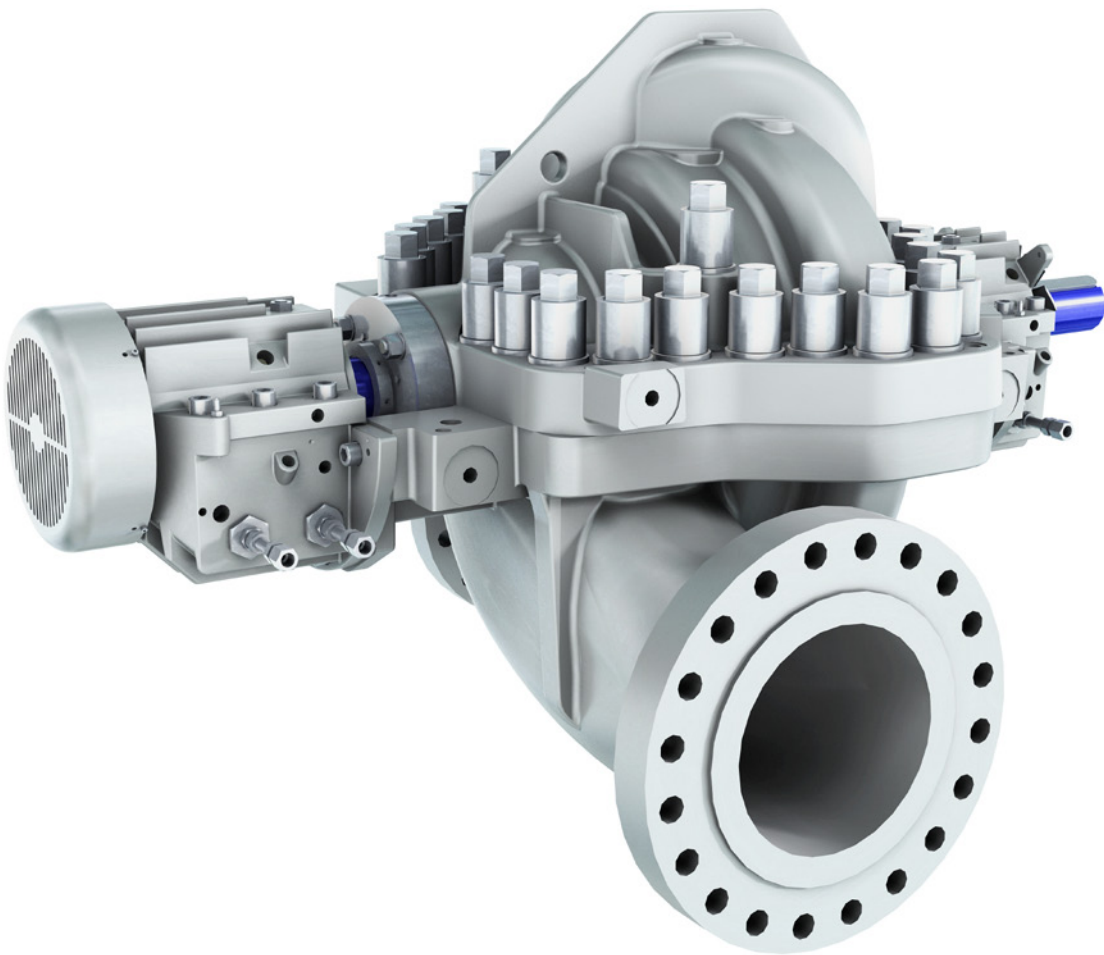


**MSD-RO轴向剖分多级泵**  
**MSD-RO Axially Split Multistage Pump**



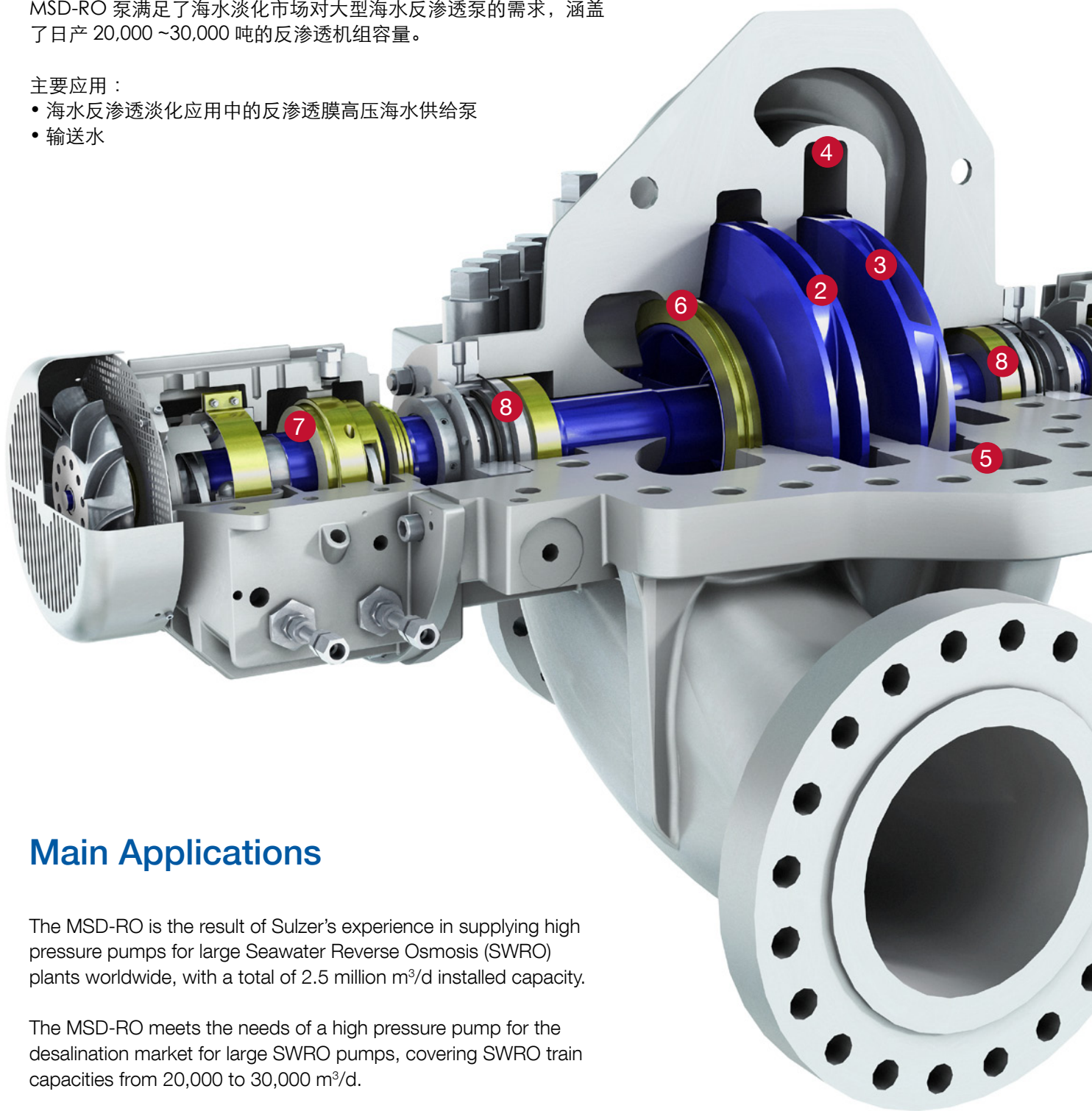
## 主要应用

MSD-RO 泵源自苏尔寿向世界范围内大型海水反渗透淡化工厂提供高压泵的应用经验，装机容量达到了日产 250 万吨。

MSD-RO 泵满足了海水淡化市场对大型海水反渗透泵的需求，涵盖了日产 20,000 ~30,000 吨的反渗透机组容量。

主要应用：

- 海水反渗透淡化应用中的反渗透膜高压海水供给泵
- 输送水



## Main Applications


The MSD-RO is the result of Sulzer's experience in supplying high pressure pumps for large Seawater Reverse Osmosis (SWRO) plants worldwide, with a total of 2.5 million m<sup>3</sup>/d installed capacity.

The MSD-RO meets the needs of a high pressure pump for the desalination market for large SWRO pumps, covering SWRO train capacities from 20,000 to 30,000 m<sup>3</sup>/d.

Main applications:

- High pressure membrane feed pump in SWRO applications
- Water transport

## 特征及优点

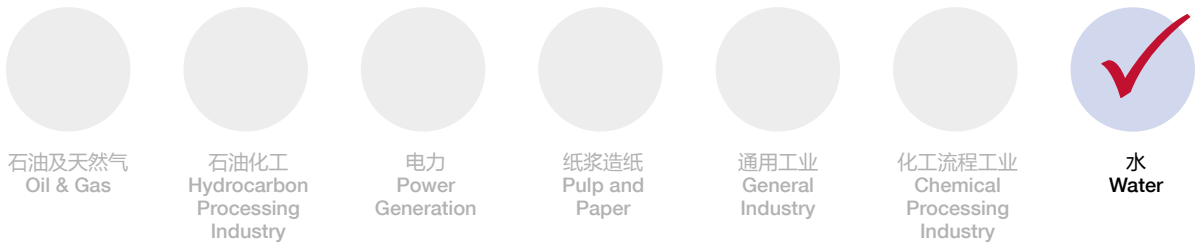
- 
- 1 轴向剖分泵体设计**
    - 维修方便：在进出口法兰不需要移动的情况下，拆卸上泵体
  - 2 两级、单吸叶轮**
    - 紧凑设计，达到最优效率
  - 3 特殊的对称、动平衡叶轮设计**
    - 理想的轴向力平衡，避免使用平衡管所引起的回流，从而提高泵的整体效率
  - 4 特殊的过流设计**
    - 减少内部压力损失使泵的效率最大化，采用较小的轴承跨距
  - 5 双蜗壳结构**
    - 径向力平衡
  - 6 采用PEEK或者蜂窝夹层复合材料来降低耐磨部件间隙**
    - 提高泵效率
  - 7 滑动轴承和双列角接触推力轴承为标准设计**
    - 强制润滑滑动轴承和推力瓦轴承为可选设计
  - 8 单端面平衡型集装式机械密封**
    - API682标准机械密封为可选

## Features and Benefits

- 1 Axial split casing design**
  - Maintenance easiness: disassembling top casing without removing suction and discharge flanges is possible
- 2 Two stages, single suction impeller**
  - Compact design and top of its class efficiency
- 3 Special opposed, dynamically balanced impellers design**
  - Ideal axial thrust balance, increasing the overall pump efficiency by avoiding a balancing line that causes flow recirculation
- 4 Specific cross-over design**
  - Reduces internal pressure losses maximizing efficiency and allows shorter bearing span
- 5 Double volute construction**
  - Radial thrust balance
- 6 Reduced wear parts clearances by using PEEK or honeycomb**
  - To increase pump efficiency
- 7 Sleeve journal and duplex angular contact thrust bearing as standard**
  - Sleeve journal and pivot shoe thrust bearing with force oil lubrication system is available when required
- 8 Single, balanced, cartridge mechanical seal**
  - Option for API 682 mechanical seal is available

# MSD-RO轴向剖分多级泵

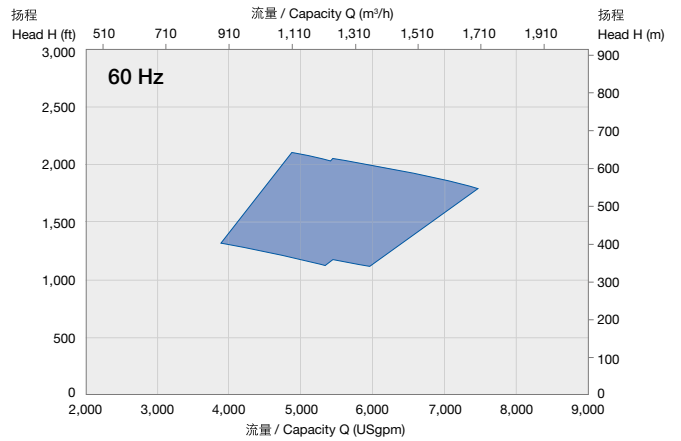
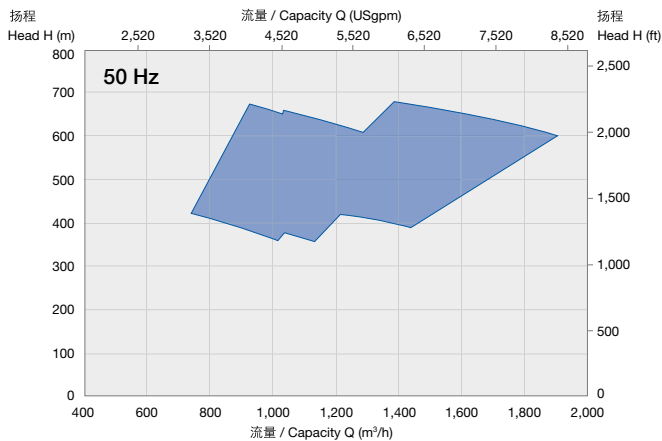
## MSD-RO Axially Split Multistage Pump



### 运行数据 / Operating Data

50 Hz	泵规格 / Pump sizes	60 Hz
200 到 / to 300 mm		8 到 / to 12 inches
1,000 到 / to 1,600 m <sup>3</sup> /h	流量 / Capacities	4,400 到 / to 7,000 USgpm
达 / up to 650 m	扬程 / Heads	达 / up to 2,150 feet
达 / up to 90 bar	压力 / Pressures	达 / up to 1,305 psi
达 / up to 60°C	温度 / Temperatures	达 / up to 140°F

### 性能范围 / Performance Ranges



### 材料 / Materials

泵部件 / Pump part	材料 / Material
泵体 / Casing	超级双相钢 / Superduplex
叶轮 / Impeller	超级双相钢 / Superduplex
耐磨环 / Wear rings	PEEK 或者 蜂窝夹层复合材料 / PEEK or Honeycomb
轴承箱 / Bearing housing	碳钢 / Carbon steel

# 我们言行一致 / We Do What We Say

## 与客户的合作伙伴关系

- 我们是值得信赖的合作伙伴。
- 我们提供高品质的服务。
- 我们帮助客户提升竞争力。

## Customer Partnership

- We are **reliable partners**.
- We provide a **high level of service**.
- We **make our customers more competitive**.



## 尽职的员工

- 我们倡导负责任的精神。
- 我们的运行公开透明。
- 我们具有团队精神。

## Committed People

- We drive **accountability**.
- We are **open and transparent**.
- We are **team players**.



## 卓越运营

- 我们注重结果。
- 我们积极主动，并遵守既定流程。
- 我们安全操作。

## Operational Excellence

- We **focus on results**.
- We take **initiative** and work within **established processes**.
- We **act safely**.



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苏尔寿通过由 150 多个工厂和服务站组成的网络，为全球客户提供服务，而且在新兴市场也有着强大的影响力。

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



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