

## Capability Statement



**TOTAL ENGINEERING SOLUTIONS  
FOR INSTALLATION, CONSTRUCTION,  
AND MAINTENANCE**

# Company Overview



MCA Engineering are specialised providers of total engineering solutions for the mining, industrial, and construction sectors. Building out of a combined six decades of engineering experience from founding Directors Paul Barwick and Andrew Pascoe, MCA has assembled a team of some 120 dedicated, professional experts – becoming one of the most sought after heavy industry contractors in Australia.

We offer access to key personnel across fabrication, construction, and procurement,

supported by a talented management team that ensures every project is delivered to schedule, within budget, and to our client's complete satisfaction.

MCA has the scalable resources to operate nationwide, with offices located in New South Wales, Queensland, and South Australia. We confidently tackle any project, getting the right people on the ground to deliver each and every job with the same innovation and excellence in engineering and construction that's come to be expected from MCA.

## Our Expertise



The MCA team provides a wide range of expertise, with capabilities across engineering, fabrication, mechanical, civil, installation, and construction services. We are dedicated to providing innovative solutions, employing highly qualified operators with a passion for problem solving.

We have significant experience in underground work and are leaders in mine shaft engineering and maintenance. Our equipment and heavy machinery specialists have practicable industry knowledge and are supported by in-house manufacturing, fabrication, and machining facilities.

MCA has a long history of delivering successful projects for our clients, owing in large part to our dedicated, internal Project Management team – a team that brings all of our technical expertise together to ensure a smooth, structured rollout, from conceptual design through to final commissioning.

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AUSTRALIAN OWNED  
AND OPERATED, MCA ARE  
COMMITTED TO INNOVATION  
IN ENGINEERING, SETTING NEW  
BENCHMARKS FOR SAFETY  
AND QUALITY FOR HEAVY  
INDUSTRIES.



## The MCA Difference



MCA is moving the industry forward through innovative engineering practices driven by local, Australian expertise. We approach every single job with the aim of creating the best solution for all stakeholders, combining our specialised experience, creativity, expansive capabilities, and adaptable service to consistently deliver beyond client expectations.

All of our operations are domestically managed, providing nationwide support to small, medium, and large corporations. We understand what it

takes to work within Australian conditions, and we strive to implement every project ethically, sustainably, and with the utmost levels of safety and compliance.

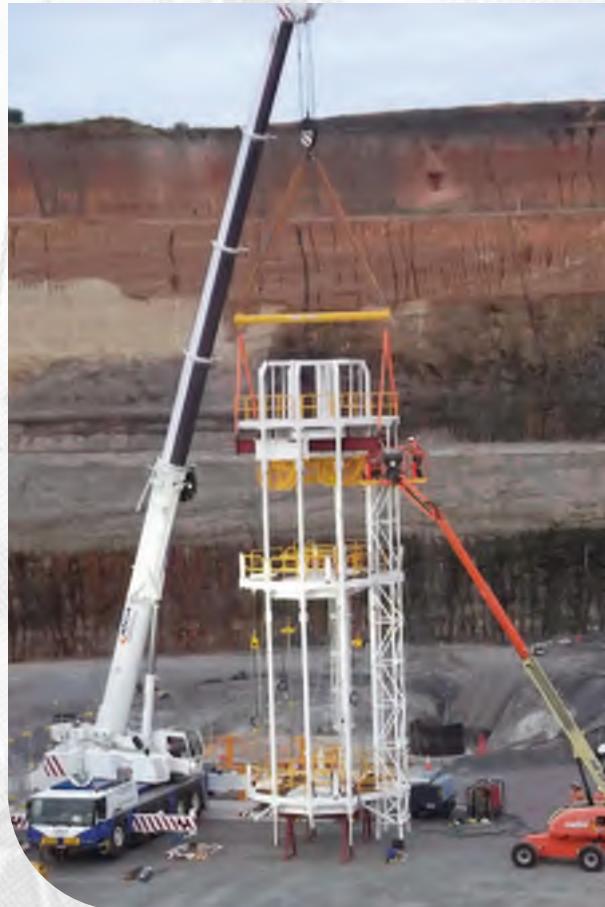
We don't deliver short-sighted solutions. We think toward the future, providing highly engineered answers that deliver on all of our clients' needs whilst offering ongoing benefits for the communities that we serve – and that's the MCA difference.

## Creative Solutions

MCA invests heavily into state-of-the-art equipment and machinery to support the continued design, development, and manufacturing of our high-quality, specialised products.

In our approach, we go beyond conventional engineering, thoroughly analysing all aspects of a project to find the most efficient solution to the problem at hand. Our facilities and workshops are fitted out with powerful, modern technology, including in-house profiling and fabrication equipment, Profile Cutting Systems, and a number of specialised cropping, punching, bending, milling, and lathe machines.

These capabilities are supplemented by strategic alliances with steel suppliers, granting us unmatched turnaround times and full creative freedom to explore every option for our clients. At MCA, we tailor parts and components to specification, uncovering the solutions with the greatest long-term benefit along the way.



## Quality Assured

At MCA, quality assured means expertise and oversight at every step of our process. We have a proven track record of delivering high-quality results, guided by experienced and skilled engineers, tradesmen, assistants, and specialist suppliers. We stand committed to deliver on all of our undertakings, and have received multiple awards for our ability to provide innovative, cost effective, and safe solutions for our clients.

Our engineering approach combines flexibility with innovation, manufacturing products for our clients' every need. MCA's in-house manufacturing means we can ensure that everything is made the MCA way - with the utmost attention paid to quality, performance, and durability. We thoroughly test every product before it's shipped, guaranteeing that we only send our clients fully functional, high-performing parts and equipment.

# Our Services Capabilities

We offer a comprehensive range of services for every industry, from concept design and engineering, through to fabrication, construction, and installation.



## Mine Shaft Services

MCA is one of Australia's leading specialists in mine shaft services. We have a talented team that have implemented many innovative and cost-effective shaft projects, developing a framework for delivery to keep site downtime to a minimum.

Our project methodology demands that a full risk assessment is performed on contract, to both protect our stakeholders and identify the most efficient approach for the task. Coupled with our in-house design and fabrication capabilities, MCA is able to supply all of the ancillary equipment necessary to complete works safely and economically, ensuring a risk-free mine shaft service that runs to planned schedules.



### MCA's mine shaft services include:

- ✓ Guide and head rope changes
- ✓ Fixed guide fabrication, installation, and repair
- ✓ Shaft Services installation and maintenance
- ✓ Sheave changes
- ✓ Winder upgrades and supply
- ✓ Secondary Ground support
- ✓ Underground mine dewatering
- ✓ Conveyance replacement
- ✓ Commissioning and decommissioning
- ✓ Rescue Operations
- ✓ Ongoing shaft Maintenance



## Installation & Construction

MCA brings skilled and experienced civil, mechanical, and electrical engineers to our clients' projects. We have built the core of our business on the ability to deliver reliable, economic installation and construction services, supported by specialised equipment hire and our extensive in-house manufacturing and fabrication capabilities.

Our service is adaptable to project needs and we have an impeccable safety record – no matter the size of the job, MCA delivers quality assured works within schedule and budget.



## Fabrication

All MCA engineering projects are supported by our fabrication facility located in Parkes, NSW. We have invested heavily in state-of-the-art technology to have access to some of the best in-house profile cutting and fabrication equipment available worldwide. This allows us to create customised components on-demand, meaning that we can always meet the quality and scheduling demands of our clients in heavy industries – even as project requirements change.



## Ore Pass Installation

As leading experts in below ground construction, MCA offers end-to-end ore pass installation services for the mining industry. We fully handle the mechanical design and drafting, providing calculations, documents, and drawings, alongside in-house fabrication and Factory Acceptance Testing.

We oversee transportation, on-site assembly, and installation of all components, providing the labour, supervision, and specialised equipment to deliver a turnkey product, including site cleanup and demobilisation.



## Engineering

MCA's engineering team provides technical assistance and cost estimation for, but not limited to, civil, structural, and mechanical scopes of work – from pre-feasibility through to project approval. We offer end-to-end project management and provide detailed engineering design and drafting to meet Australian standards in every state.

Our full capabilities extend across every facet of project delivery, including risk assessment, change management documentation, compliance, costing, safety management, QA documentation, Project schedule budget control – and much more.



## Shutdown & Maintenance

MCA understands the critical nature of shutdown & maintenance works, knowing firsthand the levels of consistent, expert execution needed to provide a reliable service. Our team brings extensive knowledge and experience to assist our clients meet all project demands with minimal disruption, downtime, and capital cost.

MCA offers shutdown & maintenance services across industries, with specialised mining capabilities that include shaft repairs, skip and rope changes, and winder upgrades.

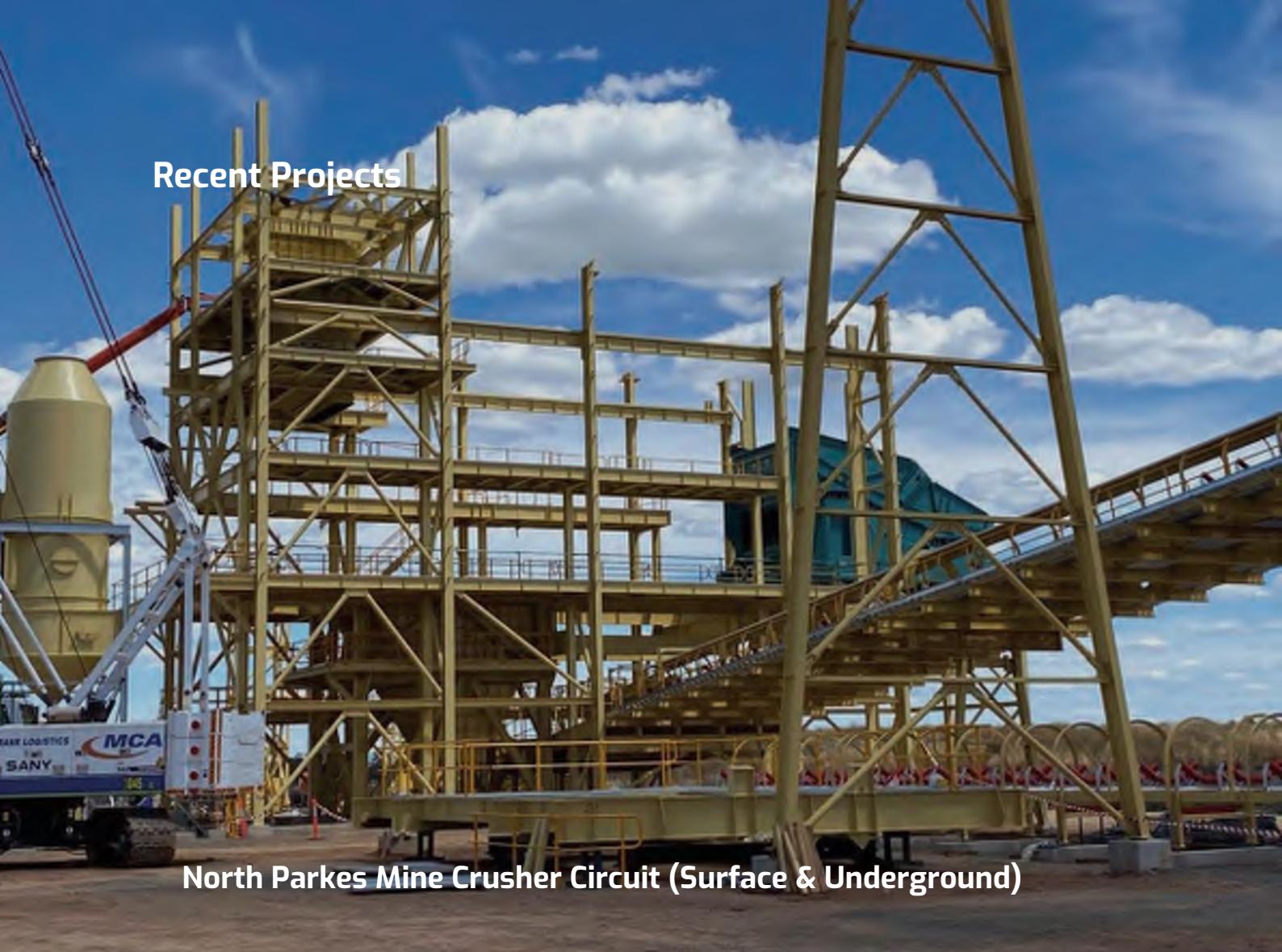


## Civil Concrete Works

MCA is equipped to tackle all civil concreting work, with capabilities across formwork, reinforcement, and pouring. Our qualified, in-house team also offers support for remedial and rectification work, including on site resurfacing, repairs, and sealing for any scale of project – large or small.

These services extend across all commercial works, including rail culverts, grizzly installations, flood ways, underground crusher installations, vent raise foundations, and much more.

## Recent Projects



### North Parkes Mine Crusher Circuit (Surface & Underground)

#### Project Overview

MCA was engaged by the North Parkes Mine for the Structural, Mechanical, and Piping (SMP) construction of their secondary crusher. This project saw the supply of labour and equipment under a self-managed New Public Management (NPM) model, delivered under the guidance of a full management team – inclusive of PM all the way through to T/A's.

The project scope demanded full, on-site construction and installation of an Underground Conveyor handling system, including all supporting infrastructure, which MCA delivered during planned outages to avoid any downtime or impact to mining operations.

The scope of works included:

- ✓ **Underground Conveyor handling system** - Including the installation of gantry modules, ground modules, and all associated tie-ins
- ✓ **Screen building** - All aspects of the SMP, including installation of the banana screen, storage bins, handling system, dust scrubber system, and all hydraulics and services
- ✓ **Crusher building** - All aspects of the SMP, including the crusher, dust scrubber unit, all storage bins, and chutes



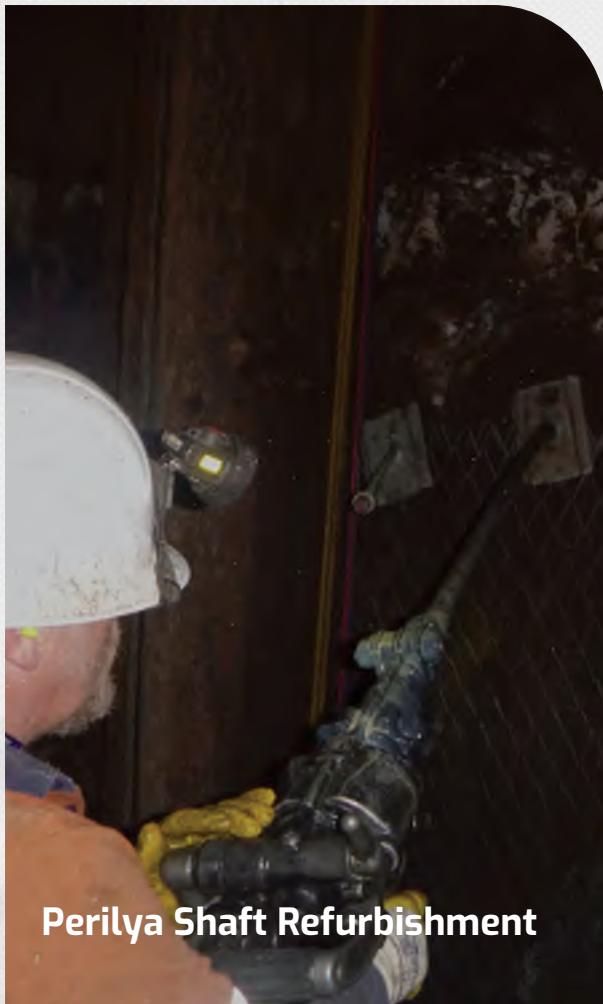
## Vent Fan Foundations

### Project Overview

MCA was engaged by Northparkes CMOC to construct their new Vent Fan Foundation civil works. Situated approximately 23km from North Parkes, the project saw the full supply of labour, materials and equipment to deliver the project within a three-month schedule.

The key construction works completed on this project included:

- ✓ Exhaust & Intake fan installation
- ✓ Civil pad and sump foundations for raise including the use of Micro Piles within poor ground conditions to prevent self mining and raise collapse.
- ✓ Road and fence installation across both fan sites



## Project Overview

MCA is currently engaged by Perilya to provide project management, engineering, and skilled personnel for the rehabilitation of the haulage and services shaft at its Broken Hill south operations.

This project came as a result of a routine MCA shaft inspection, during which visibly evident stresses were found in the shaft walls. In response, MCA planned and implemented a full ground support program to refurbish the facility.

Working from the shaft kibble tops on an engineered platform, MCA has been supporting the shaft walls in sections, following geo-technical specifications. This process has included shaft wall descaling, application of mesh and strapping surface support, and the installation of resin bolts, self drilling anchors (SDAs), and spilling bars.

In addition, MCA is undertaking void management control for the site, addressing risks caused by historic mining activities through grout injection and the installation of an impermeable bulkhead to provide a permanent closure of the void.

## Project Overview

Newcrest approached MCA to install a total of 1500m<sup>3</sup> of detailed concrete footings and structures across numerous projects within their Cadia Ore Pass asset. These projects needed to be delivered within tight schedules of work, requiring us to mobilise a number of Civil Project teams at short notice, with some being up to 50 personnel in size.

During the design phase of the Cadia Ore Pass project, MCA engineers saw an opportunity to save our client a large amount of time and money, leading to the development of a revolutionary new device that would come to be known as the Hydraulic Chain Jacking System.

This system enabled the safe and efficient lowering of ore cans, a specialised innovation that enabled the Cadia Ore Pass project to be completed a full 2 months ahead of schedule compared to previously completed ore passes.





## Project Overview

**The SRS-1200 represents a new benchmark for mine safety in Australia.**

Designed and constructed by local MCA engineers, the SRS-1200 has been purpose built as a dedicated egress and emergency response shaft rescue vehicle. Answering the unique needs of Australia's mining industry, this vehicle is more specialised and more capable than any alternative, able to perform rescues at depths of up to 1200m - further than any fixed crane system.

Every inch of the SRS-1200 design was created in service of the people it was made to protect, exceeding Australian regulations for mine safety to ensure no risks are taken with human lives. Using locally manufactured parts and layers of in-built failsafes, the SRS-1200 ensures one thing above all else - it will always work when it's most needed.

## Capabilities

The SRS-1200 breaks new ground in speed, manoeuvrability, and self-sufficiency. Built as a single, self-contained unit, it uses its own powerful truck engine and onboard backup Hydraulic Power Units to move and power its winch, auxiliary, and communication systems. It performs all functions without any additional parts or equipment, able to be driven on-site without the need of a prime mover.

Rather than installing permanent rescue winches, the SRS-1200 offers a more cost-effective means of egress as it is able to be repositioned as needed, acting as its own anchorage point from wherever its wheels can touch the ground. Its mobility and the speed of its deployment means that it can be relied upon to act as a compliant point of egress for any mining site, able to be used across multiple locations to keep shutdowns and downtime to an absolute minimum.

# Contact Us

## NSW

### HEAD OFFICE

111 Glenwood Drive  
Thornton, NSW 2322  
P: 1300 528 535  
E: [info@mcagroup.com.au](mailto:info@mcagroup.com.au)

### PARKES OFFICE

7-9 Renshaw Road  
Parkes, NSW 2870  
P: +61 2 6863 4424

### BROKEN HILL OFFICE

P: +61 437 265 993

## QLD

### MOUNT ISA OFFICE

7 Davis Road  
Mount Isa, QLD 4825  
P: 1300 528 535  
P: +61 7 4749 3866

