

Intelligent Pumping and Fluid Management Solutions For Sustainable Mining



Armstrong **Industrial**

FILE NO: IND002 DATE: APR 2026

Powering Industry with Performance and Purpose



Armstrong **Industrial** is a division of Armstrong Fluid Technology, leveraging over 90 years of global experience in a wide range of sustainable gas and hydraulic fluid applications.

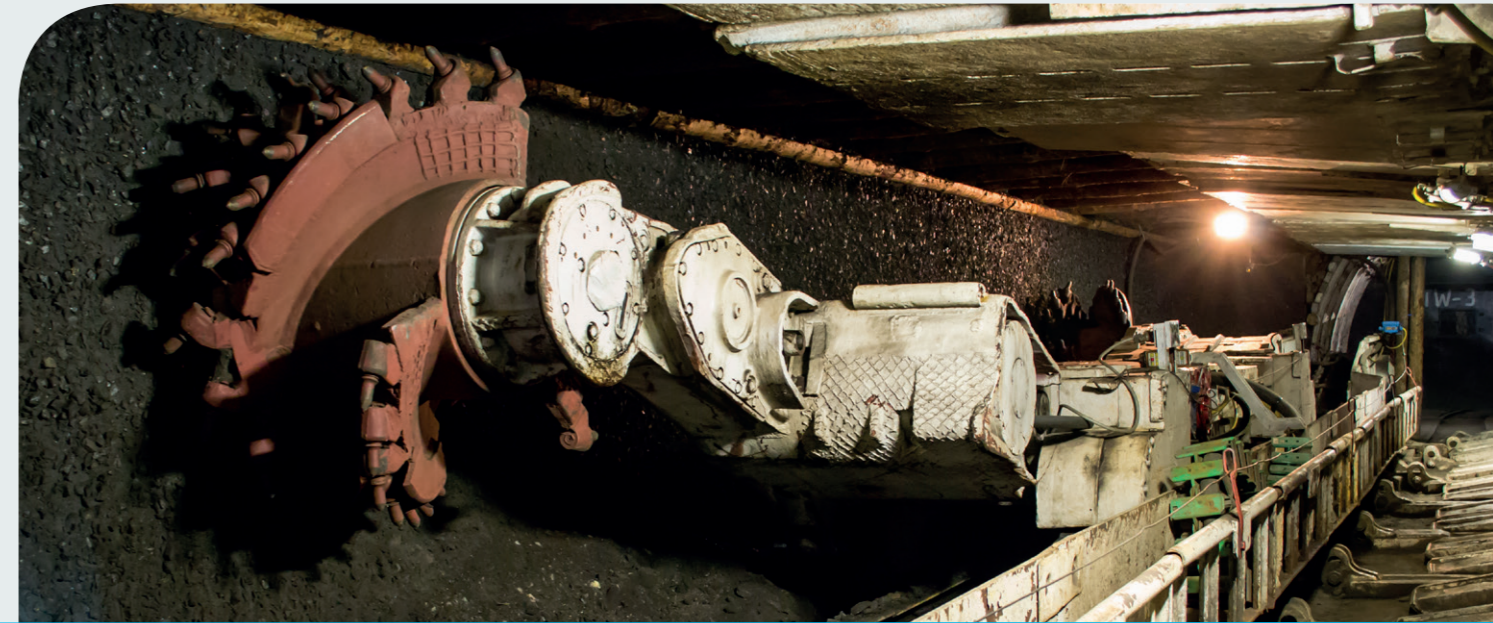
Through our RMI Pressure Systems brand, we have an enviable reputation as a global leader for high-pressure and high volume fluid pumping systems for industrial and longwall mining markets.

Now rebranded as part of Armstrong Fluid Technology's Industrial division, Armstrong **Industrial**, our purpose is to protect the planet by reducing greenhouse gas emissions from buildings and industrial plants, through an extended portfolio of innovative fluid management products and technologies, that deliver measured efficiency, proven reliability and advanced performance.

Our research and design engineering expertise are honed for the diverse and extreme environments our products are exposed to. All of our equipment is put through extensive testing in-house before shipping, ensuring rapid installation, commissioning and optimal performance.

We aspire to deliver superior environmental performance standards – propelling us towards a greener, safer and more sustainable world for all.

Mining's New Era: Driven by Decarbonisation and Digitalisation



Global mining is being reshaped by sustainability and technological innovation.

Growing demand for critical minerals such as copper, lithium, nickel, and rare earth elements – essential for renewable energy, electric vehicles, and digital infrastructure – is positioning mining as a key enabler of the low-carbon transition.

Sustainability has become central to mining operations, with companies under increasing pressure to reduce emissions, manage water and energy use, and uphold strong environmental and social standards. ESG performance now plays a crucial role in securing financing and maintaining the licence to operate, prompting wider adoption of renewable energy, electrification of equipment, and circular economy practices

Technology is transforming how mines are designed, operated, and maintained. Automation, artificial intelligence, IoT-enabled remote monitoring, and predictive maintenance are improving efficiency, safety, and environmental performance while reducing operational costs. These innovations not only enhance productivity but also contribute to sustainability goals by lowering energy consumption, minimising environmental impact, and improving worker safety.

Mining is evolving into a sustainability-led and technology-enabled industry. Mines that successfully integrate low-carbon strategies with digital innovation will be best positioned to meet future demand, secure stakeholder trust, and maintain long-term competitiveness in an increasingly responsible and interconnected global economy.

Solutions for mine safety

Enhancing Mine Safety with Intelligent Fluid Flow Solutions

Underground mining presents a range of safety challenges that require reliable and efficient fluid-flow systems.

Armstrong intelligent pumping and control solutions support critical safety functions, helping mining operations protect personnel, maintain regulatory compliance, and ensure operational reliability.



Dust Suppression

Airborne dust generated during drilling, blasting, and material handling can lead to serious health risks, including respiratory diseases, as well as increased explosion hazards. Effective dust suppression systems rely on dependable water delivery.

Armstrong pumps provide flow and pressure for sprays and misting systems, ensuring efficient energy use for dust suppression and improved air quality throughout the mine.

Dewatering

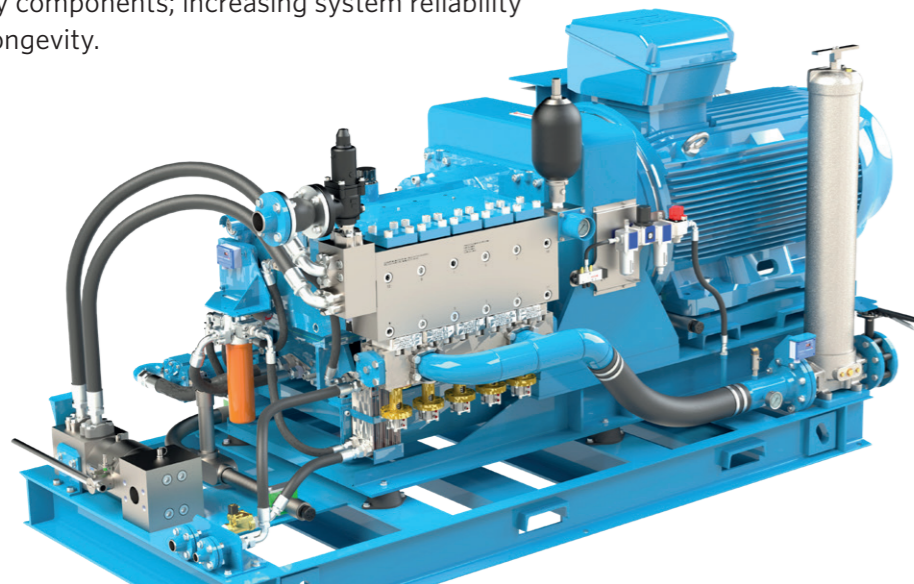
Water ingress is a constant challenge in mining operations, posing risks of flooding, ground instability, and equipment damage. Effective dewatering systems are essential to maintain safe and accessible working conditions.

Armstrong robust, high-efficiency pumps ensure continuous removal of groundwater and process water, minimising potential downtime and safeguarding personnel and infrastructure.

Roof Supports

Hydraulic roof supports are essential for maintaining the structural stability of the working face in underground mines. Hydraulic pressure emulsion fluid (water/glycol) is needed to operate the roof supports in sync with the cutting operation to prevent roof collapses, maintain structural stability, and ensure miner and equipment safety.

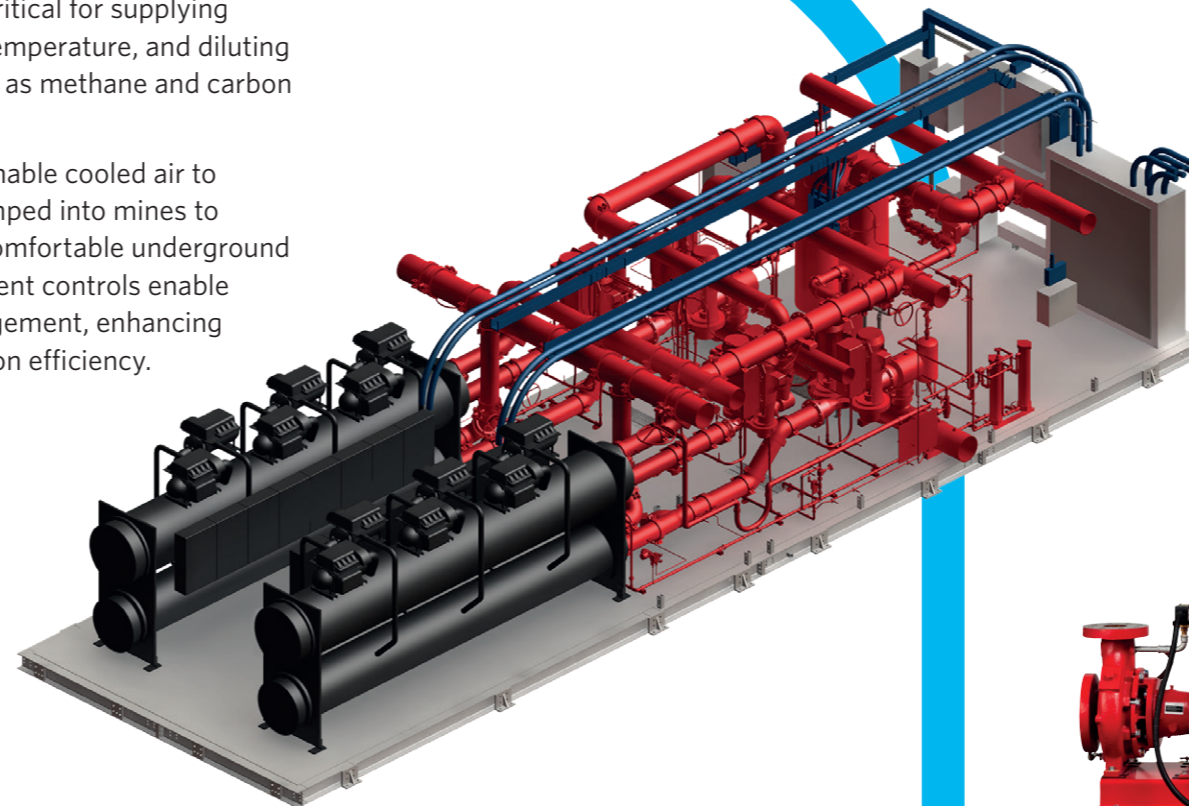
Armstrong intelligent high-pressure pumping systems deliver reliable fluid supply to the roof supports, inline with system demand. Our S range pumps operate using demand based, variable speed control to ensure operation at best energy efficiency and support system longevity, through controlled ramp up and down – resulting in lower energy use, reduced carbon, smoother system operation and controlled top up of accumulators; reducing pressure spikes and wear on key components; increasing system reliability and longevity.



Ventilation

Proper ventilation is critical for supplying fresh air, controlling temperature, and diluting hazardous gases such as methane and carbon monoxide.

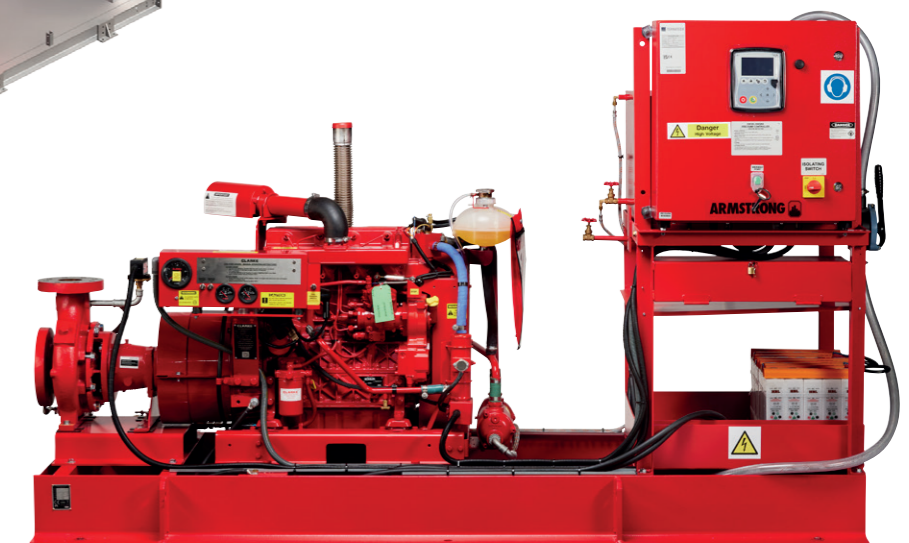
Our HVAC systems enable cooled air to be generated and pumped into mines to maintain a safe and comfortable underground environments. Intelligent controls enable precise system management, enhancing both energy and carbon efficiency.



Fire Protection

Fire represents a significant hazard in underground mines. Reliable fire protection systems depend on immediate and sustained water supply.

Our fire protection pumping solutions provide dependable performance for fire suppression systems, that ensure readiness in emergency situations. We offer both diesel and electric fire sets or complete packaged solutions which are fully compliant with the latest UL, FM, ULC and LPC regulations.



For full product range and specification details, please visit our website:
armstrongfluidtechnology.com/en/industrial/home



Efficiency That Drives Sustainable Mining

Armstrong Fluid Technology provides advanced pumping, heat transfer, and digital control technologies that help mining operations maximise productivity while minimising energy consumption and operating costs. By integrating high-efficiency equipment with intelligent controls and real-time performance analytics, Armstrong solutions enable mines to operate more sustainably and reliably in even the most demanding environments.



Ventilation and Cooling

Maintaining optimal temperature and air quality is essential for worker safety, productivity and equipment performance in underground and surface mining operations.

Armstrong high-efficiency pumps support HVAC and cooling systems to deliver precise temperature and humidity control while reducing energy use.

Our Design Envelope intelligent pumps operate using variable speed and parallel sensorless control in-line with demand to ensure the system is always operating effectively, ensuring optimal performance, minimising energy waste and carbon emissions.

Waste Heat Recovery

Mining operations generate significant amounts of waste heat from ventilation air, compressors, generators, and processing equipment.

Armstrong heat transfer and pumping solutions enable the capture and redistribution of this thermal energy for other operational needs. By converting wasted energy into a valuable resource, mines can significantly reduce energy consumption, lower carbon emissions, and enhance overall site efficiency and sustainability.



Washing & Cleaning

Efficient washing and cleaning processes are critical for maintaining equipment performance, improving mineral quality, and reducing maintenance requirements.

Armstrong intelligent pumping solutions provide consistent water flow and pressure for applications such as ore washing, vehicle cleaning, and facility sanitation. The robust design ensures dependable operation in abrasive and demanding environments, while smart controls optimise water and energy usage.



Nobody sees the whole system the way Armstrong does.

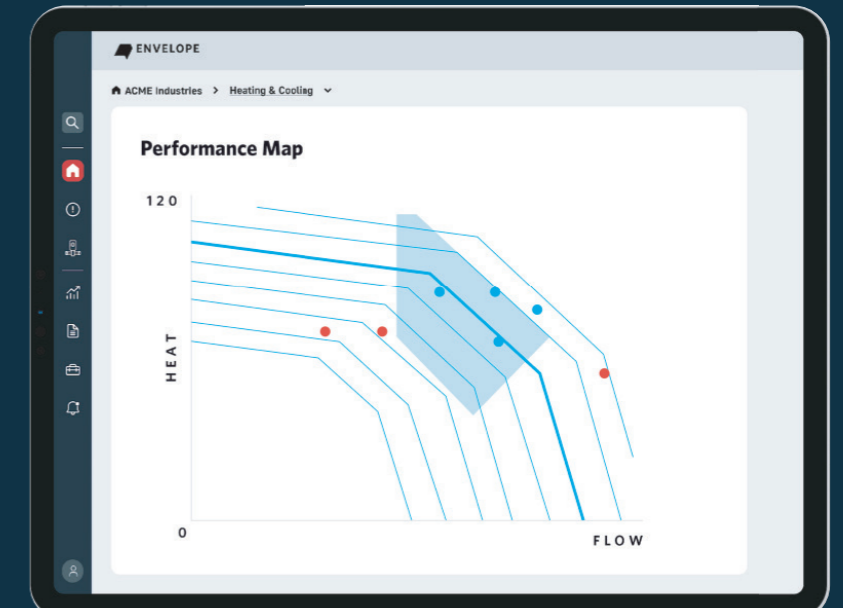
Envelope is an integrated digital platform that unites Armstrong and partner solutions, delivering optimisation through performance mapping, cutting-edge analytics and lifecycle services.

Performance mapping is a core element of Envelope that allows us to continually optimise performance through cutting-edge analytics and lifecycle services.

Changes in system performance can be detected at an early stage and enable early intervention (if required) to ensure efficiency is maintained. Predictive analytics also maximise uptime, reduce maintenance costs and risk.



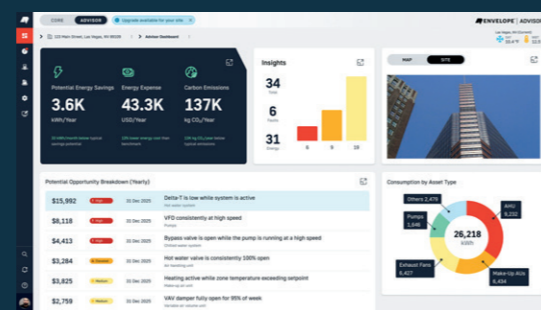
Scan the QR code for further information.



Continuous Optimisation

Delivering efficiency and sustainability

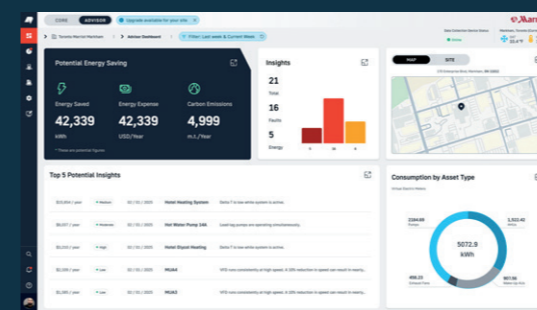
Manage



Envelope Core

Track and analyses performance data to identify and predict performance issues and provide actionable insights.

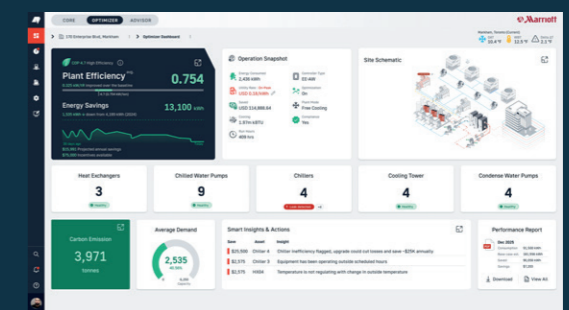
Analyse



Envelope Advisor

Portfolio-level performance auditing to provide analysis and recommended actions.

Optimise



Envelope Optimiser

Integrated performance management system provides analytics and insights through a cloud-based user interface.

360 SERVICE
AND
SUPPORT

**24/7 GLOBAL
RAPID RESPONSE**

With operations in the UK, USA, India, China and Australia our customers benefit from local specialist service support. Our highly skilled service engineers provide complete peace of mind and are ready to visit site whenever needed.

Commissioning - Local engineers available to commission your new system and fast-track productivity.

Training - Onsite training for facility engineers and operators to ensure that they are equipped to operate the equipment safely and execute routine maintenance tasks.

Service/Repairs - Maintenance visits, annual service contracts or emergency repair plans delivered by our expert engineers, which can be tailored to your individual site needs and budget.

Overhauls/Upgrades - Scheduled (on or offsite) maintenance to enhance your system longevity, to bring your equipment performance back to peak performance.

Spare parts and kits - Our genuine spare part modules and kits are designed to ensure you have the right set of components on hand, when needed, to avoid delays waiting for deliveries. And as we continuously improve the design and materials of our solutions, our latest generation genuine spare parts effectively upgrade older equipment's to better than new during repairs/overhauls.

For full product details and specifications, please see the relevant product pages on our website for brochures, design submittals and data sheets can be found.



Scan the QR code for further information.

Keep up to date with the latest news, events and launches from Armstrong **Industrial** by connecting with us on LinkedIn.



Search
Armstrong Fluid Technology Industrial