

INNOVATION POWERED BY AIR

COMPRESSED AIR SYSTEMS | 24/7 EMERGENCY BREAKDOWN
SUPPORT | NITROGEN & OXYGEN GENERATORS | HIRE



PNEUMATIC
ENGINEERING

Experts in Compressed Air and Gas Solutions Supplying Western Australia for more than 45 years

Pneumatic Engineering has been delivering reliable compressed air, gas, and vacuum solutions to Western Australia for more than 45 years.

With extensive expertise across various industries, we are the trusted partner for businesses seeking high-performance systems backed by 24/7 service and support.

As Western Australia's largest dedicated servicing team, we provide comprehensive coverage across Perth, the Southwest,

Goldfields, Pilbara, and beyond.

Our commitment to quality, safety, and sustainability is reflected in our ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018 certifications and adherence to AS/NZS 4801 and ISO 18001 standards.



Our Difference



Customer Online Portals

Pneumatic Engineering has access to various online health and safety portals. This initiative aims to alleviate your compliance concerns, enabling us to promptly mobilize and support you at your site. Below is a snapshot of online HSE portals that Pneumatic Engineering currently holds.



Our Capabilities



Comprehensive Product and Service Range

- Supply and install air compressors, nitrogen/oxygen generators, vacuum systems, and air dryers.
- Provide proactive maintenance, repairs, and 24-hour breakdown service to optimize performance.
- Offer overhauls and rebuilds.
- Deliver custom solutions.
- Maintain a large fleet of hire equipment for unserviceable units or peak demand.



Expert Diagnostics and Testing

- Air and oil sampling for quality assurance
- Energy analysis to identify cost-saving opportunities
- Air leak detection to minimise waste and improve efficiency



Compliance and Inspections

- Certified pressure vessel inspections to ensure safety and compliance
- Comprehensive servicing and testing to meet industry regulations



Industry Expertise

Serving mining, oil and gas, food and beverage, medical, agriculture, water treatment, construction, and power generation sectors.

Committment to Sustainability

Pneumatic Engineering is dedicated to minimising environmental impacts through energy-efficient equipment and sustainable practices. We offer innovative solutions such as permanent magnet compressors and gas generators to help our clients meet their sustainability goals while reducing costs.



Our Comprehensive Product Range

AIR COMPRESSORS



Oil Free Screw Compressors



Screw Compressors



Piston Air Compressors



Portable Diesel Drill Compressors

DRYERS



Regenerative Dessiccant



Refrigeration



Membrane

FILTRATION



Filter Elements



Filter Housings



Breathing Air Systems

GAS GENERATION SYSTEMS



Nitrosing Modular PSA
Nitrogen Generator



Oxyswing Modular PSA
Oxygen Generator



PSA Twin Tower
Generators



PSA Twin Tower
Generators



Compact
Membrane
Generator



Packaged
Solutions

BLOWERS



Roots Blower



Side Channel
Blower

AIR RECEIVERS



Our Hire Range

Through our partner, RentAir we provide a large hire fleet. This hire fleet meets the HSE requirements these can be used onsite or in your local factory. Hire can allow you to control your capital expenditure and have no maintenance hassles. Included in the hire costs our technicians will come and complete the servicing, so you don't have to.



**Portable Diesel
Air Compressors**

Ranging from 90cfm to 1600cfm with 8, 10 & 13 bar options



**Refrigerated &
Dessiccant Dryers**

Compressors ranging from 25 cfm to 1000cfm (5.5kW to 160kW)



**Rotary Screw
Compressors**

Reliable electric screw compressors from a range of leading brands.



**Skid Mounted
Compressors**

1000V Skid mounted solutions suited for a range of conditions.



**Nitrogen
Generators**

Skid mounted, fully equipped nitrogen generation solutions.

Our Work



INDUSTRY: GRAIN
CLIENT: CBH
LOCATION: KWINANA
SCOPE: DEVELOP & INSTALL NITROGEN GENERATION SYSTEM FOR GRAIN PROTECTION

CBH required a solution that would meet the required standard of fumigation in a more efficient time frame in comparison to traditional pesticides. A target of 99% nitrogen purity was required within each silo. An additional requirement was to ensure that the nitrogen gas generation system could be fed with compressed air from existing site air compressors.

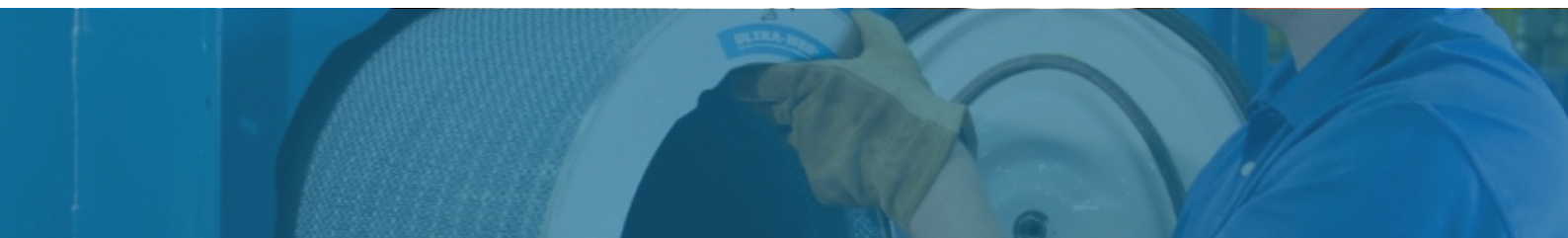
Pneumatic Engineering, along with partner Gas Generation Australia (GGA), developed and delivered a system that integrates with existing compressed air infrastructure and features purity checking and flow metering. A nitrogen generator was supplied that delivered 360 m³/hour at 99% purity, reducing fumigation time to seven days and cutting operational costs significantly.

Early trials confirmed efficiency, achieving target nitrogen purity in 10 hours per silo and reducing fumigation costs to one-tenth of traditional methods. Results exceeded expectations across various grain types, prompting the client to expand nitrogen generation systems to multiple port facilities in Western Australia.

INDUSTRY: MINING
CLIENT: RIO TINTO
SCOPE: ENSURE RIGOROUS SERVICE QUALITY

To ensure the quality and integrity of their operations, Rio Tinto requests additional services.

Prior to quoting, Pneumatic Engineering inspects their facilities to fully optimise all solutions. Also, prior to freighting fitouts to their facilities, representatives from Rio Tinto are invited to inspect the products and confirm that they meet expectations.



Our Work



INDUSTRY: RAIL
CLIENT: AURIZON
LOCATION: PERTH, WA
SCOPE: RESTORE A WORN TRAIN COMPRESSOR

Pneumatic Engineering was assigned the job of refurbishing a worn rail compressor for Aurizon.

The process began with disassembling the rail compressor. Its motors were rewound and revarnished to restore them to optimal efficiency, after which the compressor was reassembled into working condition.

Once refurbished, the rail compressor underwent testing in our Welshpool workshop before being sent back to Aurizon.

The successful restoration of the compressor ensured compliance with all operational requirements and safety standards.



INDUSTRY: MINING
CLIENT: FMG
LOCATION: FLYING FISH
SCOPE: ENGINEER A SOLUTION FOR TOUGH CONDITIONS

FMG required an air compressor and a custom-made skid suitable for mining. An ELGi EG22 was fitted with the necessary components for efficient operation in harsh conditions. Along with the compressor, the skid was equipped with an air receiver for a complete mining solution.



INDUSTRY: QUARRY
CLIENT: HOLCIM
LOCATION: PERTH, WA
SCOPE: NEW EQUIPMENT SALE

Pneumatic Engineering provided Holcim with an EQ22 Screw Air Compressor which was appropriate for quarry environments to assist in their precast concrete manufacturing process. The EQ22 was built reliably for tough conditions. It operates in dusty environments and humid conditions with an ambient design of 50°C.



Our Work



INDUSTRY: MINING
CLIENT: FMG SOLOMON
LOCATION: PILBARA
SCOPE: DESIGN A CUSTOM-MADE SKID-MOUNTED SYSTEM

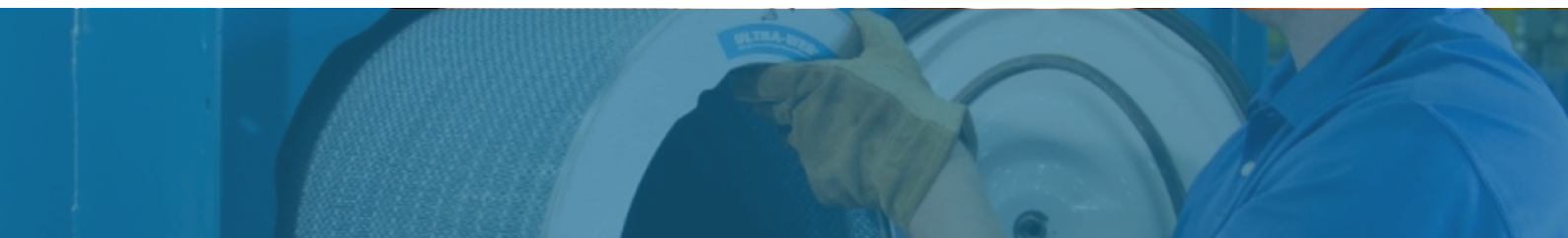
FMG Solomon required a custom-made compressed air solution for their above-ground operations. Pneumatic Engineering designed and built a customised compressed air system featuring an EG11 compressor, air receiver, desiccant dryer, and a Klee blower. The system was tailored to ensure reliable performance in challenging conditions.

INDUSTRY: MINING
CLIENT: BYRNECUT GROUP
LOCATION: TELFER
SCOPE: EXTEND THE LIFE OF A MINING COMPRESSOR

ByrneCut requested a complete overhaul of an Atlas Copco G160 Air Compressor located deep within the Telfer mines.

Pneumatic Engineering carried out a thorough pre-test and full overhaul of the 160 kW, 1000-volt skid-mounted compressor. The unit was stripped down, with each component carefully assessed, rebuilt, or replaced as needed. The air end was re-bearinged, electrical systems inspected, and coolers and oil circuits cleaned. After reassembly to OEM specifications, the compressor was tested in the workshop to ensure optimal performance.

The fully restored Atlas Copco G160 was returned to ByrneCut, with its efficiency and reliability enhanced, extending its operational life by 4-5 years.



Our Work



INDUSTRY: MINING
CLIENT: RIO TINTO
LOCATION: YANDICOOGINA
SCOPE: DESIGN A CUSTOMISED AIR DRYING SOLUTION

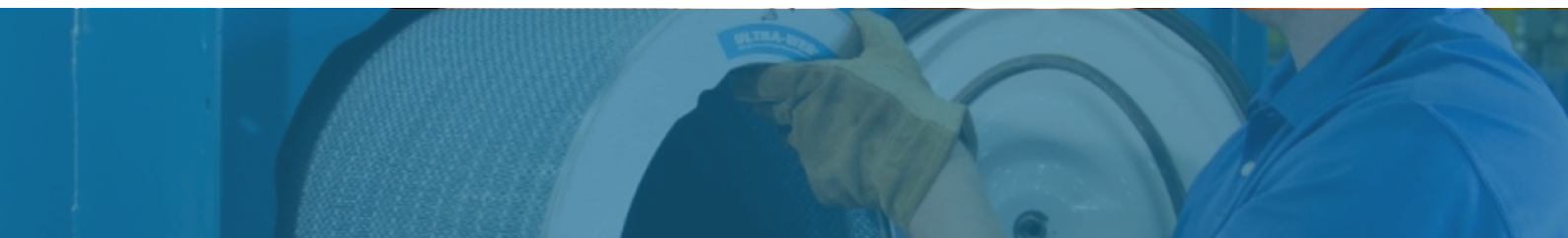
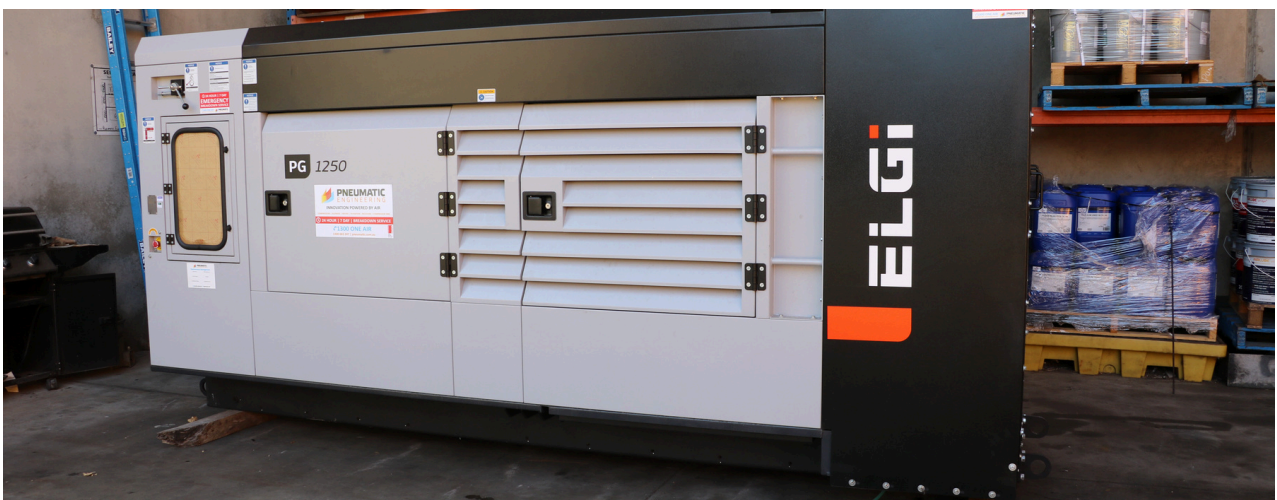
Rio Tinto required a customised air drying solution that was mobile and capable of handling challenging above-ground conditions.

Pneumatic Engineering designed a fully customised air drying system for Rio Tinto, incorporating a refrigerated dryer, water-oil separator, and inline filter. The system was mounted to allow for easy mobility, enabling it to be picked up and moved around the site as required.

This bespoke solution ensured efficient moisture and oil separation, maintaining the integrity of their compressed air system in demanding environments.

INDUSTRY: MINING
CLIENT: DONNELLY DRILLING
LOCATION: REMOTE DRILLING
SCOPE: SUPPLY AND INSTALL A DRILL COMPRESSOR

Donnelly Drilling required a powerful compressor to assist with drilling operations. Pneumatic Engineering supplied and integrated an ELGi PG1250 drill rig compressor onto a drill truck. This high-performance compressor is crucial for drilling operations, providing the necessary airflow to blow dirt and debris out of the drill hole as drilling progresses.



Our Work



INDUSTRY: MINING
CLIENT: BYRNECUT GROUP
LOCATION: SAND KING
SCOPE: DESIGN AND INSTALL AN UNDERGROUND SKID-MOUNTED SYSTEM

The ByrneCut Group required a powerful air compressor that filters fresh, breathable air throughout their underground mines. They also required a skid that allows them to easily transfer the system from one point to the other.

Pneumatic Engineering has converted an EG160 air compressor to 1000 volts required by the ByrneCut Group in our Welshpool Workshop. The converted compressor was fitted with a hot air exhaust vent that is designed for peak cooling and efficiency.

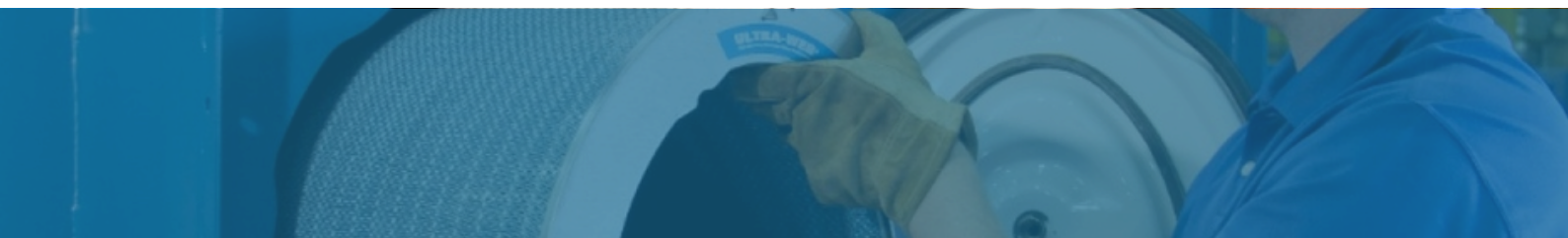
The custom built skid was designed around the air compressor and air receiver to ensure functionality and allowed the entire system to be placed at any part of the mines.

With all equipment, the system was tested rigorously before deployment to the Sand King mines.

INDUSTRY: TRANSPORT
CLIENT: AURIZON
LOCATION: PERTH, WA
SCOPE: RESTORE WORN COMPRESSOR TO IMPROVE EFFICIENCY

Pneumatic Engineering conducted a full overhaul of the Gardener Denver WLAA rail compressor, restoring it to like-new condition. The process involved cleaning, disassembling, and inspecting all components, including re-sleeving and honing the cylinder bores, checking crankshaft tolerances, and replacing bearings. Key parts like the compressor valves were stripped, cleaned, and tested, while the inter-coolers were pressure tested and reassembled. The electric motor was rewound to OEM standards, ensuring reliability.

The compressor was fully restored, tested on Pneumatic Engineering's purpose-built test bed, and repainted. The overhaul extended the compressor's life, improved efficiency, and provided significant cost savings by avoiding unplanned maintenance and downtime. Pneumatic Engineering's expertise ensures optimal performance for rail industry compressors.



Company Partners



ELGI

A leading air compressor manufacturer with a broad line of innovative and technologically superior compressed air systems. They have earned worldwide distinction for designing sustainable solutions. These world-class solutions help companies achieve their productivity goals and keep the cost of ownership low.



DONALDSON COMPANY

Has helped solve some of the world's most complex filtration and contamination control challenges. They are one of the largest global providers of unique filtration technologies and high-quality filters and parts. Their products are engineered to enhance product performance and integrity. They achieve this by improving filtration efficiency, extending filter lifetime and lower maintenance costs.



RENT AIR

A reliable provider of compressors, serving a wide range of industries and applications, both small and large-scale, Rent Air offers an extensive selection of compressed air equipment and systems that can be tailored to a client's specific requirements.



GAS GENERATION AUSTRALIA

Deliver autonomous and tailored nitrogen or oxygen solutions. From modular systems to custom designs, their PSA and membrane generators ensure optimal purity and reliable production. Committed to innovation, quality, and cost-effectiveness, GGA provides nationwide service and tech solutions.





Why Choose Pneumatic Engineering?

- Extensive Expertise: Decades of experience working with leading brands like ELGI, Kaeser, Atlas Copco, Ingersoll Rand, and more.
- Reliability: 24/7 availability for servicing and emergency support, ensuring minimal downtime.
- Customised Solutions: Tailored systems designed to meet specific operational requirements.
- Proven Quality: ISO-certified processes and adherence to the highest safety standards

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