



CAPABILITY STATEMENT



VANGUARD
MINING



OUR VISION

We are the preferred designer and supplier of your bespoke comminution equipment. We are trusted and recognised for our excellent client focus and product support.



Established in 2017, Vanguard Mining is a premier specialist in mineral processing and tailored engineering solutions for crushing plants.

Australian-based and ISO certified with knowledge of all Australian Standards, Vanguard Mining not only supplies equipment and crushing plants, but offers integrated solutions to support the entire project lifecycle.

The Vanguard Difference

Vanguard Mining seeks to provide transformative mineral process technology and solutions. We are an industry leader in providing equipment and internationally advanced technologies, combined with the ability to offer individualised support services for your project.

Our people

We employ staff globally over four continents, including Australia, China, Africa and Panama. Our headquarters are in Perth, Western Australia, where our highly skilled team have decades of experience in the industry. We're dedicated to excellence at every stage, combining our expertise with our suite of high-end services to deliver innovative solutions to our unique portfolio of clients.



**Our values of
Integrity,
Client Focus,
Excellence and
Innovation remain
at the core of
everything we do.**

ISO 9001
ISO 14001
ISO 45001
BUREAU VERITAS
Certification



CORE CAPABILITIES

Crushing, screening & materials handling

Vanguard Mining offers a comprehensive range of high-performance equipment designed to enhance efficiency, durability and productivity in crushing and screening operations.

Our solutions cater to various applications, from primary rock breaking to advanced material handling systems. Whether you require robust crushers, precision-engineered feeders or large-scale conveying systems, our equipment is built to withstand the toughest conditions while maximising output and operational reliability.



Equipment

- Rock breakers
- Jaw crushers
- Cone crushers
- Apron feeders
- Grizzly feeders
- Pan feeders
- Vibrating screens
- In-plant conveyors
- Overland conveyors
- Radial stackers
- Electro and static magnets
- Fabricated tunnels
- Ball mills



Crushing Plants

Vanguard Mining delivers fully integrated crushing plant solutions, combining world-class engineering with cutting-edge technology to optimise performance and efficiency.

Our tailored plant designs ensure seamless operation, from equipment selection to installation and commissioning.

With a focus on durability and productivity, we provide essential components such as breakers, crushers, feeders and conveyors along with expert construction supervision and on-site support to keep your operations running smoothly.

- Integrated plant and equipment design and supply
- Substations
- Ancillary equipment (dust collectors, spray bars, sample stations)
- Construction supervision and site support



PROJECT SUPPORT

Management

Our clients have direct access to Vanguard's leadership team, ensuring clear communication, strategic decision-making and a personalised approach to project execution.

Sales

We provide expert guidance throughout the sales process, offering budget quotations, process and flowsheet design and detailed proposals. Our team facilitates tender clarifications, technical meetings and a structured project handover to ensure a smooth transition from planning to execution.

Project Execution

From scheduling and reporting to document control and quality management, our team ensures that every stage of execution is meticulously planned and monitored.

We facilitate project meetings, manage technical queries and conduct formal design reviews to maintain high standards of efficiency and compliance.

Site Support

Vanguard Mining ensures seamless installation, commissioning and optimisation of crushing operations. We also refurbish critical equipment to enhance efficiency and extend operational lifespan.

Design & Computational Analysis

Vanguard Mining integrates cutting-edge design tools and computational analysis to enhance project accuracy and performance.

Our design capabilities include:

- Design Review at 30%, 60% and 90% completion to ensure optimal outcomes
- 2D and 3D Modelling using industry-leading software such as Inventor, SolidWorks, AutoCAD and Revit
- Laser Scanning & Post Processing for precise site and equipment assessments
- Finite Element Analysis (FEA) to evaluate structural integrity and performance
- Discrete Element Modelling (DEM) for particle flow simulation and process optimisation
- Computational Fluid Dynamics (CFD) to analyse airflow, fluid behavior and efficiency
- Hydraulic, Fluid Power & Mechanical System Modelling using Automation Studio to refine system performance and automation.

EXPERTS IN BROWNFIELDS SOLUTIONS

Vanguard Mining specialises in brownfields equipment replacements, retrofits and process plant expansions or optimisations. Our expertise ensures seamless integration of new components into existing infrastructure with minimal disruption.

Our experienced design team leverages cutting-edge 3D laser scanning and photogrammetry to capture precise existing interfaces, guaranteeing millimeter-accurate designs for effortless on-site fitment. Combined with our modular design approach, we provide cost-effective brownfields solutions that keep your project on schedule and within budget.

Our project delivery team meticulously plans and executes brownfields site works, ensuring fast, safe installations within required shutdown timeframes. We understand the operational and maintenance demands of established sites and provide comprehensive support, including operational readiness and aftersales technical assistance, backed by our team of local product experts.

At Vanguard Mining, we are committed to delivering excellence. We recognise the complexity of brownfields projects and work closely with you to achieve optimal outcomes—exceeding expectations every step of the way.



SPARE & WEAR PARTS

Vanguard Mining supplies high-quality spare and wear components to maximise equipment lifespan and operational efficiency. From crusher liners and screen panels to conveyor parts and mill liners, our durable solutions ensure optimal performance and reliability in demanding conditions.

- Crusher liners
- Screen panels
- Wear liners
- Equipment spare parts
- Conveyor spare parts
- SAG & Ball mill liners
- SAG & Ball mill trommels
- SAG & Ball mill feed chutes





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