



Product  
Catalogue

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# About Clemcorp

## COMPANY OVERVIEW

Clemcorp is a leading supplier of underground ventilation equipment with fans currently in more than 30 countries. We have been assisting mining companies with innovative ventilation solutions across Australia and globally for over 30 years.

The company's head office, engineering and manufacturing facility is located in Perth, Western Australia with additional agencies in South Africa and Mongolia. Our 20,000sqm manufacturing and engineering facility is the largest dedicated fan design and assembly plant in Australia.

We specialize in the design, manufacture, hire and supply of high efficiency Axial, Centrifugal and Mixed flow fans, Ventilation Control Devices and Flexible Ventilation Ducting.

## OUR CORE COMPETENCIES

- > Long standing team of engineers and tradespeople with over 150 years of experience and mining ventilation expertise.
- > Supply and Installation of Turnkey Ventilation Solutions.
- > Capable of large motor testing which is available to hire.
- > Commitment to quality, reliability, efficiency and workmanship.



## OUR CORE PRODUCTS & SERVICES

- › Axial, Centrifugal and Mixed Flow Fans Design and Manufacture.
- › Fan testing including performance testing to ISO 5801.
- › Ventilation on Demand (VOD) Systems and Application Engineering Support.
- › Site Installation and Support.
- › Flexible Ventilation Ducting.
- Design and Manufacture of Various Ventilation Control Devices:
  - › Automated Ventilation Louvre Regulators
  - › Automated Butterfly Damper Regulators
  - › Airlock Doors and Access Doorways
  - › Drop Board Regulators
- › Overhaul, Service and Testing of all fan types.

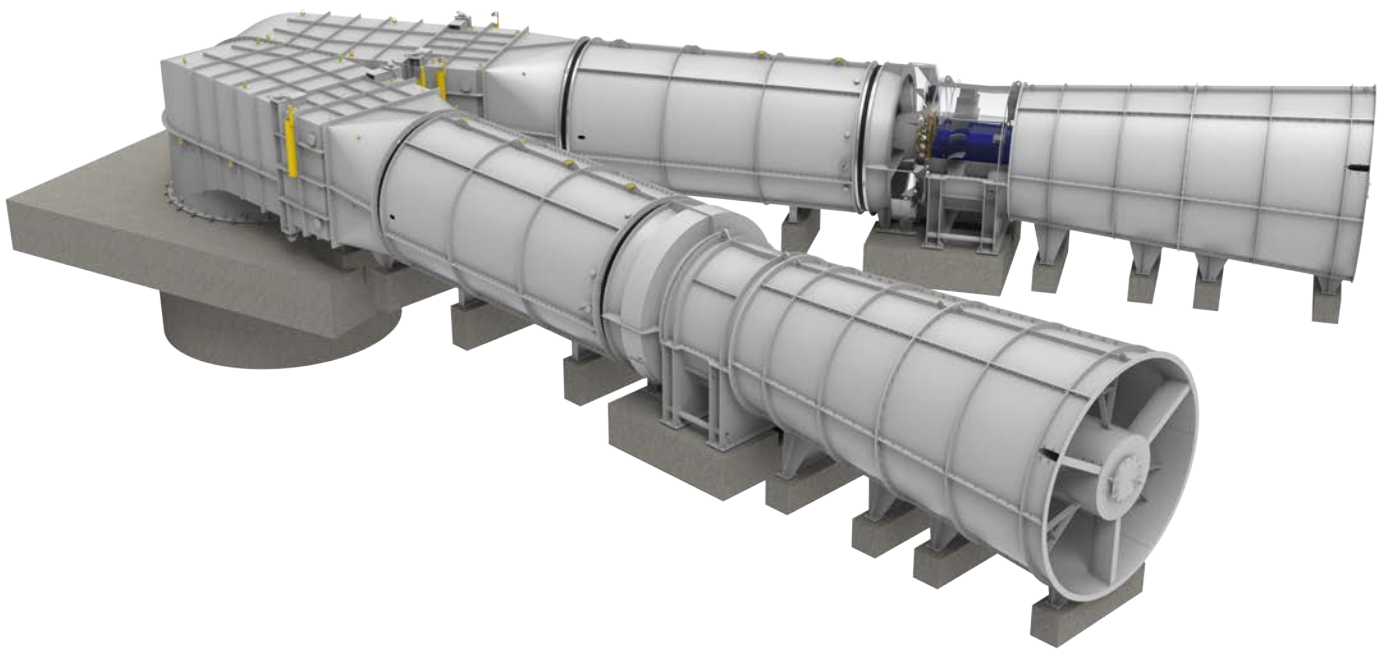
## FACILITIES

- › 20,000m<sup>2</sup> Facility with 5700m<sup>2</sup> under-Roof factory.
- › 4 x 15t Overhead Gantries with dual lifting capacity to 30t.
- › ISO5801 High Capacity Fan Testing Chamber up to 3m in Diameter.
- › In-House Industrial Laboratory testing facilities up to 1,200kW motors.
- › 8m x 10m x 5m Sandblasting Facilities with overhead crane access.
- › 8m x 15m Cross Flow Paint Booth with overhead crane access.
- › Schenk Dynamic Balancers supporting up to 3m Diameter Rotors.
- › Advanced Additive Manufacturing Printers supporting rapid prototyping.

# CC3080

## IN BRIEF

The CC3080 Axial Fan model is currently the largest diameter axial fan manufactured by Clemcorp. Designed specifically to suit the unique rigours of underground metalliferous mine ventilation, we have attained market leading fan efficiencies in the most robust fan structure available anywhere in the industry. The CC3080 can safely operate at up to 745RPM operating speed, allowing the fan to generate high pressures and volumes with a variety of hub sizes.



## KEY POINTS

- 1 Suitable for Horizontal or Vertical Applications
- 2 Fully supported swing away inspection hatches, nose and diffuser fairings
- 3 Adjustable blade pitch and blade solidity to suit a wide range of duties
- 4 Fan Total Efficiency up to 88%
- 5 Flow rates from 200m<sup>3</sup>/s to 400m<sup>3</sup>/s
- 6 Single stage pressures up to 4kPa

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	NO OF BLADES	BLADE ANGLES	MOTOR SIZE
CC3080Mk1 Primary Fan	745RPM (Max)	24	45-65 Degrees	450kW to 1300kW
	745RPM (Max)	12	45-65 Degrees	450kW to 950kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Blade Material	AC601 Aluminium Alloy, SG Iron or SAF2205 Duplex Stainless Steel
Hub Material	AS350 Fabricated Steel
Design	High Efficiency Variable Pitch Castings
Casting Method	Sand and Gravity Feed Casting
Finish	Bare Metal, Epoxy Coatings on Request

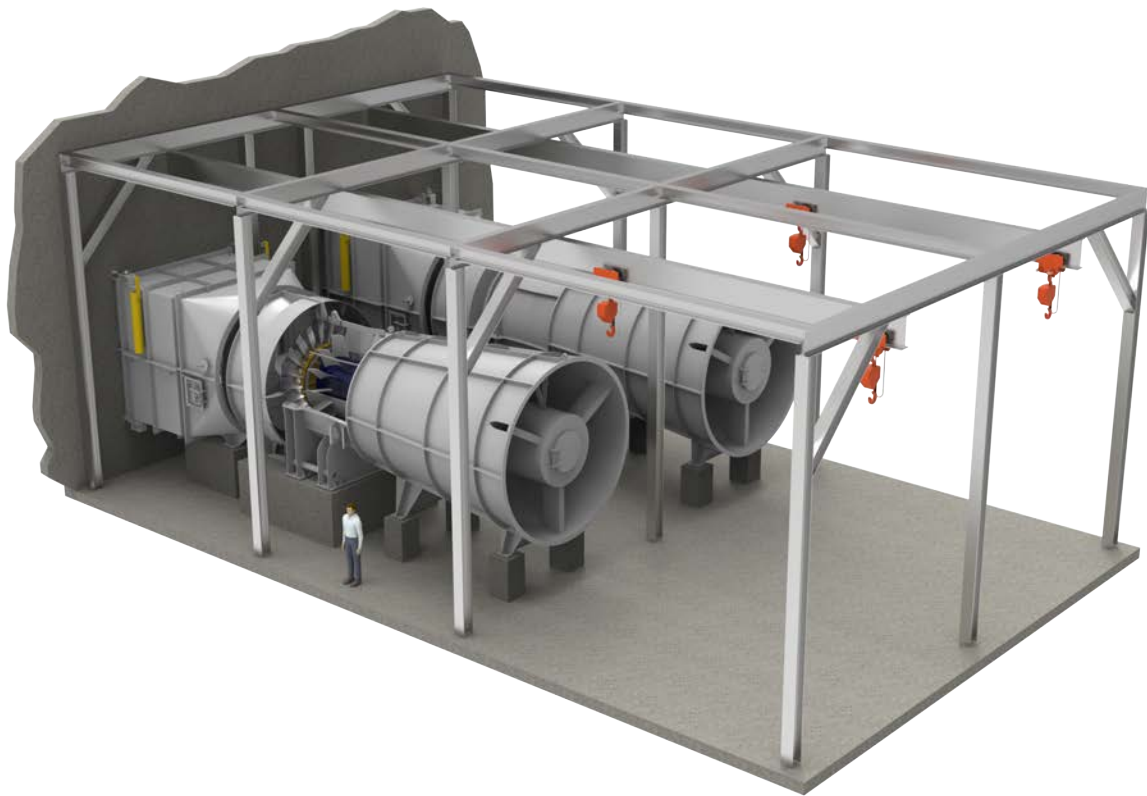
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Vane Axial
Fan Stages	Single or Twin Stage Configurations
Motor Power	450kW to 1300kW
Internal Diameter	3080mm
Casing Thickness	12mm with 25mm Machined Impeller Track
Casing Finish	Painted Interzone 954 Paint Finish on Request
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Rated Lifting Points
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	F Class or H Class Custom Specification
Insulation	Customer Specification
Efficiency	>94%
Voltage	415v, 525v, 690v, 1000v and 3300v
Frequency	50hz or 60hz
Poles	8P, 10P
Speed	745RPM (MAX)
Frame	Up to D630 Frame
Mounting	Foot Mounting
Leads	Varies
Terminal Box	External on Fan Casing

# CC2650

## IN BRIEF

The CC2650 Axial Fan model is one of the largest diameter axial fans manufactured by Clemcorp. Designed specifically to suit the unique rigours of underground metalliferous mine ventilation, we have attained market leading fan efficiencies in the most robust fan structure available anywhere in the industry. The CC2650 can safely run at up to 990RPM operating speed, allowing the fan to generate high pressures and volumes with a variety of hub sizes.



## KEY POINTS

- 1 Suitable for Horizontal or Vertical Applications
- 2 Fully supported swing away inspection hatches, nose and diffuser fairings
- 3 Adjustable blade pitch and blade solidity to suit a wide range of duties
- 4 Fan Total Efficiency up to 88%
- 5 Flow rates from 100m<sup>3</sup>/s to 210m<sup>3</sup>/s
- 6 Single stage pressures up to 7.5kPa

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	NO OF BLADES	BLADE ANGLES	MOTOR SIZE
CC2650Mk1 Primary Fan	990RPM (Max)	22 (Max)	45-65 Degrees	250kW to 1800kW
	990RPM (Max)	11	45-65 Degrees	250kW to 1300kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Blade Material	AC601 Aluminium Alloy, SG Iron or SAF2205 Duplex Stainless Steel
Hub Material	AS350 Fabricated Steel
Design	High Efficiency Variable Pitch Castings
Casting Method	Sand and Gravity Feed Casting
Finish	Bare Metal, Epoxy Coatings on Request

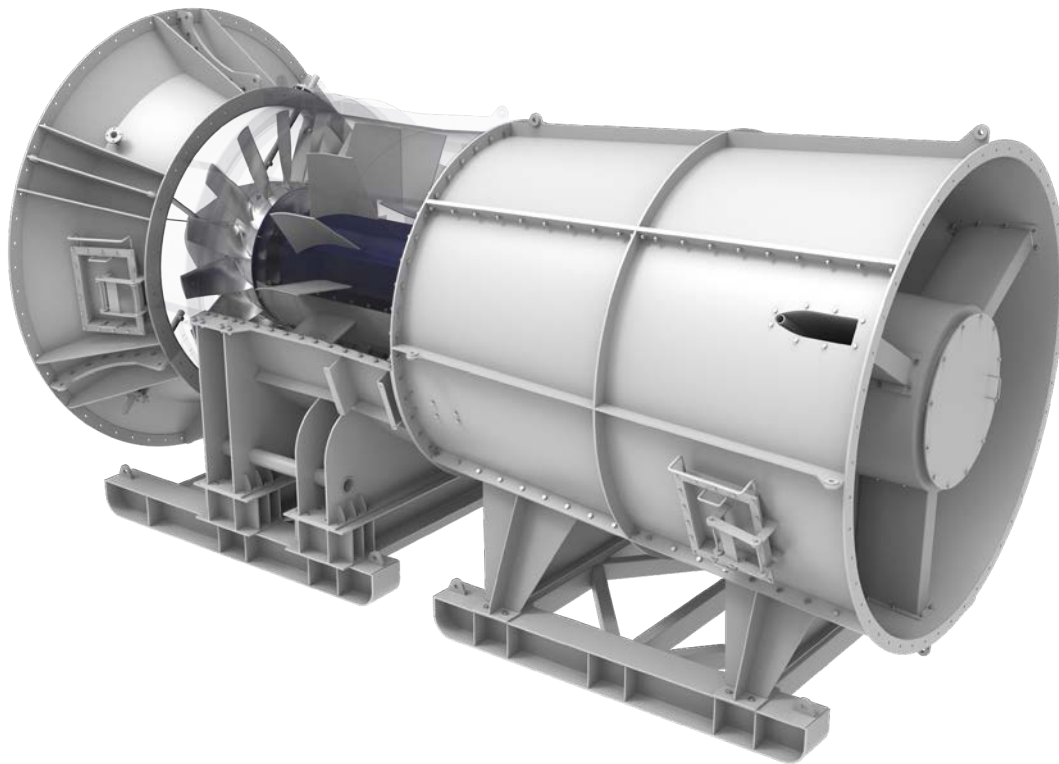
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Vane Axial
Fan Stages	Single or Twin Stage Configurations
Motor Power	250kW to 1800kW
Internal Diameter	2650mm
Casing Thickness	12mm with 25mm Machined Impeller Track
Casing Finish	Painted Interzone 954 Paint Finish on Request
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Rated Lifting Points
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	F Class or H Class Custom Specification
Insulation	Customer Spec
Efficiency	>94%
Voltage	415v, 525v, 690v, 1000v and 3300v
Frequency	50hz or 60hz
Poles	6P, 8P
Speed	745RPM, 990RPM
Frame	Up to D630 Frame
Mounting	Foot Mounting
Leads	Varies
Terminal Box	External on Fan Casing

# CC2400

## IN BRIEF

The CC2400 Axial Fan model is a versatile compact primary ventilation fan suitable for a wide variety of applications. Readily deployable in a sea container loaded solution. The CC2400 is perfect for remote overseas mining operations. Widely deployed and extremely reliable in Australian and overseas conditions, the CC2400 represents an excellent investment for any mining operation.



## KEY POINTS

- 1 Suitable for Horizontal or Vertical Applications
- 2 Fully supported swing away inspection hatches, nose and diffuser fairings
- 3 Adjustable blade pitch and blade solidity to suit a wide range of duties
- 4 Fan Total Efficiency up to 88%
- 5 Flow rates from 100m<sup>3</sup>/s to 210m<sup>3</sup>/s
- 6 Pressures from 500Pa to 3400Pa

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	NO OF BLADES	BLADE ANGLES	MOTOR SIZE
CC2400Mk1 Primary Fan	990RPM	16	45-60 Degrees	250kW to 560kW
	990RPM	8	45-65 Degrees	160kW to 500kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Blade Material	AC601 Aluminium Alloy, SG Iron or SAF2205 Duplex Stainless Steel
Hub Material	AS350 Fabricated Steel
Design	High Efficiency Variable Pitch Castings
Casting Method	Sand and Gravity Feed Casting
Finish	Bare Metal, Epoxy Coatings on Request

<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Vane Axial
Fan Stages	Single or Twin Stage Configurations
Motor Power	160kW to 560kW
Internal Diameter	2400mm
Casing Thickness	8mm with 25mm Machined Impeller Track
Casing Finish	Painted Interzone 954 Paint Finish on Request
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 34mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415v, 525v, 690v and 1000v
Frequency	50hz or 60hz
Poles	6P
Speed	990RPM
Frame	Up to D400 Frame
Mounting	Foot Mounting
Leads	Varies
Terminal Box	External on Fan Casing

# 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 560kW) Booster Fan.

### **PRODUCTS & SERVICES PROVIDED**

- > 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 (2x110kW) with accommodation for a fourth to be added if required. An airlock door was also supplied to allow personnel access.

### **PRODUCTS & SERVICES PROVIDED**

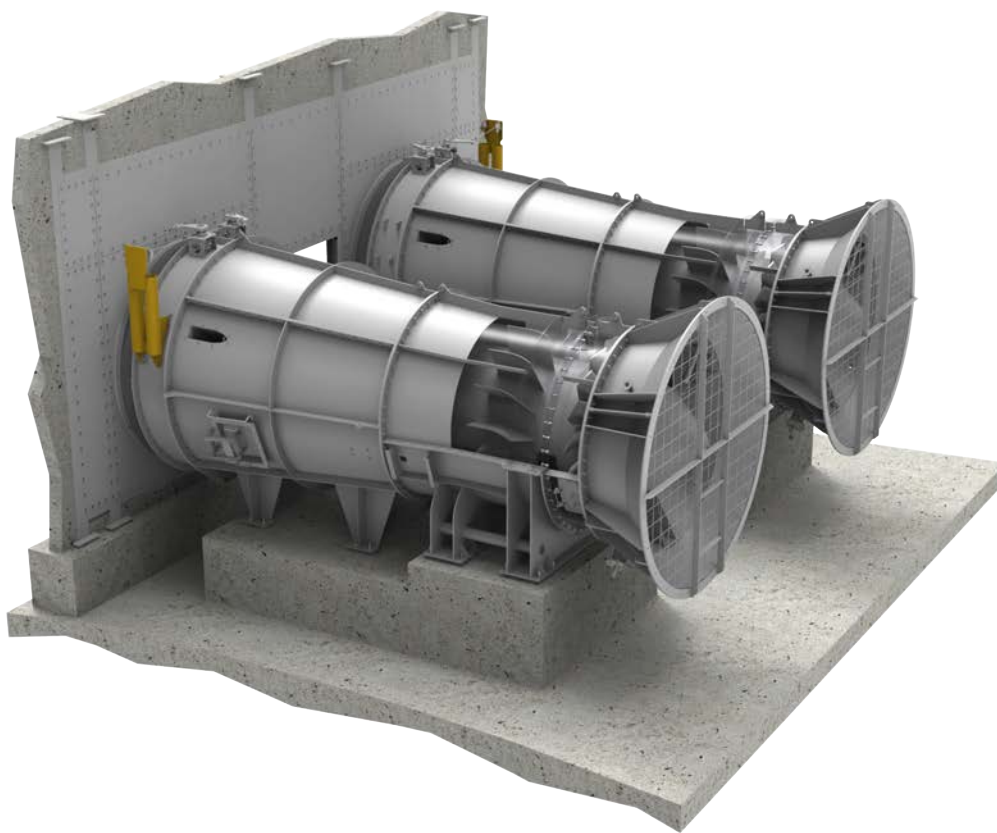
› Ventilation Fans



# CC2200

## IN BRIEF

The CC2200 Axial Fan model is a versatile compact primary ventilation fan suitable for a wide variety of applications. Readily deployable in a sea container loaded solution. The CC2200 is perfect for remote overseas mining operations. Widely deployed and ultra reliable the CC2200 represents a sound investment for any mining operation.



## KEY POINTS

- 1 Suitable for Horizontal or Vertical Applications
- 2 Fully supported swing away inspection hatches, nose and diffuser fairings
- 3 Adjustable blade pitch and blade solidity to suit a wide range of duties
- 4 Fan Total Efficiency up to 88%
- 5 Flow rates from 100m<sup>3</sup>/s to 210m<sup>3</sup>/s
- 6 Pressures from 500Pa to 3400Pa

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	NO OF BLADES	BLADE ANGLES	MOTOR SIZE
CC2200Mk1 Primary Fan	990RPM	16	45-65 Degrees	250kW to 560kW
	990RPM	8	45-65 Degrees	160kW to 500kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Blade Material	AC601 Aluminium Alloy, SG Iron or SAF2205 Duplex Stainless Steel
Hub Material	AS350 Fabricated Steel
Design	High Efficiency Variable Pitch Castings
Casting Method	Sand and Gravity Feed Casting
Finish	Bare Metal, Epoxy Coatings on Request

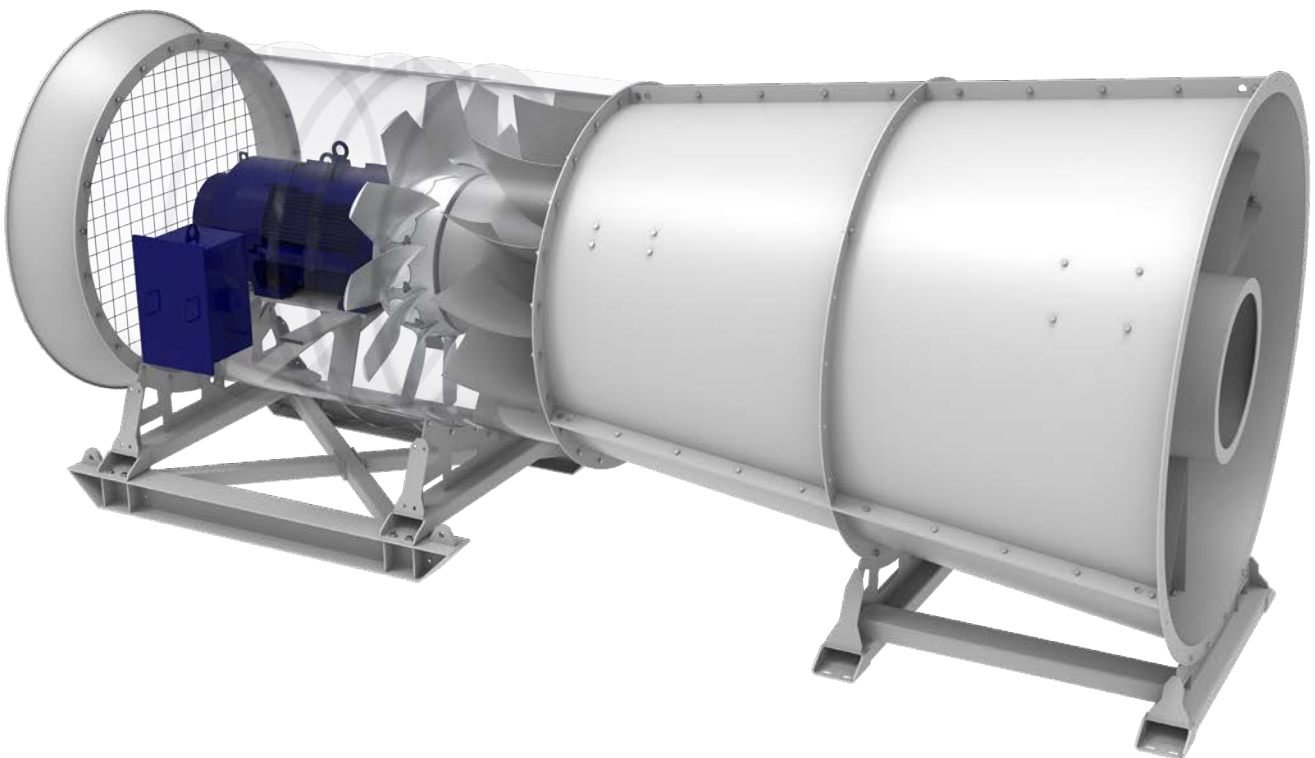
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Vane Axial
Fan Stages	Single or Twin Stage Configurations
Motor Power	160kW to 560kW
Internal Diameter	2200mm
Casing Thickness	8mm with 25mm Machined Impeller Track
Casing Finish	Painted Interzone 954 Paint Finish on Request
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 34mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415v, 525v, 690v and 1000v
Frequency	50hz or 60hz
Poles	6P
Speed	990RPM
Frame	Up to D400 Frame
Mounting	Foot Mounting
Leads	Varies
Terminal Box	External on Fan Casing

# CC1800

## IN BRIEF

The newly designed CC1800 Axial Fans are designed specifically for booster applications. Available as single or twin stage configurations with flow rates up to 105m<sup>3</sup>/s and pressures up to 4kPa per stage. The CC1800 is a variable pitch design capable of a wide range of duties and applications.



## KEY POINTS

- 1 Co-Rotating Design
- 2 Booster Fan Applications
- 3 Variable Pitch Blade Adjustment
- 4 Machined Impeller Track
- 5 Modular Single or Twin Stage Configurations
- 6 Flow Rates from 35m<sup>3</sup>/s to 105m<sup>3</sup>/s
- 7 Pressures from 500Pa to 4000Pa per Stage

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	NO OF BLADES	BLADE ANGLES	MOTOR SIZE
CC1800Mk1 Axial Booster Fan	1495RPM	12	42 - 57 Degrees	160kW to 400kW
	1495RPM	6	42 - 62 Degrees	110kW to 350kW
	990RPM	12	62 - 72 Degrees	150kW to 220kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Blade Material	AC601 Aluminium Alloy or SG Iron
Hub Material	SG Iron Cast Hub
Design	High Efficiency Variable Pitch Castings
Casting Method	Sand and Gravity Feed Casting
Finish	Bare Metal, Epoxy Coatings on Request

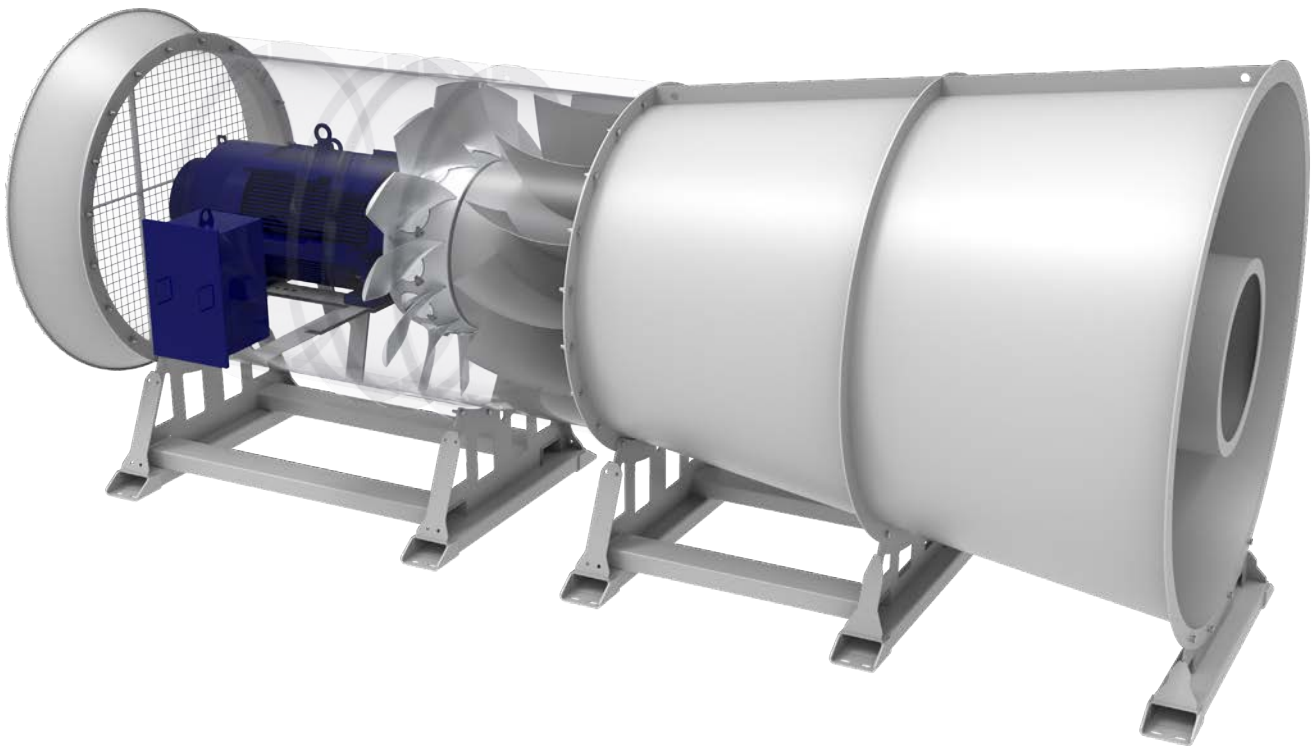
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Co-Rotating
Fan Stages	Single or Twin Stage Configurations
Motor Power	110kW to 300kW
Internal Diameter	1800mm
Casing Thickness	8mm with 20mm Machined Impeller Track
Casing Finish	Painted Interzone 954 Paint Finish on Request
Flange OD	1986mm
Hole PCD	1900mm
Number of Holes	24
Hole Size	22mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz (6P Operation Only @ 60Hz)
Poles	4P, 6P
Speed	990RPM / 1475RPM
Frame	D280 to D350
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC1600

## IN BRIEF

The newly designed CC1600 Axial Fans are designed specifically for ducted applications and booster applications. Available as single or twin stage configurations with flow rates up to 75m<sup>3</sup>/s and pressures up to 4kPa per stage. The CC1600 is a variable pitch design capable of a wide range of duties and applications.



## KEY POINTS

- 1 Co-Rotating Design
- 2 Ducted and Booster Applications
- 3 Variable Pitch Blade Adjustment
- 4 Modular Single or Twin Stage Configurations
- 5 Flow Rates from 30m<sup>3</sup>/s to 75m<sup>3</sup>/s
- 6 Pressures from 400Pa to 4000Pa per Stage

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	NO OF BLADES	BLADE ANGLES	MOTOR SIZE
CC1600Mk1 Axial Fan	1495RPM	1	12	42 - 57 Degrees	110kW to 220kW
	1495RPM	2	12	42 - 62 Degrees	2 x 110kW to 2 x 220kW
	1495RPM	1	6	62 - 72 Degrees	110kW to 220kW
	1495RPM	2	6	62 - 72 Degrees	2 x 110kW to 2 x 220kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Blade Material	AC601 Aluminium Alloy or SG Iron
Hub Material	SG Iron Cast Hub
Design	High Efficiency Variable Pitch Castings
Casting Method	Sand and Gravity Feed Casting
Finish	Bare Metal, Epoxy Coatings on Request

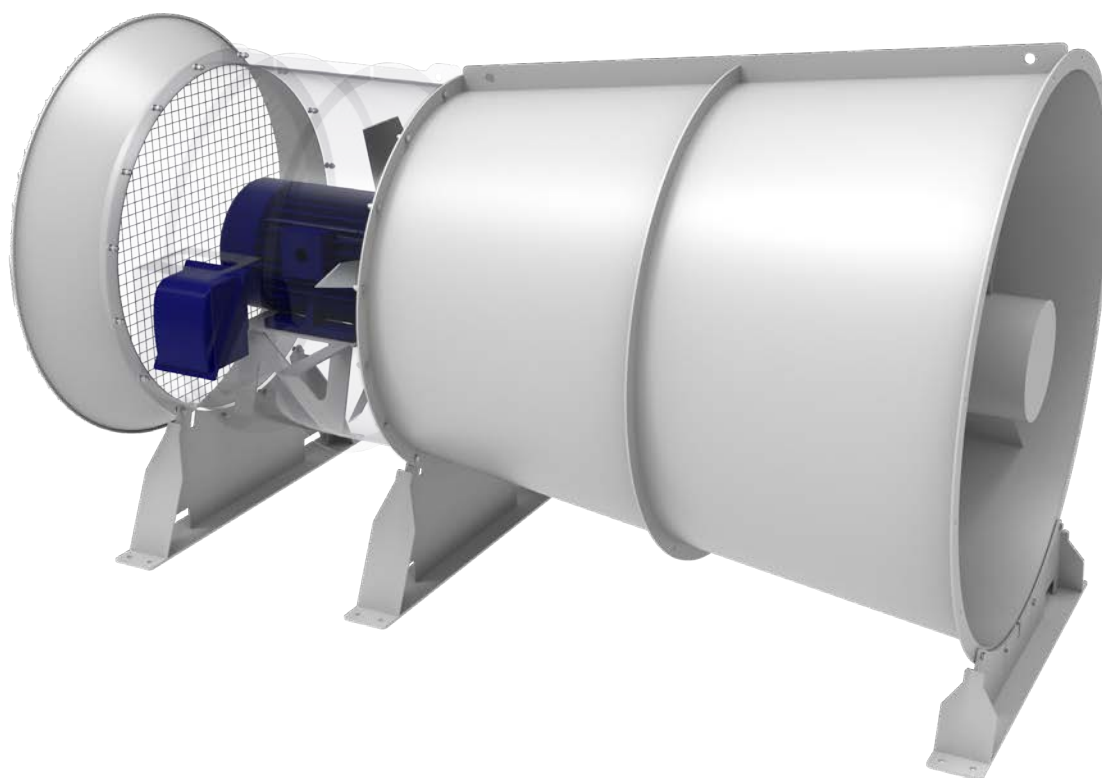
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Co-Rotating
Fan Stages	Single or Twin Stage Configurations
Motor Power	110kW to 220kW
Internal Diameter	1600mm
Casing Thickness	8mm
Casing Finish	Galvanised
Flange OD	1776mm
Hole PCD	1700mm
Number of Holes	20
Hole Size	22mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz (6P Operation Only @ 60Hz)
Poles	4P, 6P
Speed	990RPM / 1475RPM
Frame	D280 to D315
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC1524

## IN BRIEF

The CC1524 Series of Axial Fans are designed for low pressure booster applications. Utilising a high efficiency variable pitch impeller the CC1524 is available in a variety of sizes to match the desired duty. Available only as single stage fans.



## KEY POINTS

- 1 Tube Axial Fan Design
- 2 Booster Applications Only
- 3 Variable Pitch Impeller
- 4 Single Stage Configurations
- 5 1495RPM, 990RPM or 785RPM
- 6 Flow Rates from 10m<sup>3</sup>/s to 60m<sup>3</sup>/s
- 7 Pressures from 50Pa to 1300Pa

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAK PRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC1524 Single Stage Tube Axial	1495RPM	1	1.4kPa	65m <sup>3</sup> /s	28 Degrees	1 x 110kW
	1495RPM	1	1.4kPa	58m <sup>3</sup> /s	25 Degrees	1 x 90kW
	1495RPM	1	1.5kPa	51m <sup>3</sup> /s	22 Degrees	1 x 75kW
	1495RPM	1	1.5kPa	45m <sup>3</sup> /s	19 Degrees	1 x 55kW
	1495RPM	1	1.5kPa	38m <sup>3</sup> /s	16 Degrees	1 x 45kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	AC601 Aluminium Alloy
Design	Variable Pitch
Casting Method	Sand Casting
Finish	Bare Aluminum, Epoxy Coatings on Request

<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Tube Axial
Fan Stages	Single Stage Operation
Motor Power	30kW to 110kW
Internal Diameter	1524mm
Casing Thickness	6mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	1670mm
Hole PCD	1610mm
Number of Holes	16
Hole Size	22mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz
Poles	4P, 6P
Speed	1485RPM, 990RPM
Frame	D225, D250, D280
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

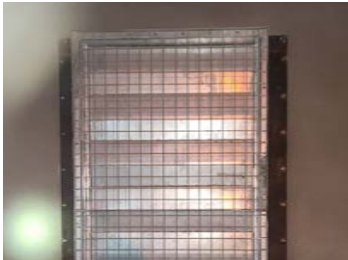
# Lake Cowal

## 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 & SERVICES PROVIDED

- > Ventilation Control Devices
- > Environmental Telemetry



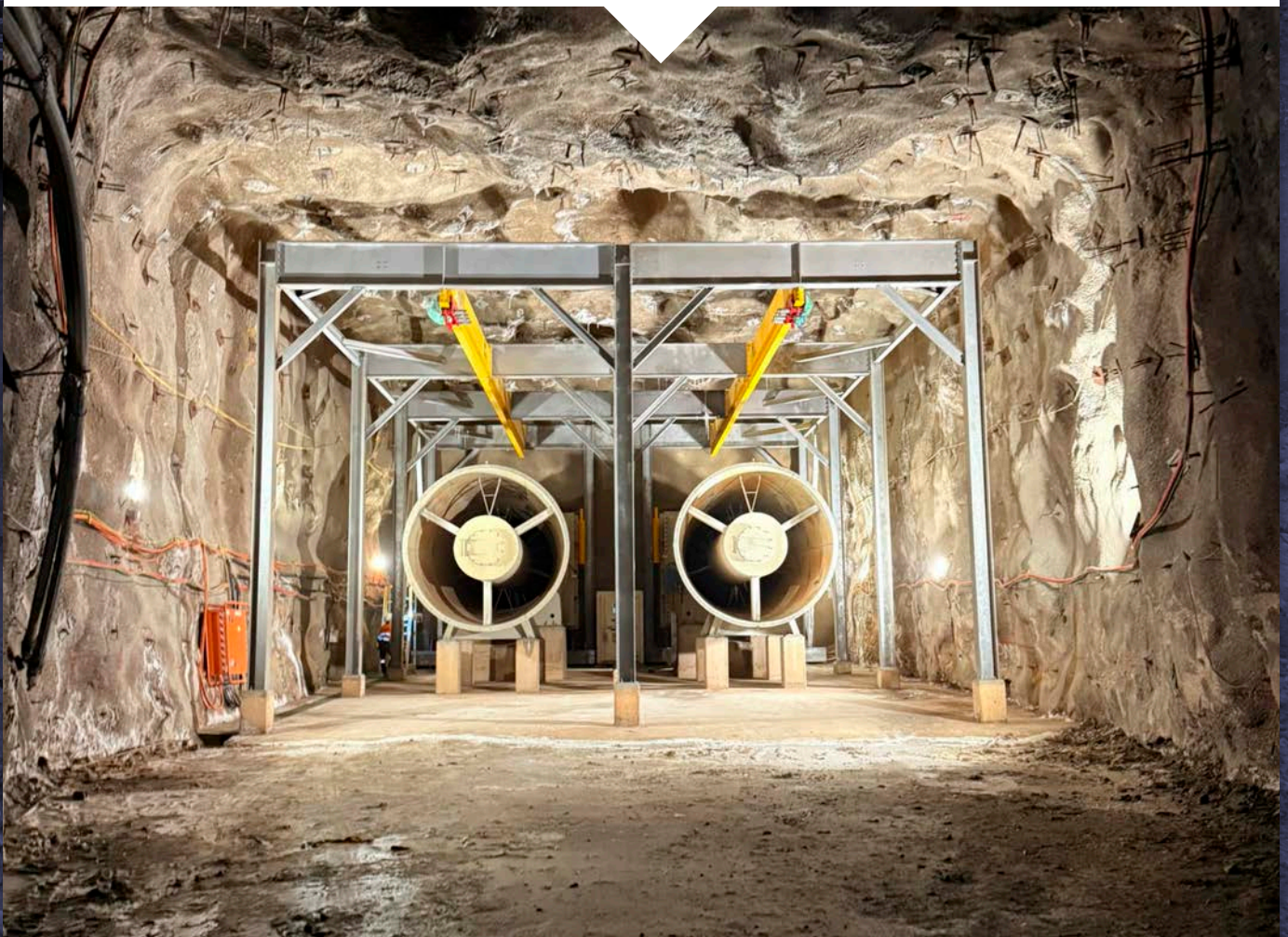
# Sunrise Dam

## Mine Primary Ventilation System

Clemcorp Designed and Supplied two CC2650 (1 x 950kW) 3300V 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 & SERVICES PROVIDED

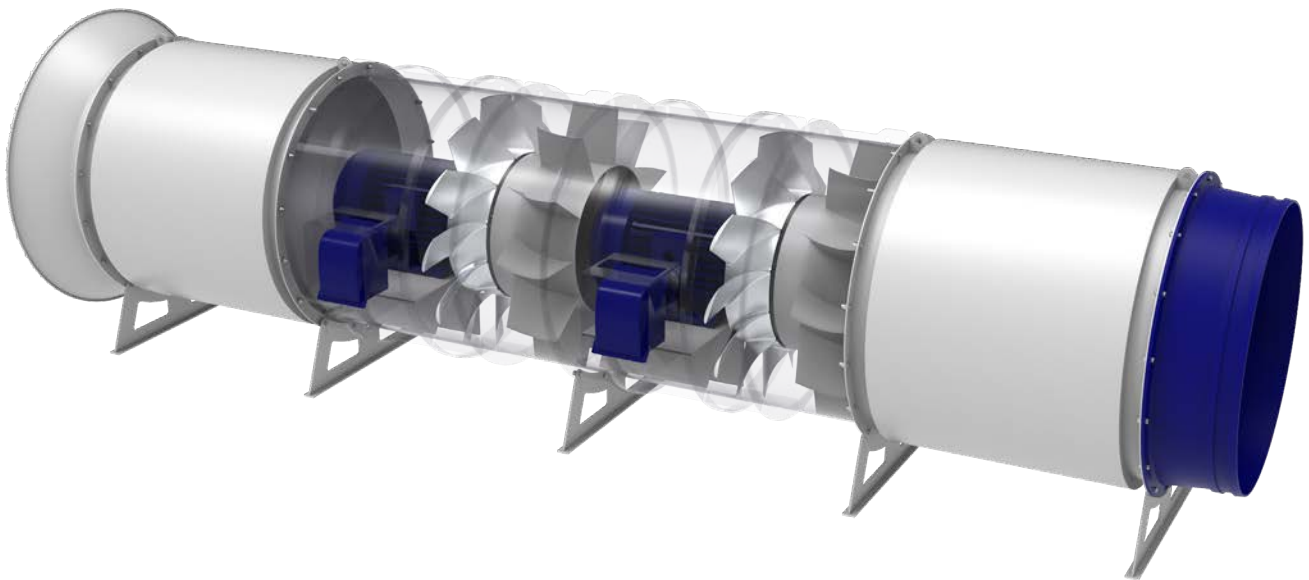
- > Ventilation Fans
- > Switchroom
- > Environmental Telemetry



# CC1400

## IN BRIEF

The CC1400Mk4 Series of Axial Fans have been a staple of the mining industry for the past 20 years. Designed specifically for demanding underground conditions the CC1400Mk4 has been used in mechanised mines worldwide. Available as single, twin or triple stage configurations with flow rates up to 57m<sup>3</sup>/s and pressures up to 2.7kPa per stage. The CC1400Mk4 uses fixed pitch vacuum cast impellers for increased efficiency and longevity.



## KEY POINTS

- 1 Co-Rotating Design
- 2 Ducted and Booster Applications
- 3 Fixed Pitch One Piece Castings
- 4 Modular Single or Twin Stage Configurations
- 5 Flow Rates from 30m<sup>3</sup>/s to 57m<sup>3</sup>/s
- 6 Pressures from 250Pa to 2700Pa per Stage

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	NO OF BLADES	BLADE ANGLES	MOTOR SIZE
CC1400Mk4	1495RPM	1	12	Fixed Pitch	90kW-132kW
	1495RPM	2	12	Fixed Pitch	90kW-132kW
	1495RPM	3	12	Fixed Pitch	90kW-132kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	AC601 Aluminium Alloy
Design	High Efficiency Fix Pitch One Piece Castings
Casting Method	Vacuum Casting
Finish	Bare Aluminum, Epoxy Coatings on Request

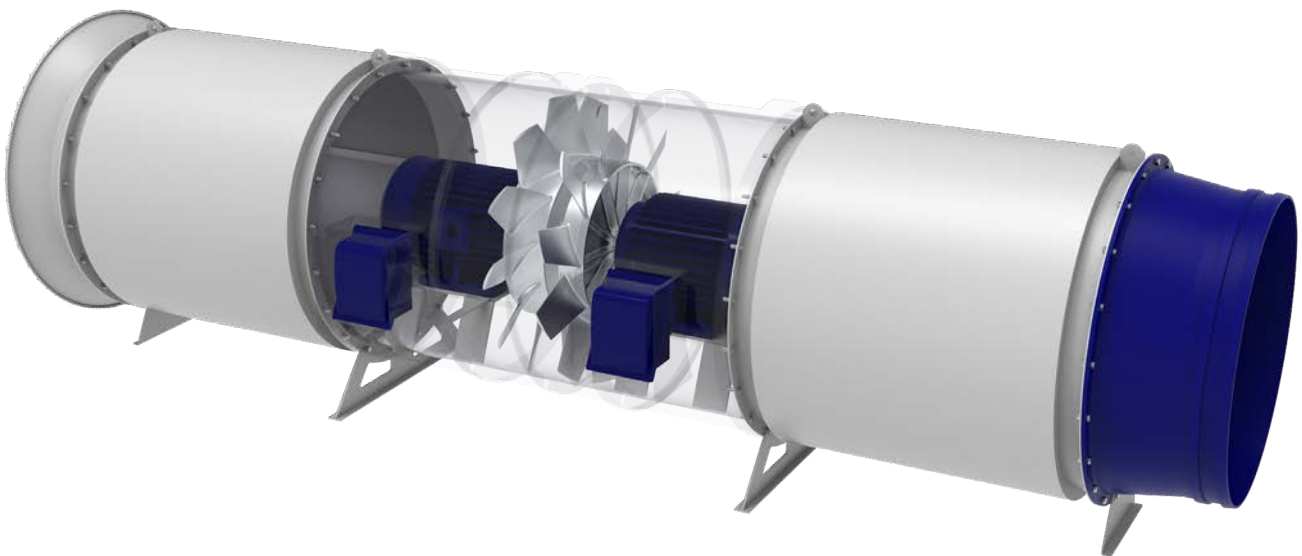
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Co-Rotating
Fan Stages	Single, Twin or Triple Stage Configurations
Motor Power	90kW, 110kW or 132kW Per Stage
Internal Diameter	1400mm
Casing Thickness	6mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	1542mm
Hole PCD	1488mm
Number of Holes	16
Hole Size	22mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz
Poles	4P
Speed	1485RPM
Frame	D280 / D315
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC1254

## IN BRIEF

The CC1254Mk3 Series of Axial Fans have been used in the mining industry for the past 25 years. Designed specifically for demanding underground conditions the CC1254Mk3 has been used in mechanised mines worldwide. Available as single or twin stage with flow rates up to 35m<sup>3</sup>/s and pressures up to 1.6kPa per stage. The CC1254Mk3 uses fixed pitch vacuum cast impellers for increased efficiency and longevity.



## KEY POINTS

- 1** Contra Rotating Design
- 2** Ducted Applications
- 3** Fixed Pitch One Piece Castings
- 4** Single or Twin Stage Configurations
- 5** Flow Rates from 22m<sup>3</sup>/s to 42m<sup>3</sup>/s
- 6** Pressures from 150Pa to 1600Pa per Stage

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAK PRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC1254Mk3 Axial Fan Twin Stage	1495RPM	2	4.5kPa	42m <sup>3</sup> /s	Fixed Pitch	2 x 75kW
CC1254Mk3 Axial Fan Twin Stage	1495RPM	2	4.0kPa	34m <sup>3</sup> /s	Fixed Pitch	2 x 55kW
CC1254Mk3 Axial Fan Single Stage	1495RPM	1	1.8kPa	40m <sup>3</sup> /s	Fixed Pitch	1 x 75kW
CC1254Mk3 Axial Fan Single Stage	1495RPM	1	1.8kPa	33m <sup>3</sup> /s	Fixed Pitch	1 x 55kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	AC601 Aluminium Alloy
Design	High Efficiency Fix Pitch One Piece Castings
Casting Method	Vacuum Casting
Finish	Bare Aluminium, Epoxy Coatings on Request

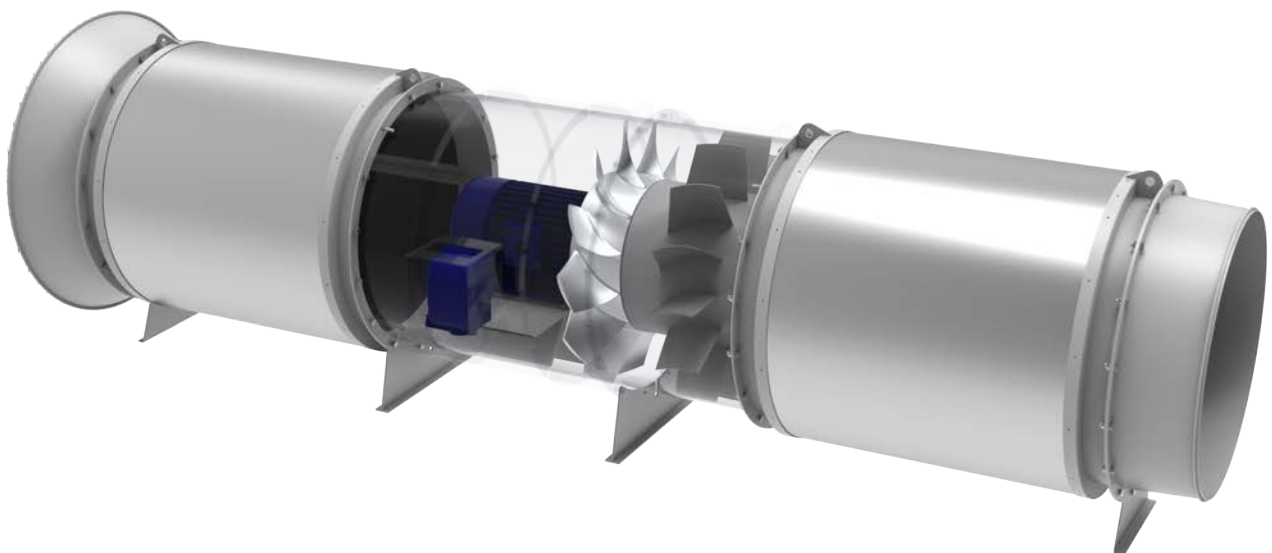
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Contra-Rotating
Fan Stages	Single or Twin Stage Configurations
Motor Power	55kW or 75kW Per Stage
Internal Diameter	1260mm
Casing Thickness	6mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	1380mm
Hole PCD	1320mm
Number of Holes	20
Hole Size	18mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz
Poles	4P
Speed	1485RPM / 1785RPM
Frame	D250 / D280
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC1070

## IN BRIEF

The CC1070Mk2 is a newly designed series of vane Axial Fans. Designed specifically for demanding underground conditions the CC1070Mk2 is tailored for ducted applications and long pushes. Available as single or twin stage with flow rates up to 32m<sup>3</sup>/s and pressures up to 2kPa per stage. The CC1070 uses fixed pitch cast impellers for increased efficiency and longevity.



## KEY POINTS

- 1 Co-Rotating High Efficiency Design
- 2 High Pressure Applications
- 3 Fixed Pitch One Piece Castings
- 4 Single or Twin Stage Configurations
- 5 Flow Rates from 13m<sup>3</sup>/s to 32m<sup>3</sup>/s
- 6 Pressures from 200Pa to 2000Pa per Stage

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAK PRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC1070Mk2 Axial Fan Twin Stage	1495RPM	2	4kPa	32m <sup>3</sup> /s	65 Degrees	2 x 55kW
CC1070Mk2 Axial Fan Twin Stage	1495RPM	2	3.8kPa	29m <sup>3</sup> /s	60 Degrees	2 x 45kW
CC1070Mk2 Axial Fan Twin Stage	1495RPM	2	3.4kPa	23m <sup>3</sup> /s	50 Degrees	2 x 30kW
CC1070Mk2 Axial Fan Single Stage	1495RPM	1	2kPa	32m <sup>3</sup> /s	65 Degrees	1 x 55kW
CC1070Mk2 Axial Fan Single Stage	1495RPM	1	1.9kPa	29m <sup>3</sup> /s	60 Degrees	1 x 45kW
CC1070Mk2 Axial Fan Single Stage	1495RPM	1	1.7kPa	23m <sup>3</sup> /s	50 Degrees	1 x 30kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	Aluminium Alloy
Design	High Efficiency Fix Pitch One Piece Castings
Casting Method	Vacuum Moulding
Finish	Bare Aluminium, Epoxy Coatings on Request

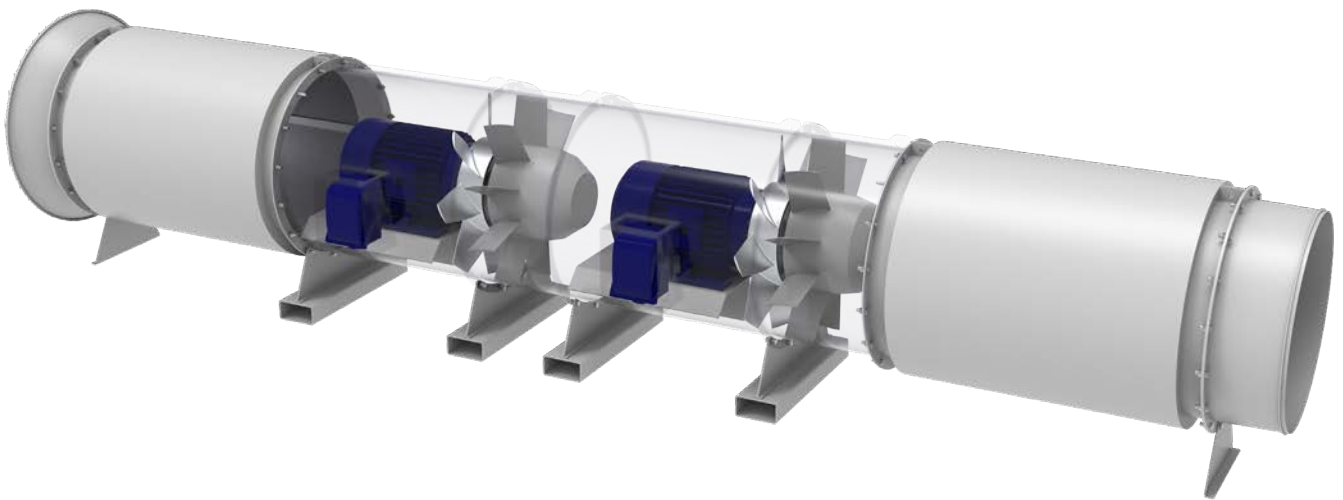
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Co-Rotating
Fan Stages	Single or Twin Stage Configurations
Motor Power	30kW 45kW or 55kW Per Stage
Internal Diameter	1067mm
Casing Thickness	6mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	1185mm
Hole PCD	1125mm
Number of Holes	16
Hole Size	18mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz
Poles	4P
Speed	1485RPM
Frame	D200 / D225
Mounting	Flange Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC925

## IN BRIEF

The CC925 Series of High Pressure Axial Fans have been used in the mining industry for the past 15 years. Designed specifically for high pressure applications the CC925 is tailored towards areas with low clearances and small duct diameter. Available as single, twin or Triple stage with flow rates up to 18m<sup>3</sup>/s and pressures up to 3.6kPa per stage. The CC925 uses fixed pitch sand cast one piece impellers for increased efficiency and longevity.



## KEY POINTS

- 1 Co-Rotating Design

2 Ducted Applications

3 Fixed Pitch One Piece Castings
- 4 Single or Twin Stage Operation

5 Flow Rates from 17m<sup>3</sup>/s to 4m<sup>3</sup>/s

6 Pressures from 1000Pa to 3600Pa per Stage

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAKPRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC925 Axial Fan Twin Stage	2995RPM	2	6.4kPa	17m <sup>3</sup> /s	Fixed Pitch	2 x 45kW
CC925 Axial Fan Single Stage	2995RPM	1	3.7kPa	17m <sup>3</sup> /s	Fixed Pitch	1 x 45kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	AC601 Aluminium Alloy
Design	High Efficiency Fix Pitch One Piece Castings
Casting Method	Sand Casting
Finish	Bare Aluminium, Epoxy Coatings on Request

<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Co-Rotating
Fan Stages	Single or Twin Stage Configurations
Motor Power	45kW Per Stage
Internal Diameter	900
Casing Thickness	8mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	1006mm
Hole PCD	960mm
Number of Holes	16
Hole Size	18mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz
Poles	2P
Speed	2995RPM
Frame	D225
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# Spotted Quoll Installation

## *Mine Primary Ventilation System*

Three 2.26m diameter 470kW axial fans were overhauled by Clemcorp to meet the primary ventilation requirements at Spotted Quoll. All fans were fully tested at our factory in Landsdale then installed and commissioned by the Clemcorp Team. Scope included fan overhaul and testing, civil design, project management, construction and installation.

### **PRODUCTS & SERVICES PROVIDED**

- › Overhaul, Re-Assembly and Testing
- › Civil Installation and Project Management
- › Mechanical Installation



# Doray Minerals

## Mine Primary Ventilation System

One 2.8m diameter 600kW axial fan was decommissioned by Clemcorp and overhauled at our West Australian facility. The fan was fully tested and subsequently installed at an alternate site by the Clemcorp Team.

### PRODUCTS & SERVICES PROVIDED

- > Overhauls-Rebuild and Re-Manufacture
- > Site Installation and Commissioning



# CC850

## IN BRIEF

The CC850 Series of Low Pressure Axial Fans have been developed to provide large volume of air for workshop environments. The CC850 utilises low speed motors for quieter operation. Available as single stage tube axial fans with flow rates up to 11m<sup>3</sup>/s and pressures up to 200Pa. The CC850 is only available in a 4kW version.



## KEY POINTS

- 1 Tube Axial Single Stage Design
- 2 Non - Ducted Applications
- 3 Variable Pitch Impellers
- 4 Single Stage Operation
- 5 11m<sup>3</sup>/s Flow Rate
- 6 High Flow Rate, Low Power, Workshop Cooling

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAK PRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC850 Single Stage Tube Axial	995RPM	1	200Pa	11m <sup>3</sup> /s	48.5 Degrees	1 x 4kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	AC601 Aluminium Alloy
Design	Variable Pitch
Casting Method	Sand Casting
Finish	Bare Aluminium, Epoxy Coatings on Request

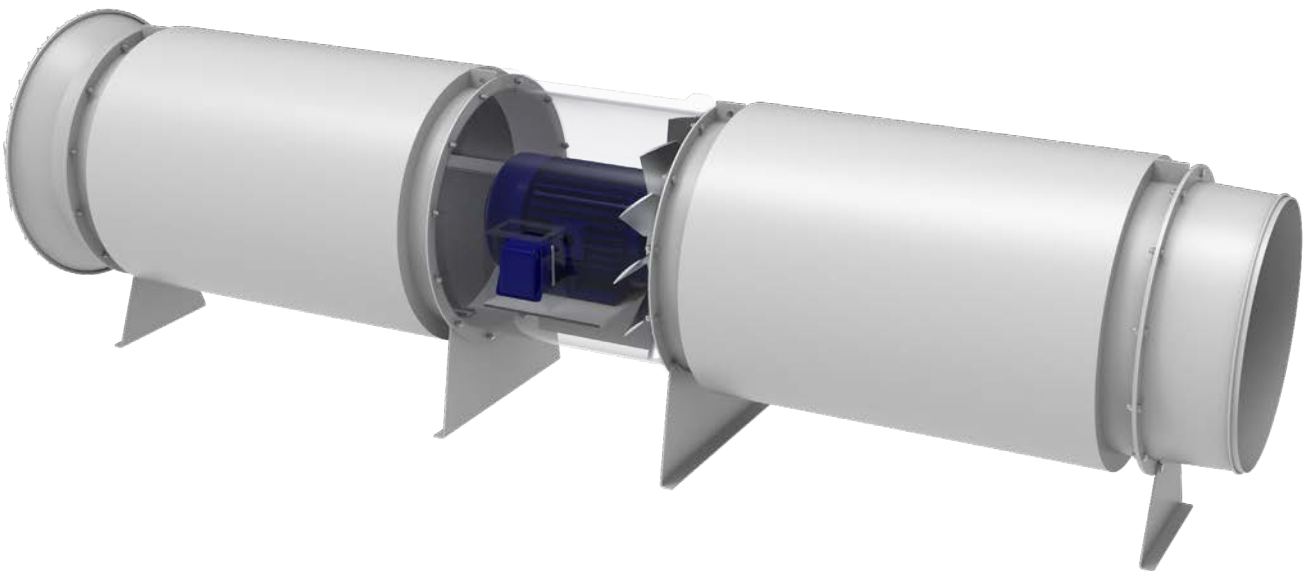
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Single Stage Tube Axial
Fan Stages	Single Stage
Motor Power	4kW
Internal Diameter	856mm
Casing Thickness	3mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	943mm
Hole PCD	905mm
Number of Holes	6
Hole Size	12mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz
Poles	6P
Speed	990RPM
Frame	D132M
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC760

## IN BRIEF

The CC760 Series of Medium Pressure Axial Fans have been developed to ventilate tight small headings. Available as single stage tube axial fans with flow rates up to 18m<sup>3</sup>/s and pressures up to 2.1kPa. The CC760 is completely customisable to meet a range of duties as required. Various impeller designs are available to meet your application.



## KEY POINTS

- 1 Tube Axial Single Stage Design
- 2 Ducted Applications
- 3 Variable Pitch Impellers
- 4 Single Stage Operation
- 5 Flow Rates from 18m<sup>3</sup>/s to 5m<sup>3</sup>/s
- 6 Pressures from 200Pa to 2100Pa per Stage
- 7 Flexible to meet a range of duties

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAK PRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC760 Single Stage Tube Axial	2995RPM	1	2.1kPa	14.5m <sup>3</sup> /s	24 Degrees	1 x 37kW
	2995RPM	1	2.1kPa	13m <sup>3</sup> /s	21 Degrees	1 x 30kW
	2995RPM	1	2.1kPa	10m <sup>3</sup> /s	15 Degrees	1 x 22kW
	2995RPM	1	2.1kPa	8m <sup>3</sup> /s	12 Degrees	1 x 15kW

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	AC601 Aluminium Alloy
Design	Variable Pitch
Casting Method	Sand Casting
Finish	Bare Aluminium, Epoxy Coatings on Request

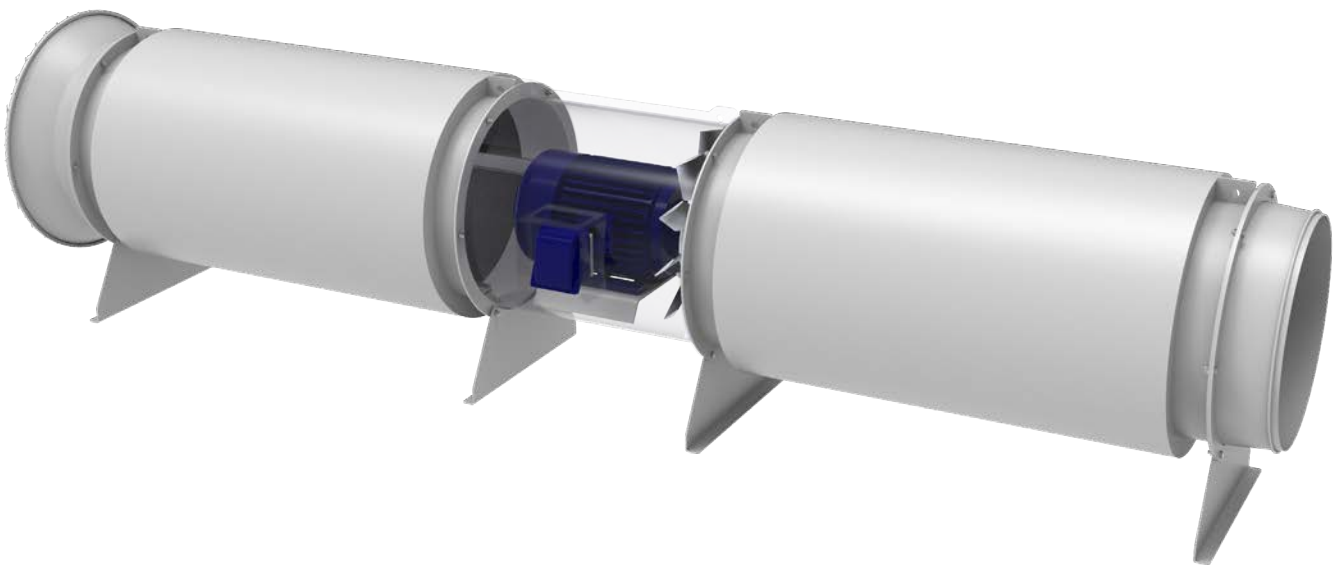
<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Single Stage Tube Axial
Fan Stages	Single Stage
Motor Power	15kW to 37kW
Internal Diameter	762mm
Casing Thickness	5mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	855mm
Hole PCD	813mm
Number of Holes	12
Hole Size	14mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 40mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz
Poles	2P, 4P
Speed	1485RPM / 2995RPM
Frame	D160M to D200LA
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC610

## IN BRIEF

The CC610 Series of Medium Pressure Axial Fans have been developed to ventilate tight small headings. Available as single stage tube axial fans with flow rates up to 11m<sup>3</sup>/s and pressures up to 1.4kPa. The CC610 is completely customisable to meet a range of duties as required. Various impeller designs are available to meet your application.



## KEY POINTS

- 1 Tube Axial Single Stage Design
- 2 Ducted Applications
- 3 Variable Pitch Impellers
- 4 Single Stage Operation
- 5 Flow Rates from 18m<sup>3</sup>/s to 5m<sup>3</sup>/s
- 6 Pressures from 200Pa to 2100Pa per Stage
- 7 Flexible to meet a range of duties

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAKPRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC610 Single Stage Tube Axial	2995RPM	1	1.4kPa	11.5m <sup>3</sup> /s	35 Degrees	1 x 22kW
	2995RPM	1	1.4kPa	10m <sup>3</sup> /s	31 Degrees	1 x 18.5kW
	2995RPM	1	1.4kPa	8.5m <sup>3</sup> /s	26 Degrees	1 x 15kW
	2995RPM	1	1.3kPa	7.5m <sup>3</sup> /s	20 Degrees	1 x 11kW
	2995RPM	1	1.3kPa	6m <sup>3</sup> /s	15 Degrees	1 x 7.5kW

IMPELLER SPECIFICATIONS	DESCRIPTION
Blade Material	AC601 Aluminium Alloy
Design	Variable Pitch Impeller
Casting Method	Sand Casting
Finish	Bare Aluminium, Epoxy Coatings on Request

FAN SPECIFICATIONS	DESCRIPTION
Fan Design	Single Stage Tube Axial
Fan Stages	Single Stage
Motor Power	7.5kW to 22kW
Internal Diameter	610mm
Casing Thickness	5mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	700mm
Hole PCD	668mm PCD
Number of Holes	6
Hole Size	12mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Full Length Lifting Bar with 25mm Holes
Serial Numbering	Laser Cut Stainless Steel Plates
Airflow And Rotor Direction	PolyCarbonate Arrows on Casings

MOTOR SPECIFICATIONS	DESCRIPTION
Windings	H Class Custom Specification
Insulation	Double H Class Insulation
Efficiency	>94%
Voltage	415V, 525V, 690V and 1000V
Frequency	50Hz / 60Hz
Poles	2P, 4P
Speed	1485RPM / 2995RPM
Frame	132s to 180LC
Mounting	Foot Mounting
Leads	1m Extended From Casing
Terminal Box	External on Fan Casing
Terminal Box Protection	Steel Guard around Box

# CC20

## IN BRIEF

The CC20 is an air driven fan developed for use in a variety of applications. The CC20 can be fitted with optional misting arrangements to suit any application.



## KEY POINTS

- 1 Air Driven Axial Fan Design
- 2 Can be used for misting/dust suppression applications
- 3 Fixed Pitch Cast Impellers
- 4 Single Stage Operation
- 5 Flow Rates from 6m<sup>3</sup>/s to 0.7m<sup>3</sup>/s
- 6 Pressures from 500Pa to 1.7kPa
- 7 Air Consumption 154CFM @ 70PSI Max

## SPECIFICATIONS

DESCRIPTION	FAN SPEED	STAGES	PEAK PRESSURE	MAX VOLUME	BLADE ANGLES	MOTOR SIZE
CC20 Air Driven Fan	-	1	1.75kPa	6m <sup>3</sup> /s	Fixed	N/A

<b>IMPELLER SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Impeller Material	AC601 Aluminium Alloy
Design	Fixed Pitch
Casting Method	Sand Casting
Finish	Bare Aluminium, Epoxy Coatings on Request

<b>FAN SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Fan Design	Single Stage
Fan Stages	Single Stage Configuration
Motor Power	Air Driven
Internal Diameter	507mm
Casing Thickness	3mm
Casing Finish	HD Galvanising, Paint Finish on Request
Flange OD	579mm
Hole PCD	546mm
Number of Holes	3
Hole Size	17mm
Hole Orientation	Offset from Top Dead Center
Lifting Mechanism	Single Point
Serial Numbering	Laser Cut Stainless Steel Plates
Air Requirements	154CFM @ 70PSI

<b>MOTOR SPECIFICATIONS</b>	<b>DESCRIPTION</b>
Type	Compressed Air Driven Motor
Max Consumption	154CFM @ 70PSI
Bearings	Sealed Bearings
Speed	Variable

# 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 & SERVICES PROVIDED**

- > Environmental Telemetry
- > Ventilation Fans
- > Site Installation



# Saracen Gold Mines

## *Mine Primary Ventilation Systems*

Saracen contracted Clemcorp to provide primary ventilation systems for its underground mines in Western Australia. A 2.45m diameter 350kW axial fan in a vertical surface configuration was supplied and installed along with a complementary electronic soft starter in a custom built switchroom at one mine. A parallel fan system in a horizontal bulkhead configuration was supplied to the other mine, consisting of three 1.4m diameter 110kW axial fans and associated infrastructure including support frames, switchgear and isolation doors.

### **PRODUCTS & SERVICES PROVIDED**

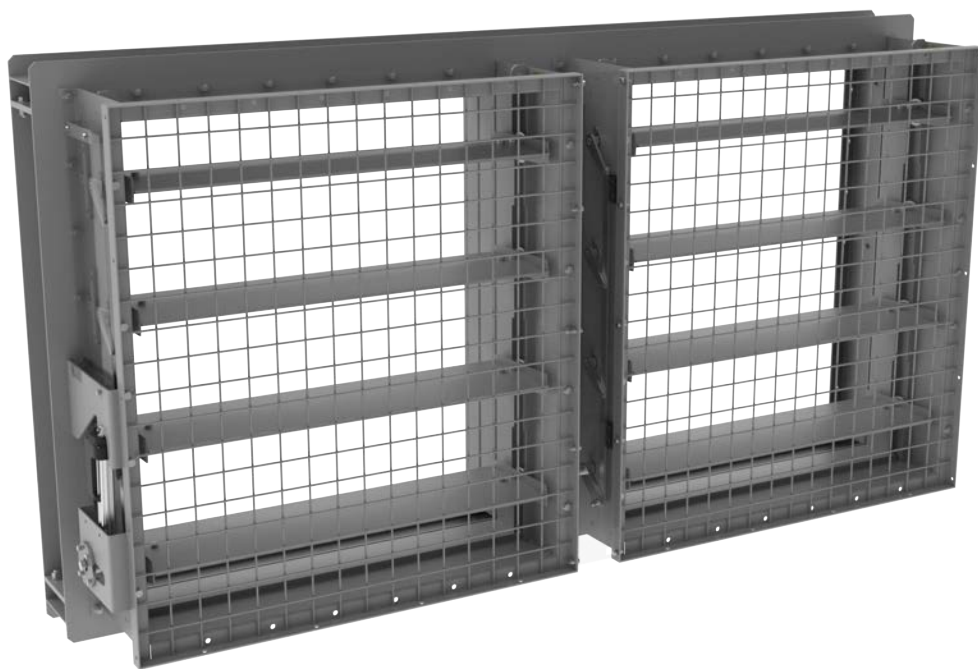
- › Ventilation Fans
- › Fan Starters & Electrical
- › Site Installation



# Automated Louvers

## IN BRIEF

The Clemcorp range of louvers are designed for demanding underground mining applications. Automated louvers enable operators to automate ventilation flows on levels without utilising manual drop board regulators. Individual blades can be locked to present locations via a simple disconnect system. Multiple Louvers can be fitted to cover a complete range of airflow duties.



## KEY POINTS

- 1 Automation Enabled Mining Ventilation Louver
- 2 Maintenance Free Design
- 3 Flow Rates up to 0m<sup>3</sup>/s-100m<sup>3</sup>/s Per Louver Panel
- 4 HD Galvanised Finish
- 5 Low Leakage Labyrinth Seal Blades
- 6 ISO F10 / F12 Interface for Linear or Rotary Actuator
- 7 Range of Actuator Options

## SPECIFICATIONS

DESCRIPTION	PRODUCT CODE	DIMENSIONS L x W x H	OPEN AREA	WEIGHT
Standard 4 Blade Louvre	AP-1133	1690mm x 450mm x 1540mm	2.6m <sup>2</sup>	560kg
Extended 8 Blade Louvre	AP-1134	3350mm x 450mm x 1540mm	5.2m <sup>2</sup>	990kg
Twin Panel Louvre	AP-977	1690mm x 450mm x 3100mm	5.2m <sup>2</sup>	1,420kg
Extended Twin Panel Louvre	AP-1135	3350mm x 450mm x 3100mm	10.4m <sup>2</sup>	2,200kg
Custom Sizes	Contact Us	Sizes up to 14m <sup>2</sup>		

# Automated Butterfly Dampers

## IN BRIEF

The Clemcorp range of butterfly dampers are specifically designed for secondary ventilation control. All our butterfly's can be automated to enable complete control of your secondary ventilation system. Regulate flow on demand to manage ventilation flows and reduce costs.



## KEY POINTS

- 1 Rated for 50m<sup>3</sup>/s Airflow and 6kPa Pressure
- 2 Maintenance Free PTFE Lined Bearings
- 3 Linear Actuator with 24VDC Supply
- 4 Integrated Controller with Feedback
- 5 ISO F10/F12 Interface supports multiple Actuator options

## SPECIFICATIONS

DESCRIPTION	PRODUCT CODE	DIMENSIONS L x W x H	WEIGHT
1067mm Butterfly Damper	AP-580	1185mm x 1185mm x 400mm	180kg
1260mm Butterfly Damper	AP-540	1370mm x 1370mm x 400mm	200kg
1400mm Butterfly Damper	AP-501	1550mm x 1550mm x 400mm	225kg

# Drop Board Regulators

## IN BRIEF

Clemcorp Drop Board Regulators (DBR's) are the most technologically advanced and feature rich board-type ventilation control device on the market. Our proprietary interlocking rotational moulded HDPE boards provide virtually perfect sealing, and as such our design is the lowest leakage DBR available. Being constructed purely from virgin HDPE they are durable and robust, impervious to corrosion and water. Furthermore they are light, easy to handle and contain no sharp edges - which is a vast safety improvement over traditional wooden or steel boards. We have modular designs in multiple size configurations.



## KEY POINTS

- 1 HDPE Rotational Moulded Proprietary Board
- 2 Locking pin and padlock arrangement to prevent unauthorised regulator changes.
- 3 Captive Nuts for Threaded Rod Inserts Design
- 4 Modular Galvanised Frames
- 5 Low Leakage DBR
- 6 C-Section Frame and Base Cutouts for Hold Down Bolts Enables Excellent Keying into the Structural Wall
- 7 Rated Lifting Lugs

## SPECIFICATIONS

DESCRIPTION	PRODUCT CODE	DIMENSIONS L x W x H	WEIGHT
Single Section DBR	DBR-003	265mm x 1220mm x 1950mm	135kg
Double Section DBR	DBR-011	265mm x 2790mm x 1950mm	254kg
Triple Section DBR	DBR-019	265mm x 3010mm x 2770mm	401kg
Triple Section DBR (Extended Height)	DBR-020	265mm x 3010mm x 3184mm	450kg

# Byrne-cut - Syama

## *Portal Development*

Clemcorp designed and supplied an initial single CC1400Mk4 (2 x 90kW) Fan for the portal development at Syama Gold Mine. This was later upgraded to a twin fan installation as the development progressed.

### **PRODUCTS & SERVICES PROVIDED**

> 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 110kW) Fans and Electrical Starters.

### **PRODUCTS & SERVICES PROVIDED**

- > Ventilation Fans
- > Electrical Switchgear

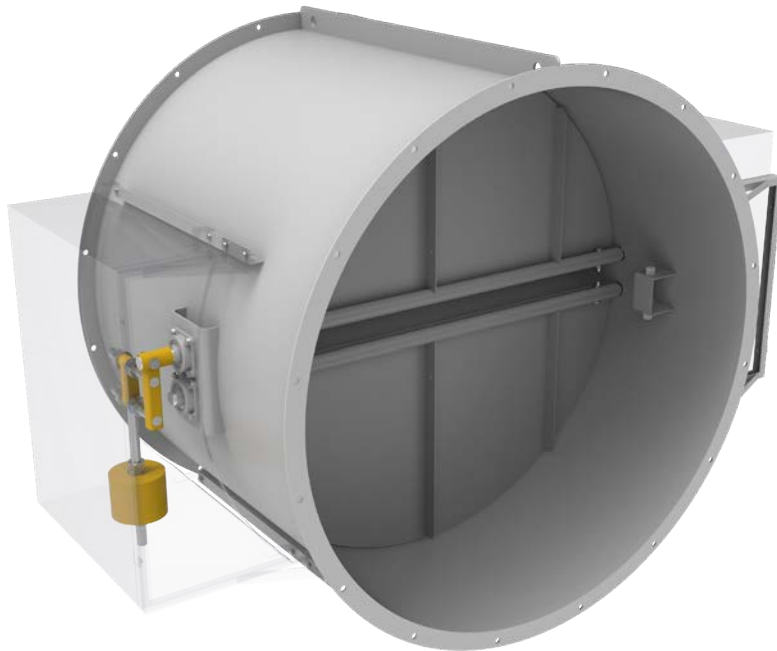


# Self Closing Doors

## IN BRIEF

The Clemcorp range of self-closing doors and dampers are custom designed to suit your application. Our range includes horizontal mounted gravity assisted dampers, counterweighted horizontal and vertical dampers as well as large custom dampers to suit any application.

Self Closing Doors are a critical component in any ventilation system where multiple fans are used in parallel or if recirculation will occur should a fan shut down.



## KEY POINTS

- 1 Incline Plane or Counterweighted Designs
- 2 Sealed for life bearing units
- 3 Aerodynamic designs to minimise shock losses
- 4 Rated Lifting Points
- 5 Steel Construction with Interzone 954 Epoxy Finish @ 200 Microns
- 6 Custom Designs to suit any fan or application

## SPECIFICATIONS

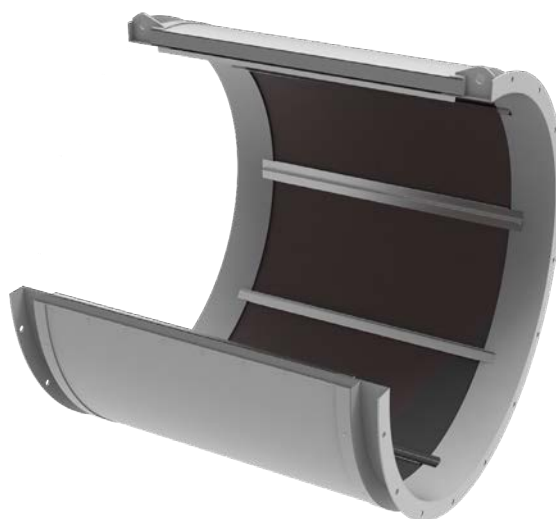
DESCRIPTION	PRODUCT CODE	DIMENSIONS L x W x H	WEIGHT
CC1400 Self Closing Door	1400-121	1600mm x 1700mm x 1000mm	388kg
CC1254 Self Closing Door	1254-100	1400mm x 1500mm x 1000mm	340kg
CC1070 Self Closing Door	1070-034	1350mm x 1200mm x 750mm	220kg
CC925 Self Closing Door	0925-100	1200mm x 1000mm x 650mm	180kg

# Low Profile Silencers

## IN BRIEF

Clemcorp offers a range of low profile Silencers to suit our fans, as well as other standard fan sizes and bolting patterns. Clemcorp silencers achieve a significant reduction in noise, using acoustic foam technology to reduce decibel levels as much as possible. Clemcorp low profile silencers are 35% lighter, have up to 200mm increased diameter clearance and retain virtually identical attenuation characteristics in comparison to the existing standard designs.

In situations where additional noise reduction is required Clemcorp also offers double length silencers and podded silencers for applications where maximum noise reduction is required due to proximity to workers or residences.



## KEY POINTS

- 1 Low profile design reducing the chance of mobile plant strikes
- 2 Hydrophobic Closed Cell Acoustic Foam Insert, easy to replace and will not suffer performance degradation when wet
- 3 Fire Retardant and UV Resistant
- 4 Noise reduction of up to 5dB per standard length low profile silencer (Based on CC1400Mk4 90kW fan)

## SPECIFICATIONS

DESCRIPTION	PRODUCT CODE	WEIGHT
CC610Mk1 Low Profile Silencer Standard Length	0610-036	54kg
CC760Mk1 Low Profile Silencer Standard Length	0762-016	97kg
CC925Mk1 Low Profile Silencer Standard Length	0925-044	115kg
CC1070Mk2 Low Profile Silencer Standard Length	1070-062	135kg
CC1254Mk3 Low Profile Silencer Standard Length	1254-146	155kg
CC1400Mk4 Low Profile Silencer Standard Length	1400-280	182kg
CC1600Mk2 Low Profile Silencer Standard Length	1600-162	266kg
CC1800Mk1 Low Profile Silencer Standard Length	1800-029	220kg
CC1400Mk4 Podded Silencer Extended Length	1400-137	321kg

# Electrical Fan Starters

## IN BRIEF

Clemcorp design and manufacture a range of electrical fan starters for a wide range of applications. Our starter range has been developed over years of field experience and feedback from clients. Our 1000V starters typically cover a range of motor sizes providing flexibility to utilise one starter across multiple fan types. Our team are able to design custom systems including complete switchrooms for large fan applications.



## KEY POINTS

- 1 Mining Specific Features such as Pulse Timers and Delay Starts
- 2 ABB and NHP SwitchGear
- 3 ABB UMC 1000V Universal Motor Controller
- 4 6mm Aluminium Cable Entry Gland
- 5 Copper Incoming BusBar
- 6 Supplied with 32V Burnbrite Area Lighting
- 7 Supplied with USB Flash Drive with MDR
- 8 Custom Designs to Client Specifications Available including Soft Starters and VVVF Drives
- 9 Alternate Voltages Available on Request

## SPECIFICATIONS

DESCRIPTION	PRODUCTCODE	DIMENSIONS L x W x H	WEIGHT
Clemcorp 90-132kW Two-Stage 1000V/3PH/50Hz D.O.L. Pulse Starter	FS-025	1100mm x 1000mm x 300mm	100kg
Clemcorp 90-132kW Single-Stage 1000V/3PH/50Hz D.O.L. Pulse Starter	FS-019	900mm x 900mm x 300mm	80kg
Clemcorp 5-75kW Two-Stage 1000V/3PH/50Hz D.O.L. Pulse Starter	FS-021	1100mm x 1000mm x 300mm	100kg
Clemcorp 5-75kW Single-Stage 1000V/3PH/50Hz D.O.L. Pulse Starter	FS-018	900mm x 900mm x 300mm	80kg

# Access & Airlock Doors

## IN BRIEF

The Clemcorp range of Access Doors and Airlocks are heavily engineered and constructed to withstand the rigours of Underground Mining. Our modular designs, with a bolt on door section, allow for multiple configurations utilising the same door assembly. Our pressure equalisation system using ball valves is unique, extremely reliable and most importantly able to be actuated from either side of the door.



## KEY POINTS

- 1 Modular Bolt on Door Design Supports Multiple Configurations
- 2 Unique Ball Valve Pressure Equalisation able to be Actuated From Both Sides of the Door
- 3 Forklift Tubes and Rated Lifting Points for Transportation
- 4 Steel Construction With Interzone 954 Epoxy Finish @ 200 Microns
- 5 Rated for use to 5kPa
- 6 Doors are Removable and Swappable Between High and Low Pressure Sides

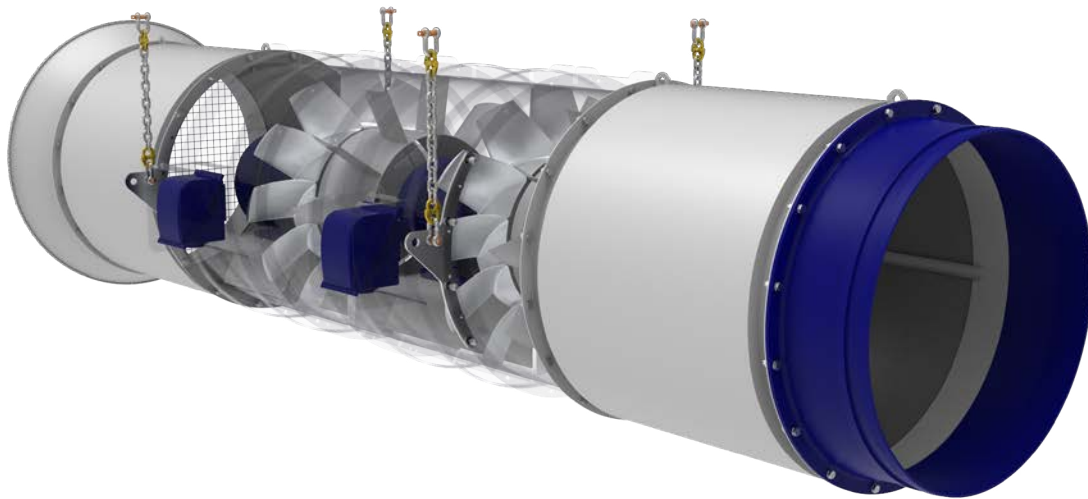
## SPECIFICATIONS

DESCRIPTION	PRODUCT CODE	DIMENSIONS L x W x H	WEIGHT
Standard Access Door	AP-173	980mm x 250mm x 2080mm	294kg
Airlock Chamber 1500mmL	AP-414	980mm x 1500mm x 2080mm	1500kg
Airlock Chamber 3000mmL	AP-165	980mm x 3000mm x 2080mm	2230kg

# Side Hanging Brackets

## IN BRIEF

Clemcorp have developed a range of side mounted “Fan Wings” for the complete range of Clemcorp Axial Fans. These rated hanging brackets provide an alternative suspension method from the traditional top-hanging fin. Utilising side mounting brackets permit the fan to be mounted much closer to the backs increasing clearances to underground traffic. Lowering the suspension point provides an easier access point for operators removing the need to reach outside of the hanging basket.



## KEY POINTS

- 1 Rated side mounted suspension brackets
- 2 Designed to allow fans to be mounted closer to the backs by lowering the suspension point
- 3 Dual suspension holes for hanging and winching
- 4 Allows operator to access suspension point while still in the man cage/basket
- 5 Supplied with grade 8.8 fasteners
- 6 A safer hanging method

## SPECIFICATIONS

DESCRIPTION	PRODUCT CODE	RATING
CC1400 Side Mounting Bracket	AP365	2.5t
CC1254 Side Mounting Bracket	AP365	2.5t
CC1070 Side Mounting Bracket	AP372	2t
CC925 Side Mounting Bracket	AP370	2t
CC762 Side Mounting Bracket	AP380	500kg
CC610 Side Mounting Bracket	AP381	300kg

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