

Capability Statement

Clemcorp
Mining Ventilation

About Clemcorp

Company overview

Founded in 1993, Clemcorp Australia supplies underground mining ventilation equipment, solutions, service and expertise in Australia and internationally.

Our head office, engineering and manufacturing facility is located in Perth, Western Australia. Our 20,000 sq m facility brings together fan design, manufacture, assembly, testing and engineering support.

We specialise in the design, manufacture, hire and supply of high-efficiency fans, ventilation control devices and flexible ventilation ducting for demanding mining applications.

Regions of Supply



Mine sites Agency



Capabilities & Services

Our core competencies

Our engineers and tradespeople bring extensive mining ventilation experience to the supply and installation of turnkey ventilation solutions, supported by a commitment to quality, reliability and workmanship.

Products and engineering

Design and manufacture of axial, centrifugal and mixed-flow fans; ventilation control devices; flexible ducting; and Ventilation on Demand systems and application engineering support.

Installation and lifecycle support

Site installation, commissioning and troubleshooting, together with overhauls, servicing, rebuilding and testing of fan equipment.

Manufacturing and testing

A 20,000 sq m engineering and manufacturing facility with sandblasting, painting, dynamic balancing and rapid prototyping capability. Industrial testing is also available to third-party clients.

Testing Capabilities

High-power electrical infrastructure, instrumentation and engineering support for motors and rotating equipment. See the following page for the latest testing setup.

High-power industrial testing facility

Motor, rotating equipment and industrial machinery testing with multi-megawatt supply capability

20,000	24 t	~4 MW	11 kV	600 kW
m^2 engineering and manufacturing facility	Dual-lift overhead crane capacity	Aggregate supply capacity with generators	Mains test supply available	Variable-speed test capability

Testing and validation

Clemcorp Australia's dedicated industrial testing facility is available for third-party testing, validation and development work.

Our 20,000 m^2 engineering and manufacturing facility incorporates substantial electrical, mechanical and instrumentation infrastructure developed for the testing and validation of large industrial ventilation equipment.

While the facility is primarily used for Clemcorp's own production testing, quality assurance and research and development programs, this capability is also available to clients requiring controlled testing of electric motors, rotating equipment and associated industrial machinery.

Handling and engineering

The test area is serviced by dual-lift 16 t overhead gantry cranes, providing substantial handling capacity for large equipment. Access is provided through a roller door approximately 5.76 m wide × 5.5 m high, and our mechanical and electrical engineering teams are available to assist with installation, electrical connection, instrumentation and test configuration.

Our combination of high-power electrical infrastructure, heavy lifting capability, instrumentation and on-site engineering support allows equipment to be tested under representative operating conditions without many of the logistical constraints associated with field testing.

Discuss your test program

For specialised motor, rotating equipment or industrial machinery testing requirements, contact Clemcorp Australia to discuss the equipment, power requirements and proposed test program.

Electrical, instrumentation & engineering support

Electrical test capability

The facility is supplied by dedicated 415 V, 2 × 1,000 kVA distribution transformers, fed from the local 22 kV Western Power network.

Our low-voltage infrastructure provides:

- Direct-on-line motor starting at 415 V, 690 V and 1,000 V, subject to motor size and starting requirements
- DOL testing of motors up to approximately 110 kW
- Variable-frequency operation using an ABB ACS800 variable speed drive
- Variable-voltage testing at 415 V, 690 V and 1,000 V through a purpose-built VSD output transformer
- Variable-speed testing of loads up to approximately 600 kW

For larger machines, our site substation can provide an 11 kV mains supply, supporting test loads of up to approximately 1.5 MW.

Where additional power is required, the facility can be supplemented with temporary generator capacity. Depending on the test configuration, this can increase the aggregate available electrical supply capacity to approximately 4 MW.

The maximum permissible individual test load depends on the electrical configuration, starting method, voltage, protection settings and equipment characteristics.

The ~4 MW aggregate supply capacity is not a single-machine test rating.





Lake Cowal

Supply of Butterfly Dampers, Louvers & Control Stations

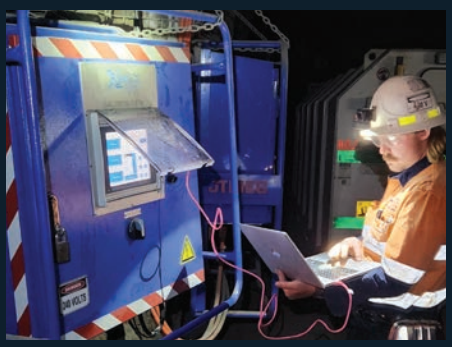
Clemcorp supplied vent control devices to be used underground at the Lake Cowal Gold Mine.

This system included 28 automated butterfly dampers with in-duct ultrasonic airflow sensors and 14 automated louver regulators. 14 custom control stations were also designed, programmed and supplied by Clemcorp.

The system included integrating sensors from Maestro Digital Mine including real time gas and ultrasonic airflow sensors.

Products and services

- Ventilation Fans
- Environmental Telemetry





Sunrise Dam

Mine Primary Ventilation System

Clemcorp Designed and Supplied two CC2650 (1 x 950 kW) 3300 V Booster Fans complete with U/G Wheel Mounted MCC Switchroom with VVVF Drives for use at AngloGold Ashanti's Sunrise Dam Project.

The system includes dual 20t Overhead Monorail Installations, Counterweighted Isolation Dampers and a Maestro Digital Mine Monitoring System.

Products and services

- Ventilation Fans
- Switchroom
- Environmental Telemetry







Byrnecut - Syama

Portal Development

Clemcorp designed and supplied an initial single CC1400Mk4 (2 x 90 kW) Fan for the portal development at Syama Gold Mine.

This was later upgraded to a twin fan installation as the development progressed.

Products and services

- Ventilation Fans







Indonesia

Portal Development

Clemcorp designed and supplied a twin fan parallel mounted portal development solution for a new client in Indonesia.

Supply included 2 x CC1400Mk4 (2 x 110 kW) Fans and Electrical Starters.

Products and services

- Ventilation Fans
- Electrical Switchgear







Boston Shaker

Mine Primary Ventilation System

Clemcorp designed, supplied and installed a future proof primary ventilation system for AngloGold Tropicana.

Complete with 20t twin monorail beams and currently fitted with a CC2400 (1 x 560 kW) Booster Fan.

Products and services

- Ventilation Fans
- Site Installation







Havieron Gold Mine

Supply of Parallel Fan Bulkhead System

Clemcorp designed and supplied a parallel fan set up and associated bulkhead framework. Bulkhead fitted with 3 off CC1400 Mk4 (2x110 kW) with accommodation for a fourth to be added if required.

An airlock door was also supplied to allow personnel access.

Products and services

- Ventilation Fans





Big Bell South Project (Horizontal Fans)

Supply of CC2400 560KW Twin Surface Mounted Fans Including Dual Soft Starter

Clemcorp Australia designed, supplied and delivered a turnkey installation of a surface ventilation system for Big Bell Gold Operations, operated by Westgold Resources Limited.

The ventilation system comprised twin parallel CC2400 axial fans, each rated at 560 kW.

The scope also included electrical switch rooms, and civil and electrical installation in partnership with Quattro and MIE. Clemcorp concluded this project in 2026

Products and services

- Primary Fans
- Soft Starters
- Mechanical and Electrical Install





Big Bell North Project (Vertical Fans)

Supply of 4 Single Stage Vertically Mounted Fans

Clemcorp Australia designed, supplied and delivered a surface ventilation system for Big Bell Gold Operations, operated by Westgold Resources Limited.

The ventilation system comprised four parallel CCl400Mk4 axial fans, each rated at 132 kW. These fans were to be installed vertically on a collar to exhaust air from an existing shaft.

Clemcorp partnered with Quattro to facilitate the install and the removal of the old fan set up, this project concluded in 2026.

Products and services

- Vertical Surface Fans
- Mechanical Install





St Barbara Mines

Environmental Telemetry System for Primary Ventilation Fans

A Vigilante AQS Environmental Telemetry package from Maestro Mine Ventilation in Canada was supplied and retrofitted by Clemcorp to the twin centrifugal primary fans at a St Barbara Mine. The system uses advanced ultrasonic airflow sensors to accurately and reliably measure the fan volume outputs and thus fulfil the obligation to regularly measure fan output in accordance with mines regulations

Products and services

- Environmental Telemetry
- Ventilation Fans
- Site Installation



Kathleen Valley

Turnkey primary surface ventilation

Clemcorp designed, supplied and delivered the primary surface ventilation system for Liontown Resources' Kathleen Valley project.

Two CC3080/1680 fans were installed at separate return-air raise locations, together with electrical switchrooms, HMI and Maestro Vigilante airflow and pressure monitoring. Clemcorp partnered with Quattro and MIE; the project concluded in September 2025.

Products and services

- Primary fans
- Electrical switchrooms
- HMI
- Environmental monitoring

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