

... and nobody  
has to leave the ship

Marine Fire Protection

Safe for certain.

**mx** BRANDBEVEILIGING

# SAFETY

## COMPETENT

The variety of fire risks on ships requires a partner who provides fire protection from planning through to realisation and who takes the special requirements into consideration.

Minimax is the leading full-service provider for fire protection in Europe and one of the leading companies worldwide.

With Minimax you "play safe": we provide complete stationary and mobile fire protection solutions from risk analysis via technical design to installation.

We look after approval of the components, submission of documents to the classification societies and acceptance of the systems during commissioning on your ship.

Minimax provides a customised fire protection concept and a perfect combination of individual systems.

**Our fire detection systems** detect fire risks fast and reliably 24 hours a day. They warn persons at risk, inform the people responsible and provide all relevant information to initiate correct emergency measures immediately. Minimax provides fire detection and extinguishing control in one system: the extinguishing process is automatically triggered on demand and the fire is extinguished in its initial phase, thus minimising damage.

Minimax **gas extinguishing systems** suffocate fires in their initial phase: without extinguishing residues, extinguishing damage or ecological damage. Adapted to special fire risks, they are suitable for fire protection in cargo and machinery spaces.

Leading shipyards and ship owners rely on Minimax: **Our sprinkler systems** are used in passenger areas like cabins and restaurants worldwide. Minimax sprinkler systems automatically identify, detect and extinguish fires and thus, provide permanent reliable protection.

Due to its close cooperation with all important classification societies on a national and international level Minimax often contributes to laying the basis for new regulations worldwide.



Alternatively to conventional sprinkler systems **fine spray technology** provides a very safe and economic solution. In case of fire our **Minifog fine water spray systems** show a very fast and effective reaction because of their optimal adaptation to the protection object and the expected spreading of the fire.

They spray the tiniest droplets of extinguishing water. Thus the cooling and suffocation effects are very effective. The pollution of the environment and the impact on people is reduced by binding smoke and harmful substances in the extinguishing water.

Using fine spray technology reduces:

- ▶ pipework dimensions and weights
- ▶ the amount of extinguishing water required
- ▶ space requirements
- ▶ contaminated extinguishing water residue
- ▶ extinguishing water damage

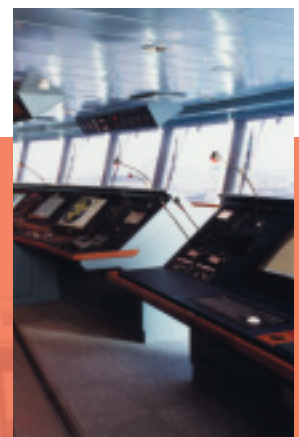
# ON BOARD

## EFFECTIVE

This is why we also use fine spray technology for **local protection** of combustion engines and oil burners as an alternative to conventional sprinkler systems.

**Deluge systems** are used in special hazard installations where a fast fire expansion is to be expected. e.g. protection of large areas like car decks and tank decks on gas and chemical carriers. They facilitate extensive fire-fighting and cool down the burning substance.

The heat impact on objects in the vicinity is also reduced and the fire is thus prevented from spreading. The system can be activated automatically or manually according to requirements.



KÜSTENWACHE



# SYSTEMATIC

## SPECIFIC

**Foam extinguishing systems** are the solution for fighting liquid fires. High-risk areas, like engine, boiler or pump rooms, are perfectly protected with high-expansion foam. Low-expansion foam distributed with monitors is a very effective extinguishant for large open areas like tanker, freight carrier and helicopter decks.

**Powder extinguishing systems** are ideal where sudden fire "knock-down" is necessary and extinguishing damage is irrelevant, such as on the cargo decks of LPG or LNG tankers. The systems are available with different supplies and capacities.

MINIMAX water/foam monitors are perfectly suitable for equipping class 1 to 3 **fire-fighters**. They operate with a water throughput of up to 3,600 m<sup>3</sup> per hour and are supplied with hydraulic lift masts, diesel and electric pumps as well as the foam equipment.

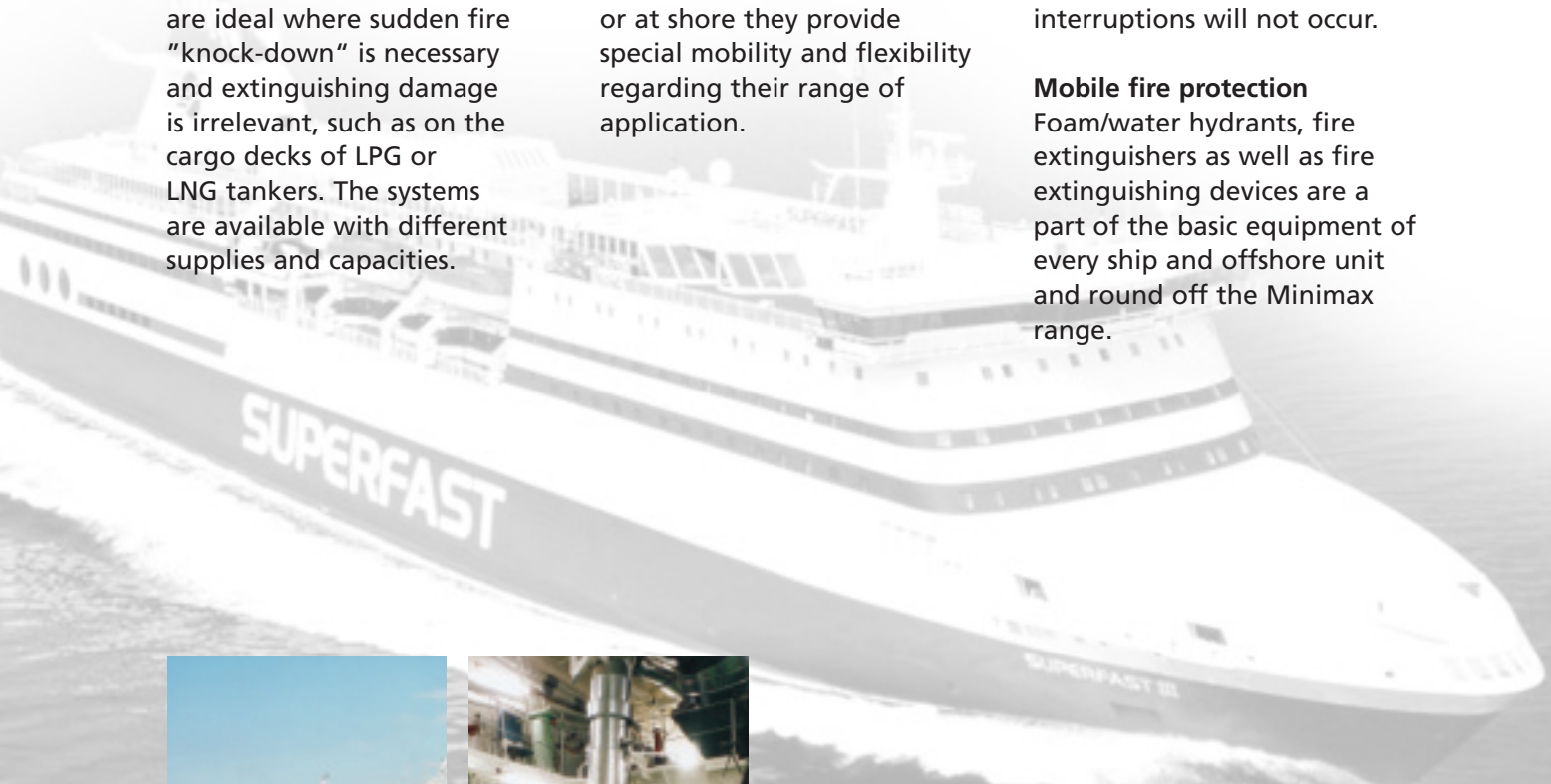
Firefighter containers are designed for fire fighting from various places of operation. Installed on tugs or at shore they provide special mobility and flexibility regarding their range of application.

A large amount of hot fat in the galley bears a high risk of fire.

Manually or automatically activated Minimax **galley protection** systems extinguish fat fires in a matter of seconds. The special extinguishant is highly effective, leaves only a small amount of residue, which can be removed quickly, and is generally recognised as hygienically safe. Devastating consequential damage and operating interruptions will not occur.

### **Mobile fire protection**

Foam/water hydrants, fire extinguishers as well as fire extinguishing devices are a part of the basic equipment of every ship and offshore unit and round off the Minimax range.



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Certificated to  
ISO 9001