Over a century of protection for the mining industry

Advanced mine ventilation and cooling systems
Our products and services are developed with absolute certainty and confidence. Howden is committed to this principle along with lowering your mine ventilation operating costs.
Global experience
Howden is a global company, established over 160 years ago, with bases in 23 countries across every continent. Our world-leading research, engineering and development are supported by an unrivalled depth of experience.

Lifetime commitment
Our unique experience is matched by our lifetime commitment to service, support and spare parts for every product that leaves our premises. This unparalleled combination of expertise, experience and commitment enables us to meet every challenge you present us safely and efficiently. For decades, our ventilation products have been the first choice for some of the most demanding mining operations in the world, including many in Australia, South Africa, US and South America.
Howden innovative engineering expertise

From complete, custom mine ventilation systems to our flexible auxiliary units, we offer innovative solutions for all your mining requirements.

Our custom engineering services cover virtually any modifications to air or gas handling equipment. These include:

- Specification, design and project planning
- Manufacturing and commissioning
- Benchmarking and system auditing
- Aerodynamic performance testing, vibration analysis, noise testing, control, and precision balancing

By optimising the energy efficiency and reliability of your operation while eliminating many of the causes of inefficiency and potential failure, we can significantly reduce your mining operation’s running costs.
Global experience, local service

One thing that our success has taught us is that no matter how efficient or robust our technology, there is no substitute for local support and an instant response to the needs of our customers.

New additions to our team to serve you better

In 2013, our capability to serve the mining industry across Australasia took a major step forward with our acquisition of Flakt Woods Fans Australia (FWFA). Along with an incredible depth of expertise, we now have a wider choice of fan models to match all your ventilation needs for the diverse requirements for coal and hard rock mines.

We now can offer an even more exceptional level of engineering, technology and service to potential customers in all sectors of the mining industry. We are proud to be working as one team to support your local needs.

Lifetime support

We are committed to providing you with a full aftermarket service designed to keep your installed equipment running efficiently for as long as possible to increase your productivity and enhance your bottom line. From troubleshooting expertise to spare parts manufactured from the original drawings for absolute accuracy. We will also keep you informed about new developments and technologies that could bring additional energy cost savings.

Preventive maintenance saves time and money

Properly scheduled maintenance and enhancements, using the latest technology appropriate to the needs of your project, is the best way to maximise the return on any investment in equipment. We always welcome the opportunity to discuss how we can help you, whether you urgently need replacement parts, advice on which spares to keep on site or a full preventative maintenance program.

Acquired brands

The celebrated brands listed below are, today, part of the Howden organisation. We are proud to continue to supply full, exclusive OEM aftermarket support for all of them.

- Aeolus
- Aerodyne Fans
- Aerex® Fans
- Airscrew
- Airtech Fans
- Alphair Ventilating Systems
- American Blower
- American Standard
- Berry Fans
- Buffalo Forge
- Burton Corblin® Compressors
- Canadian Blower
- Carter Fans
- Covent Fans Inc.
- Davidson Fans
- Donkin® Blowers
- Donkin® Fans
- Engart® Fans
- ExVel
- Fantecnic Fans
- Godfrey Blowers
- Gyrol® Fluid Drives
- Howden Sirocco Fans & Heaters
- James Howden
- Joy Green Fans
- Majax™ Fans
- Nordisk Fans
- Novenco®
- Periflow® Compressors
- Pitstock Fans
- Phoenix Fans
- Powermax Fans
- Reavell Centrifugal
- Richardson Fans
- Safanco® Fans
- Sheldon Fans
- Sirocco®
- Sofrair Blowers
- Solyvent
- Stork Fans
- Sturtevant Fans
- Thomassen Compression Systems
- TLT-Babcock
- Turbowerke Meissen
- VARIAX®
- Ventilatoren Sirocco
- Voith Fans
- Waller
- Westinghouse Fans
- Wolf Fans
- Wheeler Fans
We can provide full turnkey services for all Howden equipment, from a stand-alone fan installation to the design and construction of your ventilation fan system.

**Working to your specifications and requirements we can provide:**

- Equipment design
- Civil engineering
- Buildings and ductwork
- Commissioning
- Drives and power supplies
- Ancillary heating and cooling
- Full instrumentation and monitoring
- Complete project management.

**There are several clear advantages to this approach:**

- It removes the burden of planning and supervision from your staff
- It gives you a fixed cost and schedule
- It eliminates the costs and delays that often occur when working with multiple vendors
- It provides you with the highest standards of technical excellence, quality and safety.

Every mine operator has different preferences in the levels and types of services they require. We have developed an exceptionally flexible and professional approach that allows us to respond quickly and effectively to each request, then move rapidly into action to deliver products and services in the way that suits your requirements.
Howden offers a diverse array of custom designed products for the critical needs of mine ventilation, where absolute dependability is essential. Our products are available in a range of sizes and configurations that allow you to balance cost with versatility and select the fan type that provides precisely the flow and the degree of control that you need.

Howden offers a wide range of axial, centrifugal and mixed flow fan options including:

Mixed flow fans ideal for handling dust-laden gases at elevated temperatures
Auxiliary fans, including portable units for underground use
Axial fans with fixed or variable pitch
Our product line offers the degree of flexibility, cost and performance required to meet virtually any mining situation.

Control systems
Motor control equipment
We supply, install and engineer Motor Control Equipment (MCCs) for all types and equipment. Capabilities include MV and LV turnkey systems.

Field cabling
We supply, install and engineer electrical and instrumentation cabling to local electrical standards. Certificates of compliance testing are submitted for all installations.

Programmable Logic Controller (PLC) systems
Our in-house programmers design PLC software for the major types and brands of PLC and SCADA systems. PLC panels, complete with PLC systems, are supplied and designed.

Field instrumentation
Fit-for-purpose instrumentation is designed, supplied and installed on all projects as per customer requirements.

Howden offers a wide range of axial, centrifugal and mixed flow fan options including:

Radial-vane centrifugal fans that offer full control of air flow volume for ventilation from surface stations
Integrated design reduces costs

With a Howden integrated system, we can ensure that all the silencers, cooling apparatus and auxiliary ventilation are designed to work in harmony with the main ventilation system. This helps eliminate capital expense and running costs arising from mismatched equipment and multiple vendors.

Damper systems

We manufacture backdraft damper systems for horizontal, vertical up and vertical down flow configurations in standard sizes from 0.5 to 2.6 metres, and can produce custom built units of up to 6 metres in diameter. Both the rolled steel flange and the stop ring are continuously welded to a heavy gauge steel housing, and the reinforced steel damper blades are welded to high-strength tubular shafts and interconnected to ensure simultaneous operation. A gasket on the stop ring ensures quiet operation. We also offer a heavy-duty option with additional blade reinforcements, a closed-position support grid and re-greasable anti-friction bearings.

Silencers

We are the leaders not only in the production of inherently low-noise, high efficiency fans but also in the design and manufacture of acoustic attenuation systems that will bring virtually any industrial fans within the strict limits demanded today. Our silencers are tested and proven in demanding applications such as mine ventilation and can be tailored to fit any centrifugal or axial fan either during or after production. Our range of reactive, reactive-dissipative and absorptive attenuators provide the optimum technology for every situation – including those involving contaminated air & gases.

Cooling systems

For deep mines, we can supply highly efficient cooling systems based on either hard ice or ice water as the coolant, using an oil-injected screw compressor and environmentally-friendly ammonia as a refrigerant.

The ability to use power at the most economical periods within the 24-hour cycle, and the characteristics of the refrigerant make our cooling systems exceptionally economical and sustainable. Howden was the first commercial manufacturer of screw compressors – a technology whose low maintenance, high efficiency characteristics make it particularly appropriate for mining situations. We can provide either stand-alone compressors or complete skid-mounted packages.
Howden provides proven performance

In a world of projections, estimates and promises, Howden deals with the facts.

When you order a fan to perform specific duties, it will be custom designed and engineered to deliver precisely the service you need. For some manufacturers, that is enough. At Howden, however, we base our fan designs on established performance curves that are tested in accordance with ISO principles and are based on over 160 years of proven engineering expertise.

Our track record has consistently provided evidence that the changes we introduce are bringing real, measurable results. Every fan we manufacture is built on the foundation of previous, proven success. Our test program and performance curves create a win-win situation for both you as the buyer and us as your supplier.
Your team
Our team understands the requirements and pressures of the mining industry. They talk your language and can discuss the options available to you and demonstrate the most reliable and cost-effective way forward in any situation you may have. They will be able to provide you with detailed and accurate proposals for any Howden product or service.

For further information about how Howden can improve your productivity and return on investment, please contact your local Howden representative.

Email: eurocis-mining@howden.com
Web: www.howden.com
At the heart of your operations

Howden people live to improve our products and services and for over 160 years our world has revolved around our customers. This dedication means our air and gas handling equipment adds maximum value to your operations. We have innovation in our hearts and every day we focus on providing you with the best solutions for your vital operations.