

We have fire ...

ACCURO

FIRE PROTECTION SYSTEMS



... under control

www.accuro.at

ACCURO

Quality and expertise.

FIRE PROTECTION IS OUR BUSINESS.



Specialist expertise coupled with commitment - ACCURO has prided itself on this motto since it was founded in 1976. Our unique market position today allows us to offer our customers the best solutions for the required applications - whether if it is a sprinkler system for a warehouse in Vienna, a gas extinguishing system for a power plant in the Andes, or a foam extinguishing system for an oil depot in the Sahara. ACCURO can design and supply a suitable extinguishing system to meet every requirement and guideline. ACCURO supplies what the customer needs - not what we need to sell from our own production.

Stationary extinguishing systems protect people, assets and

the environment. Incipient fires must be detected and brought under control or extinguished as quickly as possible. If this does not happen, a small flame can develop into a raging fire in just a few minutes. Only automatic, stationary extinguishing systems can protect people, companies and the environment against unforeseeable damage - trained personnel or fire fighters are not always on hand to intervene in time. Automatic extinguishing systems detect and suppress fires at an early stage.

ACCURO's expertise lies in:

- consulting,
- planning,
- supplying,
- installation and
- maintenance

of stationary fire extinguishing and fire alarm systems. We have already shown that we can meet these various demands a thousand times. ACCURO understands how to unite the spirit, flexibility, quality and high level of specialist expertise of employees for the benefit of the customer.

Milestones.



- 1976** **1976 FOUNDING OF THE COMPANY ACCURO** // In the beginning, the company primarily specialised in the design of automatic extinguishing systems and the trade of fire fighting and fire prevention products.
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- 1990** **1990 RESTRUCTURING THE COMPANY ACCURO** // The increased integration of industrial specialists allowed ACCURO to specialise in the construction of automatic extinguishing systems in addition to their design.
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- 1993** **1993 FOUNDING OF ACCURO GERMANY** // This laid the foundations for the VdS construction approval. Following this, the company then gained access to a significantly larger market and continued to grow in the following years.
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- 1995** **1995 CERTIFICATION ACCORDING TO ISO 9001:2000** // This was necessary due to the strong growth of ACCURO and the market situation. The resulting opportunities to better and more efficiently structure the rapidly growing company, further enhanced the quality of the business activities.
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- 1996** **1996 FOUNDING OF THE FIRST SUBSIDIARY IN EASTERN EUROPE** // In this year and the following years, ACCURO expanded to Hungary, Czech Republic, Bulgaria, Russia, Slovenia, Slovakia, Romania and Croatia. Accuro was able to establish a firm position on the market long before their accession to the EU.
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- 2004** **2004 FOUNDING OF ACCURO SONDERLÖSCHANLAGEN GMBH** // An ever increasing area of operation within the fire protection industry made the founding of this subsidiary company necessary. ACCURO Sonderlöschanlagen GmbH specialises in design, construction and maintenance of gas extinguishing and fire alarm systems and is operative abroad in the construction of fire protection systems in power plants, refineries and other industrial companies.
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- 2007** **2007 FOUNDING OF ACCURO TURKEY** // In order to further develop our market position, it became necessary to establish a subsidiary company in this booming part of Eurasia. ACCURO was able to quickly establish itself on the Turkish market and implement fire protection projects for Turkish and international companies.
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- 2010** **2010 CERTIFICATION ACCORDING TO BS - OHSAS 18001:2007 - SAFETY MANAGEMENT SYSTEM** // A risk-free and safe working environment is of utmost priority to ACCURO. For this reason, the company has focused its efforts on establishing an advanced health, safety and environmental protection management system which is aligned with customer requirements.



SPRINKLER EXTINGUISHING SYSTEMS

AREAS OF USE:

- > TIMBER-PROCESSING COMPANIES
- > INDUSTRIAL COMPANIES
- > LOGISTICS CENTRES
- > PRODUCTION HALLS
- > WAREHOUSES
- > UNDERGROUND CAR PARKS
- > SHOPPING CENTRES
- > EXHIBITION HALLS
- > HOTELS
- > HOSPITALS AND CARE HOMES
- > HIGH-RISE BUILDINGS
- > OFFICES
- > AIRPORTS
- > AND MANY MORE

The development of the first sprinkler system dates back to the middle of the last century. This technology has its seeds from the American textile industry which often endured devastating fires due to the highly flammable material cotton. Through the installation of an open piping network which could be manually pressurised with water in the event of a fire, lives and machinery could be protected effectively for the very first time.

Over the years, a wide range of sprinkler systems were developed and successfully implemented in many different areas. The English and German word "sprinkler" stood and still stands for a functional unit consisting of a nozzle, a closed and a heat-dependent glass bulb. Nowadays, sprinkler systems have of course become more complex and efficient. Since the founding of the company, ACCURO has worked intensively in the area of sprinkler technology and has designed and constructed countless systems in the past few decades.



AREAS OF USE:

- IT SYSTEMS AND COMPUTER ROOMS
- ARCHIVES
- EMERGENCY CALL CENTRES
- FLIGHT NAVIGATION AND CONTROL TOWERS
- MOBILE PHONE TRANSMITTER STATIONS
- INTERNET SERVICE PROVIDER CENTRES
- TELEVISION, RADIO AND CONTROL ROOMS
- ART GALLERIES AND MUSEUMS
- MEDICAL FACILITIES
- LABORATORIES
- ENGINE TEST FACILITIES
- EMERGENCY GENERATORS
- BATTERY COMPARTMENTS, LOW-VOLTAGE
- CABLE COMPARTMENTS
- AND MANY MORE

GAS EXTINGUISHING SYSTEMS



A gas extinguishing system is a fire extinguishing system that extinguishes fire with the help of a gaseous extinguishing agent either through oxygen displacement (reduction of oxygen content) or physical effects (heat extraction). Gas extinguishing systems are used when water, foam or powder extinguishing systems are not effective or if extinguishing with the above-mentioned extinguishing agents could cause significant damage.

Gas extinguishing systems are the "cleanest" extinguishing systems. A range of different extinguishing gases can be used for the extinguishing system.

Extinguishing gas types:

- Carbon dioxide - CO²
- Argon - IG01
- Argon - IG100
- Argon/Nitrogen- IG55
- Inergen[®] (superscript) - IG541
- HFC 125
- HFC 227
- HFC 23
- Novec[™] 1230





HIGH-PRESSURE WATER MIST EXTINGUISHING SYSTEMS

Water mist systems are a new technology in the development of automatic extinguishing systems. In contrast to conventional sprinkler systems, this system uses the extinguishing effect of very small droplets of water (water mist). The water mist consists of extremely small droplets of water. The diameter of a droplet of water mist is approx. 50 μm . Under high pressure (> 35 bar), extinguishing water is compressed through the stainless steel pipes to the extinguishing nozzles. Water mist is produced through the special design of the nozzles. The necessary pressure is generated through high-pressure pumps or alternatively through pressurised gas cylinders (nitrogen).

The combination of an optimal droplet size and a dispersion of the droplets under high pressure, ensures a deep penetration of the water mist into the fire source and a rapid cooling of the flue gases. In addition, flue gases are cleaned from the air and this allows the fire brigade to enter the extinguishing area more quickly.

AREAS OF USE:

- > HOTELS, HOSPITALS
- > ARCHIVES
- > WAREHOUSES
- > PAINTING LINES
- > GAS TURBINES AND GENERATORS IN POWER PLANTS
- > TEST STANDS FOR ENGINES (CAR MANUFACTURING INDUSTRY)
- > WIND TURBINES
- > PRODUCTION MACHINES
- > ENGINE COMPARTMENTS AND PASSENGER MACHINES ON SHIPS
- > CABLE DUCTS
- > TUNNEL SYSTEMS
- > OIL AND GAS APPLICATIONS
- > AUTOMATIC PARKING SYSTEMS
- > IN THE MARINE AND OFFSHORE INDUSTRY
- > AND MANY MORE



AREAS OF USE:

- REFINERIES AND FUEL DEPOTS
- TIMBER-PROCESSING INDUSTRY
- ROLLING MILLS
- POWER PLANT SYSTEMS
- FOAM STORAGE WAREHOUSES
- AIRCRAFT HANGARS
- TRANSFORMERS
- GENERATORS
- FURNACES
- CABLE DUCTS AND CONDUITS
- WASTE BUNKERS
- FIREWORK AND AMMUNITION FACTORIES
- STAGES
- AND MANY MORE

WATER SPRAY EXTINGUISHING SYSTEMS



Water spray extinguishing systems protect objects and rooms which are susceptible to fire outbreaks. Whilst sprinkler systems selectively spread extinguishing water over the fire when necessary, water spray or water deluge systems can be used to extensively spray, cool and therefore protect larger technical objects. Furthermore, the flue-gas cleaning effect offers excellent personal protection in the event of a fire.

In principle, the system technology of water spray extinguishing systems corresponds to that of a sprinkler system (fixed pipelines with nozzles, valve stations, release mechanisms and a water supply). However, a crucial difference can be found in the fact that all extinguishing nozzles distributed over a protected area or object are always open and therefore ensure a rapid and targeted water flow over the extinguishing area once the system has been activated. In the event of a fire, individual system groups can be controlled automatically (electrically, pneumatically, hydraulically) or activated by hand.



FOAM EXTINGUISHING SYSTEMS

AREAS OF USE:

- > CHEMICAL INDUSTRY
- > REFINERIES
- > POWER PLANTS
- > WASTE INCINERATION PLANTS
- > LOGISTICS HALLS WITH A HIGH PERCENTAGE OF PLASTIC
- > AIRCRAFT MAINTENANCE HALLS
- > HELICOPTER AIRFIELDS
- > OFFSHORE PLATFORMS AND SHIPS
- > TYRE WAREHOUSES
- > COAL SILOS
- > PIPELINE PUMPING STATIONS
- > MINERAL OIL TANKS INCLUDING THE COLLECTION CONTAINERS
- > TRANSPORTING STATIONS FOR MINERAL OILS
- > AND MUCH MORE

The technology contained in foam extinguishing systems is highly complex and can therefore rarely be summarised in just a few words. As with all other extinguishing technologies, the application or fire load also determines the given solution for foam extinguishing systems. A wide range of guidelines must be taken into consideration for the design and layout of such systems. Extinguishing foam is essentially a mixture of water, foaming agent and air. The mixture ratio of these three substances is adapted depending on the application.

The extinguishing effect comes from the heat-resistant foam forming a solid blanket over the flammable materials. This creates a cooling, shielding and suppressive effect depending on the type of foam. The foam isolates the flames from the oxygen supply and suppresses the development of toxic flue gases. The chemical reaction for combustion is therefore halted and the flame is extinguished. Thanks to ACCURO's strong commitment within the area of power plant construction and oil production, a significant number of different models have been introduced onto the market. ACCURO exclusively uses components from renowned manufacturers with the necessary approval.



PUMPING STATIONS

DESIGNS ACCORDING TO:

- TRVB
- VDS
- FM GLOBAL
- NFPA
- AND MANY MORE



The pumping station is at the heart of every stationary extinguishing system. This is where the necessary pressure is generated for the extinguishing water and downstream extinguishing areas and units. ACCURO technicians design and construct their sprinkler systems according to standard international regulations. Whether these are VdS, TRVB, FM or NFPA regulations - ACCURO is always the right partner for you.

Upon request from the customer, we also offer pumping stations in container solutions. The main advantage for the customer is that time-consuming assembly works on-site are no longer required. This solution is particularly worth considering for our projects abroad.



FIRE DETECTION AND FIRE ALARM SYSTEMS

A fire alarm system is an alarm that receives signals from different fire alarms, assesses these and then triggers the appropriate action. A wide range of different technologies can be used to detect a fire.

ACCURO is able to plan and construct a wide range of different brands including Esser, Kentec, Notifire, Mircom and Hochiki. This versatility allows ACCURO to plan in a highly flexible manner and work according to customer requirements. In addition to selecting the right type of detector (smoke, temperature, fire alarm, etc.), the correct engineering method is also extremely important. A high-quality detector that has been installed in the wrong place, will not achieve the desired effect.

ACCURO offers highly qualified and experienced technicians to correctly position the detectors. ACCURO therefore ensures that all areas and applications are covered.

TECHNOLOGY:

- > FIRE ALARM SYSTEMS
- > EXTINGUISHING CONTROL PANELS
- > ASPIRATING SMOKE DETECTORS
- > ALARM ROUTING SYSTEM
- > ALARM TECHNOLOGY
- > OPTICAL SMOKE DETECTORS
- > HEAT DETECTORS
- > MULTI-CRITERIA DETECTORS
- > FLAME DETECTORS
- > ASPIRATING SMOKE DETECTORS
- > LINEAR HEAT DETECTORS
- > PUSH-BUTTON ALARMS
- > AND MANY MORE





REPAIR AND MODERNISATION



Many fire protection systems were built decades ago according to the valid international guidelines at that time. However, they were never, or only poorly maintained. Different modernisations were largely carried out half-heartedly and insufficiently. This was not only the situation in developing and emerging countries, but also affected many systems in Western industrialised countries.

Many companies (oil producers, power plants, steel works, etc.) were exposing themselves to huge fire risks due to poor risk management. Unfortunately, the danger that this posed to humans, the environment and the existence of the company was very often underestimated. ACCURO therefore specialises in bringing outdated systems up to standard. The necessary costs involved can often only be calculated after an in-depth functional test. Depending on the condition of the systems, parts have to be repaired or replaced. This does not only present a logistical challenge, but also requires a high level of specialist knowledge and expertise.



EXTINGUISHING WATER SUPPLY AND FIRE HYDRANTS

Despite the increasingly modern extinguishing agents and technologies available, water remains the most commonly used agent to extinguish fire. Water is also suitable for fighting incipient and large-scale fires. One condition for both cases is, of course, a sufficient extinguishing water supply. Supply pipes are primarily made from steel, cast iron or polyethylene (PE, PEHD).

ACCURO uses the most suitable material depending on the application and area. In addition to cast iron pipes, ACCURO also specialises in using FM-tested underground polyethylene pipes (PE, PEHD). Polyethylene is distinguished by durability and a high resistance to environmental influences.

TECHNOLOGY:

- CAST IRON UNDERGROUND PIPES
- POLYETHYLENE UNDERGROUND PIPES (PE, PEHD)
- GALVANISED OR PAINTED SUPPLY PIPES
- STAINLESS STEEL SUPPLY PIPES
- INTERNAL HYDRANTS
- EXTERNAL HYDRANTS
- SUCTION POINTS
- DRY RISERS



AREAS OF USE:

- WASTE INCINERATION & SPECIAL WASTE DISPOSAL PLANTS
- COAL AND CHEMICAL PLANTS
- TRANSFER STATIONS FOR GAS AND OIL
- BOILER PLANTS AND FUEL DEPOTS
- COMPRESSOR AND PUMPING STATIONS
- OIL DEPOT
- MILLS AND HYDRAULIC SYSTEMS
- ALL KINDS OF VEHICLES
- HELICOPTER AIRFIELDS
- OFFSHORE SOLUTIONS
- OIL BATHS
- HARDENING PLANTS
- INDUSTRIAL DEEP FAT FRYERS
- AND MANY MORE

SPECIAL EXTINGUISHING SYSTEMS



Depending on fire risks and the possible fire loads, special fire fighting solutions can also be taken into consideration. ACCURO has a suitable solution for almost every area and application, be it automatic or manual extinguishing systems. Whether it is powder, foam, gas or any other special extinguishing media, ACCURO is the right choice.

Technology:

- Powder extinguishing systems
- Monitor extinguishing systems
- Vehicle extinguishing systems
- Kitchen and deep fat fryer protection
- Spark extinguishing systems
- and many more



Reliability and expertise.

FIRE PROTECTION IS OUR BUSINESS.



Even the best extinguishing system proves ineffective if used incorrectly and either causes more damage than good or does not, or only inadequately, reduces the risk of fire. ACCURO therefore places a particular focus on the expectations of its customers and thus complies with the following guidelines.

Quality management system according to EN ISO 9001:2008

The fulfilment of quality that is both expected from customers and laid down in the legal guidelines of ACCURO, is primarily guaranteed through a quality management system according to the international standard EN ISO 9001: 2008 and legal guidelines.

With the implementation of the standard, the management board of ACCURO is therefore complying with their organisational and supervisory duty which in turn emphasises their awareness of quality.

Safety management system according to BS OHSAS 18001:2007

ACCURO is constantly focusing on bringing its advanced safety, health and environmental management system in line with the requirements of the customer. A risk-free and safe working environment is our utmost priority and must be an objective to our employees. ACCURO commits to fulfilling and complying with the relevant legal, official and customer-related requirements.



Satisfied customers are our success.

EXCERPT OF OUR REFERENCES.



ABB Mannheim, ABB Wien, Adolf Darbo AG, AE&E Power Plant GmbH, Agrana Tulln, Alpine Bau, AMADA Austria, Andritz, Atomic, AVE Entsorgung, Axima, Baumax, Bawag, Baxter, Bechtel, Bezirkskrankenhaus St. Johann, Binderholz, Bosch, BP Gas Austria, Brigl & Bergmeister – Papierfabrik, Brodinger IT - Sicherheitstechnik, Marriott Hotels, CSC Austria, CWT Austria, Dachser, Dana, Danieli - Italia, DHL, DM Drogerie Markt, Donauchemie, Dräxlmeier, EGGGER - Holzindustries, EGLO-Leuchten, Elin, Ennskraft, Eren Energy - Turkey, Ernst & Young, Erste Bank, Eurofoam, Europark Shopping Centers, Jabil, MCE, Ortner, Felder KG, Ferag Zeitungsverlag, Ferasa Libya, Fernwärme Linz, Fernwärme Wien, Fielmann AG, Funder Industries, Fundermax Holzindustrie, Gasteiner Felsenbad, Gebro Pharma, Gebrüder Weiss, GFA, Gföllner Fahrzeug- und Containertechnik, Greiner - Kunststofftechnik, Habau, Hagebaumarkt, Head Sport AG, Herba Chemosan Apotheker – AG, Herz Energietechnik, Hofer KG, Holzindustrie Stallinger, Honeywell, Hyosung Istanbul Textile, Hypo, IBM Österreich, IET Energy, IKEA, Interspar, MAN Diesel, Media Markt, Iprona AG, Iron Mountain Austria, IZD Office Center, Jack Wolfskin Stores, Johann Pengg AG, Kaindl-Holzindustrie, Kaufmann Holz, Kelly GmbH, Kimia Ara - Iran, Knapp, Kraftanlagen München, Krankenhaus Barmherzige Brüder, KTM Sportmotorcycle AG, Künzli Holz AG, Lenzing AG, Liebherr, Lidl, Linz AG, LISCO Lybia, Saturn, Magna Steyr Fahrzeugtechnik,

Maximarkt, McDonald´s , MCE Anlagenbau, Mercedes Benz, Metro Group, Metz Anlagentechnik, Miele, Millennium City + Tower, Mondi, Mozarteum Salzburg, M-Preis Warenvertriebs GmbH, M-Real Hallein AG, Musiktheater Linz, Nemak Linz, Neumann Alu Strangpresswerk, New Yorker, Knapp KG, Nexis Fibers AG, Nordsee Wien, ÖBB, Ortner, Österreichische Novopan, Pengg Austria, Pfeifer Holzindustrie, Pfanner Getränke, Pflegezentrum Grazerfeld, Pinzgau Milch, Plus City, PORR, Quelle, Radlberger Getränke, Rauch Fruchtsäfte, REAL Bratislava, Rewe Group Austria, Rhomberg Bau GmbH, Richard Schöps & Co AG, Riedel GmbH, Robert Bosch AG, RODAMCO CZ, Rondo Ganahl AG, Salomon Austria, Salzburg AG, Sandoz, Sappi Austria, Shell Austria AG, Siba GmbH, Siconnex Customized Solutions, Siemens Austria, Siemens - VAI, SMIT Transformatoren, Spar Österreich, Sprecher Automation GmbH, Stadtwerke Hall i. Tirol, Stadtwerke Brixen, Stallinger Swiss Timber AG, Stavby Morava s.r.o, Steyr-Daimler-Puch, Steinbacher, Stora Enso, Stora Enso Timber, Strabag, Stumpf AG, Swietelsky, Team 7, Tetra Pak, Theurl Holzindustrie, Tilak, T-Mobile, Tommy Hilfiger, Tyrolit KG, Umdasch AG, Unger Stahlbau, UPC Telekabel - Austria, VA Tech Hydro, Vaillant, VAOS-Lybia, Vorarlberger Illwerke, W&P Zementwerk, WAKU, Wien Energie, Wien Mitte Immobilien, Würth, Wüstenrot, XXXLutz, Zimmermann Ganahl AG, ZIPP Bratislava, and much more...

We have fire ...

ACCURO

FIRE PROTECTION SYSTEMS



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|  ACCURO Austria |  ACCURO Germany |  ACCURO Switzerland |
|  ACCURO Hungary |  ACCURO Croatia |  ACCURO Tunisia |
|  ACCURO Slovakia |  ACCURO Bulgaria |  ACCURO Turkey |
|  ACCURO Czech Republic |  ACCURO Romania |  ACCURO Iraq |
|  ACCURO Slovenia |  ACCURO Russia |  ACCURO Libya |

ACCURO Brandschutzanlagen GmbH
ACCURO Sonderlöschanlagen GmbH

Matthäus-Much-Str. 7
5310 Mondsee, Austria

Tel.: +43 6232 5055-0
Fax: +43 6232 5055-22
office@accuro.at

... under control

www.accuro.at