Fire protection

Perfectly equipped

They have to work in case of emergency: Systems for early fire detection and active fire fighting. Because fire is among the greatest threats to people, the environment and property. The quicker a fire is detected and fought, the smaller its consequences will be.

We engineer, supply, install and maintain fire alarm and fire fighting systems for industrial plants, power plants, public and commercial buildings.
Our solutions and sites

Trust the Kraftanlagen experts

Only systematically linking fire protection systems, early fire detection systems, fire alarms and stationary fire fighting systems provides optimal protection for people, buildings and property. Professionals are needed to make that work – Kraftanlagen experts engineer and erect complete fire detection and fire fighting systems.

We have the required permits for the engineering, erection and maintenance of:

- Fire alarm systems
- Sprinkler systems
- Spray-water fire fighting systems
- Foam mixing in water extinguishing systems
- Water-fine spray extinguishing systems
- Foam extinguishing systems
- Gas fire fighting systems
- Hydrant systems

In addition to maintenance our services also include repairs, conversions and refurbishments of existing plants. We will gladly develop special extinguishing systems that are tailored to meet your protection objective. The Kraftanlagen Group is a versatile partner for industry and the energy sector.

We are covering the entire life cycle of plant technology. Our range of services in the field of fire protection includes the following services:
Fire fightings systems

Always the best solution:

According to German property insurers, sprinkler systems extinguish 98 percent of all fires. Other extinguishing agents are not less important. In locations where the risk of fire to people, property and the environment is particularly high, foam and gas fire fighting systems are nearly always used. As a fire protection specialist with many years of experience, we have mastered all standard fire fighting systems. We engineer and erect systems that are specially tailored to meet your needs.

Sprinkler systems
Our sprinkler systems automatically fight fires while triggering alarms at the same time. That allows fire fighters to precisely locate the source of the fire and coordinate their own activities.

Spray-water systems
Spray-water or water mist fire fighting systems protect places where a fire could spread quickly. They are used in aeroplane hangars, the chemical industry, furnaces, generators or turbines, amongst other things.

Foam extinguishing system
We install foam extinguishing systems wherever liquids could catch fire. We are also experts in this field. We are engineering and installing this fire protection solution in tank farms, oil collection tanks, in storage and production areas with liquid fuel, plastic containers and flammable chemicals.

Gas fire fighting systems
We engineer and erect gas fire fighting systems when, for example, using water as a cleaning agent would cause unacceptable damage. The use of extinguishing gases is a challenge for plant technology, because it is important to warn people in time and to use the right amount of the extinguishing agent – electronically, mechanically, manually or in combination.

Revitalisation of the sprinkler protection, HVB-Tower Munich
Total renewal of a completely redundant sprinkler protection in the office tower with technical centre and connected low-rise building with a conference centre (including pumps and switch cabinets).

<table>
<thead>
<tr>
<th>Total number of sprinklers:</th>
<th>10,734</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump system (tower):</td>
<td>2 x sprinkler pump 160 kW, shut off head approx. 160 m</td>
</tr>
<tr>
<td>Pump system (all other building parts):</td>
<td>2 x sprinkler pump 132 kW, shut off head approx. 104 m</td>
</tr>
</tbody>
</table>
Fire alarm systems

Our systems save life

Taking optimal precautions that allow early fire detection increases your safety. We will support you in this effort – from the initial consultation all the way to maintenance services at the completed system.

An intelligent fire warning system makes the difference in the fight for lives and property.

We install early detection systems that react to smoke, heat or radiation, trigger alarms and automatically initiate fire extinguishing measures that are always coordinated.

Control of fire fighting systems

Specially designed fire warning systems also control stationary fire fighting systems. By combining both systems, incipient fires can be fought in time.

Enormously good

The "Stachus" building is one of Munich’s most populated places and unique in the many functions it fulfills: it is a shopping centre, a subway station, a car park and a workplace. Kraftanlagen built the complete fire fighting system for one of Europe’s largest subterranean buildings. It includes 25 alarm valve stations, 12,000 sprinklers and 80 wall hydrants (our picture shows the ceiling of the shopping mile in the first basement level).

The German Association of Technical Fire Protection e.V. (bvfa) awarded the "Stachus" building the “Sprinkler Protected” seal of quality for exemplary fire protection. It is the leading German certification for preventative technical fire protection.

Hangar Hall 7 fire fighting system, Düsseldorf airport

With an area of 220 x 90 m and a height of 32 m, the maintenance hall provides space for three Airbus A340-600 planes. An increased risk of fire caused by kerosene and hydraulic oils requires a foam mixing in the extinguishing water. Fire fighting monitors support the ceiling fire fighting system below the bodies and wings of the planes.

Spray water extinguishing nozzles: 1,950
Sprinklers: 1,200
Fire fighting pumps: 4 x 10,000 l/min, 8 bar each
Water storage containers: 2 x 785 m³ each
Service and maintenance

Fire protection in good hands

We are offering you a proven service organisation that has expanded over the course of decades and takes care of all tasks related to maintenance and repairs.

The services we provide do not end when we hand over the operational system to you. We have an experienced maintenance and repair team that is always on standby around the clock. It obviously also supports plants that were not built by Kraftanlagen.

Always on the cutting edge

Technology keeps advancing more quickly. In Kraftanlagen, you have a strong partner for innovation. We regularly expand the expertise of our service team through courses and training and we will make sure your systems stay up to date.

Everything at a glance

As a total solutions provider, we will gladly perform repair, retrofitting and optimisation tasks as part of our maintenance service.

Safety provided by specialists

We will help you take optimal precautions – whether in your production, the warehouse or in the administration. Our references with regard to engineering, new construction or refurbishment include hangars, power plants, mail and logistics centres, woodworking companies and public buildings. We will ensure that the systems are always ready with well-coordinated maintenance and repairs.
Product ranges of the Kraftanlagen Group:

Energy and power plant technology
Decentralised power generation
Underground piping systems
Nuclear technology
Industrial plants
Utility services
Fire protection
Engineering
Fabrication
Welding and testing technology

Contact Munich:
Robert Sigl
T +49 89 6237-408
robert.sigl@kraftanlagen.com

Contact Hamburg and Düsseldorf:
Momme Krause
T +49 40 54716-144
momme.krause@kraftanlagen.com

Contact Rhine-Main-Neckar region:
Dirk Chmielewski
T +49 6221 94-1780
dirk.chmielewski@kraftanlagen.com

www.kraftanlagen.com
A Company of the Alpiq Group