



MACMAHON

MECHANICAL ENGINEERING

MACMAHON MINING SERVICES



MACMAHON'S EXTENSIVE ENGINEERING CAPABILITIES PROVIDE CLIENTS TAILORED MINING SOLUTIONS FOR PROJECTS BOTH ABOVE AND BELOW GROUND.



Macmahon's Mechanical Engineering Service provides technical and operational solutions to the resource and construction sectors, undertaking development projects, infrastructure and construction and ongoing maintenance activities throughout Australasia.

Through its Engineering Business, Macmahon can design, construct, operate and maintain projects in both greenfield and operating sites.

With a unique understanding of the types of conditions and issues encountered in the underground and surface environments, Macmahon not only reduces the risks associated with logistical and practical challenges, but also hands over a more practical asset that can be easily maintained with the lowest operating costs.

Macmahon offers its surface and underground clients the full range of mechanical engineering services, ranging from design, procurement, manufacturing, commissioning and maintenance.

These services include:

- design and engineering mechanical works from concept to turnkey packages
- concept design, feasibility studies and budget appraisals
- procurement, including equipment selection, design and fabrication
- project management
- commissioning
- maintenance services

Macmahon employs experienced, practical engineers and draftspersons to design customised solutions with a 'made to order' approach for each project. Macmahon uses a developed design system that is supported using software such as:

- SpaceGas (Structural)
- T5 (Conveyor Design)
- Finite Element Design FEA

This enables cost effective designs that last for the intended life of installation.

Past and present contracts include:

CSA MINE (NSW)

AG Glencore International

Design and construction of a 1,500m shaft haulage system to create the deepest single lift shaft in Australia, in addition to the development of an underground crushing and conveyance system.

NIFTY MINE (WA)

Straits Resources

Design and construction of draft conveyors and crusher installation.

LEINSTER NICKEL OPERATIONS (WA)

BHP

Design and construction of underground crushing and materials handling infrastructure. Refurbishment and equipping of deepened shaft.

ENTERPRISE MINE (QLD)

Xstrata

Design and construction of paste fill plant.

OLYMPIC DAM (SA)

BHP

Design of the equipment and surface infrastructure for the Clark Shaft recovery project