



MACMAHON

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# 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 & 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 & 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:**  
**GEORGE FISHER MINE (QLD) Xstrata**  
Sinking & Lining of 3 shafts, two 6.5m in diameter and one 7.5m in diameter

**CSA MINE (NSW) CMPL**  
Sinking & Lining the 500m deep extension of the existing No 1 shaft

**LONG-VICTOR MINE (WA)**  
**Independence Group**

Support & Water Control 400m x 4m diameter raisebore

**COSMOS NICKEL MINE (WA) Xstrata**  
Sinking & Lining of 2 shafts, 250m x 6m diameter and 405m x 3m diameter

**ULAN COAL MINE (NSW) Xstrata**  
Sinking a 250m x 5m diameter

**BLAKEFIELD COAL MINE (NSW)**  
**Xstrata**  
Lining 200m x 6m diameter raisebore

**CHALLENGER GOLD MINE (SA)**  
**Dominion**  
Sink & Line 50m deep x 5m diameter presink

**HATS PROJECT CIVIL (HONG KONG)**  
**Leighton**  
Engineering and Supply of winding equipment

**RIDGEWAY GOLD MINE (NSW)**  
**Newcrest**  
Strip & Line 2 vent shafts & supply/install egress winder

**LEINSTER NICKEL MINE (WA) BHP**  
Horidiam 804m x 7.5m diameter, Sink 250m x 4.5m diameter, refurbish main hoisting shaft

**CLIFFS NICKEL MINE (WA) BHP**

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

**SAVANNAH MINE (WA) Panoramic Resources**

Design/construct deep raisebore collar

**NSTP CIVIL (NSW) Sydney Water**  
Support raisebored tunnel conveyor shaft & lift shaft

**GOLDFIELDS WAROONGA GOLD MINE (WA)**  
Strip and line vent shaft

**SHELL MORANBAH NORTH COAL MINE (QLD)**  
Sink and line 150m x 5.5m diameter

**PILLARA MINE (WA) Western Metals**  
Concrete line several raisebored shafts

**ARGYLE DIAMOND MINE (WA) Rio Tinto**  
Strip and line several 6m diameter passes and dams UG

**SALLY MALAY MINE (WA) Kimberley Nickel**  
Strip and line two ventilation shafts

**ENDEAVOUR MINE (NSW) CBH**  
Strip and line UG vent shaft

**PEAK GOLD MINE (NSW)**  
Support two 900m deep raisebores and Install egress winders

**CSA MINE (NSW) CMPL**  
Shaft equipping

**CADIA (NSW) Newcrest**  
Horidiam strip 280m x 6.0m diameter