

FLUE GAS DESULFURIZATION

The flue gas cleaning in Germany started with the adoption of the

"Großfeuerungsverordnung" - a regulation for open fire - in 1982. From the very beginning DÜCHTING PUMPEN took part in this business and today has one of the largest populations in European power stations. With the development of the material **SIC**cast[®] now almost every FGD pump is built completely in **SIC**cast[®]. Through this unique and innovative technology our products are increasingly favored beyond the borders of Europe.

WATER TREATMENT



DÜCHTING PUMPEN has worked in desalination with high-pressure centrifugal

pumps in reverse osmosis now since the early 90s. While the demand for higher quantities and pressures has risen over the past years DP has kept up with the development and can now offer high-pressure pumps, including energy recovery units. The materials used for these pumps have been proven in numerous applications and the performance data has been adjusted to market demands by means of CFX programs.

MINING

Since the early 50s
DÜCHTING has supplied
pumps to the mining industry,
especially German hard coal mining - at first
only as maintenance and primarily with respect
to underground mining. In the following years
new pumps and wear-resistant centrifugal
pumps for the processing of coal were added.
Today DÜCHTING PUMPEN covers the entire
market for centrifugal pumps in mining including
high-pressure cooling centrifugal pumps.

INDUSTRY / OIL & GAS



The chemical industry profits from the **SIC**cast[®] - material of DÜCHTING PUMPEN.

As far as this field of application is concerned the high chemical resistance of **SIC**cast[®] is of primary importance: its corrosion resistance with respect to acids will even exceed that of Nialloys.

These pumps are entirely metal free in all wetted areas - even the single- or double-acting mechanical seals.



Quality through experience

DÜCHTING PUMPEN is a privately owned German company with more than 77 years of experience in the field of advanced centrifugal pumps for use in many different industries.

Our motto "Quality Through Experience" forms the basis of our sophisticated product range. The capabilities of our company in the construction, manufacturing, testing and commissioning of our products is highly respected in the industries we serve.

Our reputation is based on a sustainable company policy, focusing on efficiency, reliability, innovation and thorough customer after-sales service which is provided by partners in the countries where our products are installed.

In order to meet the current demand for highly efficient and reliable products in seawater desalination, DÜCHTING PUMPEN offers optimized high-pressure pumps and energy recovery turbine units. To minimize total energy costs in high pressure seawater desalination plants, we are at your service during both design and operation.















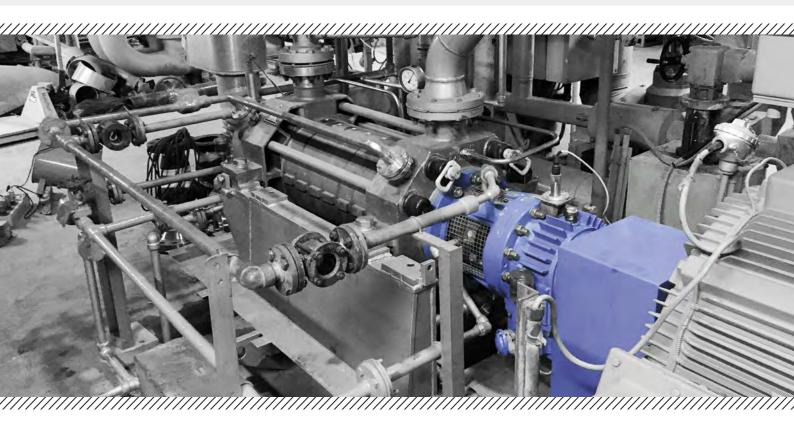
HPE Design

Multistage centrifugal pump in ring-section design.

- Center-line or foot-mounted casings available
- Wear rings in composite material (carbon fiber filled PEEK) for smaller clearances while maintaining the same reliability and best efficiency
- Intermediate discharge flange available
- Available with anti-friction or plain bearings, forced lubrication possible
- Tailormade solutions available:
 - Pump dimensions can be adapted to customer requirements
- Shaft sealing by stuffing box or mechanical seal
- Axial thrust handled by balance disk or piston
- Easy replacement of all wear parts







Fields of Application

Handling of clean or slightly polluted, chemically neutral or aggressive liquids.

- Pressure boosting systems in industrial process
- Water supply or water injection
- Condensate production
- Boiler feed systems
- Hot water applications
- Descaling in steel plants
- Oil & Gas Applications (handling formation water)

Materials

Available in almost any metal from cast iron to SUPER DUPLEX stainless steel.

The materials are carefully selected depending on the application, the pumped liquid and the combinations of materials adapted to the respective conditions of use.

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Technical Data

Pump Size: DN 50 to DN 300

(2" to 12")

max. Pressure: 250 bar (3600 PSI)

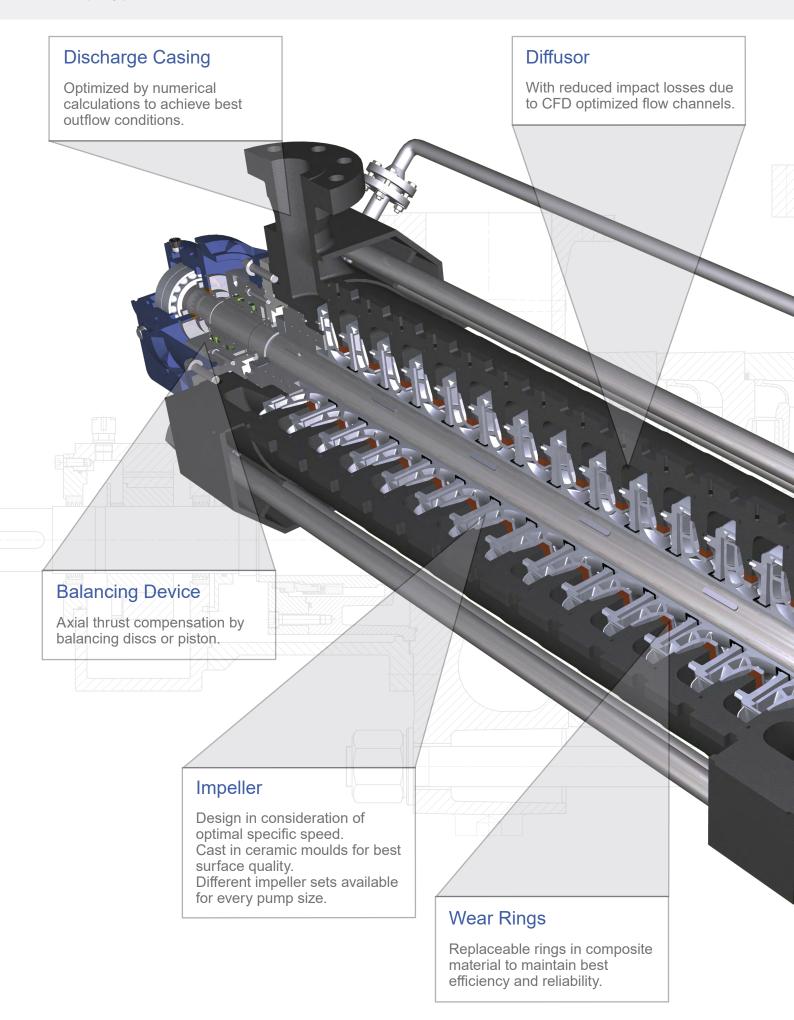
max. Flow: 3500 m³/h

(15400 gpm)

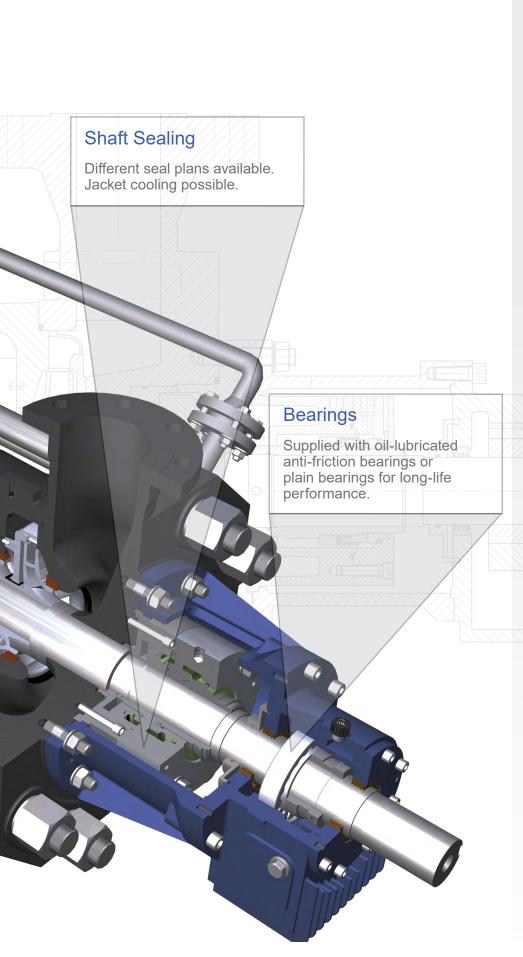
Total head: up to **2200** m (7218 ft)

Rotating Speed: up to 3600 rpm







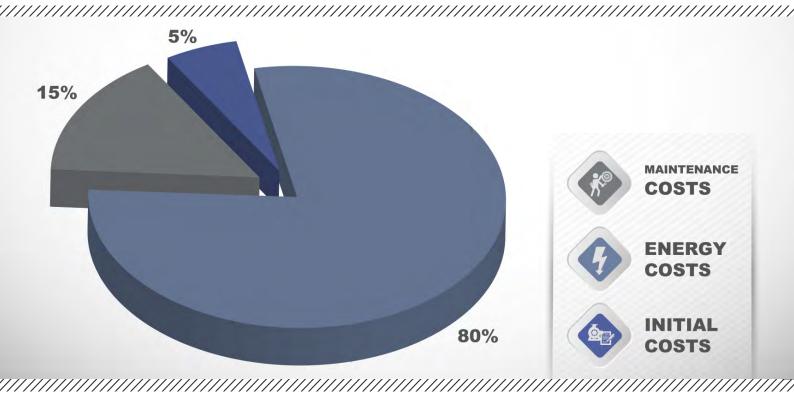












Life-Cycle-Costs

Average life cycle costs for industrial pumps.

Evaluating the Life-Cycle-Costs will identify the most financially attractive alternative. The initial purchase price is a very small part of the life cycle cost for high usage pumps. Minimizing energy consumption and plant downtime have a big influence on the total Life-Cycle-Costs.

Energy costs

DÜCHTING PUMPEN offers a wide range of impeller sets for high efficiencies.

high efficiency leads to low energy costs

Maintenance costs

Robust design leads to long lifetime of the pump parts.

low wear leads to low maintenance work and costs

Easy accessable and changeable wear parts lead to short downtime for overhauls.

 short downtime leads to low maintenance costs







After-Sales-Service & Spare Parts

With its service and spare parts departement DÜCHTING PUMPEN offers the full range of After-Sales-Service.

With its own service technicians and several service partners worldwide DÜCHTING Service is everywhere and always available.

Inhouse - Service

- Maintenance
- rebuild & repair
- damage analysis
- performance tests with vibration analysis
- site staff training
- and much more





Site - Service

- start-ups
- commissioning assistance
- Revisions
- Repairs
- Troubleshooting
- laser alignment
- vibration & condition analysis
- flow rate measuring
- whole pump rebuild and repair
- mechanical seal exchange
- on-site training
- and much more

Please contact us at: +49 23 02 / 969 - 0 or send a message to service@duechting.com

