Our solutions for the mining industry
Hauptüberschrift

Optionale zweite Zeile

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We keep mines running
Over 100 years of experience matters!

There are few industries where safety plays such an important role as in mining. Every step must be carefully planned and every decision is critical to ensure efficient and safe mining operation.

For over 100 years, no other company has committed more to miner’s health and safety than Dräger. For generations, miners have relied on Dräger to provide quality products to protect their lives.

The history of Dräger and that of mine rescue date back to 1903 when Bernhard Dräger devised the first breathing apparatus during a physiological self-test after the mine disaster in Nova Scotia, Canada. The first documented application of oxygen rebreathers, the Dräger breathing apparatus, for work and rescue in the mining industry was during the devastating mine disaster in 1906 in Courriers, France. The new possibilities offered by Dräger’s breathing apparatus paved the way for the emergence of a completely new profession “mine rescue”. In North America, mine rescuers are called “Drägerman”, even today.

The further development of breathing apparatus for the mining industry was represented by the Dräger Model 1924, which dominated the market for over ten years with its long duration breathing protection for up to two hours. In 1963, the Dräger BG 174 was introduced and has been used for over 40 years in underground mine rescue. Today, mine rescue teams in different parts of the world are equipped with the new generation of close circuit breathing apparatus – the Dräger PSS BG4 plus, which has been developed and constantly improved to provide the highest breathing protection and the best possible comfort for up to four hours.

Dräger is proud to have played a role in creating mine rescue history with these products. To stay abreast of the evolving requirements in today’s complex work environment, Dräger supplies a broad spectrum of safety equipment – from respiratory protection and gas detection for daily operational safety to self-contained self rescuers and refuge shelters for emergency situations. All these products can be combined and used as an integrated safety concept to improve mine and workplace safety. In addition, Dräger also offers a selection of professional service and support programs, from product maintenance and inspection to training courses, to meet individual customer’s needs.
Our solutions for Fitness for duty

**ALCOHOL AND DRUG TESTING**
To support you to eliminate the inherent risks associated with drug use and alcohol abuse from mining operations, Dräger offers a range of alcohol breathalyzers and saliva based drug testing equipment for non-invasive alcohol and drug testing at the workplace.

**BREATHE ALCOHOL IGNITION INTERLOCK DEVICE**
To enhance your road safety and traffic management on mine sites, Dräger’s breath alcohol ignition interlock device can be installed on mine vehicles to prevent mine vehicle operators from operating the vehicle under the influence of alcohol.

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**Dräger Alcotest® 7510**
The Dräger Alcotest® 7510 delivers quick and accurate measurement of breath alcohol concentrations, even at sub-freezing temperatures. It also allows passive measurement without a mouthpiece, such as measurement of alcohol inside an underground vehicle.*

**Dräger Interlock® 7000**
The Interlock® 7000 is a breath-alcohol measuring instrument with a vehicle immobilizer, which prohibits a driver from starting the engine after alcohol consumption. It works perfectly at -45 °C in cold winter days and at 85 °C in blazing sunlight.*

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**Dräger DrugTest® 5000**
With cutting-edge oral fluid drug testing technology, the Dräger DrugTest® 5000 system allows a discreet and hygienic approach with reliable and precise testing results for drug management in the mines.*

*For law enforcement purposes in the U.S.
For mining operations, Dräger offers tailor-made systems to facilitate training programs for personnel involved in certain tasks in their workplace such as confined space entry.

For emergency response training programs, Dräger designs and supplies customized training galleries to enhance the responder’s skills in areas like orientation, communication, rescuing casualties and sharpening reactions relying on senses other than sight.

**Stationary Training Gallery**

Designed and constructed according to the specific customer requirements, the Dräger stationary training gallery offers breathing apparatus users a perfect platform to practice their tasks under mental and physical stress situations.

**Mobile Training Gallery**

Available in variable sizes and with different fittings, the Dräger mobile training gallery allows rescue drills to be simulated and conducted independent of location.

**Confined Space Entry (CSE) Trailer**

The Dräger CSE trailer facilitates hands-on training programs, enabling users to get to know the hazards and dangers associated with working in confined space and be familiarized with the rescue techniques.
Our solutions for
Mine Exploration, Planning and Construction

RESPIRATORY AND EYE PROTECTION
For health and safety during mine exploration and construction, Dräger provides a wide range of respiratory protection masks and protective eyewear to protect you against fine dust and particles during exploration drilling and core sampling.

PORTABLE GAS DETECTION
To warn you against invisible hazardous gases and oxygen deficiency during core drilling and mine development, Dräger provides a comprehensive line of gas detection products tailored to your scope of work.

Dräger X-plore® 1300/1700 series
Equipped with the specially engineered CoolMAX™ exhalation valve, the Dräger X-plore® 1300/1700 series offer effective protection against fine dust with very low breathing resistance and allow the user to stay cool underneath the mask.

Dräger X-pect 8320
Combining the best possible wearer comfort, high safety standards and an attractive design, the Dräger X-pect 8320 is designed to provide special protection to your most important sensory organ: the eye.

Dräger X-am® 2500
The 1 to 4-gas detector Dräger X-am® 2500 is a cost effective multi gas monitor for the measurement of combustible gases and vapors, oxygen as well as toxic gases including H₂S, CO, NO₂, and SO₂.
TECHNICAL SUPPORT FOR EMERGENCY ESCAPE SYSTEM
To support you with your planning of emergency escape strategy, Dräger offers technical support for emergency escape systems tailored to the specific needs and requirements during the mine planning and construction phase.

Dräger Refuge Chamber
Thanks to its modular design, the Dräger Refuge Chamber can be designed in accordance with the specific needs along the mine development process to offer the highest possible protection to the occupants.

Dräger Polytron® 7000
With the possibility to use pre-calibrated DrägerSensor, the Dräger Polytron® 7000 is a virtually maintenance free and intrinsically safe transmitter that can satisfy all oxygen and toxic gas measurement applications on a single platform.

TECHNICAL SUPPORT FOR GAS DETECTION SYSTEM
Combining the innovative technology and the competencies of Dräger’s gas detection system engineers, Dräger provides technical support to help customers to find the best possible systems to facilitate the ventilation planning of a mine site.

Technical support
In addition to a wide range of products that can be used to support the mine ventilation and mine emergency escape plan, Dräger also provides technical support to ensure the most suited solutions are selected to meet your needs.
Our solutions for Opencast Mining

**RESPIRATORY PROTECTION**
Whether for blasthole drilling or operating dragline or other mining machines, Dräger offers a wide range of high quality respiratory protection masks, both disposable and reusable, for effective protection against dust and particulate matters.

**EYE PROTECTION**
To mitigate the health risks caused by the dust generated at opencast mining operations, Dräger’s protective eyewears provide high level protection of the most important sensory organ – the eyes.

Dräger X-plore® 1300/1700 series
Equipped with the specially engineered CoolMAX™ exhalation valve, the Dräger X-plore® 1300/1700 series offer effective protection against fine dust with very low breathing resistance and allow the user to stay cool underneath the mask.

Dräger X-plore® 3000 series
Constructed with the Flexi-Fit harness and X-guided strap system, the Dräger X-plore® 3000 series ensures optimum weight distribution and a safe seal without pressure points, while guaranteeing a wide and unrestricted field of vision.

Dräger X-pect 8320
Combining the best possible wearer comfort, high safety standards and an attractive design, the Dräger X-pect 8320 is designed to provide special protection to your most important sensory organ: the eye.
PORTABLE GAS DETECTION
To prevent mining accidents and improve mine safety, Dräger offers a comprehensive line of portable gas detection products to ensure timely identification of potential hazards during opencast mining operations.

DIESEL EMISSION TESTING
For preventive maintenance and compliance with safety regulations, Dräger’s robust diesel exhaust gas tester allows emission testing under harsh mining conditions.

Dräger X-am® 2500
The 1 to 4-gas detector Dräger X-am® 2500 is a cost effective multi gas monitor for the measurement of combustible gases and vapors, oxygen as well as toxic gases including H₂S, CO, NO₂ and SO₂.

Dräger Pac® series 3500/5500/7000
The Dräger Pac® series combines fast, accurate single gas detection with ease of use and peace of mind. With clear alarms and a language-free display, each instrument uses the latest sensor technology to ensure the most reliable results.

Dräger MSI EM 200-E
Equipped with three electrochemical sensors, CO, NO and NO₂, the Dräger MSI EM200-E diesel exhaust gas tester allows accurate measurement of CO and nitrous fumes in the undiluted diesel exhaust gas.
Our solutions for
Underground mining of metal/non-metal

RESPIRATORY AND EYE PROTECTION
Whether for drilling, extracting or loading, Dräger’s respiratory protection masks and protective eyewear offer the wearer not only effective protection against fine dust and particulates, but also simple handling and high wearing comfort.

PORTABLE GAS DETECTION
For your underground mining operations, Dräger offers a comprehensive line of gas detection products to meet the needs of various applications, from personal air monitoring, fire and explosion prevention to confined space entry and post blast inspection.

Dräger X-plore® 3000 series
Constructed with the Flexi-Fit harness and X-guided strap system, the Dräger X-plore® 3000 series ensures optimum weight distribution and a safe seal without pressure points, while guaranteeing a wide and unrestricted field of vision.

Dräger X-pect 8320
Combining the best possible wearer comfort, high safety standards and an attractive design, the Dräger X-pect 8320 is designed to provide special protection to your most important sensory organ: the eye.

Dräger Pac® 7000
The Dräger Pac® 7000, with unlimited instrument lifetime and extensive data logging capabilities, can be used to measure a variety of gases including CO, CO₂, Cl₂, HCN, H₂S, NH₃, NO, NO₂, O₂, PH₃, SO₂ and organic vapors.
STATIONARY GAS DETECTION SYSTEM
For ventilation monitoring of toxic gases underground, Dräger provides accurate and reliable stationary gas detection systems to protect the workforce and speed up post blast clearance.

DIESEL EMISSION TESTING
For preventive maintenance and compliance with safety regulations, Dräger’s robust diesel exhaust gas tester allows emission testing under harsh mining conditions.

Dräger Polytron® 7000
With the possibility to use pre-calibrated DrägerSensor, the Dräger Polytron® 7000 is a virtually maintenance free and intrinsically safe transmitter that can satisfy all oxygen and toxic gas measurement applications on a single platform.

Dräger Polytron® 8000
The microprocessor-based transmitter can be equipped with various electrochemical DrägerSensors, detecting oxygen or various toxic gases. In addition, it can be integrated into digital fieldbus systems providing additional diagnostic functions.

Dräger MSI EM 200-E
Equipped with three electrochemical sensors, CO, NO and NO₂, the Dräger MSI EM200-E diesel exhaust gas tester allows accurate measurement of CO and nitrous fumes in the undiluted diesel exhaust gas.
Our solutions for Underground mining of coal

**RESPIRATORY AND EYE PROTECTION**
Whether for drilling, shotcreting or loading, Dräger’s respiratory protection masks and protective eyewear offer the wearer not only effective protection against fine dust and particulates, but also simple handling and high wearing comfort.

**THERMAL IMAGING CAMERA**
For proactive and predictive maintenance, Dräger’s thermal imaging cameras certified by ATEX, IECEx and ETL/Intertek facilitate the control of spontaneous combustion in sealed areas and on conveyor belts, even in potentially explosive areas requiring equipment of device category M2 or 2G.

Dräger X-plore® 1700 series
Dräger X-plore® 1700 makes breathing easy and comfortable by ideally combining low breathing resistance and high filter performance in one mask. The CoolMAX™ valve efficiently releases humid and warm exhaled air to the outside.

Dräger X-pect 8320
Combining the best possible wearer comfort, high safety standards and an attractive design, the Dräger X-pect 8320 is designed to provide special protection to your most important sensory organ: the eye.

Dräger UCF 7000
The Dräger UCF 7000 thermal imaging camera is intrinsically safe (ATEX category M2 and 2G) and offers the maximum level of safety and reliability when using in potentially explosive atmospheres.
PORTABLE GAS DETECTION
To warn the underground personnel against hazardous gases associated with underground coal mining, Dräger offers a wide range of portable gas detectors that are ATEX, IECEx and CSA approved for areas requiring equipment of device category M1 or 1G and deliver fast, reliable and accurate measuring performance.

DIESEL EMISSION TESTING
For preventive maintenance and compliance with safety regulations, Dräger’s robust diesel exhaust gas tester allows emission testing under harsh mining conditions.

Dräger X-am® 2500
The 1 to 4-gas detector Dräger X-am® 2500 is a cost effective multi gas monitor for the measurement of combustible gases and vapors, oxygen as well as toxic gases including H₂S, CO, NOₓ and SO₂.

Dräger X-am® 5600
The Dräger X-am® 5600, with a dual infrared Ex and CO₂ sensor, offers the flexibility of tailor-made configurations to detect up to six gases including combustible gases and vapors, oxygen and various toxic gases specific to the desired application.

Dräger MSI EM 200-E
Equipped with three electrochemical sensors, CO, NO and NOₓ, the Dräger MSI EM200-E diesel exhaust gas tester allows accurate measurement of CO and nitrous fumes in the undiluted diesel exhaust gas.
Our solutions for Processing and Refining

**RESPIRATORY AND EYE PROTECTION**
Against particles, toxic gases and vapors appearing during the smelting and refining processes, Dräger offers a broad portfolio of respiratory protection masks and protective eye wear that can be combined to meet the different application needs to ensure effective protection and high wearing comfort.

**BODY PROTECTION**
When chemical agents are used during mineral processing, Dräger’s chemical protection suit series can provide different levels of protection against known and unknown hazardous substances and a high comfort through freedom of movement for a large variety of applications.

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Dräger X-plore® full face masks
The Dräger X-plore® 5500 full face mask is the right solution for environments where increased respiratory protection and a clear vision is mandatory. The masks are designed on the basis of the proven technology of Panorama Nova.

Dräger PAS Lite / PSS 3000
Thanks to the anti-static, impact resistant, lightweight space frame, the Dräger PAS Lite / PSS 3000 offers the wearer more comfort in the industrial applications and makes its cleaning and maintenance quick and easy.

Dräger CPS 7800
The reusable Dräger CPS 7800 (type 1b) provides excellent protection against mechanical influences and multiple gaseous, liquid, aerosol and solid hazardous substances and offers increased flexibility and comfort in confined spaces.
PORTABLE GAS DETECTION

Whether for personal air monitoring, workplace exposure monitoring or confined space entry, Dräger offers a comprehensive line of portable gas detection products that enable fast and reliable measurement of gas concentration levels at a relatively low cost of ownership.

Dräger X-am® 5000
The Dräger X-am® 5000 offers the flexibility of tailor-made configuration to measure up to five gases specific to the desired applications including combustible gases and vapors, oxygen and various toxics and organic vapors.

Dräger X-zone® 5500
The Dräger X-zone® 5500 in combination with the Dräger X-am® 5000 or 5600 gas detector can be used to measure up to six gases and extends the portable gas detection technology to an unique and innovative area monitoring system.

Dräger Polytron® 7000
With the possibility to use pre-calibrated DrägerSensor, the Dräger Polytron® 7000 is a virtually maintenance free and intrinsically safe transmitter that can satisfy all oxygen and toxic gas measurement applications on a single platform.

STATIONARY AND AREA MONITORING

For your mineral processing operations, Dräger’s stationary gas detection system can be used for continuous monitoring of the ambient air and detection of flames, while Dräger’s patented area monitoring system offers flexibility for short-term maintenance or turnaround tasks.
LONG DURATION ESCAPE
With different nominal duration between 25 to 60 minutes, Dräger chemical oxygen self-contained self rescuers are among the most commonly used self rescuers in the mining industry and can be incorporated into your self escape system according to the specific requirements.

SHORT DURATION ESCAPE
In an emergency situation Dräger filter or compressed air escape sets offer immediate and effective protection against toxic gases, vapors and particles for 15 minutes, enabling the wearer to reach their point of safety. Short duration escape devices are usually used in surface operations.

Dräger PARAT®
Dräger PARAT® Escape Hoods are designed to be easily donned, protecting users from toxic industrial and fire-related gases, vapors and particles during escape. Different packaging and accessories are available to suit the specific needs.

Dräger Saver CF
Simple to put on and featuring practically automatic operation, the Dräger Saver CF is a hood-based, positive-pressure breathing device that can be used with minimal training as an escape set in surface operations.

Dräger Oxy 3000/6000
Thanks to the robust and state-of-the art design, the Dräger Oxy 3000/6000 ensure not only immediate oxygen supply for 30/60 minutes upon donning, but also a ten-year service lifetime without additional testing and maintenance.
**FIRST RESPONSE AND EMERGENCY ESCAPE**
Depending on the specific emergency situation, the Dräger ChargeAir system presents a good alternative for emergency situations helping the workforce to escape from hazardous environment and also enabling trained personnel to perform immediate first response.

**LIFE SUPPORT SYSTEM**
In case of an emergency above or underground, Dräger tailor-made escape and refuge chambers or rooms provide a safe haven for mine workers until the situation has been brought under control or help has arrived.

Dräger ChargeAir System
The Dräger ChargeAir system opens up a new possibility to enhance self escape and first response capability of underground personnel. It offers good communication possibilities and allows the simultaneous charge of up to five SCBAs in minutes.

Dräger BPU
Designed as one compact unit, the Dräger BPU can provide the occupants in a positive-pressure refuge chamber with breathable air for up to 96 hours through the regeneration of the exhaled air with Dräger’s proven soda lime.

Dräger Refuge Chamber
The Dräger Refuge Chamber can be designed as modular systems according to the specific escape and rescue plan on the mine site to offer the highest possible protection to the occupants.
Dräger’s helmet portfolio offers a high level of wearing comfort and safety. It can be combined with Dräger masks and communication devices for a complete head protection portfolio.

**HEAD PROTECTION**

Thanks to its innovative and ergonomic design the Dräger HPS® 7000 is one of the safest full-shell helmets. A comprehensive accessory program makes it a multifunctional system solution which provides the optimum protection during every operation.

**BREATHING PROTECTION**

Throughout history, Dräger’s breathing apparatus, especially the closed circuit breathing apparatus, has always been the first choice for mine rescue teams worldwide, protecting the mine rescuers during their mine rescue and recovery missions.

Dräger PSS 7000

The Dräger PSS 7000 is designed to withstand high level wear and tear, while enabling easy service and maintenance. A range of optional components can be selected to meet the specific needs of emergency response teams.

Dräger PSS BG 4 plus

Equipped with a fully electronic signal and warning unit the Dräger Bodyguard II, the Dräger PSS BG 4 plus provides the user maximum comfort and flexibility for long duration operation up to four hours, even in a toxic environment.
PORTABLE GAS DETECTION

Even under the toughest conditions, Dräger’s portable gas detection portfolio allows accurate gas measurement and facilitates mines rescue teams to evaluate the environment before re-entry, during rescue and recovery.

THERMAL IMAGING CAMERA

When vision is impaired by dense smoke or darkness, Dräger’s thermal imaging cameras are invaluable tools for casualty search and situational assessment in the event of a mine fire or explosion, fire fighting and similar emergency response situation.

Dräger UCF 9000

The Dräger UCF 9000 is a thermal imaging and digital camera in one. With its integrated video camera the Dräger UCF 9000 can be used to record operations and training situations underground live for in-depth analysis.

Dräger X-am® 7000

The high performance built-in pump and the possibility of integrating different types of sensors make the Dräger X-am® 7000 the perfect multi gas detector for emergency response teams to perform mine environment evaluation.

Dräger-Tubes®

With a tradition of nearly 80 years, Dräger-Tubes® are a reliable source for spot measurement and precautionary warnings in various mining applications such as the testing of the effectiveness of ventilation systems.
Our solutions for Cleaning, Disinfection, Maintenance

WORKSHOP SYSTEM
Dräger also offers complete workshop systems – from conceptualization to individual configuration, for process optimization and efficiency improvement in both existing and planned workshops.

CLEANING AND DISINFECTION
For manual and machine cleaning and disinfection of personal protective equipment, Dräger offers a range of detergents and disinfectants as well as washing machines and driers suited to different needs.

Customized workshop system
Dräger’s customized workshop system can be equipped with service and testing devices, washing and cleaning/disinfection systems and recharging compressors with air quality monitoring and safety filling ramps.

Sekusept® Cleaner
Sekusept® Cleaner is a concentrated liquid cleaning agent for manual cleaning of respiratory masks, breathing protection equipment, diving apparatus and chemical protective suits before disinfection.

Incidin® Rapid
Incidin® Rapid is a liquid disinfectant concentrate for the disinfection of respiratory masks, breathing protection equipment, diving apparatus, chemical protective suits, drying cabinets, work surfaces and floors.
BREATHING GAS LOGISTICS
Dräger’s compressors and booster pumps allow a quick and reliable filling of breathing gases to ensure your Dräger breathing apparatus are ready for use at all times.

TEST AND CALIBRATION SYSTEM
Dräger’s easy-to-use test and calibration equipment enable optimum care and maintenance of Dräger personal protective equipment and portable gas detectors and facilitate data and fleet management.

**Dräger Test-it 6100**
The Dräger Test-it 6100 is a lightweight and easy-to-use mobile test device especially designed to test all functions of the Dräger PSS BG4 plus at an attractive price and low operating costs.

**Dräger X-dock® 5300/6300/6600**
The Dräger X-dock® series enables automated and simultaneous tests and calibration of up to ten instruments at high speed with low gas consumption and facilitates the management of relevant data for subsequent evaluation.

**Dräger DOB 200 ECO**
Fitted in a robust roller case, the Dräger DOB 200 ECO is a mobile, robust and effective booster pump, which allows the simultaneous refilling of up to four oxygen cylinders used in the Dräger PSS BG 4 plus.
Our solutions for your Service needs & requirements

**CUSTOMER SERVICES**
Before, during and after your purchase and use of Dräger safety equipment, our customer services around the world are always there to answer your questions and make sure your needs are addressed in a timely manner.

**DRÄGER SERVICES**
As an integral part of our commitment to support the effective health and safety management of our customers, Dräger offers a wide range of flexible services to meet specific needs and requirements – from maintenance and repair of individual units to comprehensive service packages.

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**Customer support**
From general information inquiries to technical issues, a team of Dräger customer care and technical specialists are available to assist you with your inquiries online, via telephone or on site.

**Device service**
DrägerService or authorized service partners perform inspection, testing, maintenance and repair of your Dräger safety devices according to the maintenance plan or as required to ensure the device is always in the best condition for usage.

**Customized service package**
Tailored to your specific needs and requirements, DrägerService offers a range of service contracts to ensure you can have the best possible service packages for the maintenance and management of your Dräger safety equipment.
DRÄGER ACADEMY
Protecting life is the top priority at Dräger – realized not only in the premium quality of our equipment but also in our practical trainings and seminars at the Dräger Academy.

SHUTDOWN AND RENTAL MANAGEMENT
Whether for temporary demand or for the management and maintenance of safety equipment in daily use, Dräger Shutdown & Rental Management provides you with the safety devices and services required to reduce your downtime and increase your flexibility without a long-term investment in additional equipment.

Service technicians training
Dräger Academy provides training and certification in use, service and maintenance of Dräger safety devices in accordance with the corresponding regulations and service requirements of the devices.

Safety Shop
The Dräger Safety Shop is a fully equipped mobile container with safety and personal protective equipment. The specific issue of materials and their optimized servicing reduces costs and ensures that fully functional equipment is always available.

Rental Robot
The Dräger Rental Robot provides automated material logistics for your safety equipment, allowing registered users to obtain the correct safety equipment and the required consumables – at any time and close to the location of use.