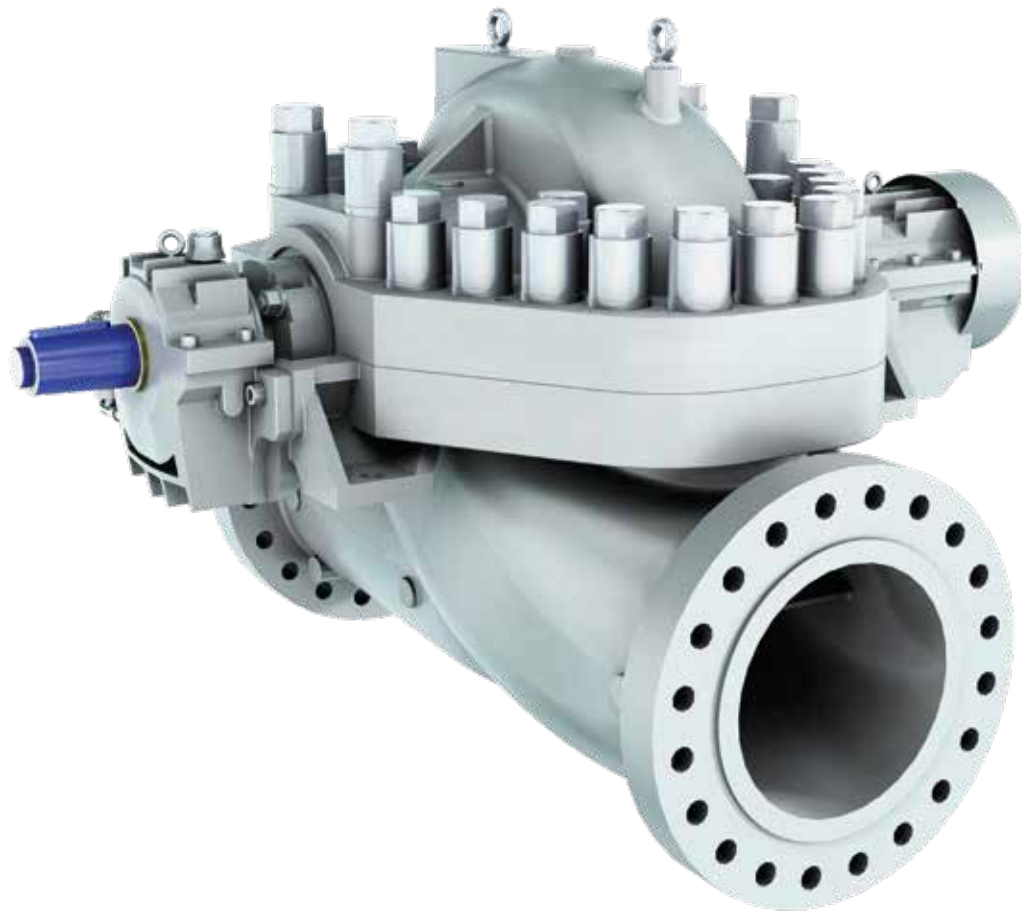
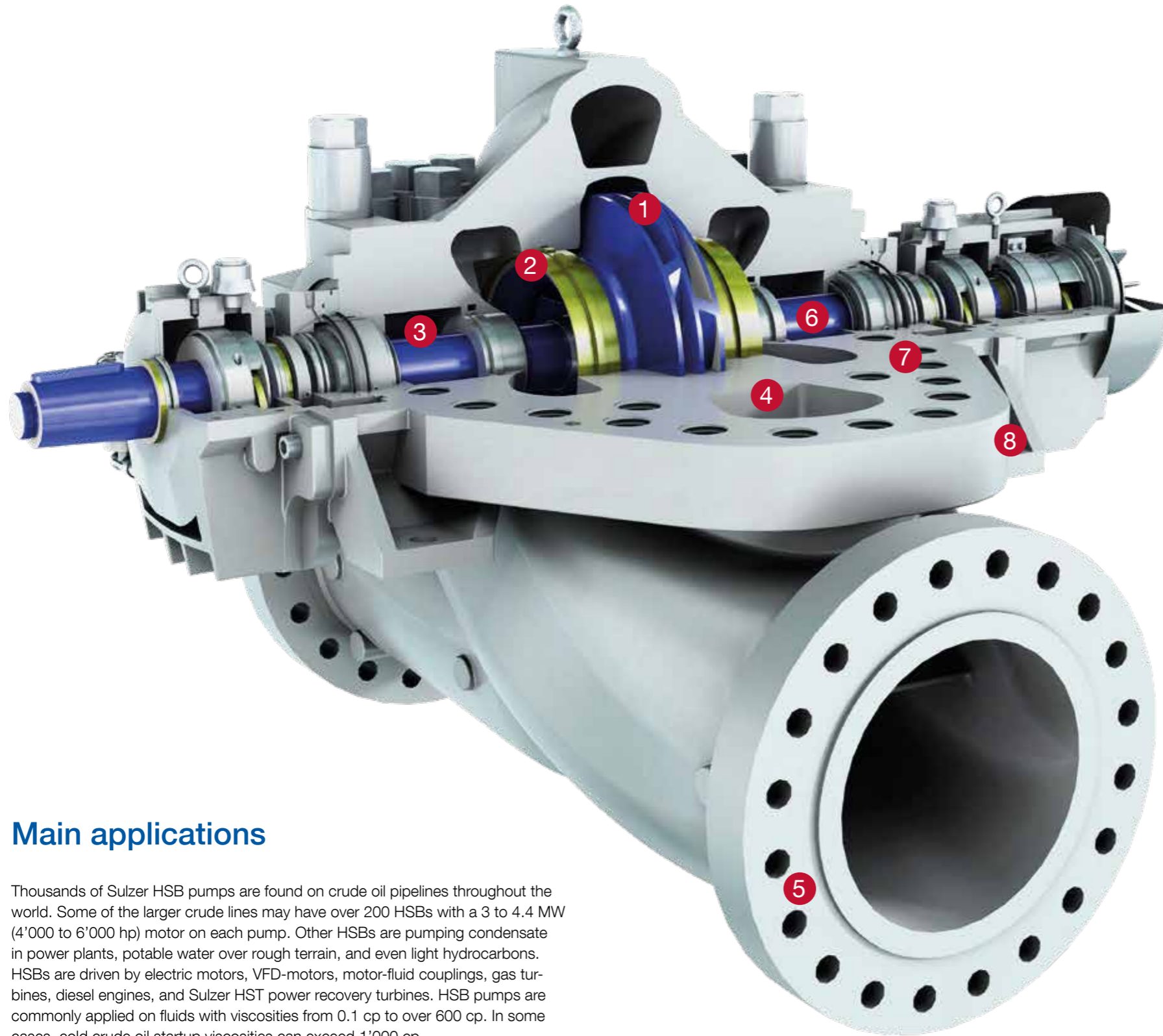


**HSB 轴向剖分单级双吸泵**  
**HSB horizontal axially split single stage**  
**double suction pump**



## 主要应用

数千计的苏尔寿 HSB 泵被用在世界各地的原油管线上。在一些大型原油管线上,有超过 200 台 HSB 泵分别配备了 3~ 4.4MW 的电机。其它一些 HSB 泵用于输送电厂的冷凝液、地形崎岖地区的饮用水,甚至轻烃。HSB 泵可以由电机、变频电机、液力耦合器、汽轮机、柴油机,以及苏尔寿 HST 透平机等驱动。HSB 泵通常可以应用于粘度值在 0.1cp 至 600cp 范围的液体,有时冷态原油的启动粘度值可以超过 1000cp。



## Main applications

Thousands of Sulzer HSB pumps are found on crude oil pipelines throughout the world. Some of the larger crude lines may have over 200 HSBs with a 3 to 4.4 MW (4'000 to 6'000 hp) motor on each pump. Other HSBs are pumping condensate in power plants, potable water over rough terrain, and even light hydrocarbons. HSBs are driven by electric motors, VFD-motors, motor-fluid couplings, gas turbines, diesel engines, and Sulzer HST power recovery turbines. HSB pumps are commonly applied on fluids with viscosities from 0.1 cp to over 600 cp. In some cases, cold crude oil startup viscosities can exceed 1'000 cp.

## 特征及优点

- 1 动平衡的双吸叶轮**
  - 运转平稳
  - 长轴承寿命
- 2 可更换的壳体口环和叶轮口环**
  - 简单、低成本的有效更新
- 3 整体式机封腔体, 在泵入口压力下运转; 适用于各种形式的机械密封**
  - 最小的泄漏
- 4 双蜗壳壳体**
  - 最小的轴变形量
- 5 水平方向的进出口法兰与下壳体整体式**
  - 2倍API610管口载荷
- 6 大轴径, 较小的支撑轴承间距**
  - 大功率范围
  - 改进的机械密封寿命
- 7 轴向剖分壳体**
  - 易于拆卸, 便于检查及维护
- 8 近中心线支撑**
  - 使温差产生的偏离最小

## Features and benefits

- 1 Dynamically balanced double suction impeller**
  - Smooth running
  - Longer bearing life
- 2 Replaceable case and impeller rings**
  - Simple, low cost efficiency renewal
- 3 Integral seal chamber, operating at suction pressure; designed for mechanical seals of all configurations**
  - Minimizes emissions and leakage
- 4 Double volute casing**
  - Minimizes shaft deflection
- 5 Horizontal suction and discharge nozzles cast integral with bottom half of the casing**
  - Two times API 610 nozzle load capacity
- 6 Large shaft diameter with minimum bearing span**
  - More power capacity
  - Improved mechanical seal life
- 7 Axial split casing**
  - Ease of disassembly for inspection and maintenance
- 8 Near centerline mounting**
  - Minimizes misalignment with temperature changes

# HSB 轴向剖分单级双吸泵 / HSB horizontal axially split single stage double suction pump



Oil and gas  
石油及天然气



Hydrocarbon processing  
石油化工



Power generation  
电力



Pulp, paper and board  
浆、纸和纸板



General industry  
通用工业



Chemical process industry  
化工流程工业

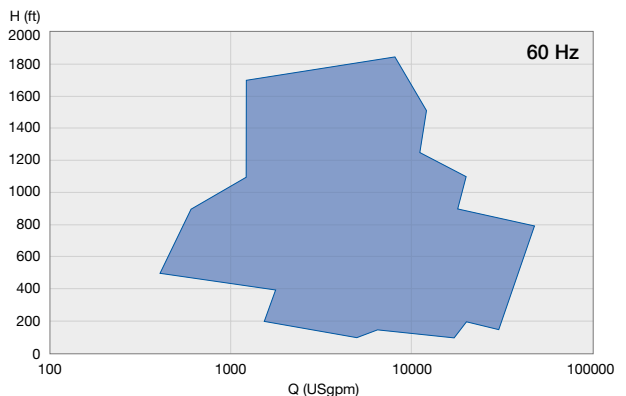
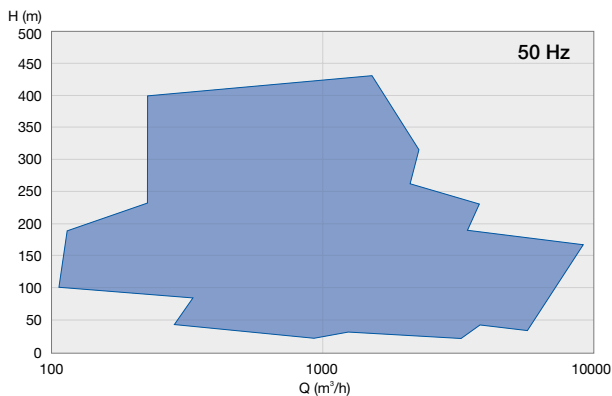


Water and wastewater  
水和污水

## 运行数据 / Operating data

50 Hz	泵规格 / Pump sizes	60 Hz
6x8x13 至/to 30x30x28.5		6x8x13 至/to 30x30x28.5
达/up to 10'000 m <sup>3</sup> /h	流量 / Capacities	达/up to 45'000 USgpm
达/up to 400 m	扬程 / Heads	达/up to 1'800 feet
150 bar	压力 / Pressures	2'200 psi
达/up to 205 °C	温度 / Temperatures	达/up to 400 °F
达/up to 5'000 rpm	转速 / Speeds	达/up to 5'000 rpm

## 性能范围 / Performance ranges



## 材料 / Materials

材料等级 / Material classes	材料 / Material
API 610	S-4, S-5, S-6, C-6, A-8, D-1, D-2

## We do what we say / 我们言行一致



Operational  
excellence  
卓越运营

We continuously strive to  
be faster and better.  
我们持续努力更快更好



Customer  
partnership  
与客户的合作伙  
伴关系

Together, we win.  
合作共赢



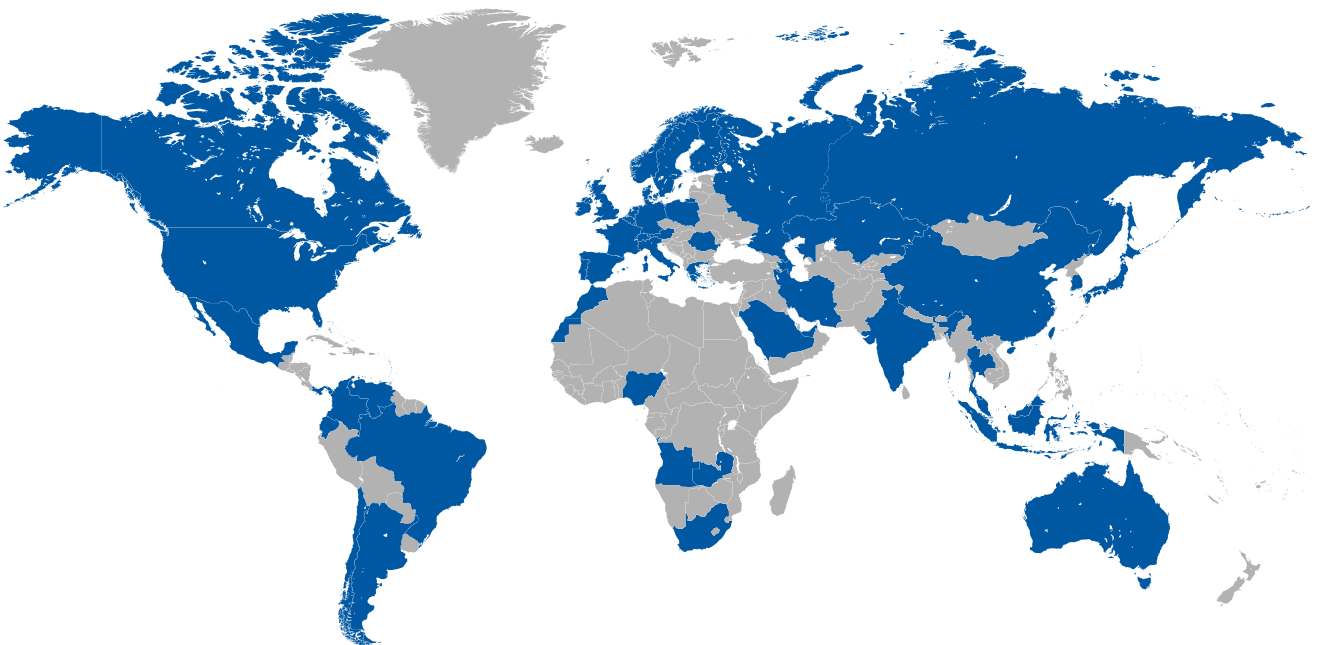
Committed  
people  
尽职的员工

We build on the strengths  
and diversity of our people.  
我们依靠员工及多元化

## A global specialist at your doorstep 一个您身边的全球专家

Sulzer serves clients worldwide through a network of over 150 production and service sites and has a strong footprint in emerging markets.

苏尔寿通过网络，利用 150 个生产及服务基地，给全球客户提供服务，并在市场中留下了深刻的足迹。





[www.sulzer.com](http://www.sulzer.com)

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