

# Service





## About us

Noske-Kaeser provides complete, customer-specific services for the shipbuilding industry as well as for the industrial and vehicle construction sectors for over 130 years. This includes merchant and naval vessels, industrial plants, rail and road vehicles as well as chilled containers with air-conditioning, refrigeration and ventilation, fire-extinguishing and NBC-protection systems. Nevertheless, the finest, technically sophisticated equipment can only operate long term, if it is properly maintained and repaired. We therefore apply the same high standards to our service as to our products.

## Service from Noske-Kaeser

Noske-Kaeser offers complete service for its entire product range. We tailor this service individually for each customer – the optimum solution is the goal for each case. However, our service doesn't end at our own product categories: Together with renowned partners, we are also actively available to you in all preceding and following technology fields. "Service from a single source" is more than just a slogan for us.

The service, which we offer worldwide, covers the following main groups:

-  Conversion
-  Repair
-  Spare-parts supply
-  Maintenance and repair
-  Retrofitting of refrigeration plants
-  Duct cleaning
-  Emergency service
-  Container service
-  Fire-extinguishing technology
-  Piping construction
-  Quality inspections

Our experts are available for these services around the clock. Support is provided through up-to-date EDP tools and the appropriate logistical prerequisites – not just from Noske-Kaeser but from our partners as well.

## Conversion

Plants and investment goods necessitate continuous adaptation to new market requirements and techniques. Many conversion projects are coupled with tight deadlines – we're your reliable partner for this, ensuring on-time completion.

Noske-Kaeser offers a complete service chain in the field of conversions – from planning through to putting plants and systems into operation. We can call upon decades of experience in this field. We have proved through numerous projects that we are able to complete technically demanding conversions even under considerable scheduling pressure, to the fullest satisfaction of our customers.

## Repair

Even the best plants and equipment sometimes fail. Noske-Kaeser helps: We offer repair service throughout the world which is supplemented by our 24-hour emergency service.

In the interest of our customers, we place emphasis on rapid and cost-optimized repairs. For us, a matter of course: failure analysis and recommendation of measures to prevent future failures.

## Spare-parts Supply

Whether for emergency replacement, the replenishment of stocks or scheduled maintenance: Noske-Kaeser offers genuine spare-parts for your equipment – of course, delivered on time and worldwide. Even for older systems we are able to provide genuine parts or equivalents. Contact us if you require spare-parts or skeleton contracts or optimized parts provisioning. We'll develop a spare-parts concept together with you which meets your individual needs and desires.



## Maintenance and Repair

In addition to plant and equipment breakdowns, uneconomical operating conditions are another potential risk which is often discovered much too late. Scheduled maintenance – either on site or remote – is offered by Noske-Kaeser at fixed conditions as a fiscal planning instrument against such dangers.

You have the choice: We calculate a maintenance contract for you which is matched precisely and individually to your equipment and needs. Alternatively, we can offer service flat rates for defined maintenance work – for example oil changes. This means an individual service at fixed costs.

## Retrofitting of Refrigeration Plants

You have a refrigeration plant? Then you are surely aware of the problems relating to refrigerants. We can provide competent and comprehensive advice on the current legal situation for the refrigerant you use. We'll show you all the possibilities for environmentally friendly and economical conversions and will advise you on the technical consequences for your system which conform with legal requirements. The proper disposal of oil and refrigerant goes without saying.

## Cleaning of Air Ducting

VDI Guideline 6022 recommends cleaning and disinfecting of air-duct systems every two years. This guideline does not apply directly to ships, but the future VDI Guideline 6032



refers specifically to it. We at Noske-Kaeser have dealt intensively with this subject and are therefore now able to compile and offer a concept adapted specially to your vessel requirements. With our suitably trained employees, we have comprehensive experience in the cleaning and disinfection of marine air-conditioning systems.

## Emergency Service

When nothing runs any more and a solution is needed quickly: Don't worry. Noske-Kaeser

offers a 24-hour emergency service. We can be reached around the clock and get all necessary measures into operation immediately in order to help you.

## Container Service

Fast response and reliability around the clock – that's what Noske-Kaeser stands for with service for your refrigerated containers. For over 25 years, we are active in the field of refrigerated-container technology with increasing success.

We are an authorized service facility for all standard manufacturers such as Carrier Transicold, Thermo King, Daikin and Mitsubishi. With our network of service centers (Hamburg, Bremerhaven, Basel and Buenos Aires) as well as our partner depots, we can provide complete service for refrigerated containers. We know that the quality of our work – instance pre-trip inspections, monitoring inspections, repairs or modifications has a considerable influence on the operation of your refrigerated containers and therefore your reliability carrier. Our employees keep your specialized knowledge up to date through intensive training courses.



## **Fire-extinguishing Technology**

Fire-extinguishing systems protect human life as well as physical objects – but such protection is available only under one condition: Good maintenance and periodic inspections are indispensable and legally required elements of every fire-extinguishing system. Through decades of experience in the development, design and construction of fire-extinguishing systems, Noske-Kaeser is able to service and repair all types of such systems.

Here, too, 24-hour service is of course also available. In this business field, we are equally active in the sectors of naval and merchant shipbuilding.

As the result of changing the user profile of a ship, the fire-extinguishing systems must be accordingly:

In addition to maintenance, we therefore also convert and expand existing fire-extinguishing systems. Whether sprinkler systems for the accommodation area or CO<sub>2</sub> fire-extinguishing systems for the engine rooms, whether on frigates, yachts or passenger vessels, we are familiar with all technologies and application fields. Worldwide service, the supply of spare-parts, training for the use and maintenance of Noske-Kaeser systems, conversion studies and comprehensive advice round out our services for fire-extinguishing technology.

## **Piping Construction**

The repair, conversion and expansion of piping systems of all kinds – regardless of the medium, pressure or temperature – also belong to Noske-Kaeser's product program.

Whether it's mechanical work, structural work or work on sanitary pipework on yachts, passenger vessels, tankers or container ships, you profit from our experience: We've been at home in piping construction for more than 130 years.



## Quality Inspection

The requirements for components and systems become more and more demanding and comprehensive. The inspection of specific quality characteristics necessitate suitable measurement equipment and qualified technical personnel. Our activities cover component inspections, which we perform in our facilities, as well as complete systems, which we inspect on site.

Our component inspections include:

- **Functional and performance testing** (refrigeration, ventilation, electrical)
- **Acoustical testing**
- **Mechanical testing**



The following testing facilities are available:

**Fan-performance test** stand for measuring fan performance, pressure-loss analyses and airflow measurements

**Refrigeration-performance test** stand for measuring refrigeration performance of air-conditioners on vehicles

**Chilled-water test** stand for measuring refrigeration performance and pulsation of chilled-water sets

**FFT frequency analyzer** for structure-borne and airborne noise measurements on air-conditioners, fans and chilled-water sets

**Spectral analyzer** for non-destructive material analysis of metals

**Mechanical measurement technology** including welding procedures

**Measurement technology for testing paint-coating systems** for measurement of layer thickness and glossiness and cross-hatch tests

We perform these tests on air-conditioning, refrigeration and fire-extinguishing components as well as switchgear cabinets.

Whether complete air-conditioning plants, fire-extinguishing systems or refrigeration units – we offer the following services when testing on site:

- **Putting plants into operation**
- **Functional and performance testing of plants**
- **Acoustic testing of components and systems**
- **Testing of paint coatings**
- **Fault analyses**



[www.noske-kaeser.com](http://www.noske-kaeser.com)

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