



## Professional Safety Solutions

Our Products & Services



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## Our Markets and Customers



Since 1889, Dräger long-term success is predicated on a value-oriented corporate culture with four central strengths: close collaboration with our customers, the expertise of our employees, continuous innovation and outstanding quality.

Dräger has nearly 12,000 employees worldwide and is present in over 190 countries around the globe. The Group maintains sales and service organisations in over 40 countries.

The safety division offers its customers complete hazard management solutions with a special focus on personal safety and protecting production facilities. The safety division's current portfolio includes stationary and mobile gas detection systems, respiratory protection, firefighting equipment, professional diving gear, and alcohol and drug-testing instruments.

### **Dräger – Technology for Life®**

As an international leader in medical and safety technology, Dräger develops innovative equipment and solutions people over the world trust when lives are on the line. In clinical settings, industry, mining and emergency services, Dräger products protect, support and save lives.

"Technology for Life" means more than merely guaranteeing technical excellence. It means assuming responsibility for the lives of those who use our products and depend on them. Technology for Life is both our guiding principle and the central challenge that we draw on for inspiration and motivation.

### **Breath Alcohol and Drug Testing**

With more than 60 years of experience in breath alcohol detection, Dräger is one of the largest providers of breath testing devices for professional use. Developing drugs of abuse testing devices, Dräger offers the complete range of substance abuse detection.

### **Fire and Gas Detection Systems**

Dräger detection solutions are more than just fire and gas detectors.

Beyond just fire and gas detectors, Dräger Fire and Gas Detection systems provide 24/7 monitoring of the environment to protect the entire workplace and detect hazardous situations such as gas leak and outbreak of fire, protecting human lives and industrial facilities.

Drawing on our extensive experience, Dräger makes sure that the protection and monitoring equipment used in your workplace, where harmful gases can be present, is state of the art.

The modular design of many of our systems guarantees that your safety blueprint continues to meet all current and future requirements and that your investment proves worthwhile in years to come.

### **Breathing Air Systems**

Dräger provides customised breathing system, which includes compressors, cascade systems and portable units that can be made available for different industries and circumstances.

### **Training Galleries and Workshop Systems**

Safe, realistic and reliable, Dräger fire training systems and training galleries have been supporting fire departments and other emergency rescue services for over 20 years. Complete workshop system solutions can be tailored to your requirements and implemented based on your specified needs.

### **Military and Professional Diving Systems**

Dräger develops and markets compressors and gas boosters which provide military users and professional divers with reliable sources of breathing air and gases. From lightweight and sturdy mobile instruments to fixed systems, our outstanding designs, innovative technologies and excellent materials guarantee reliable products with life-cycles that span over decades.

## OUR MARKETS & CUSTOMERS

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Our solutions are applicable to many industries and environments that are dependent on product reliability for safety and protection. They include:

### **Fire Services**

Uncertainty and strain are inevitable in firefighting. However, there is one thing that is for sure; at any time, every firefighter can fully rely on his team members and the Dräger equipment. Our equipment offers personal protection and enables firefighters to rescue and save people and animals even under the most extreme and difficult conditions. For the daily operations in fire departments, Dräger offers a wide range of proven and innovative solutions – certified products and services which rescue teams can absolutely depend on.

### **Mining Industry**

Associated with the mining industry for over 100 years, we have made it our mission to provide the best possible safety measures for miners and the protection of their property. Our years of experience, combined with visionary technology, allow us to continually improve safety standards in the mining industry by providing intelligent solutions and products.

### **Oil, Gas and Chemical Industry**

There is always the threat of combustible gases and liquids leaks in any oil and gas production. For this reason, harmful substance emissions must be monitored at all times. The safety management requirements of the industry are as varied and diverse as the applications. Every plant is unique, and there are different potential dangers and risks involved in each situation. The amount of chemical processes as well as organic and inorganic substances

involving individual toxic hazards and explosion risks are almost unlimited. This means that in-depth know-how in terms of safety technology is essential.

Dräger combines specialised knowledge of both offshore and on-shore Oil, Gas & Petrochemical industries with a broad range of innovative products and an extensive service program – including maintenance, servicing, training and the supply of accessories – that can be optimally catered to individual requirements.

### **Government and Law Enforcement**

For many years, Dräger has been successful in developing solutions for police departments, customs authorities, the military, social rehabilitation institutions, law enforcement, and civil defence. We offer a wide range of products for civil and military applications. From gas detection devices, personal protection equipment, alcohol and drug detection devices, breathing apparatuses to military diving and NBC protection, Dräger products ensure the safety of individuals in all situations.

### **Dräger Safety in Asia Pacific**

Dräger Safety has now been directly active in the Asia Pacific region for more than 40 years, with offices in Australia, China, Indonesia, Japan, Malaysia, New Zealand, Singapore, South Korea, Taiwan Republic of China, Thailand, Vietnam and many more. With a staff of more than 1,300, we are able to provide round-the-clock technical support for our extensive client base.

Please contact your local partner or log on to [www.draeger.com](http://www.draeger.com) for more details on our sales, services and rental capabilities.

## Portable Gas Detection



## PORTABLE GAS DETECTION

Dräger portable gas detection instruments are capable of detecting even very low concentrations of hazardous gases and Dräger sensors can detect hundreds of toxic and flammable gases and vapours. Features such as self monitoring software, internal data logging, flexible calibration options and a range of internal or external pumps, allow us to tailor-make a solution for every need.



2-926-91

### Dräger-Tubes®

Dräger offer over 200 tubes for the detection of more than 500 different substances. Applications with appropriate accessories include: ambient air monitoring, stack gases, motor vehicle exhaust, pressurised gas line, compressed air contaminants and breathing air quality.



ST-2436-2003

### Accuro

The standard manual bellows pump for use with Dräger-Tubes®. Features one hand operation with integrated stroke counter & our "scissor" mechanics, for more accurate measurements.



D-12092-2010

### X-act® 5000

This automatic tube pump is designed for measurements with Dräger short-term and sampling tubes. With an IS approval, the Dräger X-act® 5000 can be used for sampling up to 30 meters in a confined space and in explosive gas atmospheres.



D-10392-2009

### Chip-measurement system

The Dräger Chip measurement system (CMS) is one of the most accurate and reliable portable gas detection systems currently available for measuring spot concentrations. Ideal for Benzene measurement down to 0.2ppm.



D-1652-2009

### Pac® 7000

The Dräger Pac 7000 single gas personal detector is a non disposable unit with concentration, TWA & STEL display & alarms and built-in data logger. Available for CO, H<sub>2</sub>S, O<sub>2</sub>, Cl<sub>2</sub>, NH<sub>3</sub>, PH<sub>2</sub>, NO<sub>2</sub>, SO<sub>2</sub>, HCN or CO<sub>2</sub>.



pac\_edited-1

### Pac® 3500/5500

The Dräger Pac® 3300 and 5500 are fast & reliable, accurate and maintenance-free single gas instrument. Pac 5500 has no lifetime limitation. Both ideal for the industrial protection monitoring of CO, H<sub>2</sub>S or O<sub>2</sub>.



D-27764-2009

### X-am® 5600

With a dual infrared sensor for the measurement of Ex and CO<sub>2</sub> hazards in inert atmosphere, the Dräger X-am® 5600 detect up to 6 gases simultaneously with the dual CO/H<sub>2</sub>S sensor and two other toxic gas channels.



ST-131-2004

### X-am® 7000

A personal gas monitor for 1-5 sensors with abundant features. Water submersible optional, strong internal pump (up to 45m), data logger, leak detection mode. Featured truly smart interchangeable Cat Ex and Infra-Red sensors for combustible gases or CO<sub>2</sub> as well as the ability to have a PID sensor for volatile organic compounds (VOC's). The instrument can also accept any 3 sensors from our wide range of smart long life Dräger Sensors XS EC, for the detection of toxic gases and oxygen.

PORTABLE GAS DETECTION



D-23602-2009

**X-Zone® 5000**

The X-am 5000/5600 personal gas detector is transformed into an area monitoring device when placed in the Dräger X-zone® 5000. Up to 25 X-Zones can be automatically interconnected to form a wireless fence to increase safety during work in Zone 0 area.



D-47800-2012

**X-Dock®**

The Dräger X-Dock series allows automatic bump testing and calibration at reduced test gas consumption and short test duration. At the same time, the networked database systems offer extensive documentation and evaluation.



Bump Test Station X-am 2000

**Bump Test Station**

The Dräger bump test station is designed to perform a function test or challenge test for portable instruments with gas. This test using a known concentration of gas is the only way to guarantee the reliable & accurate detection of gas hazards.



ST-5079-2005

**Calibration Gas**

Dräger supplies a complete range of calibration gases, regulators & other accessories to fulfill all your calibration needs.



ST-14952-2008

**Remote Measurement**

A complete range of hoses & probes allow you to customize your equipment for use in remote sampling and confined space monitoring.



D-2107-2011

**Infrared Sensors**

A high performance sensor for hydrocarbons or carbon dioxide. The Dräger Infrared sensor is used in the X-am 7000 & offers long life, oxygen independent measurement and total poison resistance.



D-34072-2011

**Catalytic Sensors**

For explosive gases and vapours, measuring % LEL & vol. %. This cost effective sensor is suitable for standard EX measurement applications. This sensor featured improvement in sensor life with a higher poison resistance to H<sub>2</sub>S and silicon.



D-12196-2010

**Electrochemical Sensors**

The Dräger XS Sensors do not require frequent calibration and are used in Dräger X-am 7000 and Dräger X-am 5100 for the measurement of 50 different gases and vapours.

The DrägerSensor XXS range has excellent long-term stability and short response times, which allows the user to be warned about dangerous gases quickly and reliably.

# Fire and Gas Detection Systems





## FIRE AND GAS DETECTION SYSTEMS

At Dräger, safety by means of detection goes beyond implying a standard assortment of detectors. Instead, it is about holistic/complete solutions that add up to more than the sum of their parts. Fire & gas detection systems provide 24 hour monitoring of the environment to protect the entire workplace. Dräger not only manufactures the sensors, transmitters & controllers but also provides complete packages including software integration in accordance to customer's specifications.

### FLAMMABLE DETECTION



ST-14427-2008

#### PIR7000/Polytron 5700/ Polytron 8700

Explosion-proof infrared optical transmitter in a SS 316L housing for continuous monitoring of flammable gases and vapours, offering most stable measuring signals under harshest conditions.



D-32406-2011

#### PIR3000/Polytron 5310/Polytron 8310

Economical infrared gas detector for continuous monitoring of combustible gases and vapours of up to 100 % LEL.



D-32407-2011

#### Polytron 5200/Polytron 8200

Explosion-proof, microprocessor-based gas detector with catalytic bead sensor, for continuous monitoring of combustible gases and vapours.



D-11169-2011

#### Polytron SE Ex/PEX 3000

Economical gas detector with catalytic bead sensor, for continuous monitoring of combustible gases and vapours.



ST-864-2001

#### Pulsar/Pulsar 2/Pulsar Duct Mount

Latest infrared technology in open path gas detection for clouds of a wide range of gaseous hydrocarbons on a path of 4 to up to 200 meters between transmitter and receiver.

### TOXIC DETECTION



D-52604-2012

#### Polytron 5000/Polytron 8000

Explosion-proof, microprocessor-based gas detector for electrochemical sensors, for continuous monitoring of toxic gases and oxygen in ambient air.



ST-3812-2003\_ref

#### Polytron 3000/Polytron 7000

Intrinsically safe gas detector for continuous monitoring of toxic gases and oxygen. High measuring accuracy alongside simple mounting and very easy operation.

**FIRE AND GAS DETECTION SYSTEMS**



D-46490-2012\_BECA

**PIR7200 / Polytron 5720 / Polytron 8720**  
 Explosion-proof, microprocessor- based gas detector with an open, double-compensated optical infrared sensor for continuous monitoring of CO<sub>2</sub>; with short response times and high signal stability.



D-6455-2010

**Variogard/Variogard 3x00**  
 Cost-efficient solution for non-industrial applications: modular gas detection system with digital bus to connect and manage up to 100 transmitters for various gases.

**FLAME DETECTION**



ST-341-2004

**Flame Detection Flame 1300/1700/2300**  
 A series of explosion-proof Flame detectors (IR, UV or combined UV/IR), which detect fires of substances that emit infrared or/and ultraviolet radiation; reliable and fast detection with high immunity to false alarms.



D-49077-2012

**Flame 5000**  
 Explosion-proof colour imaging based flame detector, using a live colour video signal to detect characteristic properties of flames by means of digital signal processing and software algorithms.

**CONTROL SYSTEM**



ST-340-2004

**Regard**  
 Modular control system for complex gas warning systems with different plug-in cards and modules for installation in a 19" rack.



ST-272-2004

**Regard 3900/ 3910/ 3920**  
 A series of standalone, fully configurable control systems for the detection of toxic gases, oxygen and combustible gases and vapours, for up to 16 channels.



D-10344-2009\_beasb

**RVP 2400/ 3900/ 5000 series**  
 A series of touch panels for a cost effective central visualisation of gas concentrations from the various Dräger Regard control systems, with optional web access and data logging.



ST-523498\_frtest

**Customized Solutions**  
 As with all systems, there needs to be a central point of monitoring and control. In order to meet your varied requirements, Dräger offers a variety of highly specialized solutions tailored to your needs.

## Personal Protection



## PERSONAL PROTECTION

At Dräger, we supply a complete range of equipment that protects you in the field. These equipment include, self contained breathing apparatus (scba), airline breathing apparatus & escape sets, chemical protective suits, and fire fighting helmets. Dräger's personal protection equipment is reputed for ease of use and unparalleled comfort, one of which that remains the popular choice is Dräger's self contained breathing apparatus.



ST-6147-2007

### PSS® 7000

The Dräger PSS® 7000 with modular electronic monitoring system featuring Dräger Bodyguard 7000 and options such as Dräger FPS-HUD and PSS 7000 Merlin Modem for telemetry operation. Sliding and pivoting waistbelt assembly as well as 3-point height adjustment.



D-6662-2011

### PSS® 5000

The Dräger PSS® 5000 is with a fixed-height back plate, advanced harness materials and a pivoting waist belt. It is designed to be fully compatible with the globally established Dräger Bodyguard® 7000 electronic signal and warning unit, as well as the newly integrated PSS® Merlin modem.



D-18014-2010

### PSS® 3000

The Dräger PSS® 3000 is a high performing breathing apparatus for firefighters. Combining comfort with exceptional pneumatic performance, it is designed for applications where simplicity and ease of use are key essentials. Lightweight yet robust, and easy to don, this advanced breathing apparatus provides the ultimate in breathing protection.



D-4262-2010

### PAS® Lite

The Dräger PAS® Lite combines reliability with comfort and performance. This breathing apparatus offers excellent service life as well as easy to maintain. Compatibility and robust with air supply systems.



ST-3560-2003

### PAS® Airpack

Dräger's range of heavy duty airline apparatus is ideal for use where an extended duration of breathing air is called for. Chemical tank, cleaning, toxic spillages or certain tasks when working on offshore installations are all made easier and more comfortable when using the Dräger PAS® Airpack.



ST-3557-2003

### PAS® Colt

The Dräger PAS® Colt is a short term escape breathing apparatus. This hip-mounted unit offers a distinctive, sophisticated harness designed to help retain its shape. The cylinder compartment can easily be removed from the harness in case of space restrictions.



ST-3557-2003

### PSS® Micro

The Dräger PAS® Micro is a compact back mounted short duration breathing apparatus designed to follow the natural contours of the wearer's back.



D-12240-2009

### PSS® BG 4 Plus

The Dräger PSS® BG4 plus closed-circuit breathing apparatus combines uncompromising safety with outstanding respiratory protection and highest breathing comfort with an integrated cooling system. It provides the wearer with up to 4 hours of breathing air in toxic environments.

## PERSONAL PROTECTION



D-10572-2011

**FPS Series**

The Dräger FPS® mask ensures highest level of fit with the double sealing frame and new design offers optimal field of vision. Optional accessories such as FPS-COM-PLUS and Head-up display improves the need for integrated and streamlined solutions.



D-52720-2012

**PSS® Merlin**

The Dräger PSS Merlin telemetry system offers a precise overview status of SCBA wearers. The vital status information is communicated directly between the entry control point and the wearer. Automatic log-on function increases safety by ensuring all SCBA users data are captured.



ST-6166-2007

**Bodyguard® 7000**

The Dräger Bodyguard® 7000 is an electronic signal and warning unit which provides continuous monitoring of personal information and operation status of PSS® 7000 or PSS® 5000 SCBA.



D-13263-2010

**UCF Series**

The new generation UCF thermal imaging cameras feature optimized image processing, intuitive interface and an almost indestructible casing. UCF7000/9000 offers the maximum level of safety and reliability in potentially explosive atmospheres with ATEX zone 1 approval.



D-33925-2011

**Saver CF**

The Dräger Saver CF is highly visible even under adverse conditions and available with either a soft bag or hard case. The Saver CF conforms to relevant standards and norms. It is compact and lightweight and can be equipped with cylinders which can hold either a 10 or 15 minutes supply of air.



STD-33936-2011

**Saver PP**

The Dräger Saver PP constant flow emergency escape breathing apparatus allows safe, effective, uncomplicated escape from hazardous environments. Simple to put on and featuring automatic operation, this positive-pressure breathing device features an integrated full-face mask and can be used in conjunction with other safety equipment such as ear protectors or helmets.



D-13944-2009

**HPS 6200**

The Dräger HPS 6200 is a firefighter's helmet in a class of its own. Optimum protection against penetration or impact even at extreme temperatures.

## PERSONAL PROTECTION



D-28564-2009

**Oxy 6000**

The robust Dräger Oxy 6000 self rescuer brings a new level of safety. As a self-contained device, it features the innovative "Safety Eye" which ensures maximum reliability and efficiency in an emergency. It is the ideal companion, for example, underground utilities and shipping applications.



D-35091-2011

**Oxy 3000**

The Dräger Oxy 3000 is a rescue apparatus for respiratory protection, independent from ambient air, designed for use in environments where the person is in danger of toxication or there is less oxygen. The oxygen self-rescuer supplies independent air for up to 30 minutes.



D-18861-2010

**CPS 7900**

The reusable gas-tight suit Dräger CPS 7900 provides excellent protection against industrial chemicals, biological agents, and other toxic substances. Its innovative material qualifies the CPS 7900 equally well for work in explosive areas and for handling cryogenic substances.



CPS-7800\_Heilm

**CPS 7800**

The reusable gas-tight Dräger CPS 7800 provides excellent protection against gaseous, liquid, aerosol and solid hazardous substances even in explosive areas. Due to its innovative material and the new suit design, it offers increased flexibility and comfort when entering confined spaces and working with cryogenic substances.



D-22672-2009\_4c

**CPS 5800**

The gas-tight Dräger CPS 5800 is a limited-use suit for industrial applications and operations on board vessels that involves gaseous, liquid, or solid substances.



CPS 5900

**CPS 5900**

The Dräger CPS 5900 is a limited-use suit and can be used under extreme conditions. This gas-tight suit provides excellent protection against industrial chemicals, biological agents, and other toxic substances.



D-23474-2009

**SPC 3800**

Splash protective coveralls are used whenever and wherever a person's skin has to be protected from the harmful effects of hazardous liquids.



D-13085-2010

**Workstar Series Flexothane / Workstar PVC**

The Dräger Workstar Flexothane protection suit is a reusable suit made of a lightweight flexible material that allows water vapours to permeate away from the body to the surface thus providing a high wearing comfort. It is ideally suited for work with oils, benzene, diesel, paint, etc.

## Air Purifying Respirators



## AIR PURIFYING RESPIRATORS

For decades, Dräger respiratory protection has been synonymous with experience and safety worldwide. Through continuous product improvements and investment in technology, we have developed a range of products which take breathing equipment to a new dimension of personal safety.



D-5183-2010

### X-plore® 1300

The moulded Dräger X-plore 1300 offers comfort and easy handling while ensuring a secure seal. The respirator fit tightly on your face and the nose clip allows easy adjustment.



ST-681-2002

### X-plore® 3500

A perfect combination of durability, protection and comfort. The Dräger X-plore® 3500 is suitable in harsh conditions for long duration use. The special design of the nose sealing strip ensures leak free sealing and an optimal fit with safety glasses.



D-31814-2011\_1000

### X-plore® 4700

The Dräger X-plore® 4700 is a robust half mask which offers excellent comfort and outstanding leak tightness for demanding applications. Thanks to the wide range of filters available for protection against gases, vapours and particles. It is ideally suited for use in a variety of industries.



ST-948-2008

### X-plore® 5500

Wherever complete respiratory and eye protection are required, the Dräger X-plore® 5500 twin filter offers comfort and safety. For easy and secure filter attachment, both filters are inserted in a top-down direction. The lens offers a wide field of vision with extreme chemical, thermal, and mechanical resistance. Compatible to the same filter range as X-plore 3300 & 3500.



ST-463-2000

### X-plore® 6000 series

The Dräger X-plore® 6000 full face masks are the most widely used by professionals in a wide variety of applications. It meets the highest demands for quality, reliability, secure fit and comfort. The X-plore® 6000 masks have proven itself over decades of use, globally – redesigned and improved with fresh colours and an integrated bar code.



ST-3217-2003\_1000

### X-plore® 7500 series

The Dräger X-plore® 7500 powered air purifying respirator provides reliable protection, comfort and safety for a wide range of industrial application where hazardous gases, vapours and particles are present. The comprehensive area of use ranges from activities in chemical industry, pharmaceutical and manufacturing.



ST-11282-2010

### Parat®C smoke hood

The Dräger Parat® C escape smoke hood protects the user for at least 15 minutes against smoke, particles, gases and fumes commonly present in the case of fire. Being a hooded version, it ensures a safe escape for bearded users and spectacle wearers.



ST-1583-2005

### Parat® 3100/3200

The filter escape units, Dräger Parat® 3100 and 3200 have a single but vital task to perform: it must ensure that the user is provided with protection along the escape route into a safe, breathable atmosphere. The ABEK filter offers protection against a wide range of toxic gases and vapours. Available in two version of mouthpiece and noseclip or halfmask.



## Alcohol and Drug Detection



## ALCOHOL AND DRUG DETECTION

The DrägerTest is used to identify drug consumers who may present a risk for road or work safety. It can also be used in clinical and therapeutic environments. The Dräger portfolio offers saliva-based devices that are easy to use and also more hygienic than traditional urine tests. The Dräger Alcotest portfolio helps to reduce the risk involved with the consumption of alcohol. Our products enable random or systematic testing of people to ensure compliance with rules and regulations. It helps to detect the presence of alcohol in the human body at work, on the road, or elsewhere.



ST-430-2006

### Alcotest® 9510

The Dräger Alcotest® 9510 is a breath alcohol analyzer which uses the dual sensor technology. The design ergonomics, high resolution touch screen display offers intuitive operation and guided measurement procedure. The internal thermal printer delivers a fast, easy to read printout of the analysis.



ST-11895-2008

### Alcotest® 7510

The Dräger Alcotest® 7510 is a compact and robust handheld breath alcohol measuring instrument, especially designed for advanced screening applications. Ideal for use by police, commerce and industry as an alcohol screening device for evidential testing purposes.



ST-1694-2005

### Alcotest® 6810

The Dräger Alcotest® 6810 offers professional users precise and quick breath alcohol analysis in a friendly & compact form. The device comes with an optical interface for printing of test results with the mobile printer.



ST-208-2004

### Alcotest® 6510

A cost effective handheld breath analyzer with a built in microprocessor & full graphic display. 2 AA cells provide up to 1500 tests and a built in data logger can recall the last 10 measured values.



1-221-93

### Alcotest® 7110 MKV

Alcotest 7110 MKV offers precise analysis of breath alcohol concentration. Using a dual sensor measurement system based on infrared optical and electrochemical sensor technologies, the instrument meets all breath analysis requirements.



ST-189-2005

### Interlock® XT

This system is designed to check for alcohol impairment prior to starting a vehicle. The Dräger Interlock® XT is suitable for use as an alternative to license suspension as well as in various transporting applications.



D-54724-2012

### DrugTest® 5000

The Dräger DrugTest® 5000 offer fast, reliable and easy qualitative detection of amphetamines, meta designer amphetamines, cocaine analogs, opiates and cannabinoids in oral fluid for on the spot results.



ST-8404-2006

### Mobile Printer

With the Dräger mobile printer, the breath- alcohol results can be printed on-site via the optical interface from the Dräger Alcotest® 6810. The use of thermal paper with long term stability assures low usage costs and high quality print-outs.

## Diving Equipment and Systems



## DIVING EQUIPMENT AND SYSTEMS

Dräger manufactures underwater equipment to meet all application needs. For example, the Dräger PSS Dive was developed for use by rescue divers and manage control divers. For divers with special tasks, the LAR rebreathers were developed featuring a compact, robust and antimagnetic design. Diving is only part of the package, and our expertise runs into all areas related to professional diving; designing filling and storage systems, servicing of decompression chambers for rescue and treatment.



ST-1544-2007

### FGT 5400

The Dräger FGT 5400 diving apparatus is designed with the experience of proven apparatus for military applications. In the standard operating mode FGT 5400 uses premixed gases.



ST-401-2008

### LAR Series

The Dräger LAR series technology has been tried and tested thousands of times in military diving assignments with the legendary LAR V Apparatus. Perfect diving apparatus for difficult under water military missions with varying requirements.



ST-2671-2004

### Panorama® Nova Dive

The Dräger Panorama® Nova Dive (PND) is a fullface diving mask with dynamic and acoustic warning function which provides continuous monitoring of the residual gas in the cylinders being used.



Elephant

### TSW Elephant

The Dräger TSW Elephant is a life preserver providing all four diving components needed for water depths up to 24 meters: basic vest, buoyancy compensator, weights release system and emergency ascent. Ballistic protection of up to Class 4 is an option.



ST-1344-2004

### Aerotest Navy

The Dräger Aerotest Navy is specially developed and designed to meet the requirements of the Navy, the Aerotest Navy is suitable for the purity measurement of breathing air in the high-pressure range.



ST-2733-2004

### Aquacom® M

Aquacom® M is an underwater communication system that has been specifically developed for the work of police, fire service and special mission personnel.



ST-7001-2008

### Aerotest Simultant HP

The Dräger Aerotest Simultant HP is used to determine the quality of respiratory air in high-pressure applications. In combination with the new Dräger Oil impactor the system offers a unique quality level for the monitoring of compressed air.



ST-6766-2006

### Oxygen Booster

Stationary and portable oxygen boosters that ensure the effective filling of oxygen up to 300 bar from storage into apparatus cylinders.

## ENGINEERED SOLUTIONS

Dräger Engineered solutions provide a wide range of breathing and training systems; often specifically customized to suit each customer's requirements. Complete with a skilled team of dedicated engineers, project managers and service technicians, Dräger is able to translate their customers' needs into operational realities.



These Engineered solutions include an extensive range of:

- Breathing gas systems
- Training systems
- Workshop systems

### Breathing gas systems

Dräger has a vast range of solutions for high pressure breathing air systems available. From high pressure breathing air recharging facilities to underground refuge chamber and escape solutions; the Dräger engineering team can develop a system to meet the customer's needs.

Over the last two decades Dräger has become the leading supplier for offshore H<sub>2</sub>S vessel protection systems and coal mining escape solutions. Other Dräger solutions include citadel protection for vessels; rescue trains solutions, mobile CBRN detection systems and mobile HazMat units.

### Training systems

Dräger has become the leading supplier of training systems within Asia Pacific over the last decade. The range includes:



- Confined space entry trainers
- Helicopter underwater escape trainers (HUET)
- Emergency service and military fire training facilities
- Aviation fire training facilities

This range of training simulators is further complimented by the infamous Dräger training galleries – most commonly used by professional fire services to train their members in the correct use of PPE and associated stress loading.

### Workshop systems

As with all PPE and associated equipment; scheduled preventative maintenance is critically important to ensure correct operation and longevity. For many decades Dräger has been designing and supplying comprehensive workshop solutions and asset management tools.

The Engineered solutions' team can provide a complete suite of workshop equipment and systems to support your operational demands.



## DRÄGER SERVICE

Each product is only as good as the service provided by its manufacturer. Our service ranges from maintenance on individual units to repair on all technically important equipment – regardless of the manufacturer. Dräger also offers a wide range of safety relevant leasing units, different financing concepts and individual consulting services. DrägerService offers you quick and competent assistance with a comprehensive global service network.



### Service for Portable Gas Detection

DrägerService offers a range of essential preventative services to ensure that your portable gas detection instruments remain fully functional at all times.

### Service for Gas Detection Systems

DrägerService offers the necessary servicing and inspections to ensure your gas detection system remains full functional at all times.

### Service for Test Units of Safety Related Products

To ensure that equipment wearers can rely 100% on the protective equipment you have tested, making sure your testing units function perfectly at all times. We therefore recommend that you have your test equipment regularly checked and serviced.

### Service for Chemical Protective Suits

To ensure that you can rely 100% on your chemical protective suit at all times, we offer complete servicing of your suit. Our service also includes individual suit marking and all kinds of repair.

### Services for Compressors

To achieve maximum availability and minimum downtime for your compressor, we can service your compressor or filling system in compliance with the relevant regulations. In addition, this guarantees a high level of gas purity, protecting the health of users.

### Services for Technical Customer Services

Servicing and inspections are important. This is the only way you can be sure that your safety system is functioning properly at all times. Our trained service engineers in-house and in the field are on hand to help you with support you require.

- **Spare Parts**  
Components, spare part kits, consumables, REX (Repair & exchange) schemes.
- **Calibration**  
Full calibration services in accordance with the individual customer requirements.
- **Testing**  
Periodic testing & inspection services for all Dräger equipments.
- **SAFE Contracts**  
In addition to customer specific service contracts, we also offer holistic solutions: equipment, service, training & finance as a single package.

Dräger Safety Asia operates 21 service centres in 10 countries in the Asia Pacific region; from Beijing, China to Kuching, Malaysia. Service is also provided by specialist agents in other countries.

## DRÄGER TRAINING

Protecting your 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. Training and certification in the use, service and maintenance of safety-related devices, and corresponding regulations, are becoming more and more important. Our proven seminars are either targeted to a specific group of devices or particular group of people (e.g. fire departments).



Anyone wishing to be able to depend on their equipment in a real life operation, must first be able to depend on themselves. This requires routine, which in turns require practice.

This practice is exactly what you will get in our tried and tested application seminars. These training courses focus on a particular equipment group or are tailored to the specific needs of a group of people.

Understanding basic technical principles and modes of operation, selecting the device best-suited to the task in hand, learning about its possible uses, assessing situations and coordinating appropriate procedures – modern safety technology cannot be mastered with theoretical knowledge alone.

Our highly qualified trainers employ a useful combination of theory and practice. This blend of knowledge and practical exercises ensure maximum safety in real life and may make the difference between life and death.

By immediately putting what you have just learnt into practice, you can consolidate the knowledge and experience you have gained. An essential part of the theoretical instruction we provide is of course to tell you about the relevant national laws and regulations which dictate how your equipment is used, for your own safety.

At Dräger, we firmly believe that investing in qualified training will instill total confidence in the user to maximise the effectiveness of their potentially life-saving Dräger equipment, particularly in emergency situations.

- **User Training**

Provides participants with instructions and practical exercises in order to use their Dräger equipment safely and to care for it in line with manufacturer's recommendations.

- **Maintenance Training**

Provides participants with instructions and practical exercises. Designed to impart comprehensive knowledge in how to properly use and maintain their safety equipment.

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## DRÄGER SERVICE

Our offices & agents offer complete service & technical support for all Dräger Products. As an additional service, please also contact our 24-hour service hotline (Singapore Base) at: +65 9820 0991

For details of our agents & distributors in other countries, please contact our head office in Singapore.