industry. By providing state-of-the-art modular DMS plants, we contribute to the clean energy revolution and enable our clients to thrive in a sustainable future. Being part of the SGS Group, SGS Bateman is able to draw on a range of complementary services, supporting lithium and other commodities, across the mining value chain.

We are excited about the prospects of further innovations and partnerships as we continue to champion environmental responsibility and deliver excellence in the mineral processing sector. With the growing demand for lithium and the increased development of mines globally, SGS Bateman's modular DMS

plants are ideally suited to be incorporated into processing plants anywhere in the world.

For more information, please contact SGS Bateman.

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Innovative Engineering Solutions

SGS Bateman has been at the forefront of innovation, offering cutting-edge modular mineral processing plants that have revolutionized the industry.

Process plants that work™

- Consulting
- Due diligence
- Testwork supervision
- Process development
- Feasibility studies
- Engineering & design
- Project management
- EPC & EPCM services
- Modular plants



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