



MACMAHON

SHAFT SINKING

MACMAHON UNDERGROUND MINING



**WITH
MORE THAN
20 YEARS'
EXPERIENCE
MACMAHON HAS
EXPANDED ITS
CAPABILITIES TO
OFFER OUR CLIENTS
A COMPLETE SUITE
OF UNDERGROUND
SERVICES.**



Macmahon's dedicated shaft sinking and engineering teams have world class experience in designing and constructing major shaft hoisting systems and can tailor a complete package from feasibility, through to design, supply and construction to suit the client's needs.

Macmahon offers specialist shaft construction and development services for both surface and underground operations, including:

- shaft sinking (blind sink, strip and line and horidiam)
- concrete/fibrecrete lining (including remote lining)
- shaft equipping
- shaft maintenance and inspections
- ore pass construction
- egress systems (ladderways and winder systems)
- ground support, repairs and water control
- feasibility studies and engineering services

Macmahon maintains a fleet of shaft sinking assets, including headframes complete with winders, stages and all associated equipment, enabling Macmahon to respond to most requirements quickly and effectively.

Winding systems are designed to comply with MDG33, MDG2005, MSIR95, AS3785 and AS3637.

Past and present contracts include:

ARGYLE DIAMOND MINE (WA)

Rio Tinto

Strip and line several 6m diameter passes and dams UG

BLAKEFIELD COAL MINE (NSW)

Xstrata

Lining 200m x 6m diameter raisebore

CADIA (NSW) Newcrest

Horidiam strip 280m x 6.0m diameter

CHALLENGER GOLD MINE (SA)

Dominion

Sink & Line 50m deep x 5m diameter presink

CLIFFS NICKEL MINE (WA) BHP

Blind sink 2 shafts & supply/install 200m canned ladder system

COSMOS NICKEL MINE (WA) Xstrata

Sinking & Lining of 2 shafts, 250m x 6m diameter and 405m x 3m diameter

CSA MINE (NSW) CMPL

Shaft equipping, sinking and lining the 500m deep extension of the existing No 1 shaft

ENDEAVOUR MINE (NSW) CBH

Strip and line UG vent shaft

FOSTERVILLE (NSW)

Kirkland Lake Gold

Strip and support vent shaft underground and support a surface raisebored vent shaft

GEORGE FISHER MINE (QLD) Xstrata

Sinking & Lining of 3 shafts, two 6.5m in diameter and one 7.5m in diameter

WAROONGA GOLD MINE (WA)

Gold Fields

Strip and line vent shaft

HATS PROJECT CIVIL (HONG KONG)

Leighton

Engineering and Supply of winding equipment

LEINSTER NICKEL MINE (WA) BHP

Horidiam 804m x 7.5m diameter, Sink 250m x 4.5m diameter, refurbish main hoisting shaft

LONG-VICTOR MINE (WA)

Independence Group

Support & Water Control 400m x 4m diameter raisebore

NSTP CIVIL (NSW) Sydney Water

Support raisebored tunnel conveyor shaft & lift shaft

PEAK GOLD MINE (NSW)

Support two 900m deep raisebores and Install egress winders

PILLARA MINE (WA) Western Metals

Concrete line several raisebored shafts

RIDGEWAY GOLD MINE (NSW)

Newcrest

Strip and line 2 vent shafts & supply/install egress winder

SALLY MALAY MINE (WA) Kimberley

Nickel

Strip and line two ventilation shafts

SAVANNAH MINE (WA) Panoramic

Resources

Design/construct deep raisebore collar

SHELL MORANBAH NORTH COAL MINE (QLD)

Sink and line 150m x 5.5m diameter

ULAN COAL MINE (NSW) Xstrata

Sinking a 250m x 5m diameter