



masterdrilling.au

Master Drilling Australia

Capability Statement

Company Overview

Master Drilling Australia Pty Ltd, a subsidiary of the tier-1 South African company, is positioned to make a substantial impact on the Australian mining sector. Drawing upon our extensive experience and world-class raise boring technology, Master Drilling Australia is committed to spearheading essential drilling projects across Australia. As an Original Equipment Manufacturer (OEM), our expertise includes the construction of ventilation shafts and other vertical mining developments. We believe our proactive approach marks a new era in Australian mining, ensuring precision, efficiency and safety in every project undertaken. With a track record of excellence, Master Drilling Australia brings a wealth of expertise to the local mining community, dedicated to advancing the industry's capabilities in this region.

Company Details

📍 Building B, The Garden Office Park,
355 Scarborough Beach Road, Osborne Park WA 6017 Australia

✉ australia@masterdrilling.com

🌐 masterdrilling.au

ABN 46 142 926 092



“Leveraging global drilling expertise, Master Drilling Australia sets the industry standard with world-class boring technology for vertical drilling, revolutionising the Australian mining landscape.”

Our Purpose

Raise boring is a safer drilling method compared to shaft sinking. Our technology, bores vertically, reducing the risk of accidents, overbreak and exposure to hazards.

Master Drilling Australia, though appearing modest, is part of our globally competitive \$1 billion South African parent company. Renowned for industry-leading technology, our rigs operate across six continents and countless mining operations.

Since 1986, we've been a solutions-focused drilling technology company, offering mechanised services to mining.

Our hallmark is cutting-edge technology, innovative solutions and creative designs, supported by a flexible logistics chain. We stand as trusted partners, guiding clients from feasibility through to production stages. Our experts tackle every operational challenge, from access to ventilation. As a fully self-sufficient Australian company we continuously pioneer new techniques.



As an OEM, Master Drilling Australia produces equipment specifically designed to meet the unique needs of our clients.



Our Services

Master Drilling Australia specialises in a diverse range of services for the mining industry. Our core values of Respect, Accountability, Innovation, Safety and Efficiency (RAISE) drive our operations. We provide cutting edge technology in raise bore drilling, optimising vertical development solutions. Our mechanical structural engineering services ensure the durability of mining infrastructure. We mitigate geological risks with geotechnical engineering, enhancing stability and reducing disruptions. Our consulting services provide comprehensive guidance, from feasibility to production, for increased efficiency and maximum project potential. Master Drilling Australia is your trusted partner in delivering safe, sustainable and tailored solutions for all your mining needs.

As the world's largest raise bore company, Master Drilling Australia's innovative approach employs cutting-edge mechanical boring and remote drilling technology, guaranteeing successful project outcomes with precision and efficiency.



New to Australia but established as a global mining leader. Trust Master Drilling Australia to deliver turnkey solutions to meet your needs.



Raise Bore Drilling

Master Drilling Australia, a key player in global mining with roots in South Africa, excels in raise bore drilling, revolutionising underground access. Our rigs communicate real-time data, showcasing operational efficiency.



Consulting

Master Drilling Australia's consulting services provide comprehensive guidance in mining projects. From feasibility to production, our expertise drives efficiency and maximises your project's potential.



Geotechnical Engineering

Our geotechnical engineering services analyse and manage weathered zones for construction. Through geotech analysis, foundation design and stability assessments, geotechnical engineers ensure structures are safe, durable and fit for purpose, addressing the unique challenges of subsurface conditions in infrastructure projects.



Engineering Services

Our mechanical structural engineering services encompass designing and analysing mechanical components, ensuring material integrity and validating structural performance. These services optimise durability, safety and compliance in various applications.



Remote Drilling

Master Drilling has several remotely operated support shaft systems. These systems are tasked with applying a variety of shaft support materials, to ensure the geological stability of the shaft. The geological conditions of the shaft and the method of the drilling would determine which system and which material is applied to the challenge.



Shotcreting

Shotcreting is a construction technique that involves spraying concrete or mortar through a hose at high velocity onto a surface. The method is favored for its efficiency, versatility and the ability to form a compact, dense layer of concrete that adheres well to surfaces, including vertical or overhead areas.



A&R GROUP

A comprehensive mine management system that focus on improving safety, optimization, automation in a cost-effective way.



AVA

Data-driven mine management systems. It empowers mines by providing them with the data and information they need to make more informed decisions that ultimately affect the bottom line of the mine.

Our Products

At Master Drilling Australia, we are industry-leading experts in raise boring, a specialised drilling technique used primarily in mining and civil engineering. This method creates vertical or inclined holes, known as raises, in the earth's crust. This technique is distinct from conventional drilling as it utilises mechanised mining methods, removing the need for explosives and workers in the shaft.

The process involves the use of a raise boring machine, which is a powerful drilling rig specially designed for this purpose.

Here's how it works:

- 1. Pilot Hole:** Initially, a smaller diameter pilot hole is drilled from the upper level to the lower level where the raise is required. This pilot hole is typically guided by a pilot drill bit.
- 2. Reaming:** Once the pilot hole is established, a larger diameter reaming head is attached to the raise bore machine. This reaming head enlarges the hole to the desired diameter while simultaneously creating the required raise.
- 3. Material Removal:** The cuttings produced during the piloting process are removed from the hole. Throughout the reaming process the cuttings fall to the bottom of the raise and are removed by a tele-remote loader.

As specialists in raise boring we improve efficiency and safety for our clients. This technique enables us to create ventilation shafts, ore passes and other vertical or inclined developments in mines. Our work allows for precise drilling with minimal risk of ground instability, making it an essential technique in underground mining operations.

Benefits

Raise boring presents numerous advantages in mining and civil engineering endeavours:



Enhanced Safety

Raise boring stands out for its safety. Unlike shaft sinking, it lowers the risk of accidents, collapses and exposure to poor conditions.



Impeccable Precision

This method enables pinpoint drilling with minimal deviation, guaranteeing the exact placement of shafts or raises.



Heightened Efficiency

Raise boring excels in speed, excavating vertical or inclined holes more swiftly than conventional counterparts. This efficiency translates into cost savings and shorter project durations.



Reduced Ground Disruption

Utilising mechanised mining techniques reduces disturbances to the surrounding ground, lessening the likelihood of overbreak or instability.



Optimised Ventilation

Raise boring methods, with their precision, yield a smooth finish, reducing turbulence and friction. This optimisation maximises airflow efficiency, ensuring enhanced ventilation in mining and construction projects.



Eco-friendly Drilling

Controlled, precise raise boring has a smaller environmental footprint compared to alternative methods.



Deeper Resource Accessibility

Utilising raise boring techniques provides prompt access to ore bodies. This efficient method ensures timely entry, facilitating streamlined operations in mining and construction endeavours.



Adaptability

Raise boring is versatile, serving in the creation of various vertical developments, from ventilation shafts to ore passes and ladderways.



Cost Efficiency

While initial equipment costs can be substantial, raise boring's long-term efficiency often yields substantial savings, particularly in sizable mining operations.



Heightened Productivity

Continuous drilling operations maximise productivity, eclipsing intermittent shaft sinking methods. Productivity can be further excelled using remote drilling technology.



Minimal Surface Disruption

Raise boring requires a smaller work area compared to conventional methods and does not need explosives.

Industries We Serve

Master Drilling Australia is experienced in providing major scale bore drilling and geotechnical engineering to support in a range of mineral extraction operations. At the heart of our business lies a deep commitment to mining. While we possess expertise in diverse industries requiring intricate drilling solutions, at Master Drilling Australia mining remains our core focus.



Mining



Hydro

Civil

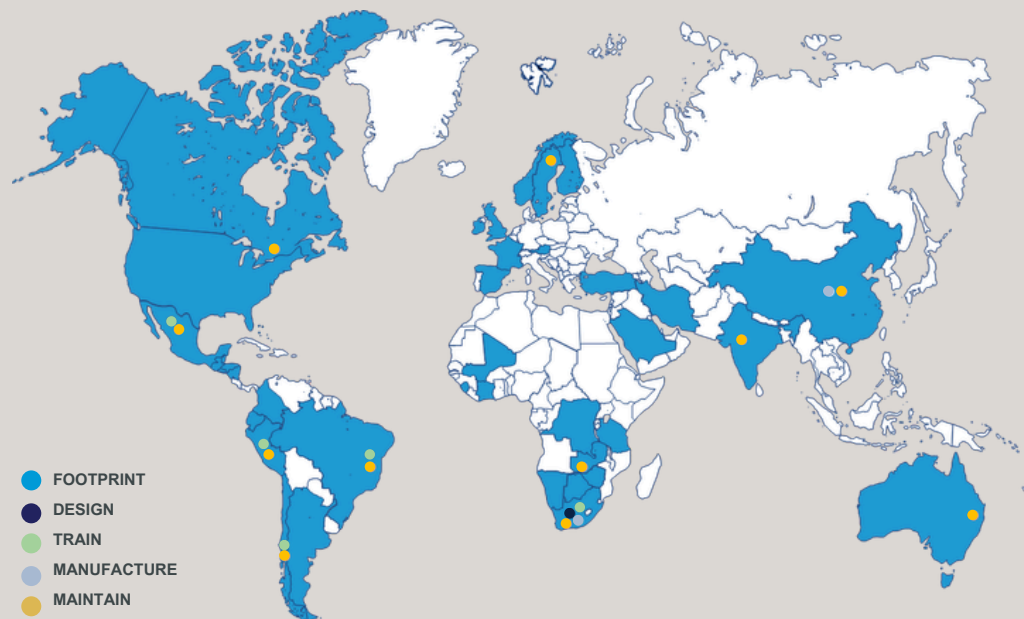


Safety



Our Global Footprint

Master Drilling is a global business, focused on leveraging growth opportunities in key markets. We tailor solutions to meet the specific conditions and geographical challenges faced by our clients.



Master Drilling Australia is experienced in mining, civil and energy operations. We offer industry specific and ground specific expertise and innovative solutions.



Original Equipment Manufacturer

Challenging rock conditions pose no obstacle to Master Drilling. Serving as the OEM for all our drill rigs, equipment and technology, backed by 35 years of dedicated research and development, we eliminate the reliance on third-party OEMs.

This strategic edge empowers Master Drilling to consistently provide tailored, direct solutions and services that perfectly align with client needs and the ever-evolving demands of the industry.

Our Accreditations

Master Drilling Australia proudly holds several ISO accreditations in management systems. Our accreditations signify our unwavering commitment to upholding rigorous industry and company safety standards. These certifications outline our dedication to providing services that meet the highest international standards. We prioritise safety and excellence in every facet of our operations, ensuring the wellbeing of our team and the environment while delivering top-tier solutions to our clients across various industries.



Enabling global identity
Protecting digital trust



ISO accredited, safety-driven and quality-focused. Master Drilling Australia prioritises excellence, adhering to rigorous international standards for your peace of mind.

Our Clients

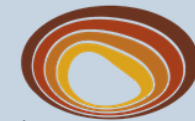
Master Drilling Australia serves major international mining companies across diverse operations. We offer custom solutions in major drilling and engineering works while enhancing safety by eliminating live work. Our commitment to innovation ensures safer and more efficient processes, ultimately benefiting our valued clients and advancing industries.



GLENCORE

GOLD FIELDS

BHP



Evolution
MINING

Newmont™

7

MASTER DRILLING AUSTRALIA / CAPABILITY STATEMENT





📍 Building B, The Garden Office Park,
355 Scarborough Beach Road, Osborne Park WA 6017 Australia

🌐 masterdrilling.au

✉ australia@masterdrilling.com

ABN 46 142 926 092