



**Technology in operation.**  
Protective equipment for military  
and safety forces.

COMPETENCE IN  
PERSONAL SAFETY  
TECHNOLOGY

# Our mission: Your safety.



STC1782-2006



STC204-2003

## No distance is too far, to meet your requirements.

Whether on land, under water, or in the air – whenever human breathing is at risk Dräger offers reliable protection.

For over 100 years, we have made it our duty to protect military and civil forces as they face their daily challenges. With this experience and comprehensive research and manufacturing know-how, Dräger has become synonymous with safe breathing. The motto "Technology for life" is both a claim and a challenge to 10,000 employees around the world.

Whatever your mission – detecting toxic gases, military diving, action under a possible NBC threat, or the implementation of an NBC collective protection system (COLPRO) – our products and system solutions provide a high degree of

reliability, allowing you to breathe easily in extreme situations. Thanks to decades of cooperating with armed forces around the world, we recognize precisely the requirements placed on military applications. Our employees, with their high degree of technical and product-specific knowledge, are true specialists in the development of user-specific solutions for hazard management.

Challenge our motto of "We provide solutions with regard to material procurement, maintenance and user training." It is our mission to give you the best support possible.





## While you do everything to complete your tasks, we are doing everything to reduce your risk.

Today's threatening situations sometimes pose unforeseen challenges to military and civil forces. Dangerous situations must be analyzed quickly, and forces given maximum protection during their mission. A maximum degree of security and reliability is always expected from equipment. That is precisely why Dräger refuses to make any compromises. With personal NBC protective equipment and a range of innovative products for the detection of chemical and biological hazardous substances, you can perform your tasks safely on site. We appreciate the responsibility that comes from the fact that using the correct equipment protects your life.

We systematically develop products and solutions based on the knowledge of your application areas, functional requirements and efficiency. Customers

around the world know and trust us as a competent equipment provider. Take advantage of our experience and know-how.

### Global player in terms of service

We make the provision of services our central issue. We ensure the availability of all components in almost every area of the world. Should you need us, we have access to a global network of service support points. This means your forces can rely on our logistical support and care at any time.



The Dräger group runs distribution and service companies in over 40 countries, ensuring that you receive support as quickly as possible.





ST-1127-2008

## Secure shelter against invisible enemies.

In an insecure environment, even breathing can be a risky business. Hazards in the ambient air do not introduce themselves; they have to be identified. Our modern measurement and detection systems provide quick and reliable warnings of any danger.

Bacteria, gases or unidentified chemicals – the air can contain a wide range of harmful substances. An effective protection concept against NBC hazards always follows the simple principle: identification, quantification and protection. This makes a reliable warning system the prerequisite for effective NBC protection. Using Dräger's most up-to-date sensor technology and analytical technology, toxic or threatening substances in the air can be detected in good time.

### This rules out risks.

Since the 1960s, our employees have been focusing their research on developing NBC protection technology. Today, Dräger manufactures complete

NBC protection systems, such as for the Leopard, Fox or Dingo – including personal protective equipment for the vehicle occupants. In order to work in tents and mobile equipment, while still benefiting from NBC protection, portable filter systems are indispensable. For this reason, Dräger filter and ventilation systems are developed for collective protection, and allow for simple transport and uncomplicated assembly on site.



D-1411-2009

NBC protection system  
AFU 100



ST-12863-2007

NBC protection system  
AFU 180 Portable



# Nothing passes unfiltered.



ST-128-2008



ST-190-2004

Collective protection systems (COLPRO) against NBC risks make it possible to supply breathable air to entire compartments, vehicles or containers. This way, a number of persons can be offered safe shelter at the same time.

Dräger's NBC protection solutions are among the leading solutions in the world. The principle is always the same for all shelters: Contaminated external air is taken in, cleaned by several filter levels, and then fed into the protected, airtight inner room (TFA – Toxic Free Area). The positive pressure built up in the TFA prevents the possible leakage of contaminated air into the inner room.

Dräger NBC protective systems offer effective protection against known threats, such as respirable dusts, contaminated particles, aerosols, bacteria, viruses, toxins, chemical warfare agents (CWAs), and toxic industrial chemicals (TICs).

The innovative filter system works with three consecutive filter levels: a coarse dust separator removes up to 98% of the coarse dust, and feeds it directly back into the external atmosphere. In the second level, special filter papers ensure that even the smallest particles of biological substances are retained. The remaining gases are bound by active carbon.

**Customer-specific protection concepts**  
Multifaceted demands on filters, vehicles and shelters – many of our systems are tailored to specific applications or the requirements of NATO partners. Share your requirements with us. We have the right solution for your task.



M48 EP US standard filter

ST-922-2008



NBC protection system SBL 100M

ST-21-2004

# Keeping dangers at bay is our job.



## We take your NBC protection personally.

Dräger products for personal NBC protection are optimally aligned in their functionality and handling. Users can trust in the maximum possible degree of protection, with maximum freedom of movement.

Full face masks and filters form a proven team against NBC risks. Together, they offer you an effective and comfortable personal protection system of the highest quality. Thanks to the range of different mask sizes, it is possible to find an optimal fit for almost any face. The Dräger M2000 full face mask, in combination with the F2000 filter, is designed to be used for up to 24 hours. The mask features exceptional wearing comfort, and can easily be combined with existing equipment.

With the Dräger CDR 4500 full face mask and the NBC civil protection filters, forces in the fields of civil protection and rescue services, e.g. in hospitals, are optimally equipped. Used in combination, these secure protection against biological and chemical warfare agents and hazardous substances.

### Approach hazardous areas without any problem:

A complete range of protective clothing allows you and your forces to safely complete your task.

A diverse range of materials and protective designs meet the strict demands for chemical resistance and mechanical resilience. The two designs of the Dräger NBC Master chemical protection suit allow you to wear the compressed air breathing apparatus inside or outside the suit. The proven and tested suit textile Himex M offers reliable protection against solid, liquid and gaseous chemicals, as well as NBC warfare agents. The light and comfortable Dräger Protec Plus splash protection overalls, which are made of Tychem®\* textile, offers protection against solid and liquid chemicals. Overalls are also available in olive-green for police and civil defense.



Dräger M2000



Dräger NBC Master 9x90

\*Registered trademark of E. I. Du Pont de Nemours and Company



## A good sense of danger?

With the growing threat posed by biological and chemical weapons, forces are increasingly asked to quickly and positively identify hazardous substances.

### In an emergency, every second counts.

The Dräger Bio-Agent Test product range offers quick immunological tests to identify the most hazardous biological substances. For example, Anthrax can be detected in suspicious powders and liquids.

Within a matter of minutes you have the results of the test – usable as single or simultaneous tests – and can evaluate them directly on site. The Dräger Bio-Agent Test is simple to operate and can also easily be operated while wearing heavy protective gloves. Just four simple handling steps lead to a reliable result: the sample is taken, put into a buffer solution, dripped onto the wicking pad, and the result obtained. No additional pipette or reader is required.

Dräger Civil Defense sets have been designed for rapid, problem-free detection of toxic gases and vapors. Two sets, each consisting of five Dräger tubes, form simple-to-use standard equipment for detecting chemical warfare agents – thus ensuring you can proceed safely.

### Hazardous substances database

At [www.draeger.com/voice](http://www.draeger.com/voice), our database provides information on laboratory-supported user information and hazardous substances, which could arise during a dangerous situation.



ST-534-2008

Dräger Bio-Agent Test



ST-6723-2006

Dräger Civil Defense Set



# Trouble-free breathing.



## Even under water you can put your trust in the highest safety standards.

Underwater missions require you to show maximum resilience and professionalism. You can expect precisely this from our products. Dräger diving apparatus protect and support you while you carry out your work.

Anyone whose mind is on the equipment is not concentrating on their job. Our goal is to ensure that you can give your full concentration to the task in hand while under water, without having to think about your safety. The simple operation of equipment plays a crucial role when working under water, which often involves being in the dark.

Whether ship diving, searching for mines or tactical diving with complete, antimagnetic equipment – whatever your mission, you can demand the appropriate equipment from us.

All application ranges have the same requirements, namely high functionality, low weight and high reliability under extreme climatic conditions.

On top of the actual diving apparatus, Dräger also offers a wide range of products, which ensures that you get all the necessary equipment for the job in hand from one source: from any conceivable accessories and complete filling systems, to mobile and stationary decompression chambers. We are also there for you for technical support, as well as service and maintenance tasks. On every continent.



Dräger Panorama  
Nova Dive



Dräger PSS Dive vfdB





## At home throughout the seven seas: Breathing management technology from Dräger.

We ensure that also your naval team can breath easily. Complete system solutions ensure a reliable air supply, ambient air regeneration and a monitoring of the atmosphere.

To ensure a high degree of physical and mental ability from crews working and living in tight spaces on submarines, there must be a reliable supply of breathing air. Breathing management technology from Dräger ensures that the CO<sub>2</sub>

concentration in the boat's atmosphere is kept to a low level. On submarines, this is achieved by using CO<sub>2</sub> bonding cartridges with Dräger's tried and tested soda lime. This provides safe breathing conditions on long missions.



Dräger soda lime

ST-448-2003



Dräger LAR 5000

ST-15412-2008

## 24-hour protection, everything under control.

Wherever Dräger products are used, their job is always the most important. Whether in clinical application, when fighting fires, in industrial tasks, by authorities or the military – it is always about protecting, saving and supporting lives.

Safety has many aspects. We have made it our task to find a solution for every situation. In many cases our solutions have become the global standard for safety.

Fire brigades around the world rely on Dräger's professional equipment. They must not only save other people, but must also protect their own lives. They can only take risks with personal protective equipment that meets the highest requirements.

Individual protective equipment and the use of gas detection technology also play an important role in industry. In many sectors, this equipment is essential in order to warn of and protect against potential hazards. The combination of user-friendliness, wearing comfort and reliability make Dräger products the obvious choice for employees to take with them on a daily basis.

Dräger is also setting the standard when it comes to alcohol and drug detection equipment. Quick, reliable results are prerequisite to avoiding the effects of possible misuse. Simple and hygienic operation simplifies the process for those giving and taking samples.

During decades of close cooperation with our customers, we have learned to listen. This is the only way that we can provide them with products that correspond exactly to their needs. This brochure can only show you a small selection of our product range. Please let us know how we can offer further assistance.





**NBC PROTECTION SYSTEMS**

**Air Filtration Unit AFU 100**  
Modular NBC protection system for all vehicle, container and shelter applications. Protects against nuclear, chemical or biological threats.



D-1411-2009

**Portable NBC protection system AFU 180**  
Portable NBC protection system against nuclear, chemical or biological threats. Suitable for mobile applications.



ST-12889-2007

**NBC protection system SBL 100M**

The Dräger NBC protection system, type SBL 100 M is a positive pressure ventilation system for vehicles and shelters.



ST-21-2004

**Dräger M48 EP US standard filter**

Originally developed for the US army, the combined filter is now the standard filter used in many vehicles worldwide.



ST-922-2008

**NBC filter systems**

Dräger has many NBC filters, in order to protect against gaseous warfare agents, aerosols and particles.



ST-48-2004

**PERSONAL NBC PROTECTIVE EQUIPMENT**

**Dräger M 2000**

Twin-visor full face mask for use with F2000 respiratory filters in hazardous environments.



ST-441-2003

**Dräger NBC-Master**

Reusable, gastight chemical protection suit, also suitable for fire fighting applications.



ST-5700-2004

**Dräger Protec Plus TF olive**

Light, comfortable splash protection overall, made of coated Tychem F textile. Available in olive for use by police, rescue services, civil defense and disaster control.



ST-4878-2005

**Dräger CDR 4500**

Single-visor full face mask for use with civil defense respiratory filters in hazardous environments.



ST-502-2008

**HAZARDOUS SUBSTANCE DETECTION**

**Dräger Civil Defense Sets**

Sets consisting of 5 Dräger tubes each for the simultaneous measurement and detection of chemical warfare agents and toxic industrial gases.



ST-6723-2006

**Dräger Bio-Agent Test**

Quick immune test to detect biological agents and toxins.



ST-547-2008

**DIVING TECHNOLOGY**

**Dräger FGT 5400**

Rebreather with NATO standard mixtures B, C or D for depths of up to 54 meters for mine clearance missions. Antimagnetic, in accordance with STANAG 2897, class A.



ST-1544-2007

**Dräger LAR 7000**

Rebreather for oxygen and/or mixed gas, switchable, for diverse missions. Antimagnetic, in accordance with STANAG 2897, class A.



ST-401-2008

**Dräger LAR 5000**

Closed rebreather for oxygen, for tactical missions and submarine lock-out. Antimagnetic, in accordance with STANAG 2897, class A.



ST-15412-2008

**Dräger DiveSorb pro**

Soda lime in pellet form ensures a high CO<sub>2</sub> absorption capacity to increase diving times.



ST-448-2003

**Dräger PSS Dive**

Compressed air breathing apparatus, which can be individually configured. It can be optionally fitted with full face mask or mouthpiece, single or double cylinders or a hose.



ST-2666-2004

**Dräger UT-402**

Using the hard wired transmitter/receiver unit, the surface controller is always in contact with the divers.



ST-2717-2004

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