

# Get the Technology



# Scope of Supply

## Air Conditioning



Merchant Vessels    Mega Yachts  
 Naval Vessels      Rail/Vehicles  
 Passenger Vessels    Offshore Platforms

## Fire Figthing



Merchant Vessels    Mega Yachts  
 Naval Vessels      Wind Energy Plants  
 Passenger Vessels    Offshore Platforms

## Refrigeration



Merchant Vessels    Passenger Vessels  
 Naval Vessels      Mega Yachts

## NBC Protection



Naval Vessels  
 Vehicles  
 Special Purpose Vessels

## Piping



Merchant Vessels    Passenger Vessels  
 Naval Vessels      Mega Yachts

## Service



Merchant Vessels    Mega Yachts  
 Naval Vessels      Rail/Vehicles  
 Passenger Vessels    Reefer Containers



# Get the Technology

For over 130 years the key characteristics of Noske-Kaeser are the fascination for shipbuilding, the passion for engineering and the ambition to solve technical challenges for our customers.

As early as the 1880s the Noske machine workshop in Hamburg was already at the cutting edge of central heating and ventilation engineering, registering many patents and gaining numerous government orders.

Today, our specialised company is an established player in the international shipbuilding supplier industry, operating a global network of subsidiaries and sales partners.

The innovative spirit and creativity of our engineering staff often produce new developments setting technological standards for the entire industry.

Exclusive knowledge combined with hands-on work are the starting point for customised technical solutions meeting the highest safety and quality requirements imaginable.

We cooperate with universities and research institutes on national and international projects on a regular basis, for example to test environment-friendly materials or to improve the efficiency of our installations.

Noske-Kaeser represents technology, reliability and quality. Our systems and installations have proven themselves under the toughest operating conditions and over many decades.

International references from all sectors of the shipbuilding industry as well as in the fields of track-bound and special-purpose vehicles approve our excellence. We provide our customers with comprehensive support, from the design and implementation phases of projects through to maintenance or retrofitting – worldwide and from A to Z.



# Customised Performance

Technology and quality are the characteristics of Noske-Kaeser's installations and components. We use our comprehensive knowledge based on decades of experience and our unique engineering know-how to find the optimum customised solution.

Noske-Kaeser's air conditioning systems are used to regulate cabin temperatures on a cruise ship in the Caribbean Sea. Our proprietary patented fire fighting systems ensure the safety of submarine crews in the Atlantic. Passengers travelling from Shanghai's airport to the city centre on the Transrapid maglev train benefit from our air conditioning system. These are just a few examples of our range of business activities – loosely based on the motto: Engineering makes the world go round!

## Air Conditioning

Over 1,500 of our heating, ventilation and air conditioning installations (HVAC) are in operation on many kinds of ships as well as in track-bound and special-purpose vehicles all over the world. They operate under the toughest conditions, providing proof of our attention to design detail and their precise assembly and reliability. Noske-Kaeser manufactures complete tailor-made air conditioning systems, supplied as luxury or individual systems in standard or special versions, as well as ventilation, air heating and air cooling plants. Our ventilation plants are specifically designed for living, working, machine and cargo spaces as well as for technical spaces of any kind.

## Refrigeration

We cover most shipbuilding applications for refrigeration units, such as air conditioning, provisioning and cargo refrigeration systems as well as shock- and vibration-proof units for naval vessels. For example, Noske-Kaeser units provide the refrigeration required on board of trawlers or for central refrigeration systems on board of container ships.

Our vehicle units are usually integrated into air conditioning systems. Key characteristics of these units include compact dimensions, easy accessibility for maintenance and servicing as well as their light weight.





### Piping

Noske-Kaeser has been a successful player across the entire range of piping technology for decades. We supply piping systems covering the entire range of the shipbuilding and offshore sector as well as equipping special purpose vessels for the transport of oil and chemicals. An optimum combination of individual elements ensures a seamless supply and attention to detail as well as thorough insulation are key factors for the long service lives of our systems.

### Fire Fighting

Noske-Kaeser's fire fighting installations are cutting edge: our water, foam, nitrogen and CO<sub>2</sub> fire fighting

systems offer across-the-board protection. Tests carried out in-house or in cooperation with industry, classification societies, authorities and the military testing facilities of the German armed forces often result in successful innovations.

### Special Technology

Noske-Kaeser is also a specialist in the field of NBC protection. We deliver compact air conditioning systems with integrated NBC protection filters for Shelters, which can be mounted on external covers. NBC protection systems in combination with air conditioning systems are also available for civil and military armoured vehicles.





# Service without Limits

Right from the start we provide our customers with a unique combination: high quality systems and excellent service. We maintain installations, ensuring that they are always available – for decades of service life and satisfied customers.

Noske-Kaeser's range of services is comprehensive: major overhauls, conversions, spare parts supply, repairs, retrofitting, servicing and maintenance (including other manufacturers' installations) not to forget the training of operators.

## **24-Hour-Service**

Noske-Kaeser has an experienced service team available twenty-four-seven worldwide. We also provide a telephone hotline – because a fast reaction can be crucial for man and machine.

## **Spare Parts**

Noske-Kaeser provides a rapid, global OEM spare parts service. Our installations have long service lives, meaning that we can also supply parts for older systems.

Customers can choose from a range of spare parts concepts designed to provide the optimum service for individual installations and requirements.

## **Maintenance**

Noske-Kaeser's installations are designed to be easy to service and almost maintenance-free. Due to our many years of experience we can provide maintenance concepts tailored to our customers' needs.

## **Reefer Containers**

Noske-Kaeser is the authorised service partner of all leading reefer container manufacturers. We have a network of service points in Hamburg, Bremerhaven, Vienna, Basel and Buenos Aires as well as many partner depots. Our specialist services include inspection before use, monitoring inspections, repairs and modifications – all indispensable for reliable reefer container operation.

# Our best Label is Quality

Noske-Kaeser sets high quality standards worldwide. The key characteristics of our products and installations are long service life, stability and excellent workmanship. We will ensure that our customers can always rely on our quality.

We have been developing and refining our comprehensive in-house quality management system for many years now. Noske-Kaeser is DIN EN ISO 9001:2000 certified and all our manufacturing partners have to provide documented evidence of the same quality standards and additional qualifications, such as DIN 2303 (Welding and allied processes for military products). Our personnel have in-depth specialist know-how and many years of experience and carry out stringent tests in our own laboratories to guarantee Noske-Kaeser's outstanding quality.



## Central components of our quality management system are:

- Quality planning and management
- Selection and management of suppliers and contractors
- Incoming goods and final inspections
- Refrigeration and ventilation performance testing
- Structure and air-borne sound analysis

# Designing the Future

Noske-Kaeser is a long-established company recognised both by excellent engineering performance since its founding and by the reliability and quality of its products and installations.



The foundations for today's Noske-Kaeser GmbH were laid in 1879, when Robert Ferdinand Noske established a machine workshop in Altona, near Hamburg. Following its merger with heating system builder Anton Kaeser the company subsequently developed into a supplier of cutting edge technology, for the ship-building industry in particular.

Robert F. Noske founds a machine workshop for construction of ventilation and central heating plants



1879

The "Imperator", the world's largest ship, equipped with hot-air heating system from Noske



1914

Take over by Blohm + Voss and merger to Noske-Kaeser GmbH



1979

Collision damage of MS "Europa" near Hongkong: 17 service technicians complete all repairs of AC units on board



1992



Anton Kaeser founds a metal-working shop in Hamburg



Construction of complete sanitary facilities for express steam ship "Bremen" winning the Blue Ribbon in the following year



Start of series production of Coolmaster refrigeration units for transporting provisions



We have always built on and put our faith in the ongoing development and refining of our core competencies in addition to solid growth in new fields of business. Based on the technical skills and loyalty of our personnel we could successfully manage also difficult economic conditions at various points in the company's history. Noske-Kaeser stands for a living technological tradition – on the water and on land.

First major international project: Anzac class frigates for Australian and New Zealand Navies equipped with NK-Technology



First delivery of AC and piping systems for two AIDA cruise ships



Most recent patent received for filter unit of gaseous media



1995

1996

1998

2001

2007

2008

2009



Design and construction of prototype for AC system operating in Transrapid maglev train



HyFEx® registered brand: special fire fighting system for submarines



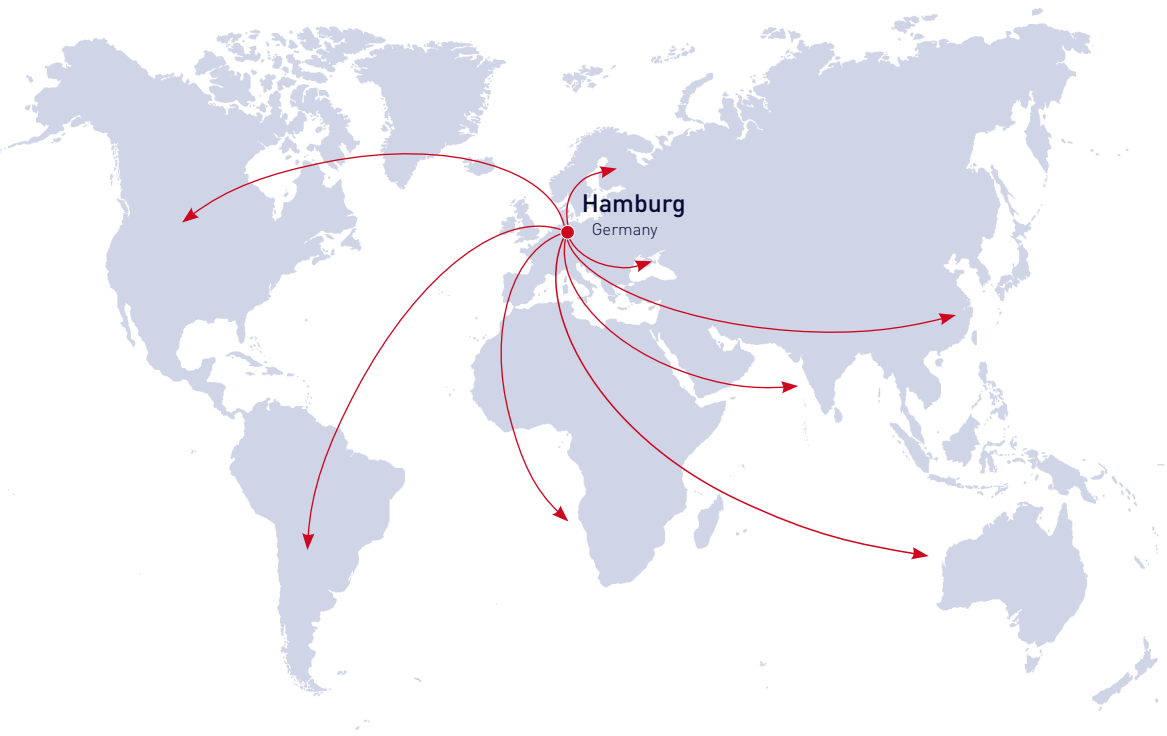
Worldwide expansion and establishment of international companies in France, India and China



NK Turkey starts operations in Tuzla and participates at SMM Istanbul

# Global Brand with Local Access

All over the world Noske-Kaeser stands for reliable installations and the highest possible quality. We are where our customers are – offering competent advice, international project management and top quality services on the ground.



Over the course of many years we have built up a network of local subsidiaries and experienced sales partners, growing from the historic roots of the Noske-Kaeser group of companies – our headquarters in Hamburg. Our network now spans the globe, enabling us to develop new markets and react flexibly to the requests of our international customers, for example by providing a short term action of our service team.





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- Air Conditioning
  - Ventilation
  - Refrigeration
  - Fire Fighting
  - Piping
  - Service

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