

# HGD – Horizontal, multistage high-pressure ring-section pump

Industry

Water

Waste Water

Energy

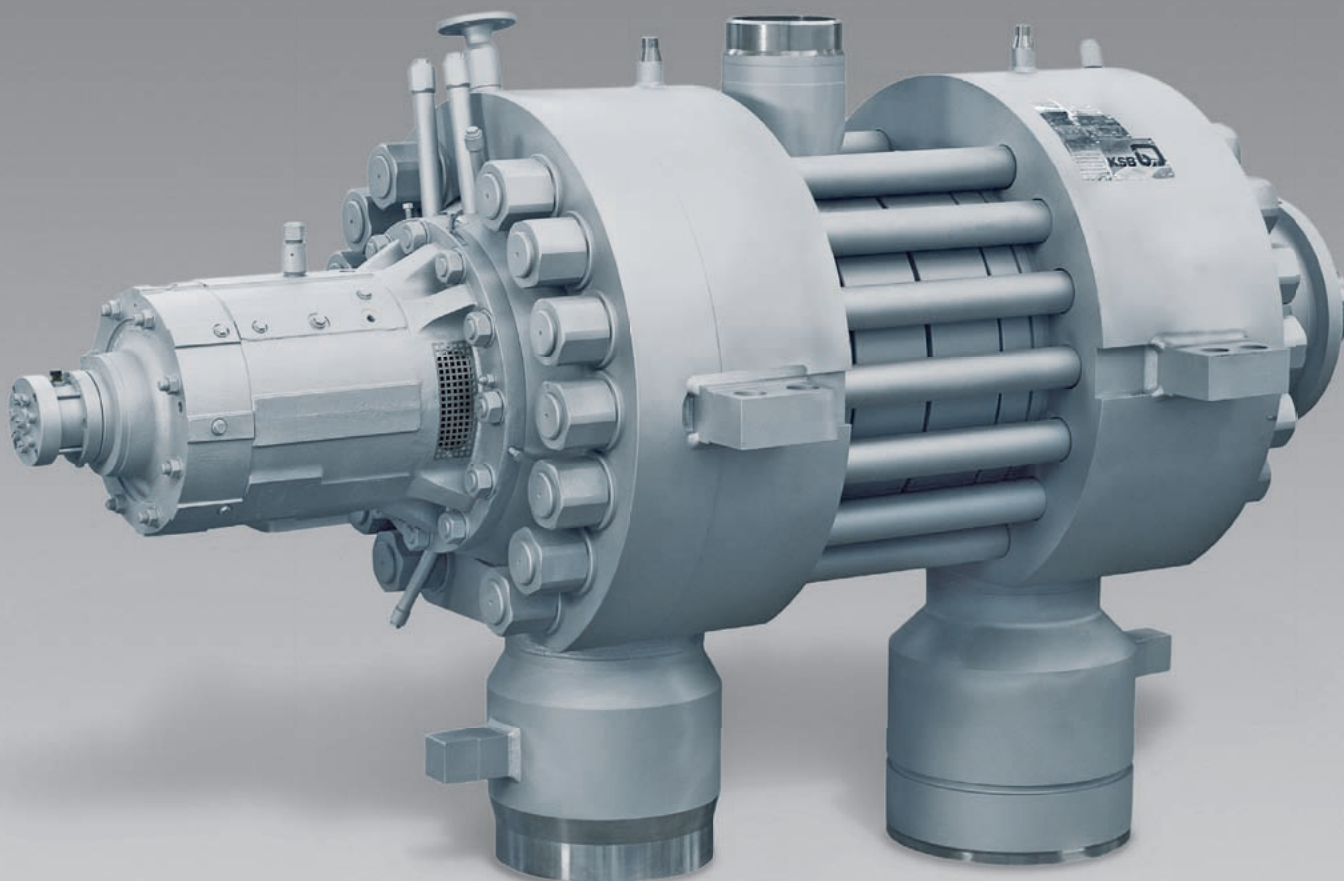
Building Services

Mining

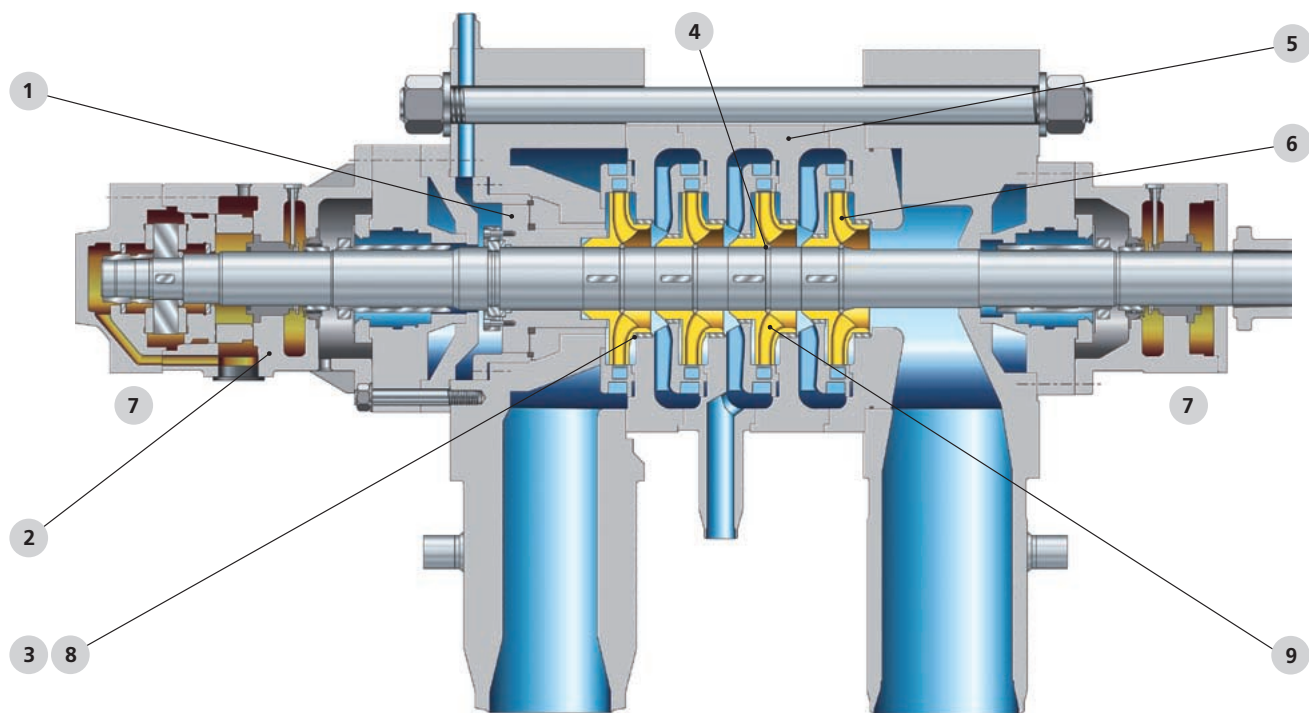
## Applications:

- Handling of boiler feed water in utility power plants

Further information: [www.ksb.com/products](http://www.ksb.com/products)



# HGD – Horizontal, multistage high-pressure ring-section pump



## High operating reliability

- 1 Optimum balancing of axial thrust by double drum over a wide operating range
- 2 Closed, non-split bearing housings with high stiffness and excellent vibration behaviour
- 3 Cellular surface wear rings with excellent anti-seizure properties
- 4 Staggered shaft diameters with individual fastening of impellers ensure clear introduction of axial thrust into the shaft
- 5 Adaptation of pump casing to rotor deflection line
- 6 Vanes of suction stage impellers specially profiled for particular applications by means of computer-assisted electric-discharge machining

## Ease of service

- 7 Wear parts (bearings, seal elements, balancing device) accessible for maintenance without opening the pump

## Reduced energy costs

- 8 Efficiency improvement through cellular surface wear rings
- 9 More than 100 impeller/diffuser combinations with optimum efficiencies possible

### Materials

Suction casing	Carbon steel
Discharge casing	Chromium steel
Stage casing	Chromium steel
Impeller/diffuser	Chromium steel
Shaft	Chromium steel

### Technical data

Capacity	2,500 m <sup>3</sup> /h
Head	4,500 m
Pumped medium temperature	+210 °C
Pump pressure	450 bar
Speed	6,100 min <sup>-1</sup>