



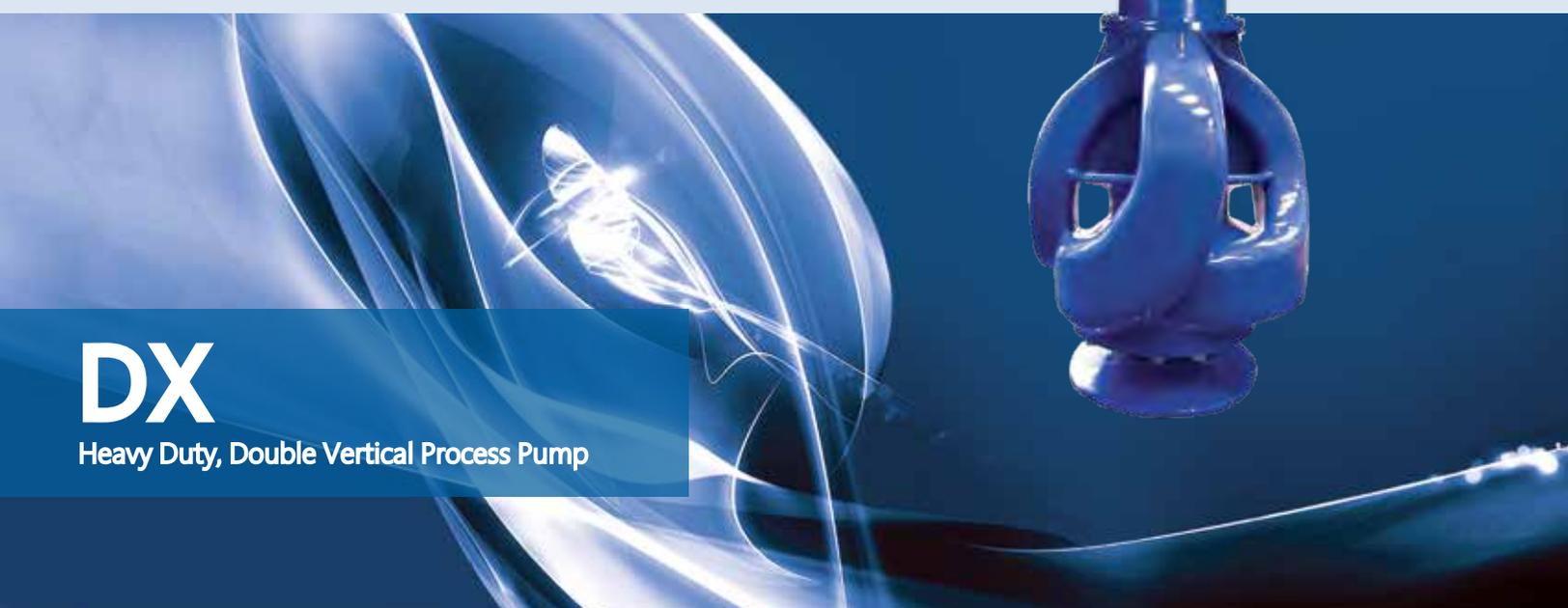
*Specialist for Pumping Technology*

INNOVATION  
EFFICIENCY  
QUALITY



**DX**

Heavy Duty, Double Vertical Process Pump



## For more than 60 years the name Ruhrpumpen™ has been synonymous worldwide with innovation and reliability for pumping technology

Ruhrpumpen is an innovative and efficient centrifugal pump technology company that offers operators of Pump Systems and a wide range of quality products. Ruhrpumpen is committed to global excellence with a complete range of Pumps, Fire Pump Packages and related products, such as Decoking Systems and Tools to support the core markets, namely Oil & Gas, Petrochemical, Power, Heavy Industry Applications, Mining and Water Services.

The broad product line complies with the most demanding quality specifications and goes beyond stringent industry standards such as API, ANSI, Hydraulic Institute, Underwriter's Laboratories, Factory Mutual and ISO 9001.

Ruhrpumpen is a vertically integrated company with its own foundry, machine shop, pump manufacturing plants and service centers. With strategically located manufacturing plants, operating offices and service centers in many parts of the world, Ruhrpumpen is truly a global pump company which also has the strength to focus on the local necessities of each client.

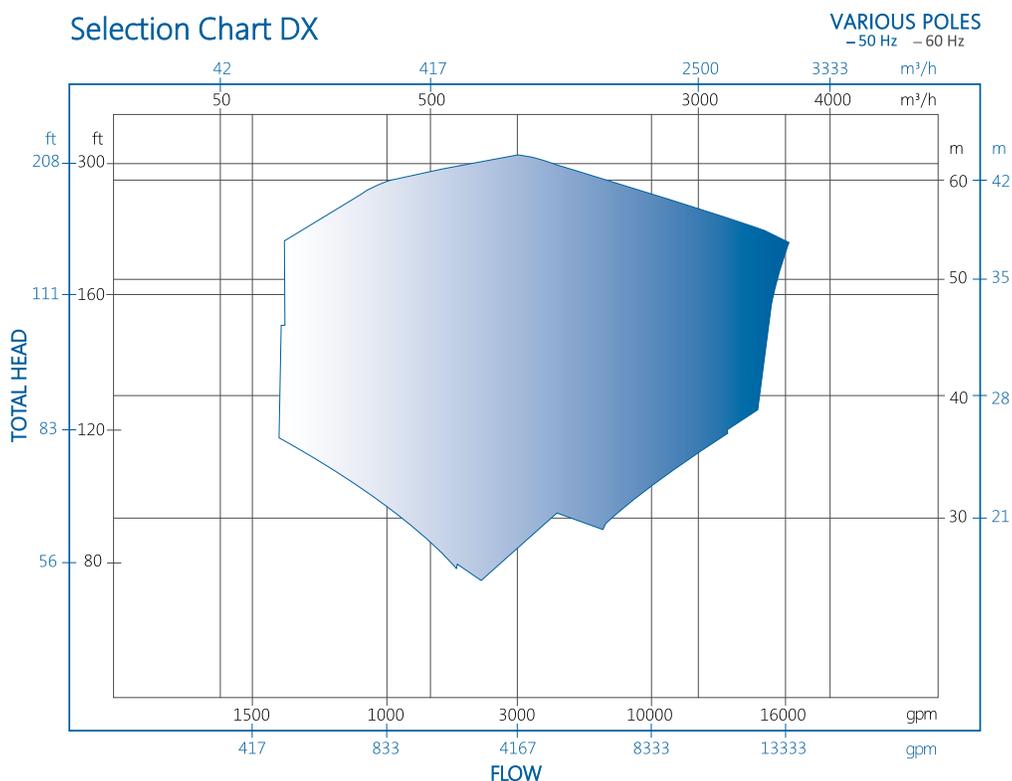
### DX Process Pumps

The Ruhrpumpen Type DX is a heavy-duty, vertical double-suction, twin volute, single-stage, centrifugal design. The single impeller develops the higher heads and capacities without the need for additional stages. DX pump is a very versatile model where can be used as a double suction first stage of any of our VCT models and VMT models.

The DX pump has good NPSH characteristics and is ideal for open sumps, channels, lakes and rivers. Without the restriction of narrowest possible diameter as for well pumps, the twin volute has larger waterways and low liquid velocities, which also reduces abrasive wear and minimizes corrosion and erosion effects.

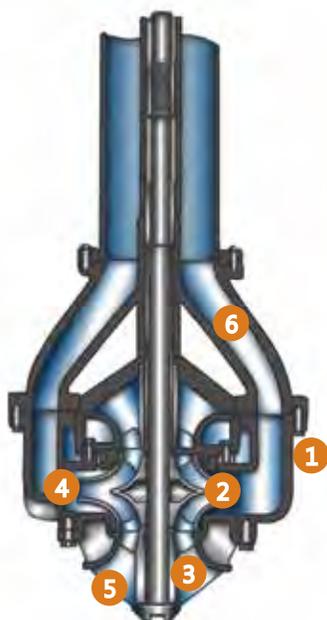
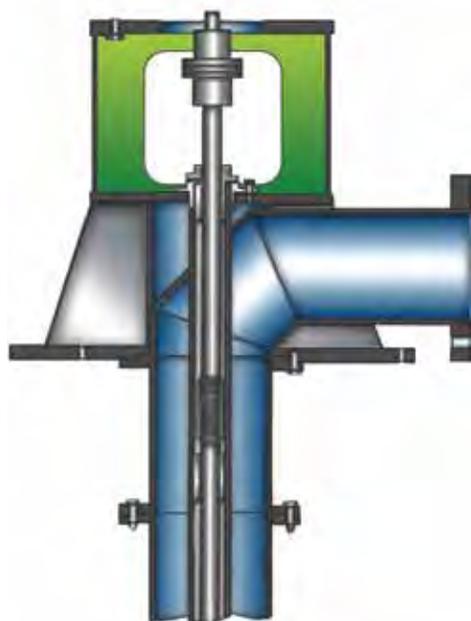
Qualified specialists in all departments ensure the pumps and equipment from our facilities are able to operate under the most severe conditions. Intensive research and development ensures the products of Ruhrpumpen are continuously improved to meet the latest technical requirements.

### Performance Range



### Characteristics

- 1 VOLUTE CASE.**  
The twin volute case is designed to efficiently convert to pressure the velocity added to the liquid by the impeller. The volute case directs the liquid from the impeller into the transition diffuser with a minimum of hydraulic losses.
- 2 IMPELLER.**  
The impeller is an enclosed double-suction centrifugal type which is keyed to the shaft and held in position by corrosion resistant retaining rings. The retaining rings are protected from abrasion by collars that turn with the impeller. The impeller is hydraulically and dynamically balanced to provide smooth operation. When specified, optional renewable impeller wear rings may be provided on both the upper and lower skirts to the impeller or they may be added later to renew the clearances.



- 3 SUCTION BELL.**  
The upper and lower flared suction bell directs the liquid into the impeller. It contains four guide vanes to prevent vortexing and provides the housing for the suction bell bearings.
- 4 CASING WEAR RINGS.**  
Are provided in the suction bell on both sides of the impeller. The wear rings are closely fitted to minimize the return of liquid from the discharge side of the impeller past the skirt to the suction side due to the pressure differential. The rate of wear depends on the character of the liquid pumped and the materials of construction. Hardened stainless steel wear rings are often used for severe service.
- 5 BELL BEARINGS.**  
Are located in the suction bells immediately adjacent to either side of the impeller. The bell bearings are a sleeve-type and grooved to receive proper lubrication and closely fitted to maintain alignment.
- 6 TRANSITION DIFFUSER.**  
The transition diffuser provides a smooth hydraulic flow from the volute to the column pipe. The transition diffuser contains the connector bearing that couples to the bottom section of the shaft tube flanged connections with registered fits are provided for bolting the column pipe.

### Description

#### PRODUCT DESCRIPTION

- Vertical space saving construction.
- Above or below base discharge.
- Oil lubricated column, or it may be forced lubricated by the pumped liquid.
- Packed stuffing box or mechanical seal.
- Optional renewable impeller wear rings may be provided.

#### BROAD APPLICATION RANGE

- Cooling towers and other applications requiring large volumes of liquid with relative high head.
- Raw water intake.

#### PERFORMANCE DATA

Capacity	up to 3630 m <sup>3</sup> /h	16,000 U.S gpm
Head	up to 82 m	270 ft
Max. Pressure	up to 14 bar	to 200 psi
Temperature	-28 to 135 °C	-20 to 275 °F

Note: For pump operations outside this range, please contact a Ruhrpumpen representative.



## RUHRPUMPEN PLANTS

-  USA, Tulsa & Orland
-  MEXICO, Monterrey
-  BRAZIL, Rio De Janeiro
-  ARGENTINA, Buenos Aires
-  GERMANY, Witten
-  EGYPT, Suez
-  INDIA, Chennai
-  CHINA, Changzhou

More Information:

