



Mining  
Capability Statement

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<b>Year Established</b>	2011
<b>ABN</b>	48 634 082 572

## About Manuplex

**We deliver excellence in the fabrication, manufacture, installation and maintenance of critical services and infrastructure.**

**We supply a wide range of quality cementitious consumables for underground and open cut mining.**

Founded in the Bowen Basin in 2011, Manuplex developed unique capabilities as underground mining specialists.

Since then, we've built valued partnerships with a wide range of clients. Today, Manuplex supplies comprehensive trade services and bespoke, industry-leading products to the mining industry.



# Mining sector suppliers to the Bowen Basin and beyond

## Industry-leading solutions, with a safety focus that sets us apart.

Manuplex is a capable supplier to underground and open-cut mining, in the field and in the workshop. Our team is at the coal face of industry development.



### VENTILATION

Manuplex are industry leaders in safety-first ventilation products and support services. We take a full lifecycle approach for cost-saving and productivity maximisation.



### STRATA SUPPORT

From our industry-leading Manucan roof support system to our cavity fill solutions and high-quality cement products, Manuplex can provide a safe, simple and unobtrusive operating environment.



### DUSTLESS SYSTEMS

Manuplex is at the forefront of dustless systems for underground mining. Our focus is to improve the removal of airborne contaminants in a mining environment.



### UNDERGROUND ENGINEERING AND FABRICATION

Our workshop engineering and fabrication services keep your underground operation running, from custom-engineered components to consumables, maintenance and repairs. We can manage any size and scale of project, with end-to-end solutions.



### UNDERGROUND SUPPORT SERVICES

Manuplex specialises in outbye and longwall installation and maintenance services, technical support, testing and certification, major fabrication and consumable products.



### OPEN CUT ENGINEERING AND FABRICATION

Manuplex has what it takes to get the job done, from equipment repairs to component fabrication and overhaul. Our facility is located close to the Bowen Basin for fast turnarounds.

# Underground Services and Supplies

**Manuplex specialises in outbye and longwall installation and maintenance services, technical support, testing and certification, major fabrication and consumable products.**

Our services are trusted by top-tier miners on major Bowen Basin sites. We build long-term relationships based on our ability to identify site problems and engineer effective solutions to minimise risk.

Our staff work side by side with your teams, delivering, installing and maintaining our equipment and using our products. They have extensive experience and expertise in using our systems, so they deliver excellent service, with a focus on continuous improvement for your site's productivity.

## Ventilation

### Ventilation Support Services

Our end-to-end service saves you time and reduces costs. We can manage design, engineering, certification, manufacture, installations and testing, plus technical advice for all VCDs. Our VCDs can be fabricated to suit any roadway size or condition.

We go the extra mile to fully understand the complexities and unique attributes of every site. Then we design a solution that meets and exceeds expectation, always with safety as the top priority.

Our specialists have on-site ventilation crew experience, and our team hold current ventilation qualifications including RIIMCU212D Construct & Maintain Basic Ventilation Devices.

### Ventilation Control Devices

Our extensive in-stock components include:

- Rated and unrated stoppings (2, 5, 10psi/14, 35, 69kPa)
- Underpasses
- Coffin seals
- Ladders, ramps, belt over/underpasses
- Overcasts
- Man doors (5psi/ 35kPA)
- Machine doors (air kits supplied)
- Regulators
- Hatches
- Grout seals
- VCD consumables



## Strata Support

Manuplex has decades of underground experience. We help clients overcome longwall mining challenges with comprehensive on-site experience and innovative products and systems. Our R&D team is dedicated to dustless technology and is continually improving and expanding our Section 23-compliant dustless services, systems and products.

### Manucan

Our flagship product, the Manucan, is the strongest secondary roof support can in the global market. It's twice as fast as the nearest competitor to install. At just 50kg, it's a lightweight and long-lasting solution for roof support.

The Manucan is Australian designed, manufactured and installed, as well as compliant to ISO9001.

### Dustless Systems

Manuplex Dustless Systems are designed to remove airborne contaminants that affect the health of underground coal mine workers.

Our Dustless Pump and Spray system reduces contaminants by over 95%, and pumps four times faster than regular systems. We deliver zero production interruptions and lower operating costs.

### Cavity Fill System

Manuplex runs a purpose-built grout blender designed for continuous operation in cavity filling. We maximise efficiency by using alternating batching and delivery systems, with a dust suppression focus.

- Pumps up to 1000m
- Delivers 80m<sup>3</sup> of grout in an 8-hour shift
- Auger-free for simplified operation and reduced maintenance
- Engineered with vacuum-assisted dust suppression

The system can be mobilised on any site, even remote or unestablished sites. Thanks to our in-house supplied flexible power, air and water supply solutions.

Our Cavity Fill experts use the Manuplex HydraGrout 1000 - an in-house blend of a single component shrinkage-compensated Cellular Cementitious-based product.

### Cement Products

Manuplex locally manufactures and supplies our own high-quality cement products for underground mining applications. All products are available in 20kg bags, or 1-1.2 tonne bulk bags, shipped from our Australian manufacturing site.

- Cement Render and Concrete Repair Render
- Shotcrete
- Microfine Cement
- High Yield Grout
- Gunnite (normal and dust-free)

### Strata Consolidation Services

Manuplex has teams of qualified and site-ready personnel ready to work with existing infrastructure at your site and apply our expertise to maintain the integrity of your mine's strata support.

### Dustless Equipment Hire

If you'd like to trial our equipment, or use it for a one-off short project, we'd be happy to discuss hiring our equipment or custom-designing a support package for you.

## Engineering and Fabrication

From longwall support to secondary support, Manuplex's underground specialists can address the entire underground operation - a full surface to seam solution. From design to certification and commissioning, with ongoing maintenance, we deliver the full project or any part you need.

All components are fabricated on-site in our Rockhampton workshop, with welding compliant to AS1554.1. Our trade teams repair and refurbish conveyor structures and components, plus custom-design solutions to solve unique site issues.

The Manuplex workshop is fitted with quality-assured equipment and tooling.

### Workshop capabilities

- 2X 5T Overhead Crane
- 135T Press Brake
- Guillotine
- 80T Punch & Shear
- 450mm Bandsaw

### Component Fabrication

We engineer and fabricate or refurbish any steel underground component including:

- Guarding
- Seals
- Conveyor hand railings and structures
- Access platforms
- QDS attachments

### Machine Overhaul and Maintenance

Manuplex's expert mechanical engineers and fitters provide servicing and full overhauls. Our workshop teams overhaul and maintain all underground equipment, including safety checks and re-commissioning, including:

- Shuttle cars
- Continuous miners
- Continuous miner tails
- Feeder breakers
- Multibolters

### Mechanical Services

Our engineering and fabrication services prioritise quality and installation efficiency, to keep your equipment running with minimum downtime.

- Drafting and engineering
- Hydraulic hose replacement to MDG41
- Electrical system overhaul using accredited AS3800 suppliers
- Non-destructive testing (NDT) using accredited third party.
- Fabrication overhauls and new builds to AS/ NZS1554.1, using latest weld procedures and our pre-qualified boilermakers
- Painting and coating, to recommissioning or OEM standard

### Quick Detach System Attachments

Manufactured locally in our Rockhampton facility, our QDS attachments include:

- Man baskets
- Pipe and underground trailers
- Service, fitter, structure, mesh, lifting and bolt pods
- Duckbills
- Miner carriers and cassettes
- Kibbles, Buckets, Forks
- Cable and hose reelers
- Crib rooms

We can overhaul, refurbish and repair existing QDS attachments, or manufacture bespoke equipment for a new panel to suit your site's needs.

# Open Cut Services and Supplies

**Manuplex delivers comprehensive engineering and fabrication services at sites throughout the Bowen Basin.**

Our facility is located close to the Bowen Basin for fast turnarounds, and our team know site safety inside and out. Team members are fully inducted and ready to work on site or at our workshop.

All fabrication is completed to quality standards. Our modern facilities include 5T overhead cranes, fabrication tooling and our team of expert boilermakers pre-qualified to AS1554.1.

Trust the Manuplex team to create bespoke machine service tools. Anything you need to access and service your on-site equipment - just show us the problem and we'll manufacture a solution.

## Engineering and Fabrication

The Manuplex team can manufacture or repair any component used in an open cut operation, including:

- heavy earthmoving equipment component fabrication, refurbishment and repair
- component overhaul and fabrication
- Coal Handling and Prep Plant (CHPP) component manufacturing and repair, including chutes, access platforms and grizzlys

We're also experienced with:

- platforms and handrail systems
- part assembly
- transport stands
- machine fitment jigs

## Modular Buildings and Camp Facilities

Manuplex delivers fit-for-site modular solutions, easy to transport and install. We provide custom crib rooms, site offices and bathroom facilities, ready to connect to your site infrastructure and expand your capacity.

We also supply temporary or permanent accommodation and workshops - our team of engineers can draft your ideal solution and get it built and on-site fast.

Your teams will appreciate our modern fit-outs, with high-end finishes and appliances, delivered ready for use.



## We're an established leader in mining services and supplies

Celebrating a decade of successful operation in 2021, Manuplex is known for safety, efficiency and innovation.

"Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do."  
~ Pele

## Keeping your team, and ours, safe every day

Our teams are also the ones on the front lines, supporting our key clients. Our strong base of safety policies and procedures meets or exceeds site standards.

We proudly have a zero LTI rate, with over 4,000 days LTI-free.

We work according to our industry-standard accreditations and management systems, including ISO 9001:2015 Quality Management and ISO45001 Health and Safety Management systems. We also comply with Environmental Management ISO14001.

We're Master Builders members and QBCC-licensed.





## Team Manuplex – enterprise values that make us valued partners

Manuplex’s team works across our Rockhampton factory location and on our client’s sites. Our strong value-based culture has built our reputation over the years, and it’s the reason we continue to expand activity across the Bowen Basin.



### SAFETY

Manuplex understands we need to stay healthy as people, as a team, and as an enterprise. Our awareness of best practice helps us anticipate and manage what could go wrong before it does, whether on-site – or off-site – including our physical, mental and emotional wellbeing.



### PRODUCTIVITY

Our systems are proven for efficiency and consistency. We avoid taking time or using muscle when a tool could do a job better or faster. Manuplex strives to always raise the output to input ratio to save time, cost, effort and raise the rewards of what we do.



### INNOVATION

At Manuplex, innovation means acting to maintain relevance to our market and our clients. We ensure we offer value for money – and we seek it ourselves. We seek diversity in our operations too. Repeat business is Manuplex’s indicator that we are delivering innovation to our clients.



### RESPECT

Manuplex values loyalty, so we aim to understand your point of view before asking you to understand ours. Manuplex is transparent in what we say and do. Respect is two-way. But that doesn’t mean it shouldn’t start with us.



### EMPOWERMENT

Manuplex is committed to making quick decisions. To do this, we invest in our people and expect them to invest in themselves. This creates opportunities for our people to accept responsibility with accountability. We update knowledge, skills and systems constantly to ensure our decisions are right decisions.

## Delivering strong, consistent service

Our staff are underground with your crews, delivering, installing and maintaining our equipment, so they understand what is safe and efficient, and how it can be improved. With this in mind, we design, manufacture and build in the most cost and time-effective way possible, consistently delivering an unsurpassed finished product.

## Innovative research and development

Manuplex is at the forefront of dustless equipment research and development in the Bowen Basin, with products undergoing industry trials in partnership with major top-tier miners.

We also design and fabricate bespoke tooling for increased productivity, and we’re happy to tackle any operational challenge.

We’re constantly developing refinements and new innovations to ensure consistent best practice. For example, our dustless pump for underground operation is a ‘first’, reducing airborne contaminants by up to 95%.

## Major Projects



### Glencore: Oaky Creek Ventilation and Support Services

**Year:** 2012 – 2021

**Client:** Glencore

Glencore engaged Manuplex in 2012 for three key services:

- Ventilation Support Services at Oaky Creek Coal
- Fault Consolidation and Face Recovery Services at Oaky Creek Coal
- Secondary Support Services (supplemental labour to longwall, development and outbye)

To date, 100% of our ventilation services have been completed on budget, and all contract obligations met – this ongoing relationship over more than a decade shows Manuplex's strength in delivering long-term excellence.

All VCD fabrications and consumables were supplied directly to the client and sourced locally from our Rockhampton facility, increasing local content and capability while providing a superior product that lasts.



### Aquila Mine Tailgate Seal

**Year:** 2021 – 2022 (ongoing)

**Client:** Anglo American

Manuplex tendered and was awarded the Tailgate 901 Seal Project, as Anglo American's Aquila mine was in the start-up phase.

Prior to longwall start-up, Manuplex was tasked to install (29) 20 Psi seals in the tailgate within a very tight 9 week time frame - this equated to 3-4 seals per week. We supplied specialised ventilation crews to deliver this project on time and within budget.

During this period, we also pivoted to redirect labour and resources for longwall moves, training and upskilling staff to assist the longwall, whilst maintaining our ventilation crew.



## Dust Mitigation

**Year:** 2020 -2022

**Client:** Glencore

With Glencore's support, Manuplex pioneered new technology for dustless plaster spraying in an underground environment - this was the testing ground for our Dustless Plaster Pump.

We engineered, designed and manufactured a new plaster spraying system for underground mines, which eliminates manual handling and reduces airborne contaminants by up to 95%.



## Underground Equipment Overhauls

**Year:** 2014-2022

**Location:** Manuplex Engineering Workshop

**Client:** Ensham (Idemitsu Resources)

Manuplex was engaged to undertake and complete a series of miner tail overhauls for underground deployment at Ensham Mine.

Manuplex stood out from other service providers due to our willingness and ability to re-design OEM products for longer service life. This includes wear plate systems and a complete re-design of critical components, all completed in-house by our team of design specialists.

Manuplex also supplies a series of QDS items to Ensham, with the same long product life approach. Hallmarks of this project are our fast turnaround times and critical attention to detail.



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Manuplex is proud to be associated with these leaders in the mining industry.

