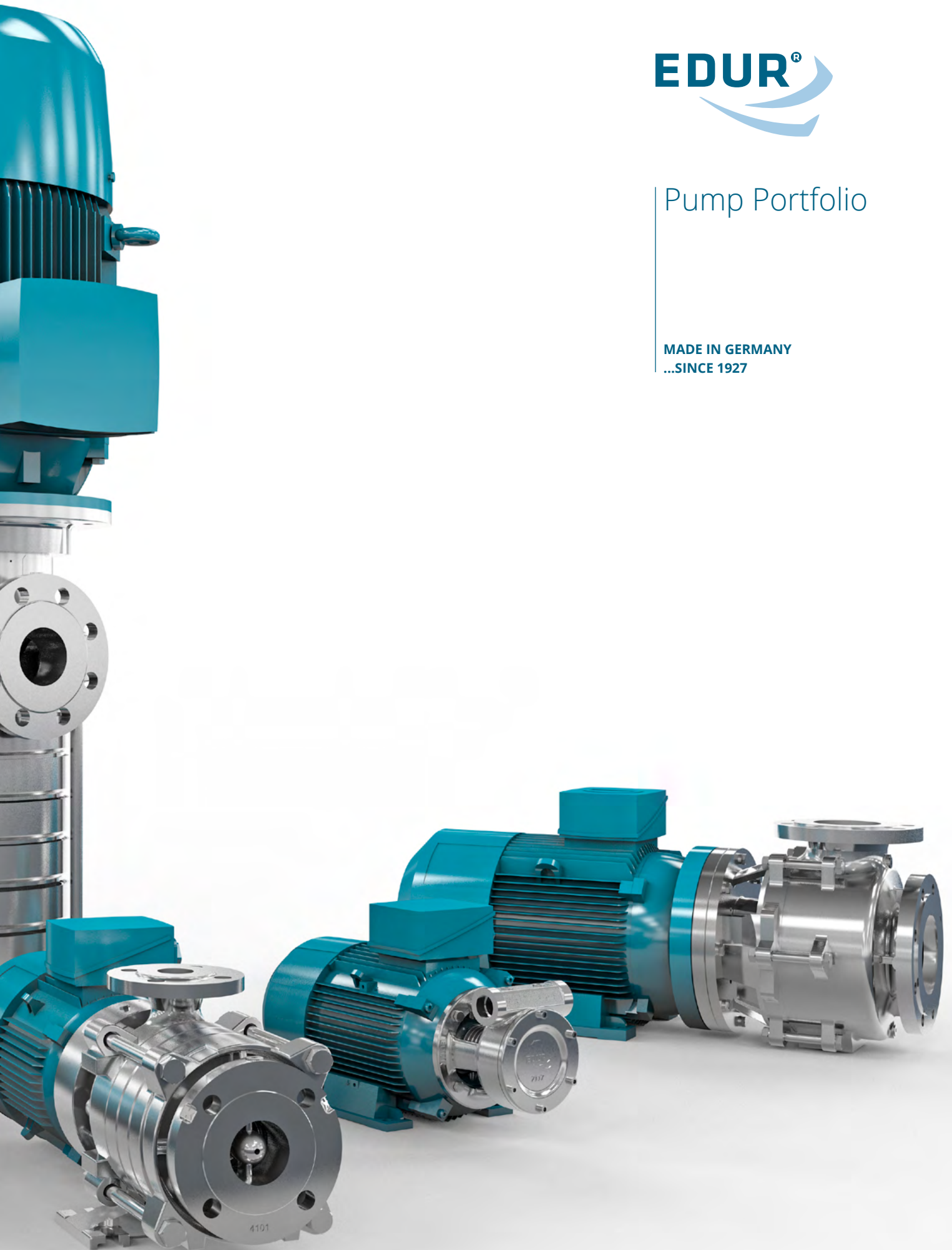
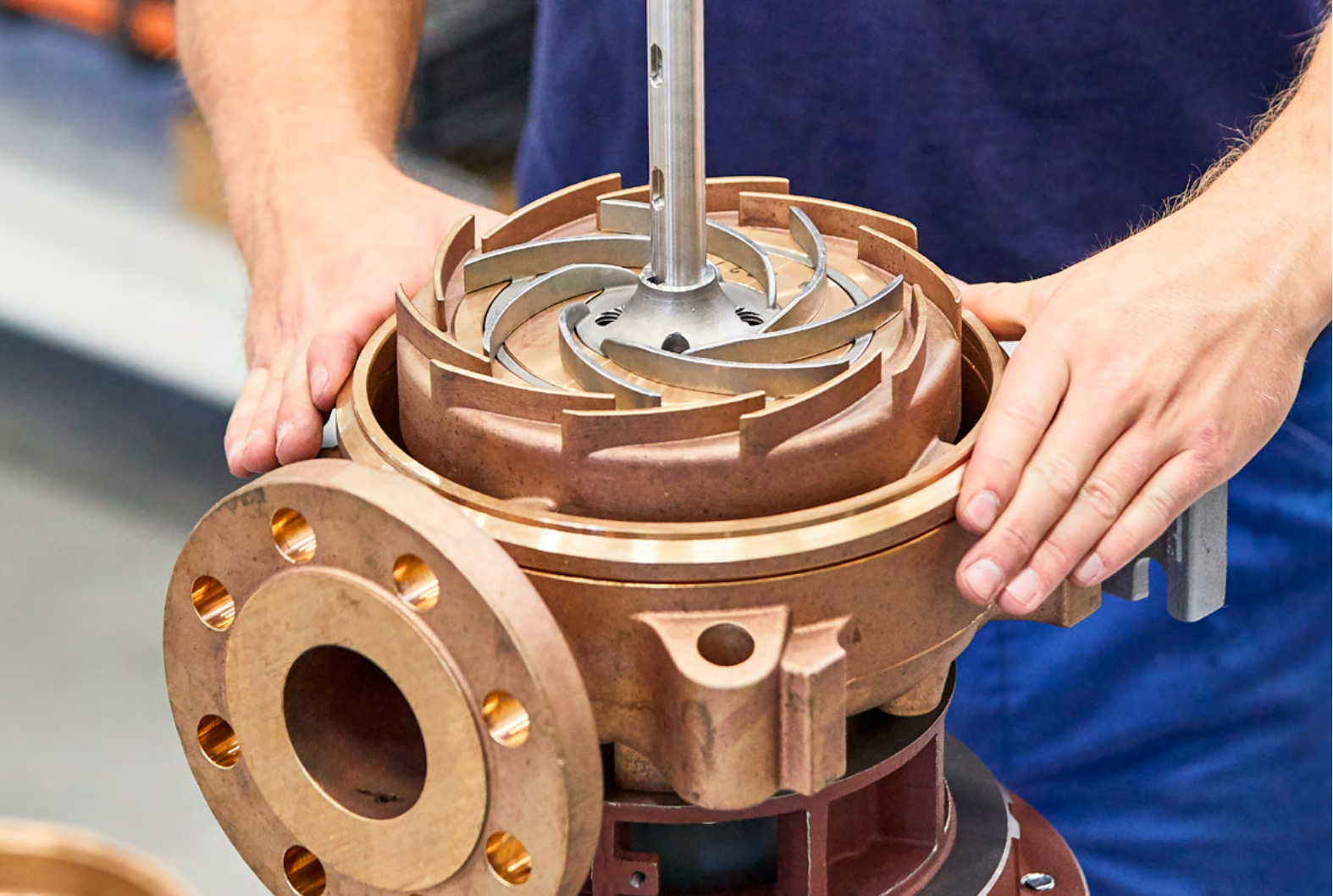




Pump Portfolio

MADE IN GERMANY
...SINCE 1927





MADE IN GERMANY

Individualised Pumping Solutions

EDUR is a specialist for centrifugal pumps, which are produced based on the specific needs of our customers. As a developer and manufacturer, we produce made-to-order centrifugal pumps for applications worldwide. Additionally, as a competent consultant and technology partner we offer our customers a comprehensive service. Being a successful and innovative family run business, based in Kiel, Germany, we pride ourselves with delivering state-of-the-art pumps with high-quality standards since 1927.

Single Stage Close-Coupled Pumps

Series NUB, CB, BC

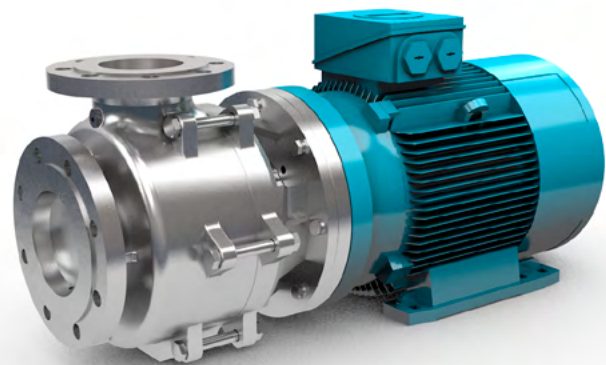
- Energy Technology
- Liquefied Gas
- Cooling Technology
- Industrial Cleaning Technology
- Water and Wastewater Technology
- General Industry Technology

GENERAL INFORMATION

Single-stage close-coupled pumps are robust, reliable and economical pumps with a long service life. They are characterized by their compact design and are used for the transport of pure or slightly contaminated liquids.

ADVANTAGES

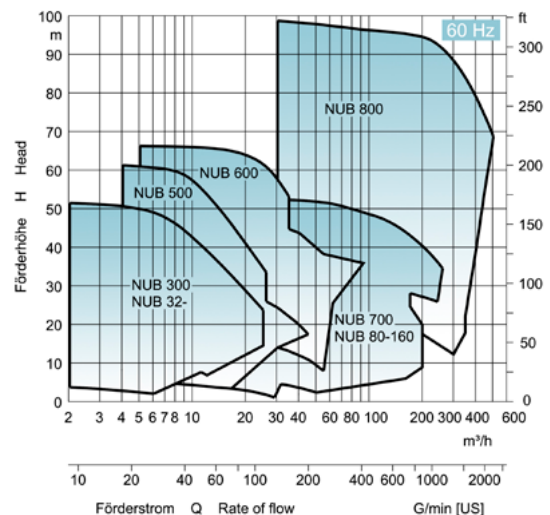
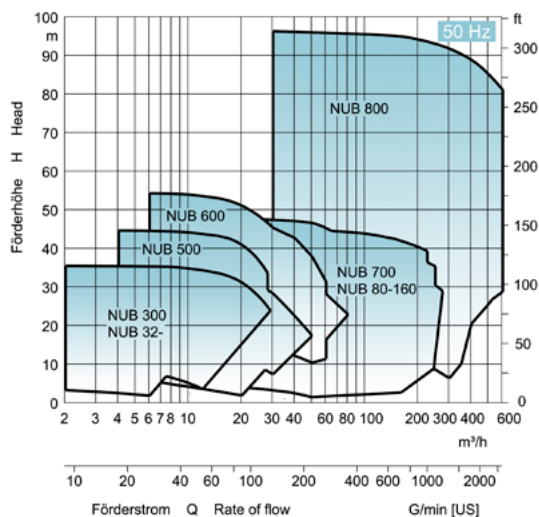
- Axial thrust-free, open or load-relieved, closed impellers
- Compensation of radial forces due to diffuser elements in the ring housing
- Low NPSH values
- Possibility to convey gas-loaded liquids
- Excellent control behavior
- Robustness against certain amounts of solid contents
- Optimized size of pressure nozzle for low pipe friction losses and velocity head difference
- Protection against dry running
- Application in vacuum operation
- Low-pulsation transport of media
- Optional sensor-based operation monitoring
- Low noise emissions
- Various installation positions
- Easy installation



TECHNICAL DATA ▶ NUB

Flow rate	max. 600 m ³ /h
Head	max. 98 m
Operating pressure	max. 16 bar
Temperature	-50 °C to 140 °C
Viscosity	up to 200 mm ² /s

CHARACTERISTIC CURVES ▶ NUB



TYPICAL EDUR APPLICATIONS

Our Centrifugal Pumps for many Applications!

EDUR pumps can be used in a wide range of applications and improve the operation of different industrial processes. Over time, we have gained valuable knowledge about

many applications and have become a reliable partner for our customers by designing our pumps to their individual needs.

ENERGY TECHNOLOGY



- Power to Gas
- Power to Liquid
- Power to Heat
- Alkaline electrolysis
- PEM electrolysis
- Methanisation
- Biodiesel / biogas

LIQUEFIED GAS



- Transport: Loading and unloading vehicles like tankers, bobtail trucks and tank wagons
- Storage in tanks (over- and underground)
- Bottling processes for trading

COOLING TECHNOLOGY



- Chemical industry
- Deep-freeze warehouses, e.g. food processing and -packing, slaughterhouses, dairies, beverage industry, pharma industry and cold storage houses
- Ground freezing systems
- Ice rinks, bob- and toboggan runs as well as ski jumps

INDUSTRIAL CLEANING TECHNOLOGY



- Component cleaning
- Surface treatment
- Box and pallet cleaning
- Bottle cleaning
- Washer for medical devices
- Washer for wafer and microelectronics
- Aerospace component cleaning

WATER AND WASTEWATER TECHNOLOGY



- Water supply and treatment: Drinking water supply, cooling water, filtration and reverse osmosis
- Wastewater treatment: Flotation plants acc. to VDMA specification 24430, lime traps, ventilation of bioreactors, ozonization
- Further applications: Fuel production, ammonia stripping plants, crude oil water separation



EDUR®
Product Information
MADE IN GERMANY
...SINCE 1927

Refrigerants Pumps –
for safe and reliable
handling of cooling agents

EDUR®
Product Information
MADE IN GERMANY
...SINCE 1927

Centrifugal Pumps
for industrial cleaning
processes

Multiphase Pumps –
Innovative conception for
liquid-gas mixtures and
gas enrichment of liquids

For further information,
please check out our
application flyers.

**YOUR APPLICATION IS NOT LISTED?
PLEASE CONTACT US!**

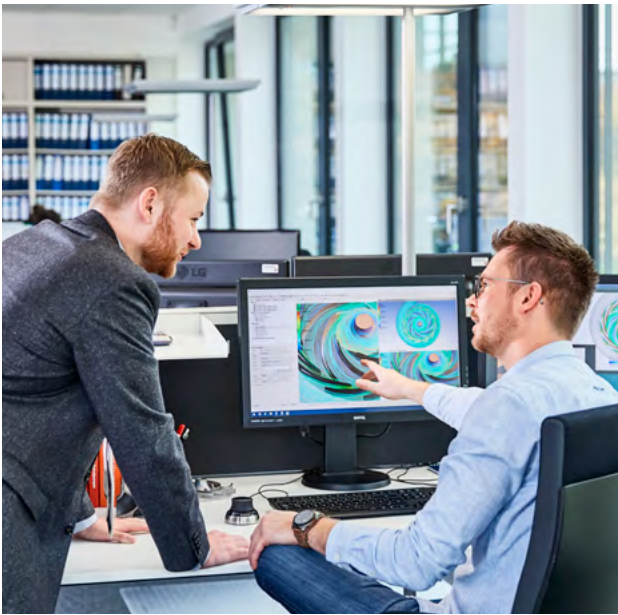
EDUR®
Product information
MADE IN GERMANY
...SINCE 1927

Refrigerants Pumps –
for safe and reliable
handling of cooling agents

Centrifugal Pumps
for the energy
revolution

BEST SOLUTIONS

Professional customization of each centrifugal pump



Each EDUR pump is individually configured and manufactured for its specific application. This is how we ensure reliable and safe plant operation for our customers.

EDUR's sales engineers are available to give advice from the planning stage of the plant. We will support the individual selection and design of each centrifugal pump with our extensive technical and application-specific expertise – whether by phone, by mail or on site.

After an initial analysis, we identify suitable pump types that can be considered for the desired application. Based on the required pumping characteristics and the existing requirements, the pumps can be modified.

We are happy to accommodate individual requests and pumps for special applications. Working closely together with the construction department and our technical support, we develop new pump solutions to enable our customers projects.

EDUR SERVICE

Long-term and reliable operation of EDUR pumps



We ensure a smooth operation of each pump over its entire lifetime, including both efficient pump repairs and the fast delivery of spare parts to minimize downtimes. In accordance with the custom-fit configuration of our pumps, our focus is on quality, speed and application know-how.

In case of a repair, we choose the most cost-effective way to restore the pump according to up-to-date pump standards.

All our standard spare parts are available on short notice. In addition, we supply suitable spare parts for at least 10 years after the sale of a pump.

PROVEN EDUR QUALITY

Quality assurance
at its highest level



The quality of each component of our pumps is of great importance to us. Therefore, each of our components is subjected to a strict quality control.

In addition to test reports, special tests are also available according to customer requirements. Please do not hesitate to contact us!

- Test reports acc. to European Standard EN 10204
- Acceptance tests acc. to DIN EN ISO 9906
- Inspection and approval acc. to classification society specifications
- Special tests acc. to customer requirements

EDUR PARTNER

Global support through
a competent network



Being a global company based in Germany, we are represented in numerous countries worldwide with the help of our joint ventures in China and Malaysia as well as more than 60 partners. This way we can ensure professional advice and excellent service on site.

From the selection of pumps to their installation, maintenance or service, our partners are trained and happy to help.

For more information and specific contacts, visit our website at www.edur.com/worldwide or contact us directly. We will be glad to help you.

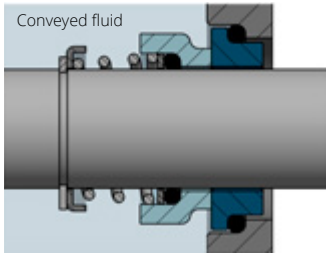
SEALING SYSTEMS AND MATERIALS

The selection of the right sealing system

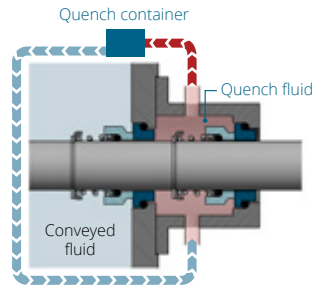
About 95 percent of all pump failures are due to incorrect or faulty shaft sealings. In order to prevent premature failures and to increase the service life, a careful and appropriate seal selection is necessary. The use of mechanical seals is standard practice

today. For leakage-free designs, magnetic couplings are used, if desired with low eddy-current losses. Suitable sensors for early fault detection are used on request.

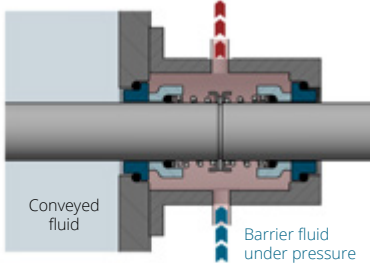
SINGLE-ACTING MECHANICAL SEAL



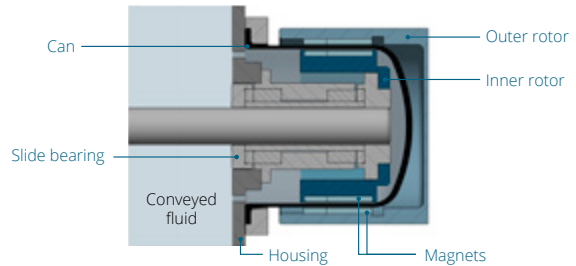
DOUBLE-ACTING MECHANICAL SEAL (TANDEM)



DOUBLE-ACTING MECHANICAL SEAL (BACK TO BACK)



MAGNETIC COUPLING



The right materials for every application!

CASINGS

Grey cast iron	0.6025	EN-GJL-250
Nodular cast iron	0.7040	EN-GJS-400-15
	0.7043	EN-GJS-400-18-LT
Bronze	2.1050.01	G-CUSn 10
Stainless steel	1.4301	X5CrNi18-10
	1.4401	X5CrNiMo17-12-2
	1.4404	X2CrNiMo17-12-2
	1.4581	G-X5CrNiMoNb19-11-2
Duplex	1.4517.01	G-X3CrNiMoN25-6-3

IMPELLERS

Grey cast iron	0.6025	EN-GJL-250
Nodular cast iron	0.7040	EN-GJS-400-15
	0.7050	EN-GJS-500-7
Bronze	2.1052.01	G-CUSn 12
Stainless steel	1.4301	X5CrNi18-10
	1.4401	X5CrNiMo17-12-2
	1.4404	X2CrNiMo17-12-2
Duplex	1.4517	G-X3CrNiMoCuN25-6-3-3

SHAFTS

Stainless steel	1.4057	X22CrNi16-2
Stainless steel	1.4301	X5CrNi18-10
Stainless steel	1.4404	X2CrNiMo17-12-2
Duplex	1.4462	X2CrNiMoN22-5-3
Super Duplex	1.4501	X2CrNiMoCuWN25-7-4

OTHER MATERIALS AND COATINGS ARE AVAILABLE ON REQUEST.

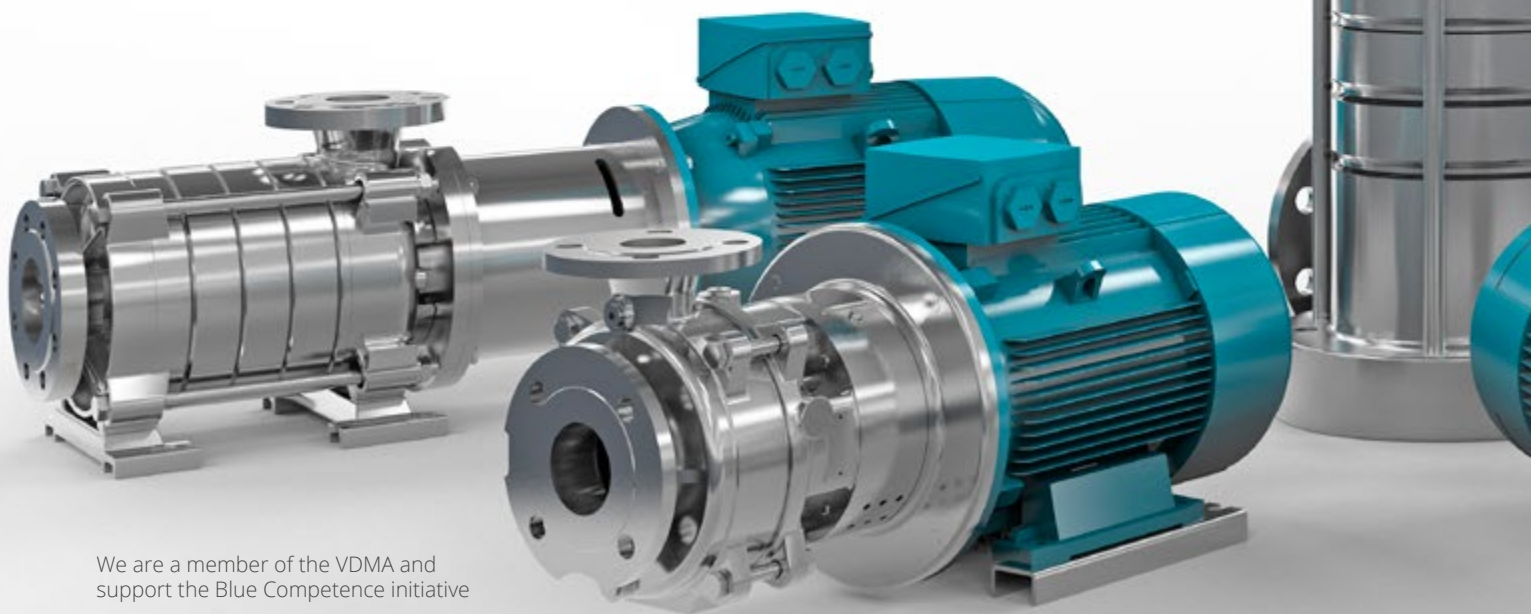
For the selection of suitable sealing systems and materials, we will be happy to advise you!



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D-24145 Kiel

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www.edur.com



We are a member of the VDMA and support the Blue Competence initiative

