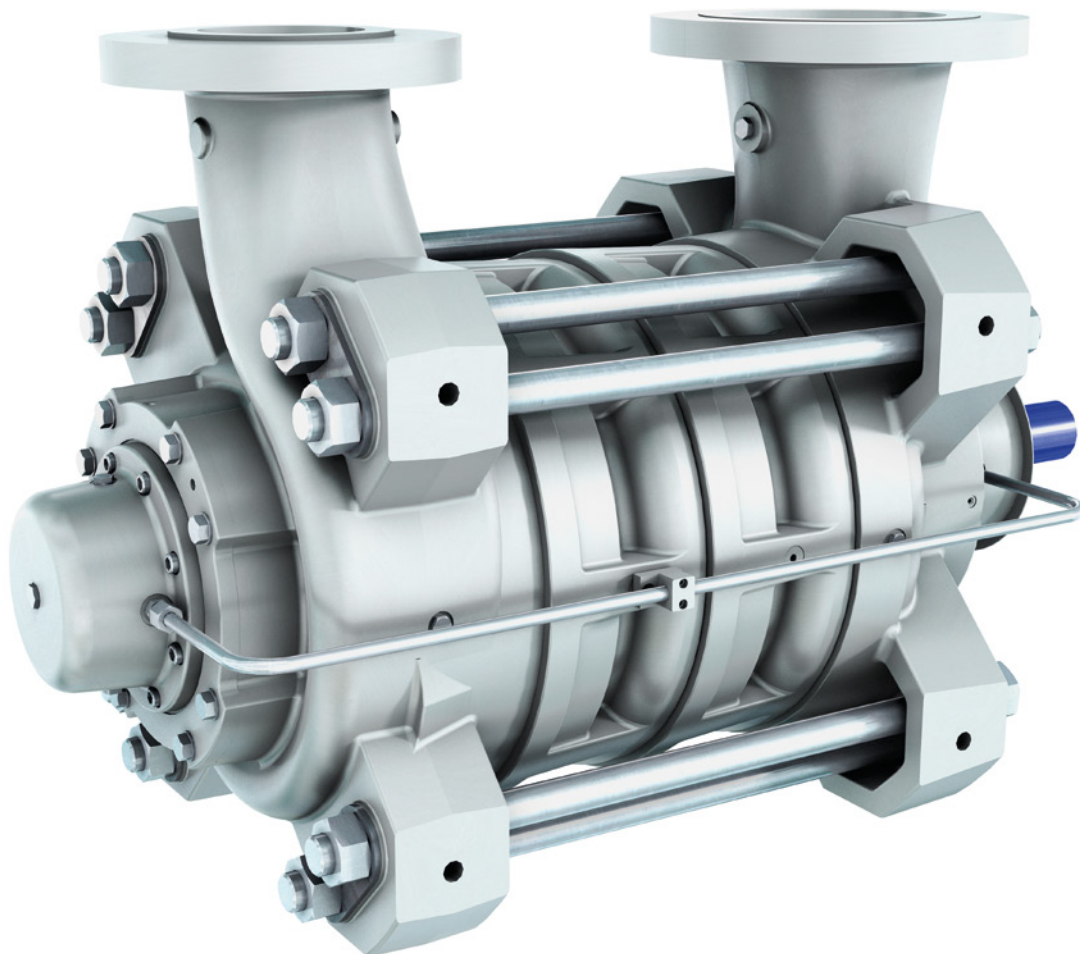


MBN-RO节段式多级泵
MBN-RO Multistage Ring Section Pump



主要应用

MBN-RO 系列标准化的节段式多级泵，专门针对膜法海水淡化工艺中反渗透膜的高压给水过程设计。革新水力性能使它也能用于其它任何清洁介质的高压应用。主要适用于如下工艺：

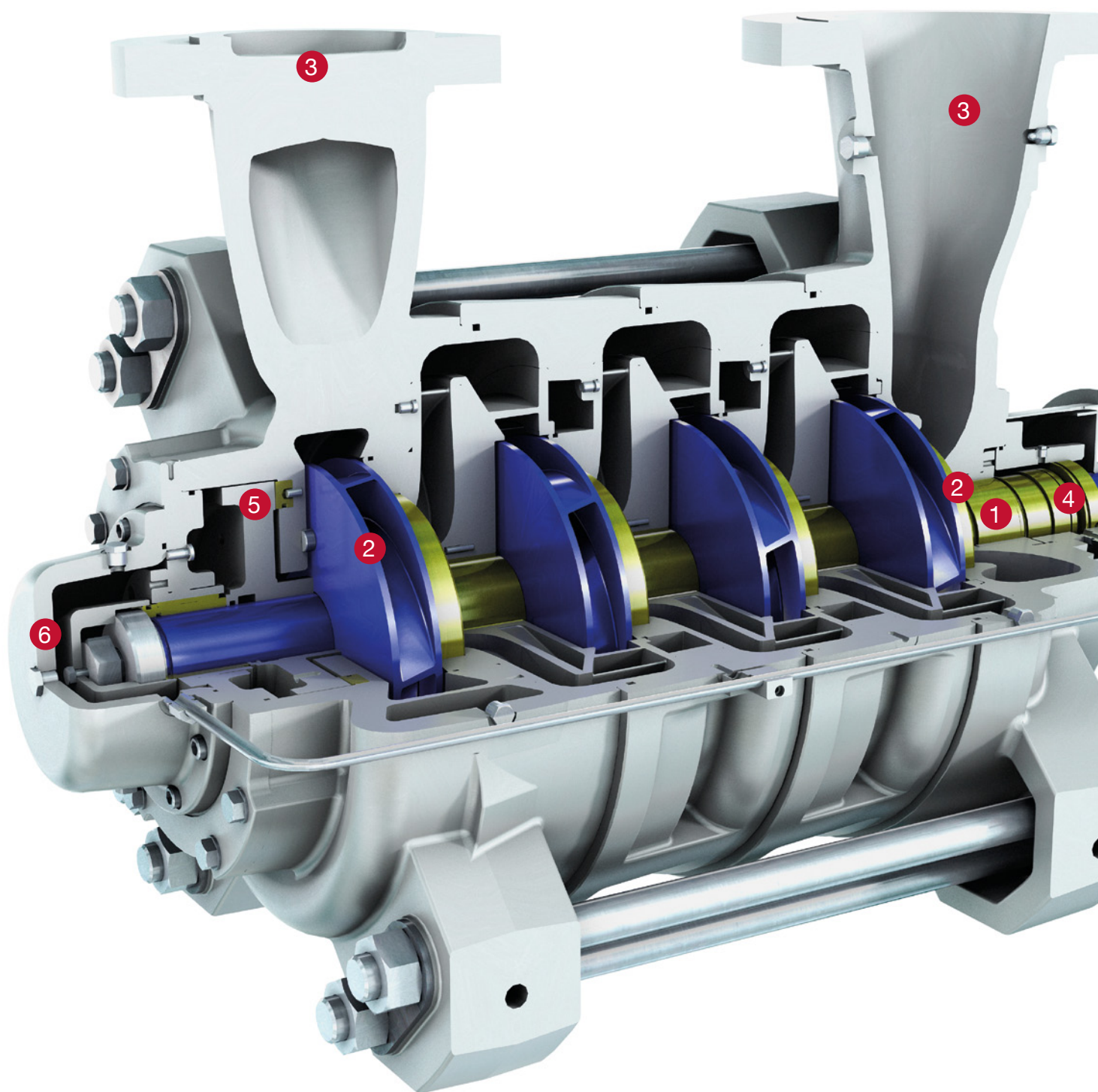
- 反渗透 / 膜法海水淡化
- 清水泵站
- 其它的低温清洁介质的高压应用

Main Applications

The MBN-RO is a configured, ring section, multistage pump specifically designed for high pressure membrane feed service in sea water reverse osmosis applications. Its improved hydraulic performance makes it suitable for any other high pressure application with clean

liquids. It is mainly used in the following applications:

- Sea Water Reverse Osmosis (SWRO) applications
- Clean water pumping stations
- Any other high pressure application with clean liquids and low temperature



特征及优点

- 1 轴承装配**
 - 驱动端和非驱动端均采用水力润滑轴承设计，使得泵的结构紧凑，可靠且易于维护，不需要润滑油或脂。
- 2 水力**
 - 所有的级均采用高效率，低气蚀余量叶轮，模块化的设计，满足客户最高效率和理想的吸入性能的要求。
 - 在末级采用双涡壳结构，减小径向推力，提高了整体效率
 - 配备可替换的PEEK耐磨部件，提高泵的效率并减少了维护
- 3 法兰**
 - 根据客户配管的需要，进出口法兰可以设置在侧面或顶部，包括典型的一侧进出配置。
 - 驱动端采用径向吸入的法兰确保在维护机械密封和水力轴承时不需要拆卸管路。
- 4 机械密封**
 - 在低压侧的驱动端设置单端面机械密封，采用第一级的液体润滑。
 - 在泵高压侧没有机械密封
- 5 轴向推力平衡**
 - 采用平衡盘以提供更优的效率
- 6 维护**
 - 所有需要维护的部件（驱动端和非驱动端的水力轴承，平衡盘，机械密封）均比较容易拆卸和更换，且不需要拆除进出口管路。

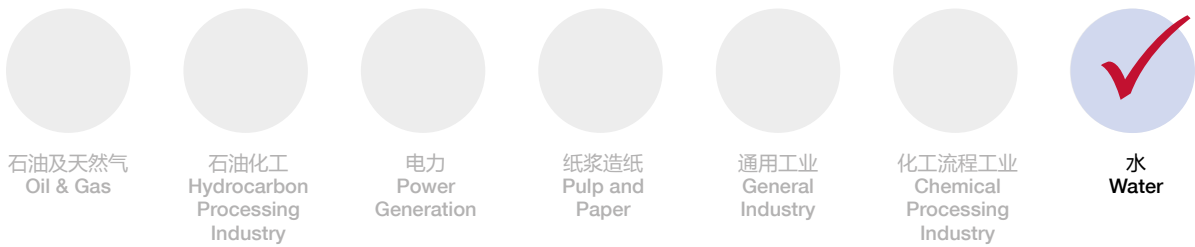
Features and Benefits

- 1 Bearing assembly**
 - Product-lubricated bearings at both Drive End (DE) and Non-Drive End (NDE) to make the pump compact, reliable and easy to maintain, do not require lubricating grease or oil
- 2 Hydraulics**
 - High efficiency, low Net Positive Suction Head (NPSH) impellers to match customer needs are used for all stages, providing modularity, top efficiency and ideal suction performance
 - Double volute at last stage reduces the radial thrust and increases overall efficiency
 - Replaceable stationary PEEK wear parts used to increase efficiency and reduce maintenance
- 3 Flanges**
 - Can be installed side or top position as per customer convenience allows flexibility in the pipe layout including the typical side-side orientation
 - Radial suction flange allows accessibility to mechanical seal and product lubricated bearing at DE without disassembling the piping
- 4 Shaft sealing**
 - Integrated single mechanical seal at DE, low pressure side, with flushing from first stage
 - No mechanical seal on the high pressure side
- 5 Axial thrust balance**
 - By means of balancing disc to ensure optimum efficiency
- 6 Maintenance**
 - All parts typically subject to maintenance (both DE and NDE bearings, balancing disc, mechanical seal) are accessible and can be replaced on site, without removal of suction and discharge piping



MBN-RO节段式多级泵

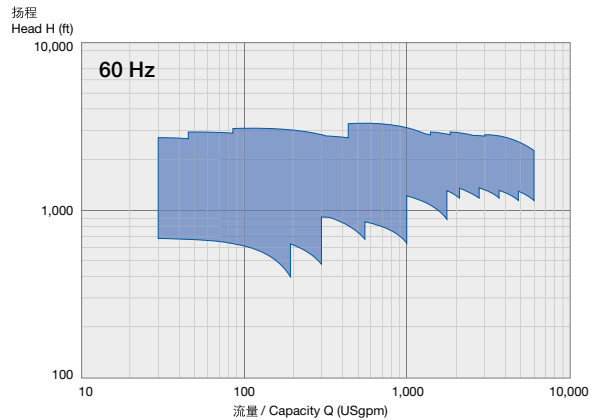
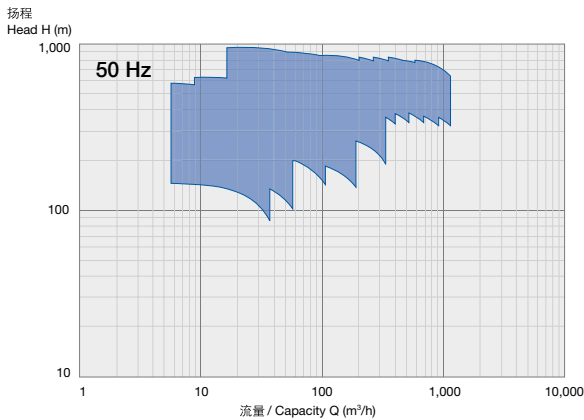
MBN-RO Multistage Ring Section Pump



运行数据 / Operating Data

50 Hz	泵规格 / Pump sizes	60 Hz
25 到 / to 200 mm		1 到 / to 8 inches
达 / up to 1,100 m ³ /h	流量 / Capacities	达 / up to 4,800 USgpm
达 / up to 900 m	扬程 / Heads	达 / up to 2,950 feet
达 / up to 100 bar	压力 / Pressures	达 / up to 1,450 psi
90°C	温度 / Temperatures	194°F

性能范围 / Performance Ranges



材料 / Materials

泵部件 / Pump part	材料等级 / Material classes	
	41 (双相不锈钢 / Duplex)	4T (超级双相不锈钢 / Superduplex)
泵体, 叶轮, 导叶 Casing, impeller, diffuser	ASTM A890 Gr 3A	ASTM A890 Gr 5A
耐磨环 / Wear ring	PEEK	PEEK
轴 / Shaft	EN 1.4462	EN1.4410
滑动轴承 / Slide bearings	EN 1.4462 + PEEK/SUME	EN 1.4410+PEEK/SUME
泵盖 / Cover	ASTM A890 Gr 5A	ASTM A890 Gr 5A

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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苏尔寿泵业在产品质量、可靠性和技术创新方面的卓越表现是公认的。我们是一个真正的全球化伙伴，并通过以下方式与客户紧密相连：

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- worldwide sales office presence



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