



At your side in maintenance and repair work

# “Maintenance work

can often be seriously risky for our employees  
and **our plant.**”



## **Keep downtime to a minimum**

When it's necessary to conduct maintenance and repair work at your plant, you need to plan professionally to ensure that the process runs correctly – and safely. Once the machines have stopped, precise and target-oriented action is required to keep downtime to a minimum. In such situations, it is advantageous to have materials and experienced safety personnel that are available at short notice. A safety management concept devised by professionals allows you to reduce the risk of accidents and unwanted occurrences while maintenance is ongoing.

## **Recognise dangers and react accordingly**

Whether the interventions in your day-to-day processes are planned or unexpected, guaranteeing the safety of your employees is always your highest priority. To achieve this, you need safety equipment that protects them from direct contact with hazardous substances, and your employees require appropriate tuition and training so that they are well prepared to conduct high-risk assignments safely. For example, mobile gas-measuring devices can be helpful in recognising dangers when work involves operating in cramped spaces such as tanks or pipes.



#### Solutions that meet your requirements

Whether you need area surveillance or a personal gas-measuring device – take advantage of Dräger’s comprehensive selection of gas-measuring technology to recognise dangers quickly and safely when they appear. Mobile gas-measuring devices reliably activate alarms – both audible and visual – when permissible values are exceeded. Dräger’s personal protective equipment, with its system protection concept, is equally reliable: components are optimally coordinated with one another, technically and ergonomically. It’s a system that is both sensible and complementary, and it provides your team members with the safety they require to conduct their work with as few hazards as possible. Additionally, you can cover a short-term increase in requirements flexibly and cost-effectively using our rental appliance pool for safety technology.

#### Expertly advised and well trained

Depending on your on-site requirements, Dräger can support you with safety technology when you need to conduct maintenance work. We take responsibility for any safety measures that may be necessary by providing qualified personnel and, with our On-Site Service, we supply a complete, immediately applicable range of safety equipment from dust masks and mobile gas-measuring devices to compressed-air hose appliances. Dräger service technicians can also manage the entire maintenance of your measuring and respiratory protection devices at your location. In the case of breakdowns, we can support you with replacement devices and the quick repair of your safety equipment. Our comprehensive range of services is complemented by target-oriented training measures.

“In emergencies, what helps is **know-how,**  
**routines** and **proven technology.**”

Stefan Dräger






“Due to excellent preparation and equipment, everything here is working as planned. We’re within budget and on schedule.”

**Carl R., 39, maintenance manager**



A full-page photograph of a worker in a blue uniform and white hard hat working on a green industrial tank. The worker is holding a black cable and a red tool. The tank has a blue valve on the right side. The ground is covered in gravel.

**Holger H., 32, safety guard**

“Hopefully we can get this work finished without any major incidents.”

**Marcus W., 29, user**

“Thanks to my reliable equipment, I can do my job safely and with full focus.”



### Increased safety through constant workplace surveillance

- Mobile and stationary solutions plus time-limited area surveillance to protect people and appliances
- More than 80 sensors for hundreds of different hazardous substances
- Rapid reaction to increased gas concentration thanks to short sensor response times
- Long sensor life cycles for predictability in planning follow-up costs

### Breathe safely even under difficult conditions

- A range of masks with high level of wearing comfort for day-to-day use
- More than 60 filters for appropriate protection during different activities
- Solutions for external respiratory air supply allow for safe working even in environments with critical concentrations of hazardous materials or insufficient oxygen

### Protective suits and eyewear for safety from head to foot

- A wide selection of protective suits for reliable protection against solid, liquid or airborne hazardous substances, e.g. when performing cleaning or refilling work
- Selected protective work glasses with a high level of wearing comfort for daily use – can be easily combined with respiratory protection masks for effective protection















#### **Individual escape concepts from escape hoods to safe rooms**

- Filter escape devices for use in environments with sufficient oxygen content
- Oxygen self-rescuers for protection independent of the surrounding air for up to 60 minutes
- Reusable air-pressure escape devices for normal escape situations that provide protection for 10 to 15 minutes
- Mobile or stationary safe rooms provide a constant atmosphere and a safe place for up to 96 hours

#### **Service and training**

- Hands-on training and tuition for the necessary expertise when using personal protective equipment and gas-measuring technology
- Low-price provision of material from the Dräger rental appliance pool (65,000 appliances available) to cover increases in requirements
- Professional support – Dräger safety personnel for personal protection, surveillance of critical work or project management in the event of a complete stoppage
- Comprehensive service network for the reliable maintenance of your safety equipment

#### **Preventive alcohol and drug detection at the workplace**

- Results can be read immediately
- Precise evaluation on site



“Because we recognised the **risk of gas**  
quickly, we had the situation back  
**under control** straight away.”



## Our solutions for your challenges

### Reduce risks with comprehensive training

In confined space entry training, your employees develop and improve their ability to work safely in cramped and confined spaces. Under the supervision of expert personnel, our mobile training facilities provide the ideal conditions for exercises. Usage seminars that are individually adapted to suit your requirements give your employees ideal preparation for working safely. In addition to learning to handle their personal protective equipment correctly, they also receive instruction in emergency measures. Dräger works with you to achieve a shared goal: as many days as possible without accidents, breakdowns or unexpected occurrences.

### Optimal interaction of different components

It is easier to prevent accidents when your employees can fully concentrate on their work because their equipment is so comfortable to wear and intuitive to operate. Dräger's equipment offers you modern system solutions: the individual components of personal protective equipment are perfectly coordinated with one another – for example the combination of respiratory air supply and chemical protection suits.

### Flexible in use and exact in recognition

Gas-measuring technology from Dräger is available in a wide range of appliances and configurations depending on the area of use. There are systems for both stationary and mobile surveillance of entire sectors during maintenance work or in the event of a production stoppage. In addition to sounding a warning for employees, production equipment such as welding machinery can be switched off immediately if an alarm goes off. Ensure the straightforward and comprehensive recognition of danger by using Dräger's robust measuring devices and prevent expensive false alarms.

### Support and service tailor-made for your requirements

Safe your ongoing operations: our worldwide sales and service network provides you with the devices and replacement parts you need and can take responsibility for the maintenance of both Dräger products and third-party appliances. Should you require extensive repairs or tests, you can deliver your devices to a Dräger workshop – if you wish, we will provide you with an appropriate replacement model. Thanks to our rental appliance pool with more than 65,000 appliances, you can always count on rapid support from Dräger in times of increased need.



## Product and service portfolio

### **Workplace and usage consulting**

Comprehensive sales network, online hazardous substances database (VOICE), basic knowledge regarding gas-measuring technology and personal protective equipment available online, escape concepts, consulting when it comes to planning your revisions, production stoppages or turnarounds

### **Personal protective equipment and gas-measuring technology**

Masks, filters, protective work glasses, protective suits, respiratory protection devices that are independent of surrounding air, escape appliances, mobile and stationary gas-measuring technology, preventive alcohol- and drug-measuring technology

### **Comprehensive service network**

On-site device service; DrägerService workshops for service, maintenance and repairs; Dräger safety personnel, surveillance, protection and coordination

### **Hands-on training with the Dräger Academy**

Instruction and tuition, usage training, maintenance of safety technology, online training

### **Efficient and made to measure**

Financing, rental appliances from individual devices to fully equipped shop solutions on your premises, renting of safety personnel

### **Concepts for individual protection**

Respiratory air supply solutions, appropriate escape concepts and planning of escape chambers, stationary gas-warning systems, shutdown management



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