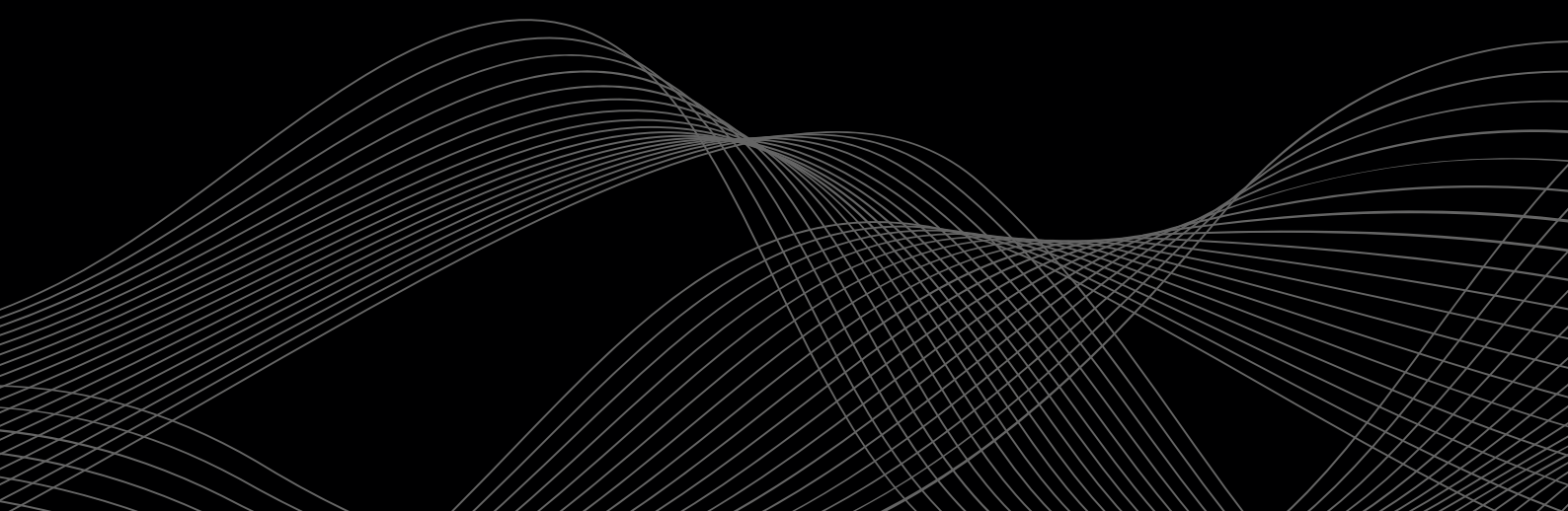
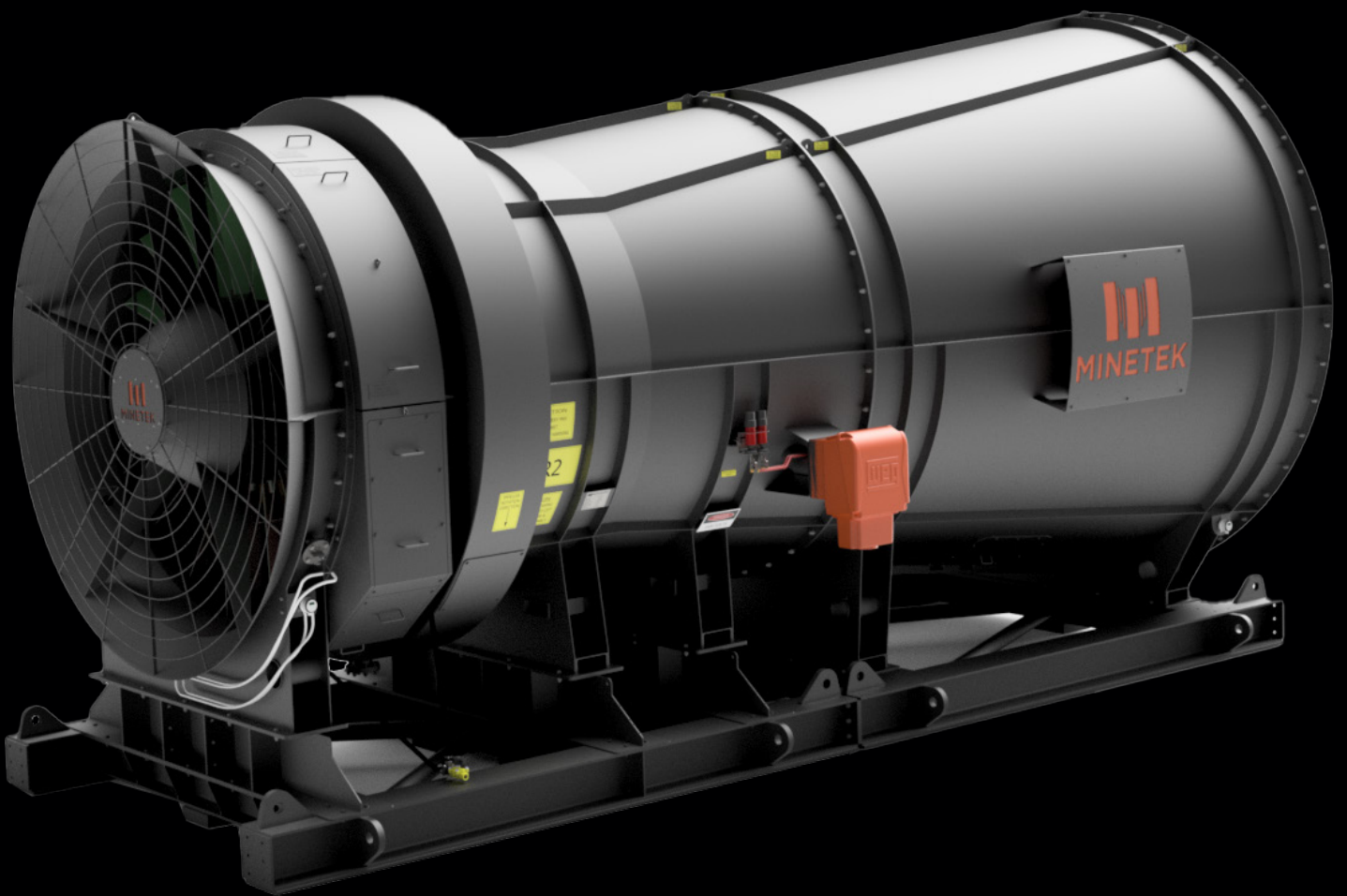
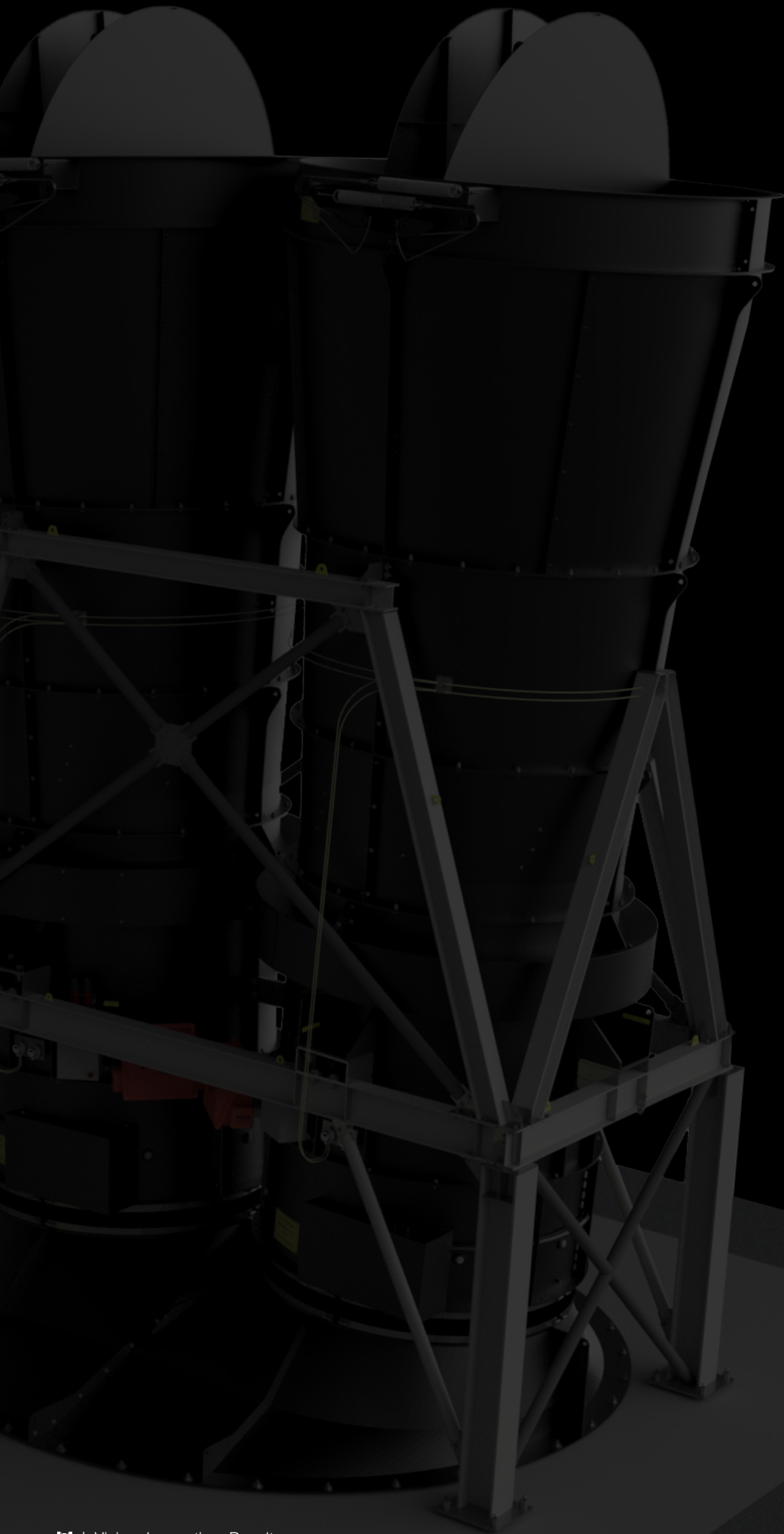




Innovative Underground Ventilation.

Fan technology engineered to perfection.





Air management solutions.



For almost 40 years, Minetek has delivered innovative and modular air management solutions to industry leaders worldwide. Minetek has a well-established network of operations globally that enables us to provide comprehensive site services that ensure high levels of customer satisfaction and cost-effective solutions. Our experience in mining and tunnelling enables operators to achieve safe, reliable operations while delivering guaranteed reductions in power consumption and increased profitability.

Minetek aims to create the most sophisticated innovation & technology for mining solutions through world-class engineering, breakthrough technology, and intensive research and development. As a result, our underground ventilation technology offers rich economic, operational, and safety benefits not seen elsewhere.



High Output Axial Fan.

Engineered with the mining industry at the forefront, Minetek's High Output Axial Fan series are a robust and reliable underground ventilation fan with a broad operating range. Our innovative steel fabricated impeller allows for operation at pressures previously thought impossible for an axial fan with prolonged life, in even the harshest of environments.

Minetek's powerful single speed fans, have been proven to reduce power consumption costs by up to 50% and improve underground mining ventilation systems. Compared to traditional larger fans, Minetek's compact units have the capability to outperform larger alternatives and then be re-deployed quickly and easily to other locations as the mine workings evolve.



Fan specifications.

Secondary / Auxiliary Fan Range

Power range 90 – 375 kW

Volume 10 - 100 m³/s

Pressure 200 – 6500 Pa

Efficiency > 85%

Primary / Booster Fan Range

Power range 150 – 2,000 kW

Volume 50 - 1000 m³/s

Pressure 200 – 8000 Pa

Efficiency > 85%

*some fan duties are achieved by a multiple fan installation.

Fan applications.

- Primary Fans.
- Booster / Intake Fans.
- Development Fans.
- Multiple Heading Ventilation.
- Secondary / Auxiliary Fans.
- Bulkhead.
- Long Duct Runs.
- Tunnel Fans.



“

We didn't think one fan could ventilate a 1,000m underground decline. We were prepared for multiple shutdowns and fan installs. A single fan installation allowed us to progress quicker and have the available power when we needed it.

- Tritton Copper Mine

Engineered to perfection.

- Vast operating range.
- Single speed fan - regulated by the integrated Performance On Demand (POD) system.
- No Variable Speed Drive (VSD) controls.
- Halve required power consumption.
- Ability to provide the correct amount of air when and where you need it.
- Robust design utilising blades impervious to wear.
- No complex or expensive Ventilation On Demand (VOD) controls.
- No fan stalls.
- Safe solution with no loss of air.
- Reduce capital costs with less fans required.



Optimise air flow.

Our Mine Air Control (MAC) system seamlessly integrates with the operating layer of the mine to optimise air flow across the entire air circuit. With the ability to ramp air flow up or down based on scheduling and vehicle movements, Minetek fans offer true performance on demand.





Tailor pressure, power & performance.

Our Performance On Demand (POD) technology allows operators to tailor pressure and power consumption without the need for VSD's. Minetek's fan vane inlets controls the POD system, adjusting the vent flow and power usage. The result is a seamless, responsive solution which optimises performance, reduces power consumption costs, and increases overall operational efficiency.

Anti-stall technology.

Minetek's innovative anti-stall chamber cleverly controls the flow of air, capturing turbulent air flow and unstable pre-swirls. The technology not only eliminates critical stalls, but has been proven to extend the operating range and overall performance of the fan across the entire curve.



Secondary Fan case study.

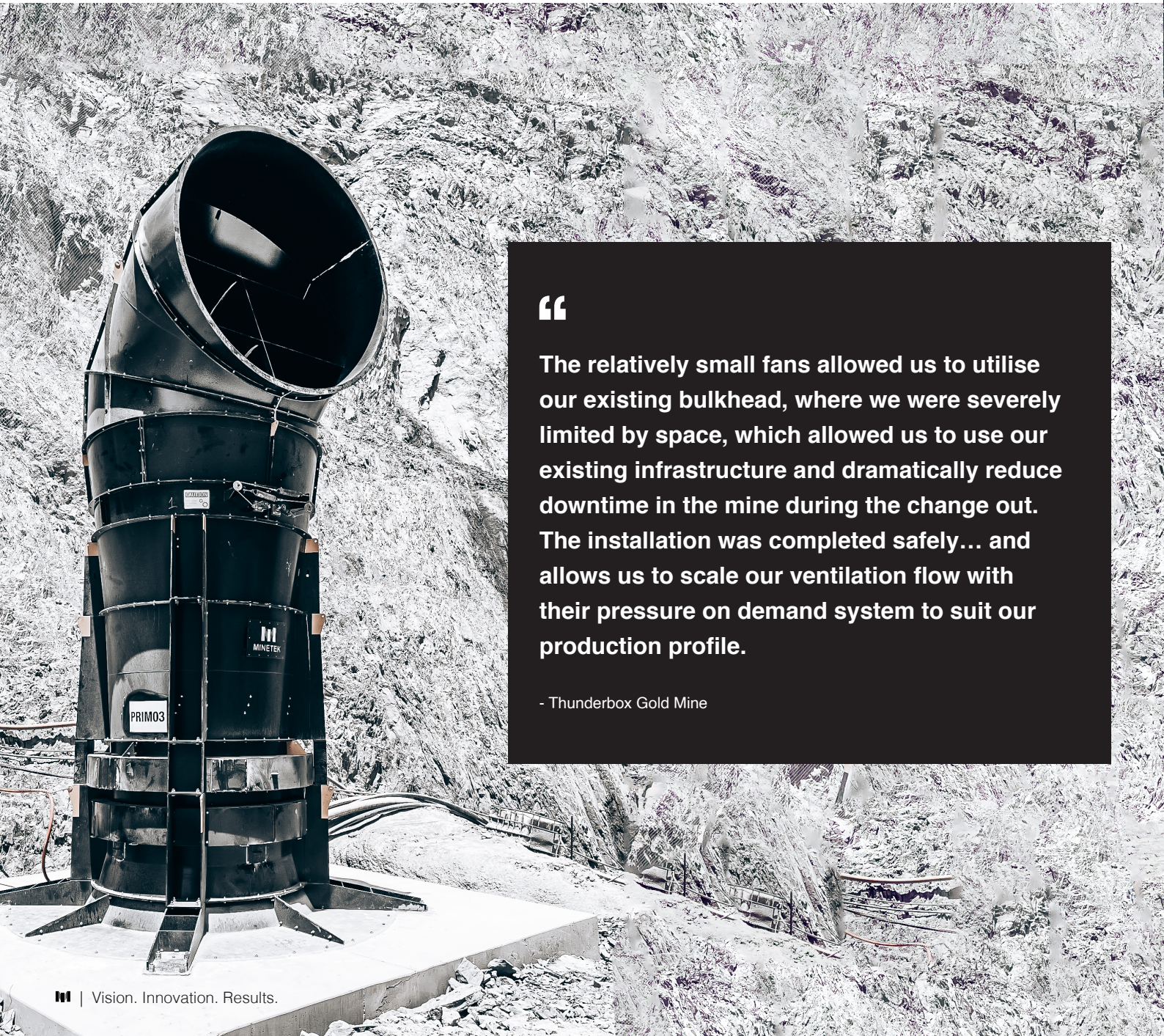
Fan – Minetek HO Model S.

Duty – 70 m³/s at 3,500 Pa.

Result – Performance On Demand (POD) technology drives down energy costs with reduced power consumption. Easy installation with mounting hooks. High pressure capabilities resulting in less fans required for development.

Thunderbox Gold Mine

- Optimisation of Life Of Mine (LOM) fans across Primary and Secondary, saving the client approximately \$1.2 million in capital.
- Supply of all required ventilation from Development to Primary fans.
- Displayed energy efficiencies across the projects at all stages of development.
- Production increases through faster re-entry times for the contractor.



“

The relatively small fans allowed us to utilise our existing bulkhead, where we were severely limited by space, which allowed us to use our existing infrastructure and dramatically reduce downtime in the mine during the change out. The installation was completed safely... and allows us to scale our ventilation flow with their pressure on demand system to suit our production profile.

- Thunderbox Gold Mine

“

The installation was completed with no incidents or injuries, with no delays, and ahead of schedule. The plan was for 10 shifts, and it was completed in 7 shifts.

- Pit N Portal



Primary Fan case study.

Kambalda Nickel Operations.

- Supply of an internal primary ventilation solution with the ability to be repurposed into the secondary system.
- Customised solution to fit into existing fan chamber, saving money and time in expansion of infrastructure.
- Modular design allowed onsite personnel to successfully carry out the install with Minetek site support.
- Regulation of air has allowed the mine to increase ventilation as production increases require, saving energy consumption at the operation.

Fan – Minetek HO Model P.

Duty – 350 m³/s at 4,800 Pa.

Result – Ability to change fan duty with ongoing mine development. Performance On Demand (POD) technology reduces power consumption and drives down energy costs.



“

We are always looking at new innovations and technologies that will benefit both us and our clients. Minetek has been able to display that with the use of their modern ventilation technology, where we can look to see production increases through faster re-entry times and reduced capital costs in the total life of the development, delivering value to both us and Mincor.

- Pit N Portal



Minetek solutions & capabilities.

Water

Minetek offers the world's most comprehensive and cost-effective water evaporation technology, designed to reduce risks associated with managing excess water and ensure environmental compliance. Our mobile, flexible solutions have been scientifically proven in the most challenging industrial landscapes, with over 500+ projects completed worldwide.



Sound

Minetek enables the world's quietest mining equipment and machinery, reducing noise levels by up to 50% and allowing mining operations to reduce potentially harmful safety impacts on operators while meeting regulatory and community noise expectations. With over 1500+ mining machines attenuated worldwide, our experienced team will travel to your site for certification and installation.



Air

Since 1984, Minetek has been delivering innovative, modular air management solutions for underground operations. Our world-class range is proven to increase productivity and reduce operating costs, all with the flexibility to control the delivery of air when and where it's needed. As a result, our solutions provide our clients with significant cost savings and a guaranteed return on investment.





Phone

1300 963 801

Email

sales@minetek.com

Head Office

1/1 Civic Ave, Singleton NSW 2230

Sydney Manufacturing Hub

23 Ash Rd, Prestons NSW 2170

Perth Operations Hub

6/2 Commerce St, Malaga WA 6090



Vision. Innovation. Results.