

Produkte & Innovationen  
**Interschutz**  
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## Disaster relief

### Disaster relief

#### **Flat suction kit for fast aid in flooded buildings (126)**

The flat suction systems from Zuwa are billed as ideal devices for taking immediate action in flooded basements or other parts of a building hit by heavy rainfall or other forms of inundation. As the German company explains, the water can be removed quickly and efficiently from large-area wet spots. Based on robust, dry self-priming impeller technology with high flow rates and effective resistance against solids or aggressive chemicals in the water, the devices are claimed to help rescue teams get their job done in a very short time. The handling is said to be simple and require no professional training, which means that the fire fighter can take care of more demanding tasks while the easier jobs are carried out by the home owners or support personnel. The design of the suction mats attached to the heavy-duty impeller pump reportedly enables a complete suction cleaning of the liquid within reach on flat or slightly uneven surfaces. This is said to have clear advantages over submersible pumps or wet suction devices.

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#### **Heavy-duty, vehicle-mounted siren and speaker (115)**

Woodway Engineering plans to showcase a vehicle-borne emergency warning siren and speaker system. The manufacturers describe the solution as an economical combination of 30 W amplifier and speaker with a heavy-duty, compact and rugged housing and water-resistant connectors. The new WSSC 30 siren features hands-free operation, user-selectable Scan Lock siren tones, multiple warning tones, and air-horn override capability. Warning tones can be set to cycle in the required order. It has apparently been designed for ease of installation into Emergency Service Vehicles that have limited space or do not require a 100 W siren system, such as motorcycles or occasionally used lease vehicles. Where a higher power output is desirable, two of the sirens can be synchronized together. The system is now said to be available with PA (public address) functionality as well. (Photos available)

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### **Stackable containers for decontamination equipment (41)**

The exhibitors from ACD offer a solution to get rid of all loose equipment and stuff in the way of decontamination operations. As the Dutch company explains, loose equipment can be stored in specially selected container boxes for use in demanding environments. The exhibitors, who also produce accessories such as trapezium bags, spill bags and closed containers to collect decontaminated wastewater or hazardous fluids, also containerize equipment such as HydroPhor pumps, which are automatic pumps with manometers to supply water for decontamination systems, and waste pumps to help turn any site into an organized working space. As the manufacturers put it in summary, containerized equipment and tools make a working space an efficient one.

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### **Stainless-steel, diesel-driven hot-water generator (40)**

The Dutch firm ACD predominantly provides reliable, instantly assembled shelters for medical, military, government and industrial markets. One of the products on show at this year's fair, however, will be the Hotbox 255, a stainless-steel hot-water device that reportedly delivers hot water simply and efficiently in a matter of seconds. The solution has been especially designed for shower systems for decontamination purposes. The manufacturers announce that their top product is now also available in stainless steel for the first time, which makes it suitable for potable water. The unit can thus be used as a water heater for a field kitchen in very demanding environments. According to company specifications, the maximum pressure is 8 bar, the water flow is 3 cubic meters per hour, and the output is 71 kW.

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## Disaster relief

### **Tiny-sized, surface-mount LED light heads (116)**

With a height of only 23 mm, the Vertex is a small hemispheric LED light head that is seen as ideal for most applications where size and intensity are critically important. As the exhibitors from Woodway Engineering explain, the new self-contained LED hideaway uses an in-line combination of lamp driver and flasher and requires only a 25-mm hole in any composite-style head light, cornering light or tail light assembly. Once mounted, the device is said to deliver true wide-angle warning to the front, side and rear of a vehicle without interference to the onboard computer and warning equipment. According to the English company, new lens technology enhances the light distribution for an optimum dispersion and intensity of the warning signal at critical angles. Moreover, the omni-directional light head mounts in any orientation, vertically or horizontally. (Photos available)

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### **Vehicle mast system with LED flood lamps (114)**

Designed for frequent and reliable use in the most demanding of conditions, the Night Owl mast is said to be used extensively by fire services on front-line pumping appliances and command vehicles throughout the world. According to its manufacturers, the compact, low-profile system can be quickly installed onto most passenger, 4x4 or light commercial vehicles using custom-designed, aluminum roof-mounting bars. It stows horizontally on the vehicle roof. When operated, the mast rises into the vertical and extends via compressed air to over two meters in height. The masts are fitted with LED scene lights and floodlights. Floodlighting heads are now apparently available as Pioneer Flood Lights from Whelen, for whom the exhibitors are master distributors. The LED technology is placed into a package producing 7,000 usable lumens in the PFP1 series, 5,000 usable lumens in the PFA2 versions, and 2,500 usable lumens in the PFA1 range. (Photos available)

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## Disaster relief

### **Versatile, high-powered public warning siren (112)**

As one of their mass notification systems, Woodway Engineering in Coventry, Central England has developed a public warning siren for outdoor and indoor warning applications to alert, inform and most importantly save lives. Key features singled out by the manufacturers include the six low-frequency and distinctive siren tones, the remote activation, the battery back-up, and the rugged and durable design. The system supports sixteen pre-recorded voice messages and live PA (public address) capability. In addition, the ability to activate the entire system, create zones or activate an individual siren allows the operator to pinpoint the area to be alerted. Moreover, silent diagnostic testing allows the operator to verify that the system is functioning properly without disturbing the public. The exhibitors also add that the device requires low maintenance and is easily expandable. Potential emergency warning applications are listed as extreme weather situations, natural disasters, civilian and military defense, and incidents at nuclear, petrochemical, power and industrial plants. Uses are also seen at dams, college campuses, ports, offshore sites, and events. (Photos available)

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### **Warning lights with approval to European standards (113)**

The exhibits to be presented by Woodway Engineering, an English-based specialist for high-quality audio-visual warning systems, will include warning lights that meet specific regulatory guidelines. As the company reports, cutting-edge products including light bars, light heads and beacons that comply with the European Regulation 65 (R65) are now available. The products can be provided in various colors, voltages and flash patterns as well as with different strobe and LED technology to meet specific requirements. (Photos available)

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## Information and organization

### Information and organization

#### **Advanced thermal imagers with many applications (107)**

ISG Thermal Systems will be introducing its new state-of-the-art thermal imaging cameras that are capable of use in a variety of different applications, including firefighting, search and rescue operations, and law enforcement. The English company stress that each product has been especially designed to suit the specific requirements of its customers and represents a high-specification device that is also good value for money. The cameras are said to produce a very clear thermal image, enabling users to see every last detail of their surroundings in the most extreme environments and make the right decisions accordingly. In addition, the manufacturers add that their appliances are small, lightweight, and very easy to operate.

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#### **Flexible mobile phone for rough conditions (36)**

The new Ex-Handy 06 mobile phone from Ecom Instruments has apparently been specially designed for harsh and hazardous environments. The Gorilla Glass used in the display window is said to be comparable to bullet-proof glass and easily withstand a drop test from a height of 1.80 meters at -20°C without harm. According to its manufacturers, it is dust-proof and splash-proof and certified for zones 1 and 21. As is also claimed, the keypad is easy to use, even when wet, the menu features an intuitive structure, and ring-tones can be heard over loud environmental noise thanks to the particularly high volume. The device sports a real vibration alert via a separate motor and is equipped with a PTT button. It apparently supports all GSM 900, 1,800, and 1,900 networks worldwide, allowing flexibility and continuous availability. With its high durability, ultra-bright display, rugged housing, large keys, and loud ring-tones, the appliance is seen as the ideal product for those working under extreme environmental conditions. The intrinsically safe roughneck, as the company describes it, is available in the colors black and yellow. (Photos available)

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## Information and organization

### **Highly flexible, modular key management solution (187)**

Deister Electronic plans to demonstrate how the ProxSafe Flexx 256er system serves to optimize key management. The company cites the example of a German utility enterprise that required complete control over its keys for IT areas and vehicles, allowing only certain users within a specific time frame to access them. As the solution, an integrated installation from the modular range of intelligent management systems provided by the exhibitors reportedly provides full control and accountability for all critical keys around the clock and every day of the year. The user-friendly system is said to enable the utility to track key movements by time, date and user. As a result, administrative overhead could be reduced and staff allocated to other operating requirements, significantly enhancing efficiency and security in the process. The specific configuration highlighted comprises a Flexx 24HE system with steel doors and 256 useable plug-in places, including an Argus client terminal and Legic reader. Access and time limits are controlled via the accompanying software. As is pointed out, such a system can be expanded and modified at any time. (Photos available)

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### **High-tech system for detecting life functions (145)**

The German specialists for wireless and communication technology Meder Funk will be exhibiting their BOS BioRadar BR 502w for security authorities and organizations responsible for safety. The special solution is described as a high-tech system for the detection and evaluation of small mechanical movements, primarily the life functions of human beings. Easy handling and a lightweight design are said to be key characteristics of the system. As the manufacturers explain, it works according to the transmitting-receiving method and uses electromagnetic waves in the form of radar waves that go directly through obstacles. The signals received are then analyzed by a conventional laptop. The main areas of application are seen in searching for persons buried alive by catastrophes such as earthquakes or avalanches, the detection of persons hidden in trucks and passenger cars by customs or prison authorities, and checking for movements in non-metallic underground discharge channels and cavities. (Photos available)

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## Information and organization

### **Image enhancing technology for clearer details (108)**

ICE (Intelligent Contrast Enhancement) is the name of an image enhancing technology developed by ISG and available in all of the company's latest thermal imaging cameras for firefighting and marine applications. According to the exhibitors, the technology ensures that the user sees the clearest and most detailed image at all times, no matter how severe the conditions or how high the temperature. In combination with the imaging performance, the fully automatic operation and the extra headroom for flashover situations provided by the thermal imagers, the manufacturers see a breakthrough in user safety. As the company explains, the technology has been developed to overcome the compromise between dynamic range and low-contrast sensitivity in high-heat scenes and to enhance thermal imaging performance for firefighting applications. It enables thermal imagers to provide unusually detailed background images even when viewing the hottest scenes, which can be essential in emergency situations.

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### **Key management for round-the-clock control (186)**

Deister Electronic will be focusing its trade show presence on the field of in-home emergency calls at a stand together with the Johanniter healthcare organization and on key control. One of the intelligent key management and electronic locker solutions with non-contact RFID key-tag technology on show from the modular Proxsafe range will be the Maxx system. It is said to combine the advantages of a reliable electronic system with an architecturally designed appearance. Thanks to the automatic roller shutter, the cabinet requires little space for operation. One unit manages up to 32 keys and several cabinets can be combined to form a large complete system to adapt to changing requirements. As the exhibitors point out, the resident memory of the user terminal allows operation even if the network fails, and a back-up battery bridges in case of power failures. An emergency key is provided in order to allow manual access to the cabinets and key-tags if necessary. Moreover, the key-tags and slots are designed for rugged operation, there are no electrical contacts on the no-maintenance key-tags, and dirt, corrosion or wear through daily operation are claimed to be eliminated. (Photos available)

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### **Mobile camera system for professional applications (86)**

The TDT Mobile Watcher is a mobile camera system that transmits pictures and live video streams to emergency vehicles, operation control centers or the Internet. The optional rechargeable battery pack makes it also suitable for external use. As the German company explains, the integrated 3.5G+ router transmits the picture and video data over all mobile networks such as GPRS and UMTS as well as WLAN. A 360° panoramic view and a tilt control of 90° downwards are offered by the integrated turn-and-tilt mechanism controlled via direct remote access. As the exhibitors maintain, the 22x optical zoom enables even the smallest details to be easily recognized over great distances. Up to sixteen zoom and rotary/tilt positions can be stored and periodically initiated. Moreover, an intelligent movement sensor recognizes every change and follows the moving object via auto-tracking. If necessary, an alarm ticket can be sent to inform the responsible site. An integrated GPS receiver enables the exact field location to be transmitted. The system reportedly fits on every standard spotlight stand used by German aid agencies and existing spotlights can be attached to the device via the studs provided.

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## Information and organization

### **Mobile electrically controlled remote monitor (152)**

A new monitor on show from the Wujin fire equipment division can reportedly be safely operated by firefighters with a wireless controller 150 meters away during the fire-fighting operations. As the Chinese specialists maintain, their monitors have already saved many fire-fighters' lives in oil storage areas. With the device, designated PSKDY40B-WJ, fire explosions can apparently only destroy monitors that are close to the burning areas. (Photos available)

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### **Mobile 3G+ Internet access for emergency vehicles (87)**

The ELW router C1500 HW to be exhibited by TDT is a mobile communications platform for operation command and task force vehicles belonging to public authorities and organizations involved in safety duties. The router provides the task force with a location-independent high-speed Internet access. The dual SIM support and the intelligent backup management are said to ensure very high reliability and almost hundred-percent availability, depending on network accessibility. Terminal equipment such as a PC or laptop can be connected via WLAN or Ethernet. For the purpose of transmitting video data, the router is provided with a special buffer management as well as an optional extended memory. An FTP server enables the storage and retrieval of data, whereas the integrated GPS allows the exact geographical position of the router to be identified. The 3G+ radio connection is effected by a quad-band modem. The device can be configured locally or remotely through a user-friendly web interface. In expert mode, the router is configured using a command line interface and can apparently even be reached and configured via SMS. As is also stressed, the extensive antenna set enables immediate operation.

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## Information and organization

### **Modular system of safe housings and key panels (189)**

One of the Proxsafe key management and electronic locker systems to be highlighted by Deister Electronic will be the modular Racx solution. It reportedly allows any system size to be created by combining various types of housings and key panels. The systems consist of robust steel cabinets in a discreet color, whereby the module layout is site-assembled into them. Every system has adjustable feet to allow optimal installation. As the German manufacturers also stress, the lockable service compartment is protected by tamper contacts and includes all the necessary connectors as well as the basic electronic equipment. Four relays can serve to signal alarms via a network and locally. According to the exhibitors, the non-contact RFID key tag technology provides reassuring reliability. The terminal and the different modules are simply wire-connected to the internal control plate, which is said to make upgrading particularly easy. An optional clear window door is also available. (Photos available)

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### **Movable oscillation monitor for fire-fighting (150)**

The Shanghai-based company Wujin will be showing a movable oscillation monitor with the product designation PSY 20 ZBWJ. As the exhibitors explain, the device is water-driven without the use of electricity, deploying the pressurized water supply for fire-fighting as its oscillation driving power. It is said to have proved an ideal piece of mobile fire-fighting equipment for emergency rescue at the scene of fires and protection in various medium- and large-scale chemical production plants, on premises with flammable, explosive, poisonous or noxious materials, in forest fire situations, and in all kinds of large-sized buildings. The monitor reportedly enhances the operational capability of a fire brigade with its features such as a large spray range, reliable operation, and a high degree of flexibility. (Photos available)

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### **Professional radio system for guided group tours (191)**

The Meder Tour Guide System is a wireless interpreter and tour guide radio system based on UHF technology for applications such as multilingual meetings and conferences or guided tours in noisy environments. As particular technical advantages the exhibitors point to the outstanding reception with no acoustic interference or hiss and the high-gain microphones for use in quiet surroundings. The system features hand-held or pocket transmitter and receiver units with 20 frequencies available for use. Further advantages include the adjustable microphone sensitivity, the high battery capacity of 20 hours for the transmitter and 40 hours for the receivers, and the long operating range of 300 meters. There is a visual display of the battery status, whereby standard or rechargeable batteries can be deployed. The hygienic and comfortable one-piece earphone and the on/off switching by plugging in the earphone are also highlighted. The manufacturers further stress the light weight of the system, its ease of use, the low maintenance, the intelligent charging technology, and the warranty of five years. (Photos available)

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### **Robust cabinet system for up to 32 keys or dongles (188)**

Smart 3U is the smallest housing in the Proxsafe family of intelligent management systems for keys, PC dongles or other valuables. The cabinet is said to be the optimum choice if a small number of keys are to be securely stored and only issued to authorized persons. As the manufacturers at Deister Electronic explain, users and key-tags are identified in a non-contact manner and all transactions are automatically recorded. Any size from 8 to 32 slots can apparently be realized. The system is equipped with a basic terminal version, special software, a power supply, and a USB 2.0 interface or an optional Ethernet plug for PC connection. It consists of a robust steel cabinet in a discreet color, whereby the key panels with various slot densities are site-assembled into the cabinet. The door is constructed out of sheet steel with a clear window pane. The exhibitors further stress that the housing contains tamper monitoring and four dry outputs for numerous alarms. Moreover, operation is possible even if the network fails and a back-up battery takes over in case of power failures. Thanks to the use of RFID technology, there are no electrical contacts on the key tags. (Photos available)

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### **Rugged, Atex-certified notebook and Tablet PC (37)**

The new Zone 2 V100-Ex PC is the first product of a joint venture between Ecom Instruments in Germany and Getac in Taiwan and is said to combine the ease of use of a notebook and the mobility of a Tablet PC in one device. The glove-friendly multi-touch solution, which transforms from a rugged laptop into a rugged Tablet PC with one quick rotation, has been realized through an integrated rotary/articulated hinge between the lower section of the computer unit and the display. The unit is also equipped with a hermetically sealed, light-alloy housing that is reportedly fully impermeable to dust and splash-water. For outdoor use, the notebook is fitted with a sunlight-readable display with a 1,200 Nits (cd/m<sup>2</sup>) backlight. Ample computing power is reportedly provided by the Intel Core Duo SU 9400 processor and data storage is provided by the shock-resistant 160 GB hard drive. WLAN and Bluetooth are installed as standard. An HSDPA/GPRS/GSM modem is an additional option to ensure optimum connectivity and enable GPS navigation. Special mounts are available for vehicle installation or for incorporation on forklift trucks and construction equipment. (Photos available)

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### **VR training software for public safety and security (105)**

XVR is virtual reality training software with a high empathy level that has been developed by E-Semble to educate and train operational and tactical safety and security professionals. As the Dutch exhibitors explain, using a joystick, the solution allows one or more incident response professionals to walk around in the simulated reality of an incident, which gives them the chance to train in observing and assessing the environment. In addition, the participants have to assess risks and dangers, decide which measures to take and what procedures to apply, and report to other rescue crew members. An essential feature of the software is said to be that the instructor can easily build a scenario and has full control over the course of events. After starting the exercise, the instructor presents the student with questions and asks the student to justify decisions. He can also give feedback, for instance by role-playing the control room or other rescue staff. The instructor can respond to the student's decisions by activating events in the incident or jump to a next phase in the scenario. As is pointed out, any incident scenario is possible, from a small accident to a large-scale disaster.

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## Vehicles and vehicle equipment

### Vehicles and vehicle equipment

#### **Adjustable power LED spot (180)**

Dutch Electro from the Netherlands will be unveiling a power LED spot with an output of 2.5 Watt that is adjustable in three directions. The product is part of the Demco series of light fittings specially conceived for transport lighting purposes. According to the company, the mounting is recessed and makes use of screws and the housing is made of aluminum with powder coating. Specifications for the prototype include available colors of white, gray and black and a spot angle of 50 degrees. The light output is said to be comparable to 20 Watt halogen bulbs. (Photos available)

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#### **Automatic dosing devices with simple operation (63)**

The equipment engineers at CTD report that they have focused on developing a new line of automatic dosing devices since the Interschutz fair in 2005. The dosing and spraying specialists point out that the work of fire-fighters has totally changed during the last five years, which is why the French company now provides a full range of dosing devices whose operation boils down to one button to start and one button to stop. Moreover, the different cycles for the injection of additives have been completely automated, which serves to enhance user safety and increase the efficiency of the intervention.

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## Vehicles and vehicle equipment

### **Camera solution for rapid deployment operations (72)**

The English providers of integrated communication solutions at Excelerate will be highlighting a new continuous rotation, ruggedized wireless camera system. The technology has been designed for rapid deployment via tripods, high-reach aerial platforms, and for mounting on vehicles, masts or Carps. A high-resolution optical zoom camera and a sensitive dual-thermal imaging camera have been combined in one remote head. COFDM video and UHF telemetry reportedly transmit high-quality images from up to 2 kilometers, even from inside buildings or tunnels without a line of sight. The 36x optical zoom, 50-mm germanium lens is said to deliver superior thermal pictures with a resolution of 320x240 pixels. The body-worn cameras are clip-mounted on helmets or headbands and can apparently be used in most light conditions. With a resolution of 520 TVL, the cameras can also be optionally audio-enabled. A separate PVR with a maximum of 160 GB can store over 100 hours of recordings for evidential and review purposes and up to twelve hours of power is provided by the lithium-ion batteries. Live images from both cameras can be viewed in real time on multiple portable viewing devices. (Photos available)

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Hall: , Stand

### **Carbon-fiber, auto-pointing antenna system (74)**

Due to the increasing demand for lightweight antenna systems, C-Com Satellite Systems has introduced the new I-Net-Vu 1.5-meter, carbon-fiber, auto-pointing, drive-away antenna system that comes with the I-Net-Vu 7000 controller. According to the exhibitors from the resellers Excelerate, the auto-pointing controller technology provides one-touch operation to deploy the antenna and find the satellite automatically in less than two minutes. The robust and cost-effective antenna system is seen as ideal for smaller vehicles and provides fully automatic operation in Ku and C bands. Billed as a cutting-edge solution using latest technology, the system is claimed to combine ease of operation and low maintenance at an attractive price. (Photos available)

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## Vehicles and vehicle equipment

### **Compact, quickly installed fire and rescue ladder (67)**

The new turnable ladder with the designation DLA (K) 23/12 from the fire and rescue division of the Gimaex group has been developed for maximum performance and short setup times in all positions. With its compact shape without any overhang of turret and the patented level adjustment, the ladder can reportedly operate on slopes of up to 15°. It is seen as particularly effective in difficult deployment situations, for instance where space is limited as in historic city centers. The company also draws attention to the attractive design and points up the fact that the setup procedure is completed in only 85 seconds. (Photos available)

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### **Compact surface-mounted fitting with six LEDs (179)**

One of the Demco luminary products for the commercial vehicle market and marine industry on show from Dutch Electro will be a new compact LED unit. It is described as a surface-mounted fitting integrating six power LEDs. The manufacturers specify dimensions of 350x18x10 mm and point out that the lights are available as separate modules that can be connected to a maximum of five pieces measuring about 1.5 meters in length. The housing is made of aluminum and the product can also be obtained in a watertight version as an option. (Photos available)

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## Vehicles and vehicle equipment

### **Convenient lighting balloon for surrounding light (49)**

Fireco will be presenting their Lumicone lighting balloon, a patented product from the company that needs neither mounting nor dismounting. The lighting balloon has been specially conceived to stay mounted on the mast on the truck with a completely safe extension and retraction. The installation folds automatically like an umbrella to save time. With the remote control, which can be provided in wired or wireless form, the user can control the balloon and store it automatically in a GRP (Glass-Reinforced Plastic) container to protect it from UV rays, dust, dirt and weather influences such as rain. According to the Italian exhibitors, the non-flammable and reflecting fabric makes the product safe and reliable. The balloon can be supplied with all kinds of lamps. (Photos available)

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### **Dust control and explosion prevention systems (45)**

Telesto from Poland plan to spotlight their Komet air-borne dust neutralization and explosion prevention system for use in coal mines. According to the exhibitors, the award-winning, low-cost system has been independently verified as removing over 80 percent of the coal dust particles from the air in mine corridors. As a result, it can greatly improve worker health and safety conditions, extend the usable life of equipment, and eliminate or significantly reduce the possibility of explosions. Since it replaces traditional, labor-intensive dust control techniques, the new system is said to pay for itself in three to four months. The patented systems developed by the company are used to remove dust emitted during the transport of mineral-based materials and biomass on conveyor belts as well as in chutes and silos. Such systems target power generation plants, wood processing facilities and other dust-generating industrial environments. (Photos available)

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## Vehicles and vehicle equipment

### **Fixed fire-extinguishing systems (44)**

Telesto, which develops systems to atomize liquids into super fine mists for applications such as firefighting, dust control and object decontamination, will also be premiering its new developments in the field of fixed fire-extinguishing systems. The Polish company will be referring to test results from the FM Global fire technology laboratory in the USA on water-mist systems designated for both total flooding and local application fire extinguishing. As is explained, total flooding systems are used in enclosed areas like machinery spaces, computer rooms and archives or in rooms where highly flammable liquids are stored. Local application systems can be installed anywhere and are designed to discharge water mist directly on, or around, an object or hazard, which is typically a flammable or combustible liquid hazard. (Photos available)

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### **Foam extinguishing system with enhanced efficiency (64)**

According to Gimaex, the third generation of their One Seven system is setting new standards in fire-fighting technology. The company says it is re-launching its efficient fire-fighting system deploying a compressed-air foam extinguishing procedure and visitors can test its advantages at the fair. Following extensive research and informed by the experience of professional fire-fighters, the exhibitors claim to have developed an innovative product combining a new compact foam generator with a patented mixing chamber and modified nozzles. The result is said to enable class A and B fires to be effectively fought through strong cooling, high velocity, deep penetration, and a minimal volume of water. (Photos available)

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## Vehicles and vehicle equipment

### **Hose reel devices based on water-mist technology (43)**

Connected to site- or vehicle-based compressed air and water sources, the new Extinguish Mist hose reel devices from Telesto are claimed to provide almost unlimited water-mist fire-fighting capabilities. Reportedly tested by international laboratories such as FM Global in the USA, BRE in the UK, DMT Freiburg in Germany and CNBOP in Poland, the devices are said to be effective on all the common fire classes A, B, C, F, and E, including high-power electrical fires up to 245 kV. In the process, the appliances reportedly completely avoid, or vastly minimize, collateral damage. The Polish manufacturers see their development as the product of choice for extinguishing even large fires up to 15 MW in areas where the maximum protection of high-value property is a main priority. Examples of such locations are listed as production facilities, warehouses, heritage sites, seagoing vessels and offshore platforms. The equipment is also deemed suitable as an all-round solution to extinguish fires at facilities where water supplies are scarce, such as military bases in desert regions. (Photos available)

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### **Lay-flat fire-fighting hoses for various demands (18)**

The Spanish manufacturers of flat flexible hoses for fire-fighting and other applications will be premiering the latest developments in their series of special fire hoses fabricated from a single rubber extrusion through the fabric. The products are available in a wide range of diameters, from the smallest of sizes to version for a large flow supply. The new Gomtex Hi-Rise Building high-pressure lay-flat hoses in the series are claimed to withstand a minimum working pressure of 50 bars and are deemed suitable for emergency fire operations in high-rise structures. The Hi-Volume hose from the same range is a special lay-flat hose in large diameters of four, six and eight inches with increased working pressures of up to 20 bar and a security factor specified as three to one. In addition, the company will also be displaying the Flexigom twelve-inch lay-flat, rubber-covered hose, which has a working pressure of 10 bar and comes in various different colors.

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## Vehicles and vehicle equipment

### **Mast remote control with cable and radio modes (50)**

With the multifunctional remote control Smart from the telescopic mast manufacturers Fireco, one can apparently extend and retract the mast, tilt and turn the floodlights, turn the floodlights on and off, and restore the complete unit to its park position. Although that can also be done with a classic remote control, the difference with the device from the Italian company is that it can be used with or without a cable. As is explained, when the user disconnects the cable, the control automatically functions in radio mode. Moreover, as soon as the cable is connected, the batteries inside recharge themselves so that the device is always ready for use. (Photos available)

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### **Mobile and flexible drill-powered pumps (172)**

The German specialists for pumps and sprayers Zuwa announce the development of a new adapter for their drill-powered impeller pumps. The adapter reportedly allows for a safe fastening of the pump to any standard power drill or screwdriver. The company therefore claims to be presenting an intelligent solution that connects the pump and drill regardless of the brand and dimensions of the drill. As is explained, the pump shaft is simply connected with the chuck, whereby a stable and secure connection between drill and pump is provided by the new adaptor and the drill depth stop. The assembly is said to be very easy and to take no more than two minutes. With a battery-powered drill or screwdriver, the dry self-priming pump can apparently be flexibly deployed as a result anywhere it may be needed. The company's high-quality pumps made of aluminum or stainless steel are specified as delivering up to 60 liters per minute with a maximum pressure of 4 bar. (Photos available)

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## Vehicles and vehicle equipment

### **Modular bodywork system for firefighting vehicles (66)**

Alu-Prime is described by Gimaex as the next generation in bodyworks. As the German company explains, the innovative modular system of aluminum profiles and high-quality lacquered sheets is built on a hot-dip galvanized frame. The solution is claimed to provide optimal storage and enable an ergonomic removal of equipment. It is reportedly characterized by light weight, robustness, maximum flexibility, and anti-corrosive properties. The bodywork is apparently equipped with state-of-the-art LED technology for the illumination of the compartments as well as the periphery. Various elements such as the chassis, pump, foam mixing system and operating unit in the truck cabin are linked via a CAN bus and controlled by an intelligent programmable logic controller.

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### **Multi-sensor device to protect telescopic masts (47)**

The Guardian is described as a multi-sensor electronic device that can be mounted on Fireco telescopic masts. As the Italian specialists for tailor-made mast solutions explain, a sensor detects electrical and electro-magnetic fields and stops the mast extension. A special mechanism will retract the mast automatically in case the mast itself reaches a higher tilting than allowed. Moreover, an ultrasonic sensor stops the mast extension when there is an impending risk of collision, for instance in the proximity of obstacles such as galleries or roofs. The same sensor device also closes the mast automatically if the wind speed is too strong. An LED light on top provides illumination. (Photos available)

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## Vehicles and vehicle equipment

### **Out-of-the-box rigid coupling with no loose parts (117)**

The Style 009H from the Firelock EZ range of rigid couplings from Victaulic is billed as a next-generation, installation-ready piece of pipe-joining technology for fire protection systems. In response to industry requests, the company says it has produced a fast, simple coupling solution that is safe to install, delivers a solid performance, and helps save time. The quick fitting of the lightweight product is claimed to enable contractors to reduce man-hours by 45 percent and increase efficiency. As the manufacturers point out, riser installations can be done on the floor, overhead assembly now requires less effort, and racking installations can be carried out by one man. The coupling can apparently be installed using hand tools or powered impact wrenches. Visual pad-to-pad confirmation allows consistent installation from installer to installer. Moreover, with no loose parts to drop or lose, crews can wear their safety gloves during installation without fumbling with loose components, thus improving overall jobsite safety. The coupling is reportedly approved for services up to 25 bar.

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### **Portable water-mist fire-extinguishing technology (42)**

Telesto designs, manufactures and markets what it calls ecologically friendly, people-friendly and property-friendly fire-extinguishing, dust-neutralization and decontamination systems based on special water-atomization technology. The Warsaw-based company will be introducing its new handheld and portable water-mist fire-extinguishing technology called E-Plus. The innovative system is said to work in any size of fire-extinguisher pressure vessel and create an ultra-fine mist that can extinguish all common fires found in home, office or industrial settings. These fires are specified as class A or ordinary combustibles, class B or flammable liquids, class C or flammable gases, class E or electrical devices, and class F or cooking oil and fats. At the same time, the solution is claimed not to pose any hazard to humans, the environment or to property. (Photos available)

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## Vehicles and vehicle equipment

### **Protection system for securing storage tanks (46)**

One of the new developments to be highlighted at the fair by Telesto will be the Mist Shield protection system for securing storage tanks containing ammonia or other water-soluble gases in industrial facilities. Thanks to its special ability to quickly envelope gas leaks with ultra-fine mist that contains a neutralizing agent, the solution is claimed to be significantly more effective than traditional water curtains. Moreover, it reportedly uses only one percent of the water used by such systems, greatly reducing subsequent clean-up costs as a result and providing greater protection for the environment. (Photos available)

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### **Rapid response units with full communication (71)**

According to Excelerate, their new mobile satellite and wireless data, video and voice technology enables a comprehensive suite of applications to be fully deployed within four minutes of arriving at a serious incident. According to the English exhibitors, the on-board technology developed for the emergency services includes satellite broadband via the company's own privately managed, real-time satellite network, live streamed video, independent GSM networks and PBX communications, allowing multiple voice devices to interoperate. A Camos satellite dome broadcasts Sky television onto a dedicated interior screen. Incident-critical information can be accessed and monitored in real time via multiple, on-board and remote portable viewing devices. Video transmitted by the dual-thermal imaging and body-worn cameras can also be relayed wirelessly and via satellite to the incident command vehicle and to the HQ control room. All these features are said to result in a resilient and reliable mobile infrastructure for single- or multi-agency coordination. (Photos available)

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## Vehicles and vehicle equipment

### **Rapidly deployable surveillance solution (190)**

Excelerate Technology will be premiering the new Sherpa system to provide temporary or additional infrastructure. As is explained, it gives operators the ability to see, hear, think and manage via the integration and delivery of surveillance cameras, wireless networks, Tetra and GSM at the touch of a button. The delivery unit provides a self-powered system that climbs to the required height and securely and automatically attaches the head unit complete with single or multiple communications technologies to various Euro-specification lamp posts. This high reach capability reportedly provides a vandal-proof solution with interference-free coverage. Already in use throughout the UK and elsewhere, the system is claimed to represent the next generation of rapid-deployable surveillance solutions for the monitoring of anti-social behavior and for enhanced coverage within prisons and at large-scale events. Integrated with COFDM transmission technology, control and viewing capabilities can be remotely operated from a Peli Case, a mobile incident command unit or an internal control room and are said to be available within five minutes of deployment at any location. (Photos available)

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### **Round power LED in two fitting variants (178)**

Dutch Electro, which develops and manufactures light fittings for the commercial vehicle market and the marine industry, will be introducing several new LED products at the fair in Leipzig. These include a recessed and a surface-mounted fitting with six power LEDs marketed under the name of Disc. The fitting comes as standard in a watertight version. It can also be equipped with an LED night light as an option. According to the company, the housing of both the recessed type for easy mounting into ceilings or panels and the surface-mounted version is made of aluminum with white powder coating (Photos available)

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## Vehicles and vehicle equipment

### **Solar pack system for fast deployment (73)**

As a specialist for mobile VSAT solutions, C-COM Satellite Systems has designed and now manufactures a Solar Pack solution that can eliminate the dependency on fossil fuels for powering the I-Net-Vu line of mobile VSAT antennas. According to the company's added-value reseller, Excelerate Technology, the new solar pack is a rugged, portable solar power system that can supply up to 600 W of quiet AC power for fast deployment. Offered in a neat compact package, it reportedly contains all the components required to configure a complete power solution capable of powering all of the exhibitor's antenna products from Flyaway to vehicle-mount platforms. The base unit contains a 100 amp-hour battery, which is available with the choice of lead-acid or lithium battery, a charge control unit capable of handling 340 watts of solar-generated power, two flexible, high-output solar blankets of 62 watts each, a 600 watt power inverter that can handle most platform requirements, as well as all the cables needed to connect the system. (Photos available)

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### **Specialist fire appliance for municipal protection (137)**

BAI will be presenting a new fire truck designed for municipal protection. The specialist appliance with a 290-horsepower engine can reportedly accelerate from zero to 80 km/h in 25 seconds and reach a top speed of 105 km/h. It features a forward-control Volvo short cabin with a crew cabin from the exhibitors integrated into the original cab. The bodywork is completely made of aluminum extrusion profiles, whereby the large profiles have been assembled without welding or screws and provide strength and weight optimization. The water capacity is specified as being up to 2,500 liters. The centrifugal water pump offers dual-stage operation and both low-pressure output with 2,400 l/min at 8 bar and high-pressure output with 400 l/min at 40 bar. The exhibitors also point to the electronic pump control panel in the pump compartment, the foam capacity of up to 250 liters, the multiple-section telescopic light mast with a height of 3 meters and 360° rotation, and the electric generator set. The manufacturers further stress the expert assistance they provide, the dedicated on-site training, their after-sales service, and the ready availability of spare parts directly from the factory. (Photos available)

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## Vehicles and vehicle equipment

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### **System for efficient foam decontamination (65)**

The new Defcon 100 from the German company Gimaex is billed as setting new standards as regards rapid and efficient foam decontamination. Thanks to the very good adhesive properties of the decontamination foam, it is reportedly possible to keep water consumption to a minimum. Furthermore, with the integrated tank holding 200 liters of water, operators are always ready without the problem of previously having to install a supply line. The unit, which represents a further development of predecessor models, is designed for the decontamination of both equipment and persons. (Photos available)

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### **Telescopic masts with extended height of 15 meters (48)**

Fireco, an Italian-based manufacturer that has been producing a high-quality range of telescopic pump-up masts and accessories for over thirty years, will be presenting its catalog of products and some of its most recent developments. The Giant Ø250 masts are said to be the biggest masts from the company and reach an extended height of 15 meters. According to the exhibitors, this allows the configuration of lighting masts with a luminous output of up to 630,000 lumens. (Photos available)

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## Vehicles and vehicle equipment

### **Tilt and turn units for mast heads (51)**

Fireco, the Italian manufacturers of telescopic pump-up mast products, say they offer many different models of tilt and turn units to offer a solution for all kinds of customer needs. The range of such tilting and panning systems consists of a light version with small dimensions, a low weight and a top load of up to 15 kg, a standard variant with up to 40 kg top load, a standard unit with independent tilting and up to 50 kg top load, and a heavy system with independent tilting and up to 150 kg top load. All the assemblies can be completely operated by remote control. (Photos available)

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### **Triple-agent vehicle for airport fire brigades (31)**

The Italian company BAI, which says it produces a full range of fire-fighting vehicles for every fire-fighting and rescue situation, will be introducing the Striker E. The new vehicle with advanced extinguishing technology has a 700-horsepower Cat C-18 engine and all-wheel independent suspensions. Technical data specified by the manufacturers include zero to 80 km/h in 34 seconds, a top speed of 112 km/h, a deceleration from 32 km/h to zero in 11 meters, and a 28.5 meter wall-to-wall turning circle. The exhibitors further highlight the very good off-runway mobility, the one-piece windshield for superior front, side and upward visibility, and the highly stable Snuzzle water tower equipped with an infrared camera. Triple agent capability is said to be a special merits of the vehicle, with 9,768 liters of water, 1,367 liters of foam, and optional dry chemical tanks. A vertical extension of up to 19.8 meters from the ground is reportedly possible. The truck also features a water pump for 7,500 liters/minute, a computerized foam-proportioning system, two elevated nozzles with reaches of 60 and 58 meters, and one bumper nozzle with a reach of 47 meters. (Photos available)

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## Vehicles and vehicle equipment

### **Water, foam and powder vehicle for airports (138)**

A new vehicle for airport fire brigades with water, foam and powder extinguishing capability will be highlighted by BAI in Italy. The company points to an engine power of 400 horsepower, a top speed of 110 km/h, and acceleration from zero to 80 km/h in 25 seconds. The NMV PTO (Power Take-Off) drive system is said to be suitable for continuous operation and pump-and-roll is possible up to 8 km/h. The vehicle sports permanent traction 4x4, a differential lock on the front and rear axles, and a main structure made of aluminum extrusion profiles. The water capacity is given as up to 4,500 liters, the low-pressure output as 4,800 l/min at 10 bar, and the high-pressure output as 350 l/min at 40 bar. The foam capacity is specified as up to 570 liters and the powder system quantity as 135 kg. Further features include a 60 m hose reel, electric rewinding, a self-protection system under the truck and tires, a light mast, and high throw ranges. The manufacturers add that their VSA range of airport rescue vehicles includes both 4x4 and 6x6 versions. The vehicles reportedly meet all the requirements stipulated by the ICAO as well as other regulating bodies responsible for air safety. (Photos available)

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Hall: , Stand

### **Wireless remote-rewind hose reel for fire-fighting (6)**

Many years of research and development have reportedly enabled the Australian company Quik Corp to produce what it calls the safest, most versatile and user-friendly hose reels on the market. The RFR-4 Quik Reel self-guiding hose reel with its remote-control retractable capability is claimed to offer particularly superior functionality and performance. According to the exhibitors, the reel features a unique self-guiding rewind action that ensures a fast, neat and hands-free rewind from any angle and every time. The system is also fully retractable via remote control, offering the operator complete control of the hose during use. This is said to greatly improve speed and efficiency, while reducing operator fatigue in dangerous situations. The reel can also be retracted using a manual handle if required. The unit also incorporates a comprehensive guarding system that reportedly makes it one of the safest on the market. The reels are made of aluminum and come in a choice of colors to suit a specific vehicle. Small, standard and large sizes are available. (Photos available)

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## Vehicles and vehicle equipment

Hall: , Stand

## Personal protective equipment

### Personal protective equipment

#### **Anti-skid overshoe for a safe grip on all surfaces (80)**

The French company Joubert, which describes itself as a leading manufacturer of braided and woven stretch cords, will be highlighting a new development called Ezy-Shoes. These anti-skid overshoes have been designed to provide an optimal grip on all surfaces in extreme conditions such as those caused by rain, snow, ice, and mud. According to the exhibitors, the versatile overshoes can be put on and taken off in just a few seconds. They are available in the four sizes S, M, L and XL and comprise an elastic cable structure adapted from snow chain research to provide the hold and a fastening tape strap for purposes of adjustment. In addition, metallic clips are also attached underfoot to give a secure grip on ice. The manufacturers draw particular attention to the highly resistant, hydrophobic composite structure and the lightness and comfort that allows safe yet natural walking. (Photos available)

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Hall: , Stand

#### **Ergonomic search light for all applications (13)**

According to Ansmann, the ASN 15HD Plus search light features innovative lighting technology and an advanced ergonomic design. The use of halogen and LED bulb technology enables a wider range of applications since the optimum light source can be selected for the particular job to be done. In addition, the brighter beams provide optimum vision capability for night use. The German manufacturers also stress the long operating time and the intelligent charging that lasts a maximum of three and a half hours. Further features include a battery status indicator and mains power failure electronics to eliminate risk during a blackout. As is explained, when it is placed in its charging cradle, the portable spotlight lights automatically in the event of power failure to provide emergency illumination. The company also points out that there is practically no downtime when a second battery pack is acquired. Moreover, a warning is sounded when the attempt is made to charge a defective battery pack. Thanks to a dimmer function, the intensity of the light can be adjusted according to use and the spotlight focus can be adjusted to give maximum light where it is needed. (Photos available)

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## Personal protective equipment

Hall: , Stand

### **High-quality metal torch for professionals (9)**

The mobile energy specialists at Ansmann will be presenting a handy, powerful and very robust torch with a special hardened surface and splash-proof housing for rough use. It has been developed for the day-to-day work of special agents as well as professionals such as hunters, policemen and security guards. The housing of the Agent 1 torch is made of high-grade aircraft-style aluminum with a water-proofed finish and an anti-roll shape. The high-performance, long-lasting LED is said to deliver a very bright light with a lighting range over 400 meters. The special reflector utilizes precision lens technology to give a strong beam and maximum illumination. The German manufacturers particularly highlight the silent no-click switch for tactical, noiseless operation. Three standard-sized AAA batteries serve as the energy source and reportedly provide bright light for up to four hours. The company adds that three batteries and a carrying strap are included in the set and that a five-year warranty is given on the product. (Photos available)

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Hall: , Stand

### **Hygienic, discreet and mobile single-use urinal (101)**

Adamus is the name of a new mobile single-use urinal for the medical, professional and leisure fields. The solution is described as being quickly at hand, easy to use, and discreetly disposable. As the German exhibitors describe it, the product is designed as a comfortable and efficient alternative to bottles and incontinence products, is almost as large as a CD case, weighs as much as a letter does, is flatter than a mobile phone, and is as easy to handle as a handkerchief. With its product, the company says it provides men worldwide with a better quality of life, especially hospital patients, people in need of care or with restricted mobility, wheelchair users, and prostate patients. Whereas nursing staff stress caused by the exchange and cleaning of bottles is eliminated, the patient can meet his need at any time discreetly and without assistance and his dignity is preserved as a result. (Photos available)

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## Personal protective equipment

Hall: , Stand

### **Inflatable raft for sunken vehicle rescue training (136)**

MFC Survival reports that its research and development team were approached by the Royal Berkshire Fire and Rescue Service in the UK to develop something to assist them in providing realistic sunken vehicle training. The collaboration has apparently resulted in the creation of a simulated sunken vehicle that can be easily inflated. As the exhibitors explain it, the inflatable raft floats on the surface of the water and gives the service a realistic training tool for rescuing casualties from a submerged vehicle in situations that would be very difficult to replicate safely. The Sunk Vehicle Simulator is fully portable and can be packed away into a carrying valise. It is reportedly quick to inflate using a standard BA (Breathing Apparatus) cylinder and can be built to individual specifications. The company points out that the vehicle simulator has proved so realistic that, during one training session, the emergency services took several calls from passers-by reporting a vehicle in the river. The simulator is said to be just one example of the bespoke equipment and world-class training devices produced by the safety and rescue specialists based in South Wales. (Photos available)

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Hall: , Stand

### **More torch options with halogen and LED technology (12)**

Many more light options are said to be offered by the AS 10H Plus torch from Ansmann due to the mix of halogen and LED technology coupled with the ergonomic, robust design. The company explains that the incorporation of halogen and LED bulbs enables a wider range of applications because users can select the optimum light source for the job in hand. Further merits are seen in the brighter beams for optimum night use, the long operating time without disruption caused by an empty battery pack, and the intelligent charging technology lasting only three and a half hours. According to the German manufacturers, there is no chance of overcharging the pack and shortening its life and the battery status indicator reveals how long the battery pack will last. Moreover, the beam can be focused to adjust the spotlight to give the maximum light where it is needed, whether this is near or far away. The universal mains charger with changeable plug system allows worldwide use for 100 to 240 V. (Photos available)

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### **Powerful and robust torch with silent switch (10)**

Agent 2 is the name of a high-quality metal torch from Ansmann that is said to be suitable not only for special agents in their day-to-day activities. As the manufacturers describe its handy and robust design, the housing is made of high-quality aircraft-style aluminum with a water-proofed finish and an anti-roll shape. The high-performance 3 W Digital White LED reportedly offers a very bright light with 125 lumen and a long lighting range specified as approximately 500 meters. The German exhibitors draw particular attention to the special reflector with precision lens technology to yield a strong beam, the silent switch with No-Click technology, and the ideal surface for one-handed operation, even with gloves. Energy is provided by two standard-sized AA batteries that apparently deliver bright light for up to two hours. The set includes two batteries and a carrying strap. The company gives a five-year warranty on the torch. (Photos available)

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### **Rechargeable torch for explosive areas (11)**

The RMD Ex from Ansmann is billed as the explosion-protected version of their established professional RMD Plus torch. Certified for zones 1 and 2, the robust work torch is seen as ideal for firefighters, emergency rescue teams, machine rooms and applications in industry. The splash-proofed housing made of aircraft-style aluminum is said to be water-resistant to IP54 and the reflector is focusable and has a beam of up to 200 meters. As the manufacturers maintain, the 3 W Digital White LED has a practically endless lifetime and ensures a very bright light with very low energy consumption. The removable lithium-manganese battery pack with specifications of 3.7 V and 1,600 mAh is described as powerful and long-lasting. The charging electronics integrated in the charging cradle, which also incorporates a wall-mounting kit, reportedly guarantee precise charging and very short charging times. As the battery pack can be charged separately, an optional spare pack can be purchased for continuous operation. The torch supports universal mains operation (100 to 240 V) and can also be used in cars, caravans or trucks (12 to 24 V). (Photos available)

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### **Recovery cradle for rescuing water casualties (128)**

The Fibrelight Cradle from the safety and rescue experts at MFC Survival is described as a new and versatile man overboard recovery system for small rescue craft, rigid inflatables, and ship lifeboats. Manufactured from PU-coated polyester webbing and reinforced with carbon-fiber rods, the rescue cradle is said to be tough, durable, lightweight, and easy to handle. It is 1.3 m wide, 3 m long, and weighs around 5 kg. Although it has many different applications, its primary function is seen as a system to recover casualties from the water in the medically preferred horizontal position. As the company explains, the cradle is secured at the inboard end and the outboard end is held outwards by hand, boat hook or bridle, depending on the craft size. The casualty is then guided onto the cradle and the outboard end is hauled up safely on board. The cradle can be further used as a stretcher if necessary. Other uses include that of a scramble net or boarding ladder to climb into the boat or disembark in an emergency. The solution can also assist in casualty recovery from trenches, ditches, and similar locations. Operation by a single crew member is reportedly possible. (Photos available)

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Hall: , Stand

## Personal protective equipment

### **Reusable single-skin chemical protective suit (140)**

The Trellechem Evo from Trelleborg is billed as a reusable single-skin chemical protective suit for hazmat professionals with what the company calls all-inclusive capability. The suit has reportedly been tested and certified to EN 943-1, EN 943-2 and NFPA 1991:2005, including the optional chemical flash fire and liquefied gas protection requirements. The material used is claimed to have very good chemical-, mechanical- and flame-resistant properties due to the combination of Viton rubber, Nomex, and a chemical multilayer barrier film. According to the manufacturers, the garment has been tested for Chemical Warfare Agent (CWA) protection and the material is anti-static according to EN 1149-5. The superior flex-resistance properties are also stressed. The ET version (EN 943-2) comes with the special HCR zipper that closes downwards for added safety. The user-friendly Bayonet glove ring system is also incorporated as standard along with the Trellechem ventilation system with optional airline pass-through. Attached boots or sewn-in socks as well as different glove options are further features. (Photos available)

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Hall: , Stand

### **Single-skin, limited-use chemical protective suit (139)**

The exhibitors from Trelleborg report the addition of a new limited-use chemical protective suit in their Trellechem range. The Neo is reportedly certified to the highest standard in Europe, EN 943-2/ET, as well as the stringent US standard NFPA 1991 (certificate pending) as a single-skin suit that does not need an over-cover. According to the Swedish company, the development is made from a new type of limited-use garment material that offers long permeation times along with very good abrasion resistance and strength. The material is explained as a multilayer construction with a built-in chemical barrier with low weight for enhanced comfort. The ET version (EN 943-2) comes with the special HCR zipper, which is said to combine high strength, chemical resistance and durability and closes downwards for added safety. The suit is also fitted with the user-friendly Bayonet glove ring system as standard, which apparently makes it quick and easy to exchange inner barrier gloves and outer rubber gloves. The ventilation system familiar from the range can be fitted an option. Attached boots or sewn-in socks can also be incorporated along with different glove options. (Photos available)

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## Personal protective equipment

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Hall: , Stand

### **Splash and respiratory protection in one suit (141)**

The Trellechem Splash 2000P is a powered air respirator suit suitable for use by decontamination personnel in a variety of situations. The reusable suit is intended for use with a powered air-purifying respirator (PAPR) and is seen as ideal for jobs requiring long working hours. According to the manufacturers in Sweden, it is tested and certified to EN 14605 Type 3 as a liquid-tight chemical protective garment with powered filtering respiratory protection that fulfils the inward leakage test to EN 943-1, which is apparently equivalent to the requirement in EN 12941 TH3P. The suit has an encapsulating design with a small hump accommodating and protecting the PAPR unit. As is explained, the free-flowing air is fed directly into the suit and eliminates the need for a mask. The company's user-friendly Bayonet glove ring system is fitted as standard. The garment material is reportedly anti-static according to EN 1149-5. Further merits of the product include a wide-vision visor, a watertight PVC zipper placed horizontally on the back across the shoulders for easy donning, optional footwear possibilities, and different glove options. (Photos available)

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Hall: , Stand

### **Triple-layer knit hood for fire-fighters (75)**

The triple-layer knit hood manufactured by Life Liners and on show at the Stanfield's stand has been designed for long-term heat exposure in fire service and training applications. The fabric specifications for the head are given as double-layer 6.5 ounce PBI and a Lenzing FR outer shell with a single-layer 8.5 ounce P84 inner liner and the bib is made from double-layer 8.5 ounce P84. The Thermal Protective Performance (TPP) is specified as 52.7. The Easy-Seal face opening ensures a tight fit on the Self-Contained Breathing Apparatus (SCBA) mask and reportedly keeps its shape after repeated uses. The hood stretches forward to hold tightly to the SCBA mask and prevents face exposure to heat. A further advantage is seen in the head pattern tapered to the back of the head with no bunching around the neck. The double-layer bib fits flat on the chest and back and the fabric weight gives the fire-fighter warmth in cold temperatures. In addition, the Nomex label is sewn down on all four sides, which makes sure that critical product and tracking information is preserved. (Photos available)

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## Personal protective equipment

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Hall: , Stand

## Measuring and detection apparatus

### Measuring and detection apparatus

#### **Dose meter for personal radiation safety (173)**

Graetz has developed a new measuring instrument for personal radiation protection in the form of the Gamma Twin. Described as a small, handy, robust and easily operated device, the dose rate meter enables the safe determination of the local dose rate and the accumulated dose of gamma radiation and X-rays up to dose rates of 50 mSv/h. The measuring size is further specified as the ambient dose equivalent rate  $H^*(10)$ . Optionally, the dose rate, the dose, or both measuring values simultaneously (with the company's preset Twin indication) can be displayed on the large, digital and illuminable LC display. The dose rate is additionally shown as a bar graph. The instrument has four alarm thresholds for the dose and dose rate as well as a switchable acoustic single-pulse indication. Test functions and permanent self-control are said to ensure high reliability and suitability for daily use. An earphone for loud working environments, a robust nylon bag and two standard type AAA batteries with 1.5 V are included. As is pointed out, it is possible to reduce the pulse rate at ambient background radiation to one to two counts per minute for application in special working areas. (Photos available)

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Hall: , Stand

#### **Portable case with radiation measuring instruments (174)**

In line with the new NBC protection concept developed by the German federal state of North-Rhine Westphalia, Graetz is introducing a special transport case containing specific radioactivity measuring equipment, which it will be presenting at the fair in Leipzig. The case comprises four film dosimeters, four alarm dosimeters of the type ED150 for measuring gamma radiation and X-rays, one X5C Plus dose rate meter for measuring gamma radiation and X-rays with a measuring range up to 20 mSv/h, and one Como 170F contamination monitor. The latter is a thin-layer, plastic scintillator with a detector surface of 170 cm<sup>2</sup> for simultaneous, selective alpha and beta/gamma measurement. As the exhibitors point out, each measuring guide vehicle is to be equipped with three of these cases to fit out its task force. The equipment is complemented by the company's telescope probe DE, the Gamma Test C dose rate alarm unit, and the GWL10m gamma warning lamp (Photos available).

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## Measuring and detection apparatus

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Hall: , Stand

## Fire extinguisher, fire extinguishing systems, fire

### Fire extinguisher, fire extinguishing systems, fire

#### **Aid post cabinet for fire security in tunnels (62)**

As the exhibitors from Ajax-Chubb Fire Protection point out, safety in road tunnels is not self-evident. The closed-in nature of the tunnel, the complex roofing and tunnel structures, the flammability of vehicles and cargo and the severe consequences of an incident make safety an important priority. The aid post cabinet to be presented by the Dutch company has been specifically designed to meet this need. As is explained, the cabinet provides communication and fire-fighting equipment for the motorist in an emergency situation. Simplicity and clarity are paramount, the exhibitors stress, and people opening the cabinet should be able to see at a glance how they should act. In addition, the aid post cabinet also gives professional helpers and fire-fighters access to a water and power supply. The installations are said to be easy to maintain, which allows the tunnel to remain available for traffic most of the time. (Photos available)

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Hall: , Stand

#### **Air foam extinguishing system for chemical storage (59)**

Ajax-Chubb Fire Protection in Holland is a specialist for the protection of tank storage and the handling of chemicals. At the fair, the company will be highlighting one of its specialties, namely the Hi-Ex inside air foam fire-extinguishing system for chemical storage. Stainless-steel, aspirator-type foam generators have apparently been developed and tested since the early nineties by the exhibitors. As they report, the foam generator on show has an expansion rate of 1:650 using HTF 1000 foam, which has been specially developed for the protection of chemicals in warehouses. Since the introduction of the system in the Netherlands, the manufacturers point out that they have also protected chemical stores in the Benelux nations, in Israel and China, and in other countries as well. (Photos available)

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Hall: , Stand

## Fire extinguisher, fire extinguishing systems, fire

### **Compact fire extinguisher without compressed gas (8)**

Noatec will be introducing what they call a world first in the form of a fire extinguisher without compressed gas, without high pressure and without a metal casing. The new appliance with its patented non-pressurized system is said to effectively remove the nightmare scenario of exploding compressed gas containers and provide a solution that ensures safe storage and handling. Moreover, the fire extinguisher can be rotated by 360 degrees and therefore functions in all positions. As the manufacturers point out, that means even fires under cupboards, cars and car seats can be put out without any need for violent contortions. The highly compact extinguisher, which can put out larger fires with a smaller volume and lighter weight, is claimed to be as easy to operate as a water pistol. The company's partners will be carrying out live demonstrations at the fair.

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Hall: , Stand

### **Digital instrument panel for fire pump engines (91)**

Cummins Fire Power, the American specialist for custom diesel fire pump engine packages, will be introducing a new digital instrumentation panel for fire pump engines. The new console reportedly features an industry-leading, full-digital technology design that meets the NFPA-20 standard with low RF emissions, a corrosion-resistant construction, and a large-sized digital screen for the readout. The manufacturers draw particular attention to the easy-to-read display that is adjustable for any light condition, which should help improve accuracy for users. Engine installations are said to be faster and less costly as a result. According to the exhibitors, the panel is also capable of displaying additional optional outputs.

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## Fire extinguisher, fire extinguishing systems, fire

### **Dry barrel fire hydrant with easy operation (76)**

AVK announces the development of an innovative, trouble-free and easy-to-maintain industrial fire hydrant featuring easy operation due to thrust bearings in a low-torque design. The Series 27 dry barrel hydrant is able to withstand collisions thanks to its breakable flange and stern rod, which secures the hydrant head assembly and breakaway point to reduce the impact to the water main. The fully rubber-encapsulated, one-piece hydrant main valve is a patented design from the manufacturers and apparently replaces up to thirteen pieces in a traditional hydrant. As is explained, the drain hole is flushed through three resolutions when the hydrant is opened and the automatic drain ensures a complete emptying of the hydrant after use. In addition, the hydrant base has PE-pipe connections, whereby the link between the base and PE-pipe is based on the established technology from the Series 36 gate valve. The special grooving combined with a sleeve around the valve-pipe connection reportedly ensures that the pipe is pressed directly into the grooved valve end. According to the exhibitors, the boltless, corrosion-free assembly is stronger than the PE-pipe itself. (Photos available)

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### **Eco-friendly extinguisher discharge and refills (144)**

The KR04 CO<sub>2</sub>-recycling unit on show from Fritz Emde serves to almost completely discharge CO<sub>2</sub> fire extinguishers, cartridges and cylinders up to a residual pressure under 7 bar. It is claimed to play its part in reducing the greenhouse effect in making sure that hardly any carbon dioxide disappears into the environment, with 99 percent of the CO<sub>2</sub> being recaptured during evacuation. With the help of a digital floor scale, the solution can also be used to refill extinguishers and cylinders, cutting off immediately when the programmed weight is achieved. The device is equipped with a 130-bar safety valve, a CO<sub>2</sub> filter, and a floor scale for up to 200 kg complete with a digital display. A manual ball valve for relief, an inlet and filling gauge, and two-meter CO<sub>2</sub> hoses also form part of the system. Optional accessories include a CO<sub>2</sub> Quick rapid-filling adaptor and a CO<sub>2</sub> adaptor device for emptying cartridges. The unit weighs 70 kg and has a specified filling capacity of around 15 l/min for fluid CO<sub>2</sub> and 6 l/min for gaseous CO<sub>2</sub>. (Photos available)

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## Fire extinguisher, fire extinguishing systems, fire

Hall: , Stand

### **Eco-friendly long-term wildfire retardant (68)**

Gel Feu from Adventagri is reported to be the first long-term retardant for wildfires that is hundred-percent natural, fully biodegradable, and friendly to flora, fauna and people. With a five-percent mixture in water, the product is adapted for all terrestrial and aerial fire-fighting equipment. According to the French company, trials conducted with French and European fire-fighters all demonstrated the efficiency of the retardant as an extinguisher and as a barrier. Other applications are possible for urban fires. The innovative product consists of a powder containing mainly potato starch. When dissolved in water, it turns into a gel that is sprayed onto objects to protect them from fire. In terms of environmental benefits, its use can also reduce the overall quantity of water needed to fight a forest fire. (Photos available)

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Hall: , Stand

### **Fire-protection closure for conveyor systems (81)**

Stöbich, a German specialist for preventative and structural fire protection, announces the development of the Ecclos-S conveyor system, its fourth generation of closures for both continuous and interrupted conveyor systems. As the company informs, the conveyor system closure can be closed horizontally, vertically or as a flap, depending on the available space at the installation location. It is available with motorized and manual re-opening and reportedly meets fire protection classifications up to EI 120 certified according to DIN EN 1366-7 for almost any conveyor type, even for continuous types. Thanks to the proven Gravigen technique, a secure sealing of the opening is said to be guaranteed even in case of power failure without auxiliary energy. Due to its modular design, the robust sheet-metal system can be easily adjusted to individual installation situations and is seen as applicable for large openings up to 3.5.x3.5 m, for instance in the automotive industry. Smoke- or gas-tight designs are available as options as a sealing for inert gas storages. In addition, a stainless-steel version can be provided for special-purpose use in humid environments or for food technology.

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## Fire extinguisher, fire extinguishing systems, fire

Internet: <http://www.stoebich.de>

Hall: , Stand

### **Indoor fire hydrants with engraved graphic designs (70)**

The Polish company Gras will be presenting its new Prestige line of indoor fire hydrants. The devices are said to be a unique combination of stainless steel, laser-engraved graphics, and the shape of the established DN19 and DN25 fire hydrants. This special mixture of elements is claimed to give an attractive artistic dimension to firefighting equipment that opens up new possibilities in interior design.

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Hall: , Stand

### **Industrial hose reel with water or foam options (60)**

The Dutch company Ajax-Chubb Fire Protection will be presenting an industrial hose reel that provides the opportunity to choose in one action between extinguishing fires with water or foam. The product has apparently been developed for the navy and the chemical industry. The stainless-steel, reportedly seawater-resistant reel is fitted with a 1.5-inch hose with a length of 20 meters and a foam tank with a small mixer. As is explained, the hose reel initially provides a water jet with a choice between a bound jet and a spray. By further turning the ring on the nozzle, foam is added to the jet in a single action. In this way, the operator can apparently make an easy choice as to whether the fire is to be extinguished with water or with foam. The exhibitors also stress that their system can be operated by two people only, whereas four persons are normally required for extinguishing operations using hoses. (Photos available)

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Hall: , Stand

## Fire extinguisher, fire extinguishing systems, fire

### **Nozzle lock against Legionella and vandalism (61)**

In collaboration with architects, consultants, installers and end users, Ajax-Chubb Fire Protection reports the development of its Ajax Legio Seal nozzle holder. As the company explains, the nozzle holder raises the threshold to abuse the hose reel, while the use of the hose reel remains just as simple in case of fire. The solution is apparently designed in such a way that the seal is broken when the nozzle is taken from the holder. In addition, the transparent front of the nozzle holder will swing open, thus making improper use of the fire hose immediately visible. The front will remain open until a new seal is affixed. In this way, the product aims to contribute to the prevention of Legionella, the bacterium that causes Legionnaires' disease, and hinder the vandalism of fire hose reels. As is also emphasized, the nozzle is additionally protected from dust and dirt with the holder so that smooth operation is ensured when it is actually necessary. The seal is reportedly suitable for all available nozzles. (Photos available)

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Hall: , Stand

### **UL-approved dry powder for high fire risks (88)**

K. V. Fire Chemicals points to its long tradition of setting benchmarks for extinguishing agents in India and claims to be the first company to obtain UL approval with its latest product KV-Lite Powerex. The powder is reportedly classified according to the UL 299C standard for dry chemical extinguishing agents used in class B fires involving flammable liquids, gases, combustible liquids, petroleum greases, tars, oils, paint, solvents and alcohol. It is based on the reaction product of urea and potassium bi-carbonate (PBC), also known as potassium carbamate or potassium allophonate. According to the manufacturers, the development represents the only extinguishing powder that physically disintegrates in the flame zone, producing a maximum reactive surface area for highly effective fire extinguishment. The decrepitation property, which is apparently exhibited by no other conventional powder based on SBC, PBC or MAP and results in a high fire-extinguishing capacity, is also stressed. The foam-compatible dry powder is also said to achieve a very rapid flame knock-down. An average particle size of 55 to 65 microns is specified.

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Hall: , Stand

## Equipment for fire stations and workshops

## Equipment for fire stations and workshops

### Equipment for fire stations and workshops

#### **Compact laundry machines ideal for fire stations (148)**

Miele will be exhibiting their recently introduced Octoplus generation of professional laundry machines with special programs designed to meet the needs of fire stations. The washer-extractor and tumble dryer machines with commercial-grade technology reportedly incorporate special programs to wash, dry and reproof protective garments and have a load capacity of 8 kg. According to the German company, the new load capacity ensures that an entire suit or six breathing masks can be processed in a single cycle. In total, more than 70 washing and over 40 drying programs are said to be available and can be selected when the machines are first commissioned. The most relevant package for fire stations reportedly comprises three programs for protective clothing and wash cycles for breathing masks lasting ten, 20 and 30 minutes at 70°C, 60°C and 40°C. The matching program package for the dryers offers three programs, one of which activates the reproofing agent applied in the washer-extractor. The new series comprises the electrically heated PW 6080 washer-extractors with a dump valve or drain pump and a PT 7186 tumble dryer that is available with electric or gas heating. (Photos available)

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Hall: , Stand

#### **Modular and flexible fire alarm control panel (69)**

Flexes Control is the name of a fire alarm control panel that is described as the next generation of fire alarm protection. According to the German exhibitors from Novar, the name reflects the fact that flexibility plays a major role in this latest innovation from the Honeywell fire systems specialists. The brand Esser by Honeywell has introduced the new control and sees it as a milestone in the development of technical fire protection. The central fire system features one to eighteen loops and a cascading power supply, which is said to reduce the risk of planning and installation errors. As is explained, the customer only purchases the software functionality that is currently required, thus avoiding an oversized unit, but has all the flexibility for further extension with additional features and functions at a later date. An innovative Human-Machine Interface with Hidden-Until-Lit technology reportedly enables intuitive operation, even for untrained personnel. (Photos available)

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## Equipment for fire stations and workshops

Internet: <http://www.esser-systems.de>

Hall: , Stand

## Fire prevention

### Fire prevention

#### **Automatic smoke barrier for high demands (85)**

According to Stöbich, their Smokeshield-S room-creating smoke barrier creates barriers without leakage with its rectangular- or polygon-shaped base areas even in corner situations and without the need for any additional columns. By offering lengths of up to 16 meters and with drop lengths of up to 6 meters as well as by using different fabric types, the system is said to be designed for very high time classifications and for type D and DH temperature loads. Due to the folding fabric technique, there are claimed to be no remaining openings either at the edges or in the upper area. Even under high-pressure loads, the system reportedly achieves absolute tightness. As the German manufacturers also stress, because of the small dimensions of the casing, specified as approximately 125 mm with a drop length of less than 3.0 meters, the system can be integrated into any existing architecture almost invisibly. The smoke barrier, which is apparently approved according to EN 12101-1, is equipped with the redundant drive system Gravigen, which guarantees safe closing without an auxiliary power supply and without the need for fire-resistant cables.

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#### **Heat-insulating textile closure without water (82)**

With its new EI30/60 heat-insulating textile closure, Stöbich claims to have developed the first single-edge mounted textile closure that has an insulating effect without water and says it has thus closed the previous classification gap of flexible systems. As the German company explains, the new fabric Intutex, which is used for Fibershield-I, achieves sufficient insulation with textile-based curtains for the first time without having to cool the surface of the system with water or without areas having to be kept free of fire load. Thanks to the multi-layer design, classifications of EI30 and EI60 are apparently achieved by the system, which has reportedly been successfully tested in accordance with DIN EN 1634-1, whereas the cross-section of the fabric is only 20 mm in its operating state. In the event of fire, the various layers of the fabric expand and cause a massive swelling of the curtain surface, which absorbs the heat and ensures that the temperature at the opposite fire side surface does not rise more than 140 K.

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## Fire prevention

Hall: , Stand

### **Textile fire-protection closure with no gaps (83)**

One of the innovations on display from Stöbich will be their Fibershield-S, which is described as a room-creating textile fire-protection closure that provides fire protection that runs around the corner with no gaps. The company specifies the integrity classifications of E120 and EW30 with the protection target of EI90 for the product. As is explained, horizontal closures are inappropriate if ceilings or floors have to be penetrated, for instance in the case of atriums or escalators. Up to now, a constructional segmentation has been necessary with single areas sealed off with conventional fire-protection closures and potentially disturbing side guides. The company says it now offers an innovative all-round solution with a textile closure that creates a room around the area that has to be protected without the need to add the columns necessary so far. The fabric is apparently not coiled on a shaft as has been customary to date, but is folded into the casing, which provides a continuously closed fabric surface. The fabric joints are sewn without any gaps and allow various polygon-shaped basic forms with a total system length of up to 50 meters and a drop length of up to 6 meters.

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Hall: , Stand

### **Textile-based, smoke-tight protection closure (84)**

The Fiberseal Evolution solution from Stöbich is claimed to combine smoke tightness and fire resistance with architectural freedom. Depending on the specific demands of the protection concept, the textile closure tested for opening sizes up to 7x4.5 meters can be equipped with various fabric types and can thus reportedly attain different protection targets. According to the German manufacturers, the passive sealing system can resist even high pressures up to 50 Pa and enables a smoke-tight sealing of openings according to DIN 18095, as is required in the case of corridors or stairways in the relevant sections of the German Model Building Code (MBO). As the company further explains, by adding pressure on the upper and lateral guiding, the closed system is automatically sealed without any gap. In addition, a flexible bottom bar compensates floor unevenness up to 20 mm. Combined with fire-resistant fabrics, use as a smoke-tight closure according to DIN EN 1634-3 (Sa classification) or as a fire protection closure according to DIN EN 13501 is also said to be possible.

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