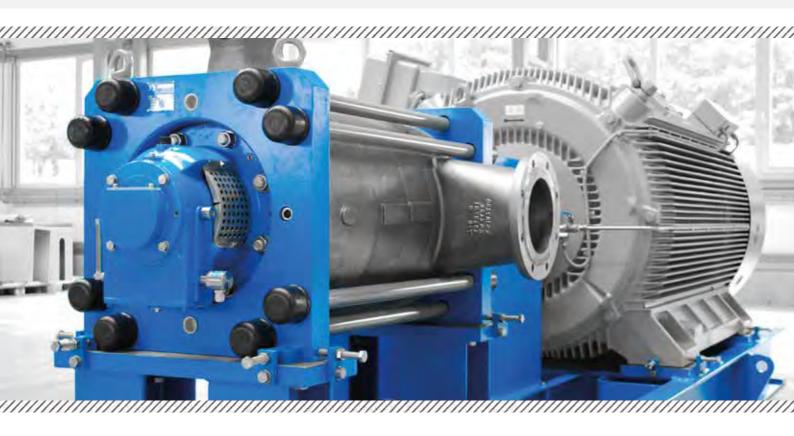


## **HPH** Design

- Pump inlet: axial or radial with flanges positioned at 90° increments
- Discharge flange: radial positioned at 90° increments
- Replaceable rings in composite material to maintain best efficiency and reliability
- Shaft sealing by stuffing box or mechanical seal
- Axial thrust compensation by balancing discs, piston or combination of both
- Easy replacement of all wearing parts
- Tailormade solutions available:
  - ► Pump dimensions can be adapted to customer requirements
- Impellers are fixed by fitting key (e.g. backflushing) possible
- Replaceable Impeller wear rings available
- Pump with one or two connective shaft ends
- Impellers and diffusors are cast by using ceramic moulds to get highest surface quality for outstanding hydraulic performance







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

- Pressure boosting systems in industrial process
- Water supply, and water treatment
- Seawater desalination
- Condensate production
- Boiler feed systems
- Hot water applications
- Petrochemical applications
- Water Injection

### **Materials**

Carefully selected depending on the application and adapted to the respective conditions.

DÜCHTING PUMPEN offers improved corrosion resistant materials like SUPER DUPLEX stainless steel with Pitting Resistance Equivalent numbers above 40.

### **Technical Data**

Pump Size: DN 80 to DN 300

(3" to 12")

max. Pressure: 100 bar

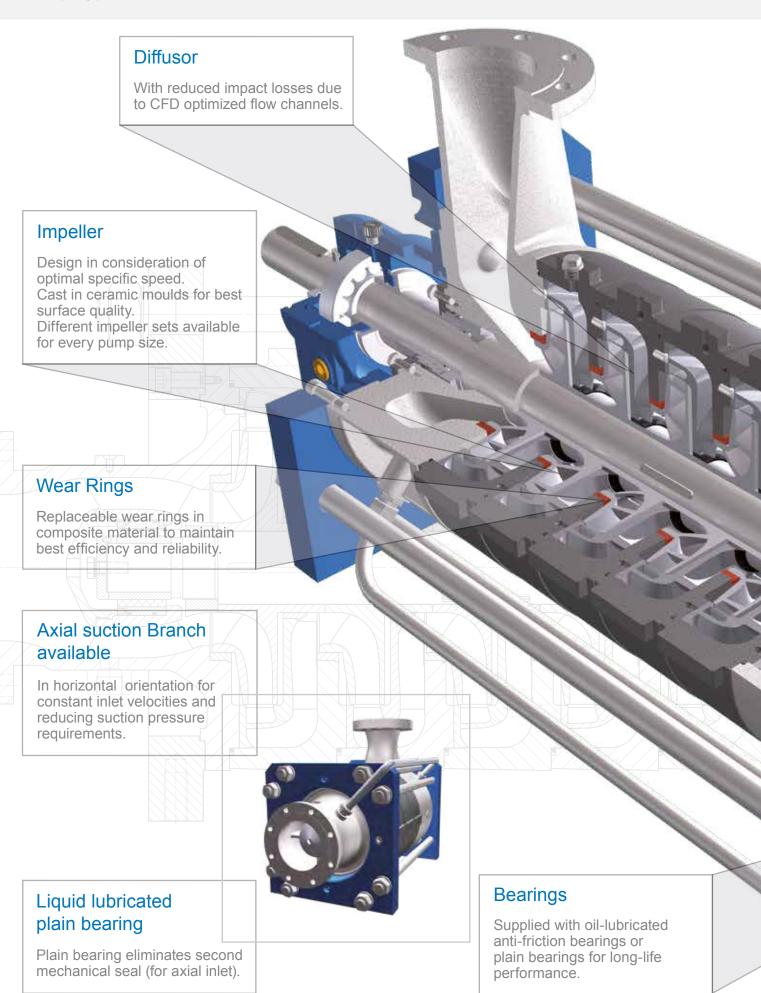
(1450 PSI)

max. Flow: 3500 m<sup>3</sup>/h

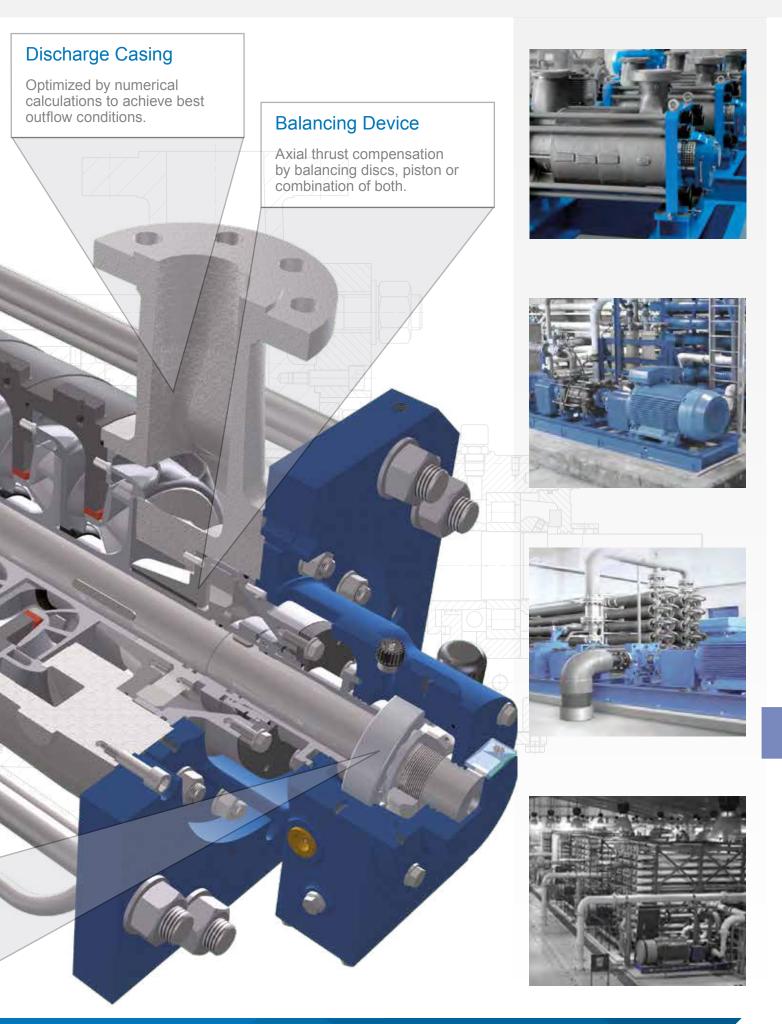
(15400 gpm)

**Total head:** up to 1100 m (3600 ft)

















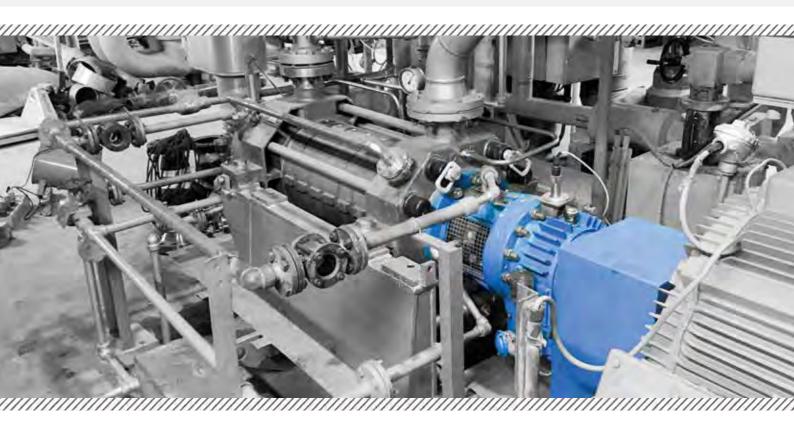


## **HPE** Design

- 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







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.



### **Technical Data**

Pump Size: DN 50 to DN 300

(2" to 12")

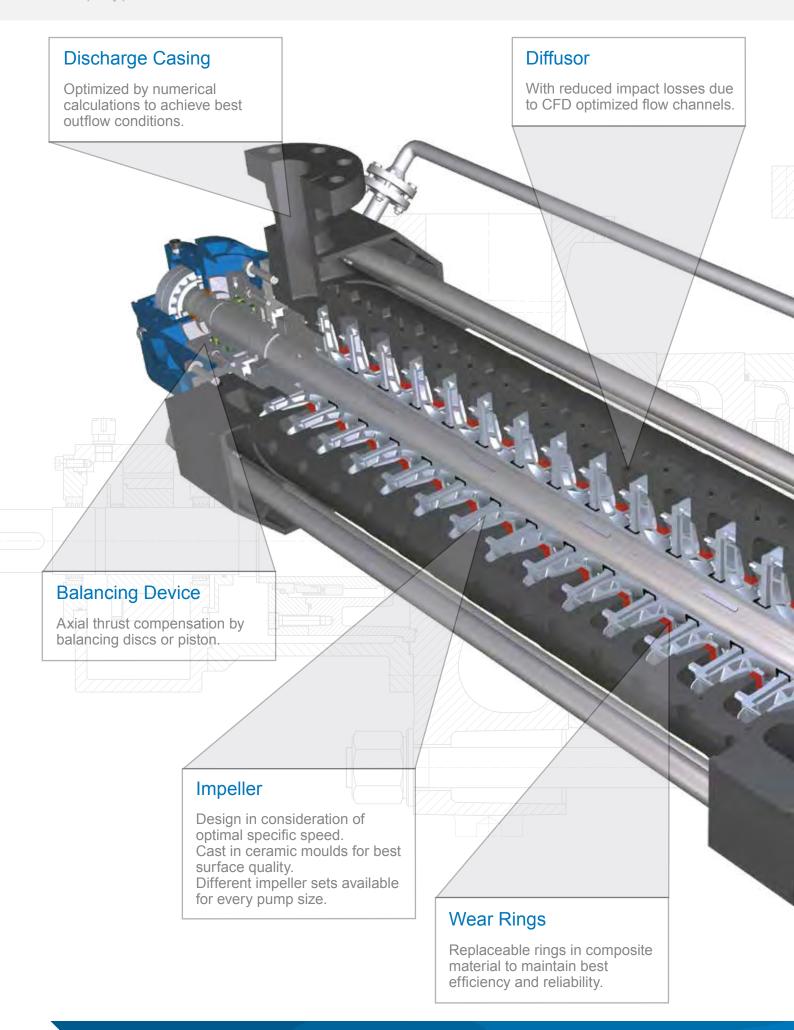
max. Pressure: 250 bar (3600 PSI)

max. Flow: 3500 m<sup>3</sup>/h

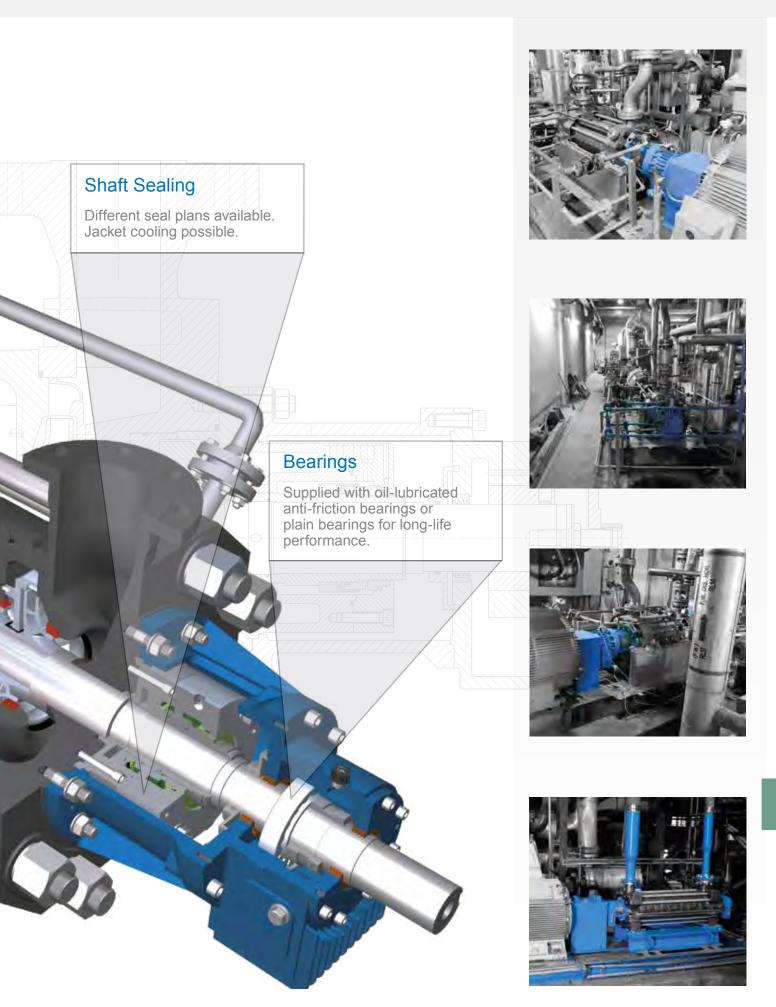
(15400 gpm)

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



















## **HPXL** Design

- Flanges positioned at 90 ° increments
- Shaft sealing by stuffing box or mechanical seal
- Axial thrust compensation by individually balanced impellers
- Designed for 4-pole speed
- Reduced life-cycle costs
- Grease or oil-lubrication anti-friction bearings available
- Tailormade solutions available:
  - ► Pump dimensions can be adapted to customer requirements
  - ► Single or double inlet suction casing available
  - Discharge flanges available or intermediate stage casings
  - ▶ Drive from one or both shaft ends possible
- Closed impellers with spatially curved vanes
- Impeller fixed with fitting key





Handling of contaminated, chemically neutral or aggressive liquids with up to 10% solids.

- Main water drainage in mining
- In addition to drainage and mine weather cooling in mining
- Pressure boosting systems in industrial processes
- Water supply and water treatment plants
- Condensate production
- Mineral industry
- Oil & Gas Applications

### **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.

#### **Technical Data**

Pump Size: DN 32 to DN 300

(1 1/4" to 12")

max. Pressure: 40 bar (580 PSI)

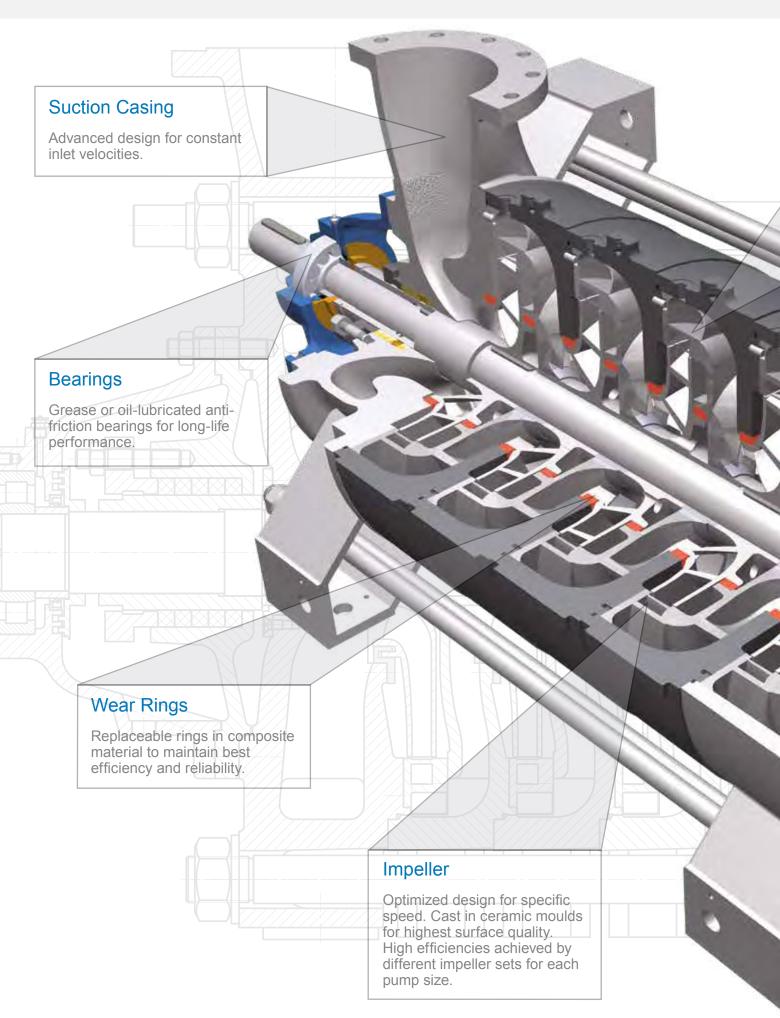
max. Flow: 2500 m<sup>3</sup>/h

(11000 gpm)

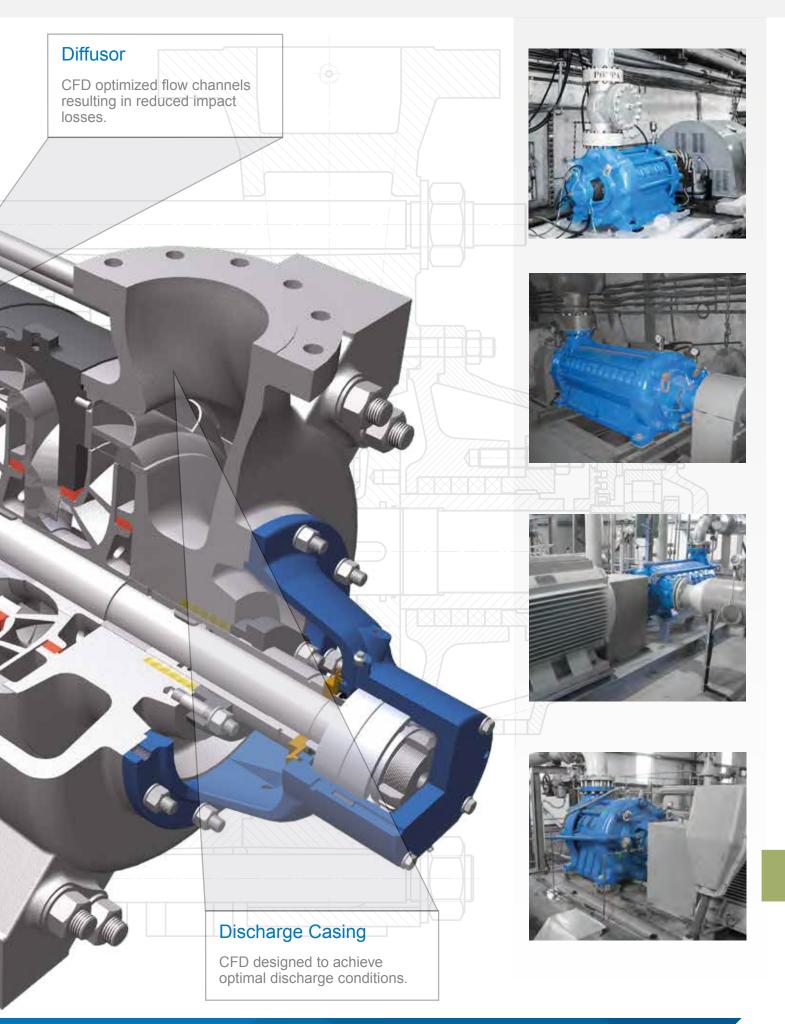
Total head: up to 400 m (1300 ft)









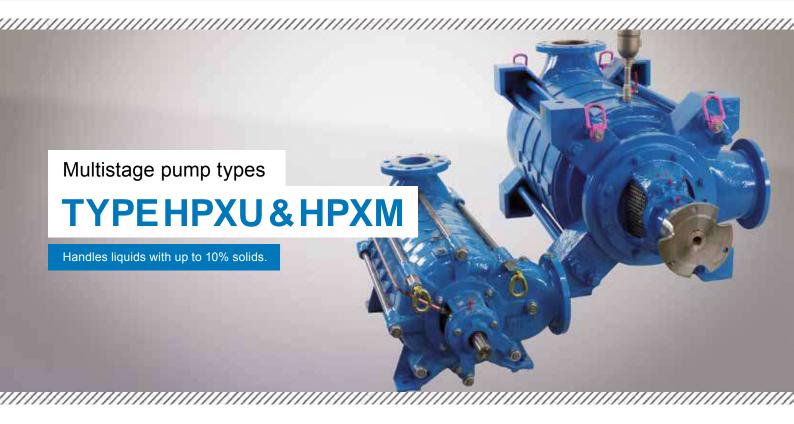












## **HPXU & HPXM** Design

- Flanges positioned at 90° increments
- Shaft sealing by stuffing box or mechanical seal
- Axial thrust compensation by balancing device with optical or digital wear indicator for optimized maintenance control
- Designed for 4-pole speed
- Reduced life-cycle costs
- Grease or oil lubrication anti-friction bearings available
- Tailormade solutions available:
  - Pump dimensions can be adapted to customer requirements
  - ► Single or double inlet suction casing available
  - Discharge flanges available on intermediate stage casings
  - ▶ Drive from one or both shaft ends possible
- Closed impeller with spatially curved vanes
- Impeller fixed with fitting key





Handling of contaminated, chemically neutral or aggressive liquids with up to 10% solids.

- Main water drainage in mining
- Drainage and mine weather cooling in mining
- Pressure boosting systems in industrial processes
- Water supply and water treatment plants
- Condensate production
- Mineral industry
- 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.



#### **Technical Data**

Pump Size: DN 40 to DN 400

(1 1/2" to 16")

**max. Pressure: 160 bar** (2300 PSI)

max. Flow: 3250 m<sup>3</sup>/h

(15000 gpm)

**Total head:** up to 1200 m (3940 ft)



