



Shaft Sinking

Macmahon Underground Mining



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'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 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 & Present Shaft Construction contracts include:

George Fisher Mine (QLD) - Xstrata

(Sinking & Lining of 3 shafts, 2 x 6.5mØ and 1 x 7.5m Ø)

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 Ø raisebore)

Cosmos Nickel Mine (WA) - Xstrata

(Sinking & Lining of 2 shafts, 250m x 6mØ and 405m x 3m Ø)

Ulan Coal Mine (NSW) - Xstrata

(Sinking a 250m deep x 5m Ø)

Blakefield Coal Mine (NSW) - Xstrata

(Lining 200m deep x 6m Ø raisebore)

Challenger Gold Mine (SA) - Dominion

(Sink & Line 50m deep x 5m Ø 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 Billiton

(Horidiam 804m x 7.5m Ø, Sink 250m x 4.5m Ø, refurbish main hoisting shaft)

Cliffs Nickel Mine (WA) - BHP Billiton

(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 deep x 5.5m Ø)

Pillara Mine (WA) - Western Metals

(Concrete line several raisebored shafts)

Argyle Diamond Mine (WA) - Rio Tinto

(Strip and line several 6m Ø 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 Ø)