



**delonix**  
SOLUTIONS

CAPABILITY STATEMENT

## CRUSHING, SCREENING, COMMINUTION & CONVEYING SOLUTIONS

**Delonix Solutions** is a leading provider of mineral processing solutions to the mining industry, delivering innovative crushing, screening, comminution and conveying systems and infrastructure to mine sites.

We engineer world-class, fit-for-purpose plants that commission faster, run safer and deliver predictable performance.

Our integrated, multi-disciplinary teams cover structural, mechanical, civil, piping, electrical and instrumentation controls engineering, meaning fewer interfaces and faster handover.

We are specialists in high-throughput and tailored mineral processing systems. Our industry-leading approach optimises flowsheets, minimises downtime and capital expenditure while maximising efficiency, productivity and energy efficiency. **This enables our technical experts to provide an indicative price within two weeks of engagement.**



JANUARY 2026





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# OVERVIEW

**Delonix Solutions** is an engineering group, with extensive capability in successfully delivering mineral processing and materials handling solutions for the mining industry.

**Delonix Solutions** has an experienced in-house engineering team specialising in the engineering and design of metallurgical processing, mechanical, structural, piping, electrical, instrumentation and control systems.

**Delonix Solutions** has a track record of delivering complete processing, materials handling, infrastructure and power generation facilities, with a strong innovation focus around optimising the design to achieve a fit-for-purpose, reliable, safe and a significant cost reduction for your project.

**Delonix Solutions** can support both new greenfields projects or brownfields upgrade projects and can be engaged under either of the below project delivery models:

- Engineering, procurement and construction management (EPCM)
- Engineering, procurement and construction (EPC)
- Build, own and operate (BOO)
- Build, own, operate and transfer (BOOT)

Our end-to-end project delivery capability includes:

- Engineering concept development
- Project financial analysis
- Project cost control
- Project management and scheduling
- Project risk assessment (HAZOP etc.) facilitation
- Detail design, including engineer for safety compliance
- Procurement
- Construction management
- Commissioning
- Ramp-up support to accelerate the achievement of nameplate capacity
- On-going continuous improvement and defect elimination facilitation



# THE DELONIX SOLUTIONS EVOLUTION MINERAL TECHNOLOGY™ (EMT™)

The Delonix Solutions Evolution Mineral Technology™ (EMT™) represents the **Delonix Solutions** design methodology (approach), including existing technology that forms the foundation for the effective (fast-tracked) delivery of crushing and comminution solutions to our clients. The solutions are optimised with regards to performance, efficiency, safety, reliability, constructability, maintainability, operability and overall CAPEX and OPEX cost effectiveness.

The Delonix Solutions Evolution Mineral Technology™ (EMT™) includes:

Advanced mineral processing and materials handling design, simulation and analysis software, including:

- JKSimMet for breakage modelling software
- Bruno crushing and screening plant flow circuit simulation software
- Computational fluid dynamics (CFD) analysis software used to simulate cyclone behaviour
- Helix Delta-T and BeltStat software for dynamic analysis of belt conveyors
- Inhouse developed piping and pumping system design software that can analyse slurries or liquids showing Bingham flow, Newtonian flow or Wilson particle settling flow behaviour
- Vibrating equipment (screen and feeder) analysis finite element analysis (FEA) capability
- Advanced transfer chute and bin design software for abrasive and cohesive ores, including discrete element modelling (DEM) and 3D flow simulation technology
- Design 3D modelling and rendering
- Advanced 3D scanning and plant 3D model generation technology
- Advanced mechanical and structural analysis software, including static and dynamic FEA (structural stress, deflection, fatigue and vibration levels) and structural certification in compliance with Australian Standards
- Plant and process controls simulation software for functional testing and interlock verification

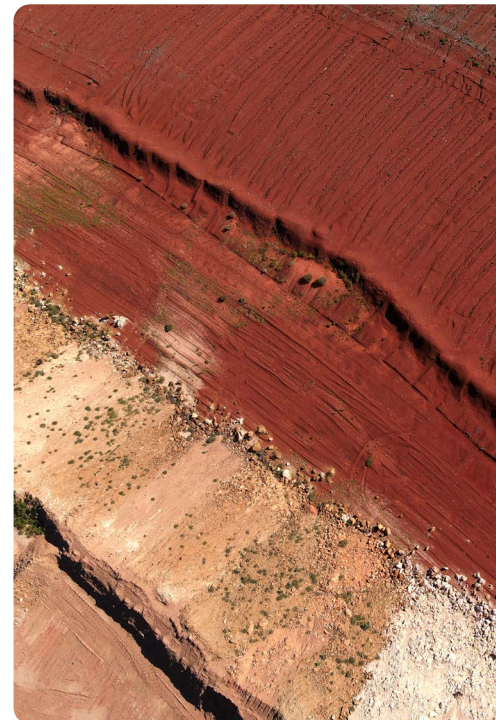


EMT™ delivers fully integrated materials handling solutions, with form and function developed as a single operating system across all engineering disciplines and equipment. Plant layouts are compact and low-head, providing improved access and maintainability compared to traditional fixed plant designs.

Primary crushing circuits can achieve ROM wall heights of less than 12m for throughput rates of up to 52mtpa. Optimised layout and materials handling design improve energy efficiency, enabling ESG compliance over the operating life of the asset.

The in-house developed EMT™ equipment or facilities include:

- Relocatable and fast construct crushing and screening technology that can be configured to process between 3mtpa and 52mtpa
- Dry crushing screening technology that can process cohesive and below water table ores
- Ore stacking and reclaiming technology
- Unique long span and high-capacity conveyor gantry trusses that can be flat packed and transported by container
- Cohesive ore dry screening technology
- High-capacity grinding (comminution) technology





# OUR COMMITMENT

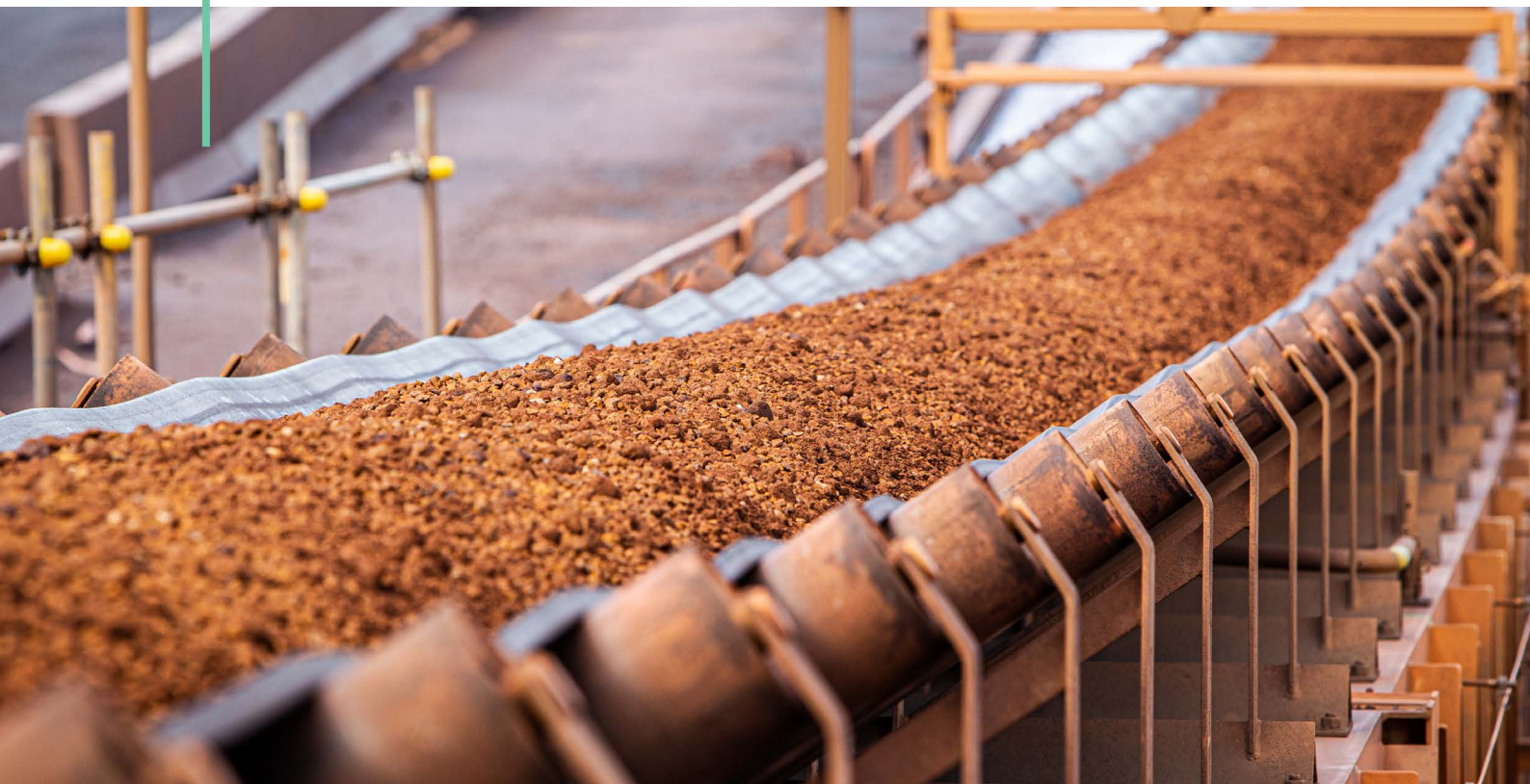
The **Delonix Solutions** engineering team operates under a well-defined engineering system, utilising advanced engineering tools (Delonix Solutions EMT™) to design and develop fit for duty solutions for our clients that are:

- Significant cost reduction, while meeting all design expectations
- Ensures the safety of construction, operating and maintenance personnel during the life of the asset
- Efficient at power consumption
- Reduces environmental impact, with regards to waste generation during construction and operation
- Reliable in operation
- Reduced maintenance demand and maintenance cost
- A design that ensures off-site pre-assembly, fit-out and testing activities in the factory is maximised to reduce exposure to expensive and hazardous on-site construction activities
- Energy-efficient materials handling and processing layouts that reduce power intensity and support ESG compliance over the operating life of the asset
- Operational readiness upon commissioning to accelerate production ramp-up
- Fast-tracked project delivery while exceeding the projects financial targets

We provide indicative plant designs and capital cost estimates early in the engagement, giving clients clarity and confidence from the outset.

With our agile approach, clients receive a bespoke, complimentary solution in just two weeks.

This means certainty in scope, schedule and cost, delivered in a fraction of the time.



# DELONIX SOLUTIONS PROJECT EXAMPLES AND EMT™ APPLICATION

**Delonix Solutions** continues to deliver large-scale ore processing facilities to the mining industry in Australia and Africa, some examples include:



## NORTHERN STAR RESOURCES - KALGOORLIE CONSOLIDATED GOLD MINES (WESTERN AUSTRALIA)

The Fimiston Super Pit is one of the world's largest open pit gold mines with a mineral resource of 27moz and an ore reserve of 11.9moz.

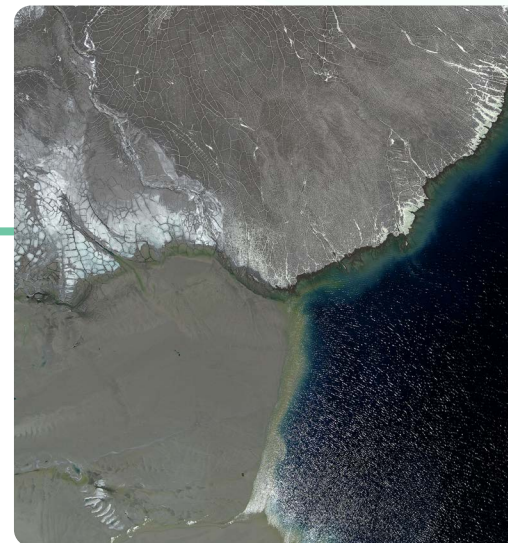
The Fimiston Super Pit - South growth project, targets the widening and deepening of the southern end of the Super Pit, extending mine life to 2034.

Our scope of works with the Fimiston South project included a new gyratory primary crushing facility, coarse ore stockpile, COS ore reclaim facility, pebble crushing and mill feed conveyor.

## PILBARA LITHIUM SOLUTIONS- PILGANGOORA LITHIUM OPERATION (WESTERN AUSTRALIA)

**Delonix Solutions** provided overall engineering design for the Pilgangoora P680 expansion project, focusing on the following new facilities:

- Grinding facility
- Front end crushing plant
- Ancillary facilities



## KEY FEASIBILITY STUDIES

- Rio Tinto Iron Ore - 50mtpa hematite compact EMT™ primary crushing facility
- Ramelius Resources - Large scale gold ore EMT™ primary crushing and coarse ore stockpile facility
- Oyu Tolgoi copper and gold mine - New large capacity three-stage EMT™ crushing and screening facility
- Genesis Minerals - 4mtpa gold ore EMT™ primary crushing and coarse ore stockpile facility

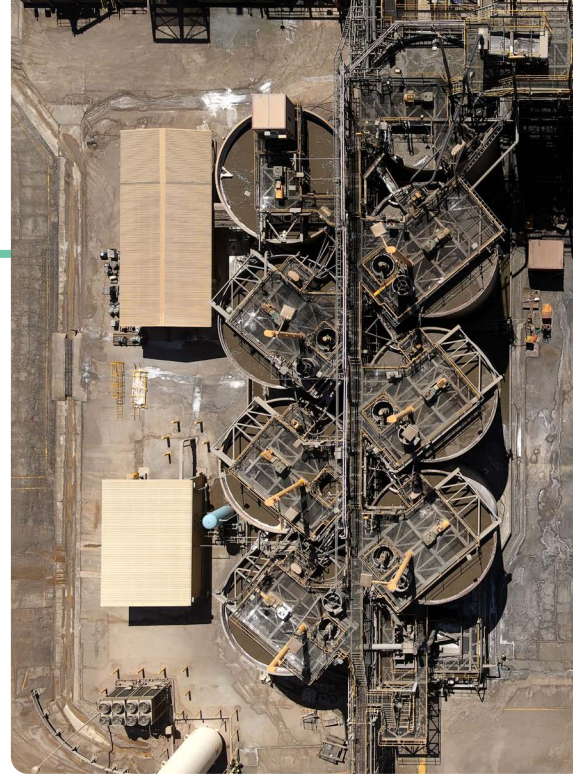


# PROVEN MATERIALS HANDLING DELIVERY

**Delonix Solutions'** experience spans a diverse range of materials handling projects, delivered for some of the most prominent Australian and global mining and resources companies:

- Mineral Resources – Onslow Iron
- Iluka Rare Earths – Eneabba
- Lynas Rare Earths – Mt Weld
- First Quantum Minerals – Cobre Panama, Kansanshi, Sentinel and Ravensthorpe projects
- Crushing Services International – Australian Garnet
- Perdaman Chemicals and Fertilisers – Ceres
- Pilbara Minerals – Pilgangoora expansion
- Lione Resources – Kathleen Valley
- Gold Fields – Agnew
- Northern Star Resources – KCGM Super Pit and Thunderbox
- Fortescue – Cloudbreak
- Hanroy Iron Ore – Roy Hill
- Greatland – Haverton
- Mid West Ports – Shiploader
- BHP – Jimblebar
- Westgold Resources – Higginsville

Our proprietary technology enables rapid circuit design and configuration, ensuring every solution is tailored to maximise value for the client's operation.



## READY TO OPTIMISE YOUR OPERATIONS?

Partner with Delonix Solutions for tailored mineral processing and materials handling solutions that optimise your operations.

Contact us for a complimentary rapid configuration and capital cost estimate, delivered in just two weeks.



# WHY CHOOSE DELONIX SOLUTIONS

- Proven delivery for leading miners in Australia and globally
- Integrated, multi-disciplinary teams for seamless execution
- Rapid configuration of high throughput solutions, tailored to clients' requirements
- Certainty in scope, schedule and cost, faster than the competition
- Strong track record across the mining lifecycle, from concept to commissioning

Contact us for a complimentary rapid configuration and capital cost estimate, delivered in just two weeks.



## CONTACT DELONIX SOLUTIONS

Contact Delonix Solutions today to learn more about our services and how we can help you achieve your goals.



Visit  
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