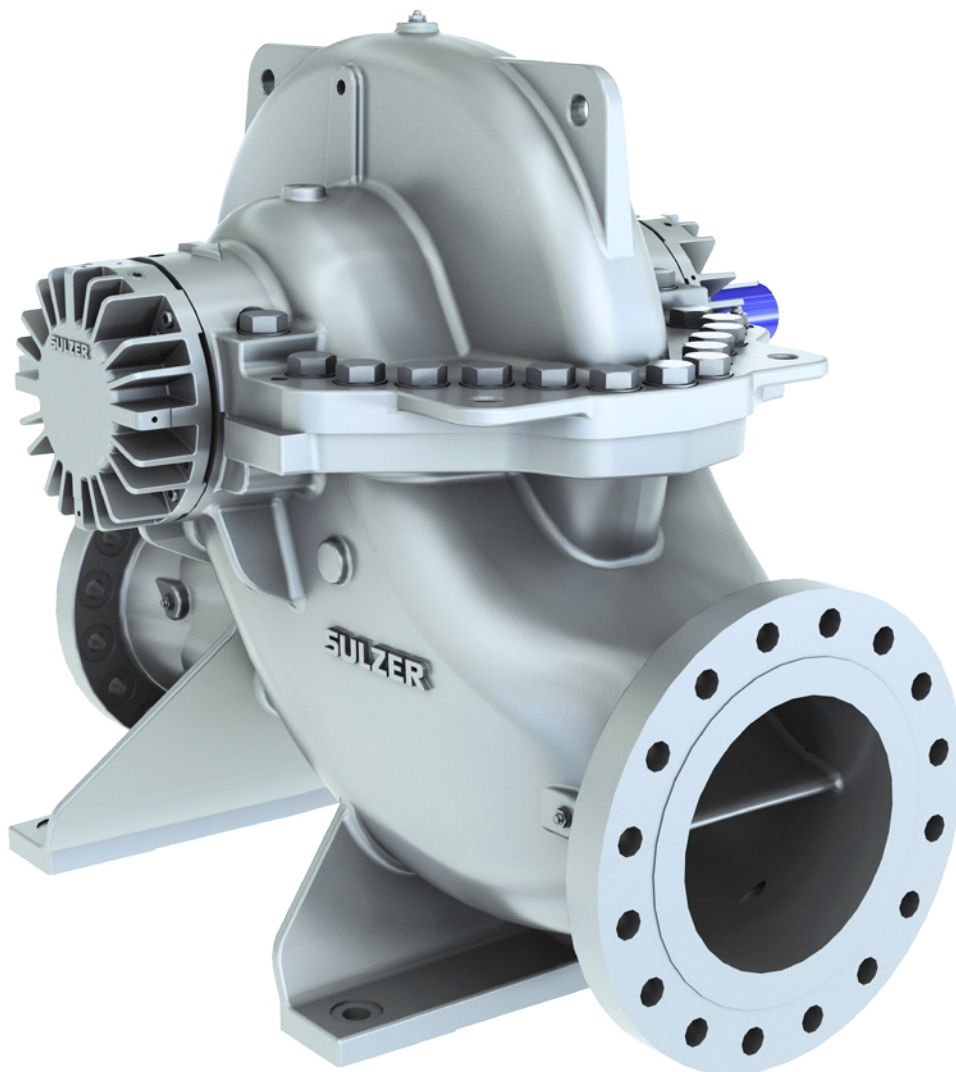


SMD轴向剖分、双吸泵

SMD Axially Split Casing, Double Suction Pump





主要应用

SMD 单级叶轮，双吸，轴向剖分式，水泵的设计用于满足原水，清洁水，海水和苦咸水市场需要：

- 取水
- 送水
- 海水淡化
- 水处理
- 供水及配送
- 灌溉、排水和防洪
- 区域供冷 / 供热

适合于饮用水应用。若有需要，可提供 ACS, NSF 61 及 WRAS 证书。

为了满足不同应用的需要，SMD 细分为两种特定的系列，从而具有最佳的水力设计：

- 标准 SMD 组，专注于市政水处理、供水、配水，通常需要更高水平的标准化，以允许更具成本效益的解决方案和更短的供货周期。
- 配置 SMD 组，结合标准化和模块化，提供多样化的可配置选项，以满足在水的提取，水输送和脱盐行业中最常见的需求

Main Applications

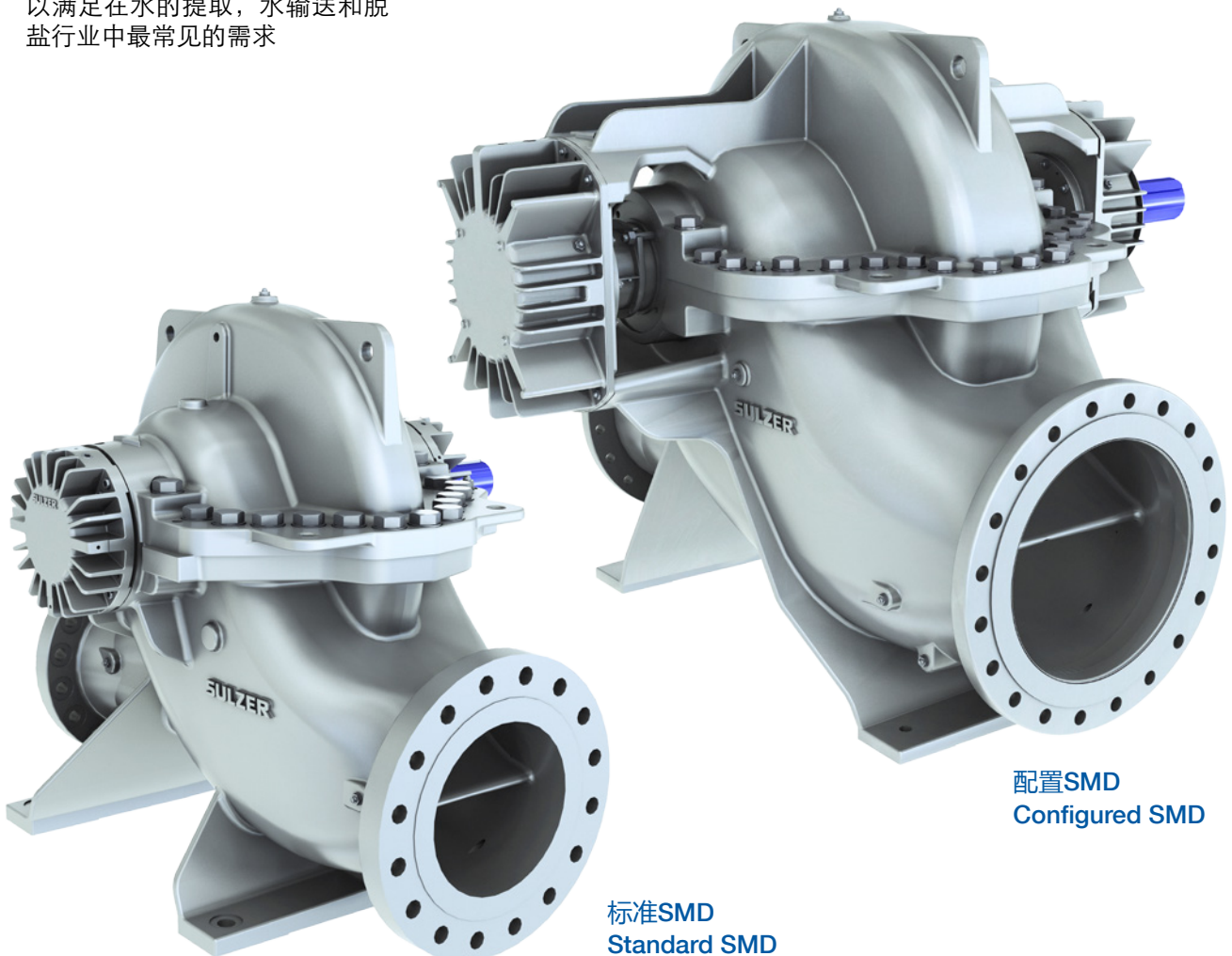
SMD single stage, double suction, axial split casing pumps are designed to meet the needs of the water market for a wide range of raw, clean, sea and brackish water applications:

- Water abstraction
- Water transport
- Desalination
- Water treatment
- Water supply and distribution
- Irrigation, drainage and flood control
- District cooling/heating

Suitable for drinking water applications. ACS, NSF 61 and WRAS certificates available upon request.

To meet the demands of the individual applications, the SMD benefits from a best-in-class hydraulic design that is combined with two specific mechanical envelopes:

- Standard SMD, focused on municipal water treatment, supply and distribution where typically a higher level of standardization is required, allowing the most cost effective solutions and shortest lead times.
- Configured SMD combines standardization and modularization to offer a number of configurable options to meet the most common requirements of the water abstraction, transport and desalination industries.



标准SMD
Standard SMD

配置SMD
Configured SMD

特征和优点，标准SMD

Features and Benefits, Standard SMD

1 双吸叶轮

- 平衡轴向力
- 更广的高效区流量范围
- 优秀的必须汽蚀余量性能，即便是在水泵大流量点

2 双蜗壳

- 平衡径向力
- 创新的破浪设计（上下壳体中双蜗壳处），有利于最小化径向负载脉冲和减小振动
- 自排残设计
- 紧凑的设计，最大程度减小轴承跨距和提升轴刚度

3 360°轴承室

- 寿命周期大于100000小时
- 360° 固定以提升刚度
- 脂润滑，在驱动端和非驱动端都采用深沟球轴承

4 维护方便

- 完全干式轴设计，防止生锈
- 单端面、平衡式机械密封为标准轴密封
- 用于校准分半壳体的定位销
- 精确的安装定位，安装时无需调整转子部件
- 更换轴承、轴承螺母、轴承油封、机械密封、轴套时无需拆卸上壳体

1 Double suction impeller

- With inherent hydraulic balance of axial thrust
- Exceptional efficiency over a wide range of flows
- Excellent Net Positive Suction Head Required (NPSHR) also in flow run out conditions

2 Double volute casing

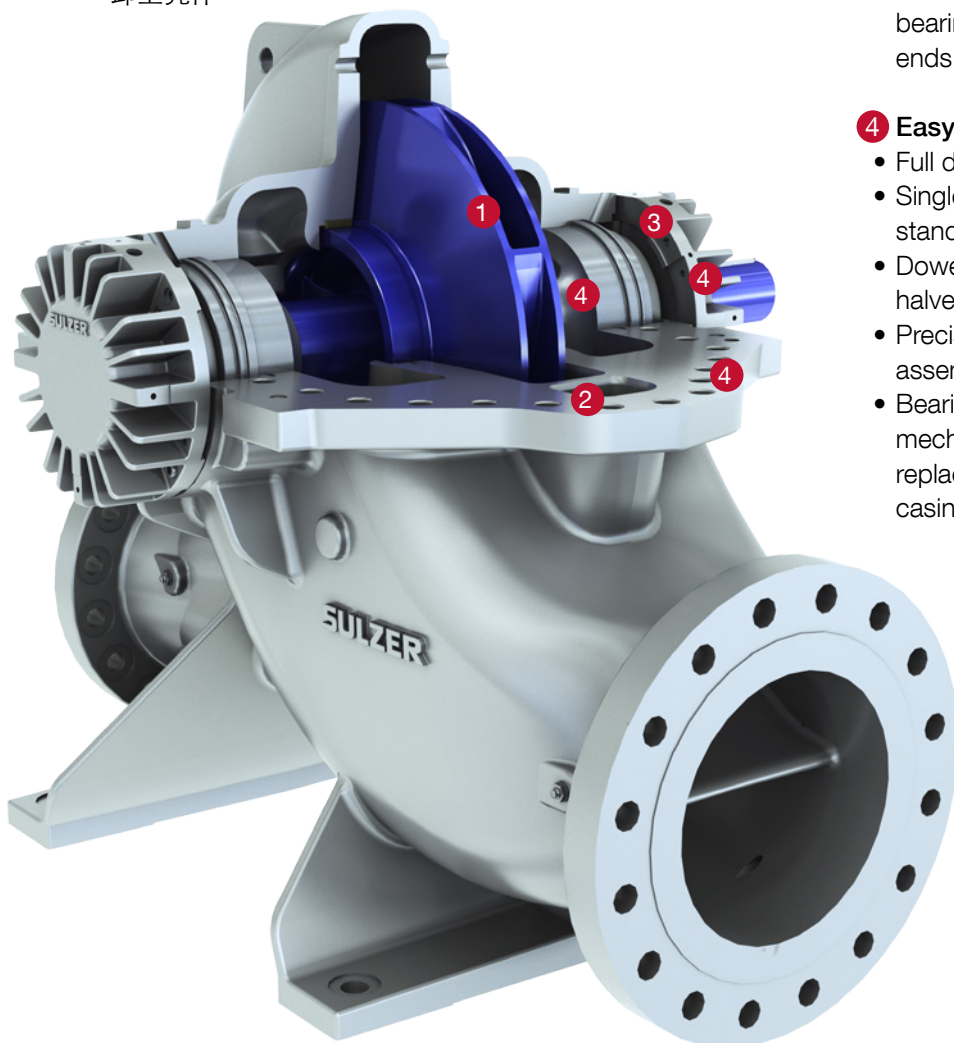
- Radial load balancing
- Innovative cut-water design for minimum radial load pulses and reduced vibrations
- Self-draining
- Compact dimensions for reduced bearing span and improved shaft stiffness

3 360° bearing bracket

- Generously sized for life cycle higher than 100,000 hours
- 360° fixation for enhanced stiffness
- Greased for life, deep groove single ball bearings at both drive and non-drive ends

4 Easy maintenance

- Full dry-shaft design prevents rusting
- Single, balanced mechanical seal as standard shaft sealing
- Dowel pins for alignment of the casing halves
- Precision register fits, adjustment of rotor assembly in the casing is not needed
- Bearings, bearing nuts, bearing isolators, mechanical seal, shaft seal sleeves are replaceable without removing the upper casing



特征和优点，配置SMD

Features and Benefits, Configured SMD

5 重载轴承设计

- 为了满足更高的功率需求, 通常用于大流量水输送应用
- 驱动端使用双列角接触球轴承, 非驱动端使用单列径向球轴承
- 脂润滑或油润滑轴承

6 轴密封

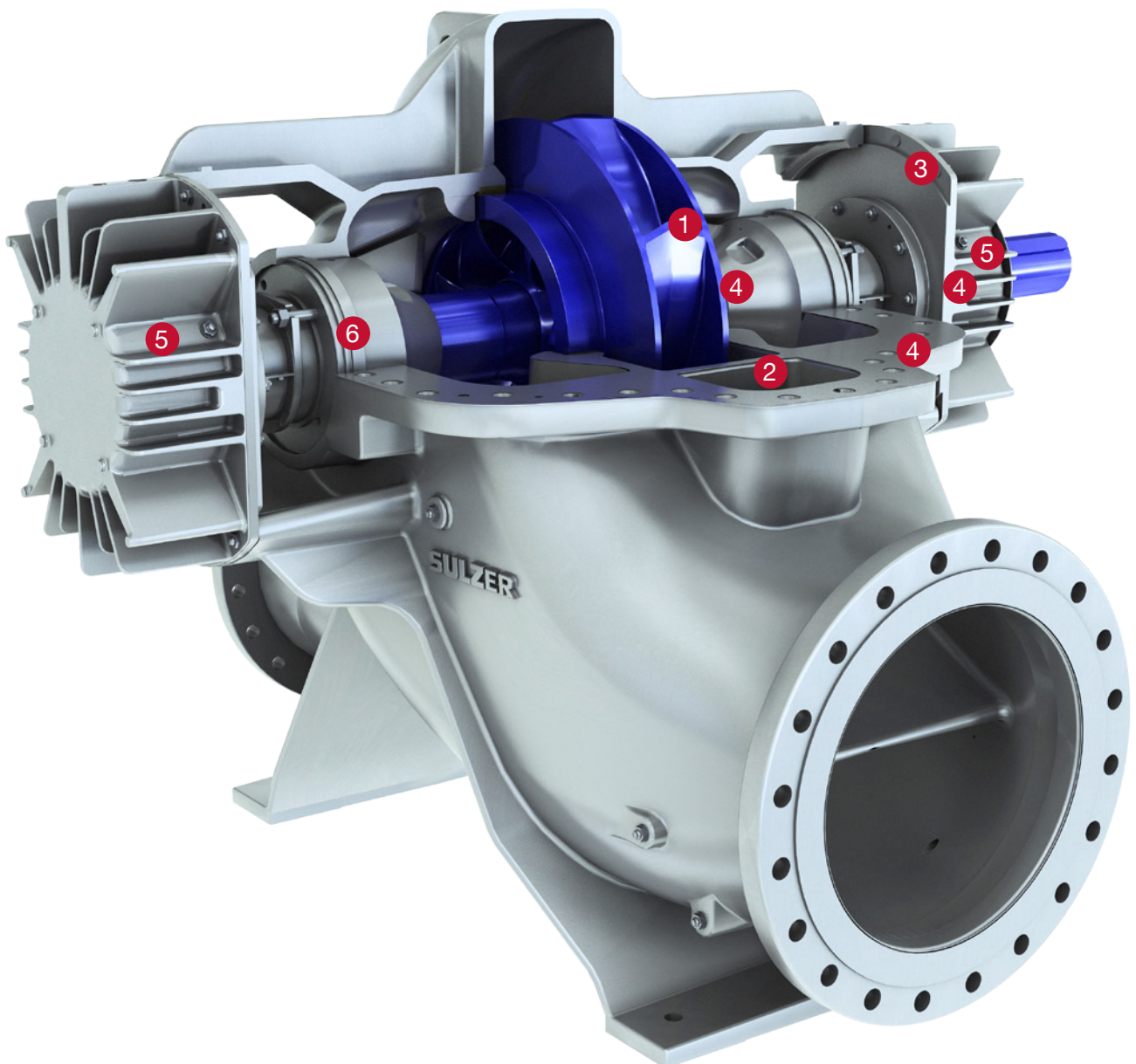
- 压盖填料作为可选项
- 根据需求可使用其他机械密封结构

5 Heavy duty bearing design

- For higher power requirements, typically in large water transport applications
- With angular contact, double ball bearing at drive end and single radial ball bearing at the non-drive end
- Grease or oil lubricated bearings available

6 Shaft sealing

- Gland packing available as an option
- Other mechanical seal configurations available upon request

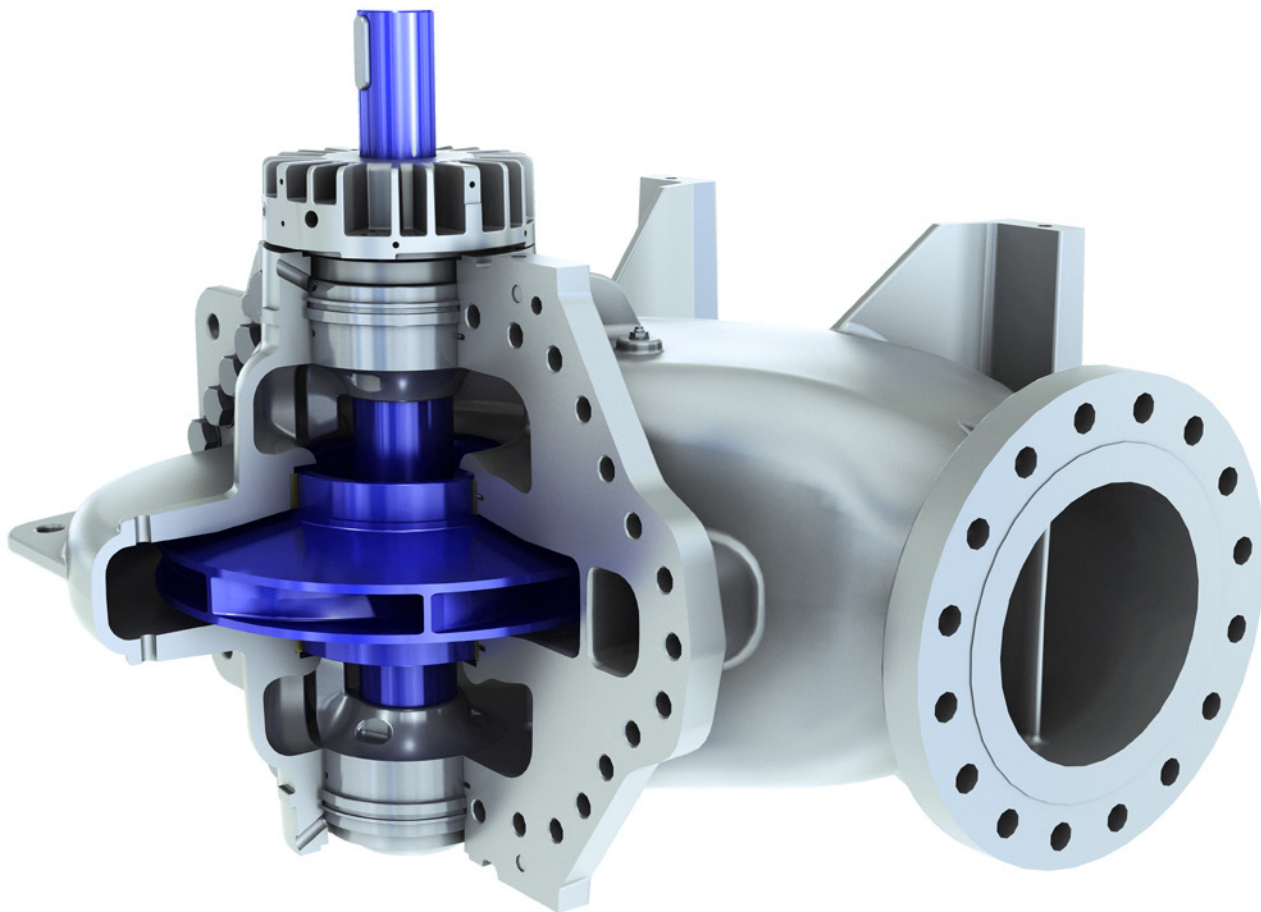


SMD可选特征

SMD Optional Features

- 1 垂直布置**
 - 驱动端油脂润滑推力轴承，非驱动端介质润滑导轴承
 - 壳体和卧式安装的相同，可以互换
- 2 轴承**
 - 对于如高速、高环境温度，需要使用重型推力轴承的场合，可以采用冷却风扇提供有效的冷却，而不需要冷却水
 - 温度和振动监测仪表的接口
- 3 叶轮耐磨环**
 - 过盈配合，轴向固定
 - 提供额外的叶轮保护
 - 降低重载应用下的维护成本
- 4 密封冲洗方案选择**
 - 11为标准配置方案，可选密封方案31和32，带旋风分离器或外部冲洗水

- 1 Vertical arrangement**
 - With grease lubricated thrust bearing at the drive end and product lubricated proven design bearing at the non-drive end
 - Interchangeable casing with the horizontal arrangement
- 2 Bearings**
 - Cooling fan in thrust bearing for heavy duty applications such as high speed, high ambient temperature, provides effective cooling without need of cooling water
 - Connection for temperature and vibration monitoring instruments
- 3 Impeller wear ring**
 - Shrink fit and axially secured
 - Offers additional impeller protection
 - Reduced maintenance cost in heavy duty applications
- 4 Seal plan options**
 - Plan 11 as standard, with seal plans 31 and 32, with cyclon separator or with external flushing source



SMD立式安装(SMDV)

SMD in vertical arrangement (SMDV)

SMD轴向剖分、双吸泵

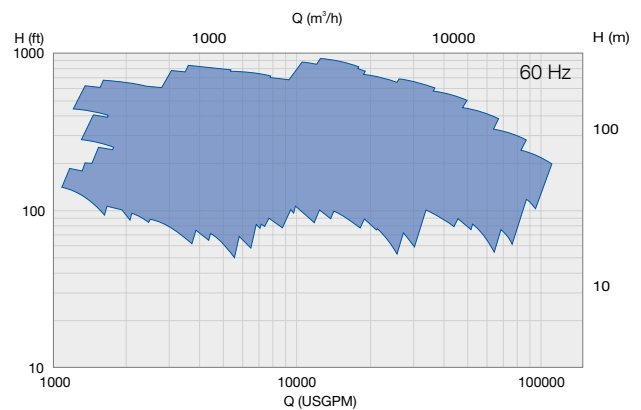
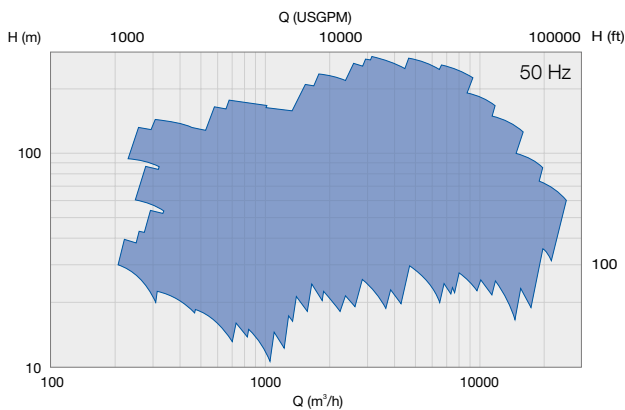
SMD Axially Split Casing, Double Suction Pump



运行数据 / Operating data

50 Hz	泵规格 / Pump sizes	60 Hz
150 – 1,000 mm		6 – 40 in
200 – 25,000 m ³ /h	流量 / Capacities	1,100 – 110,000 USgpm
达 / up to 260 m	扬程 / Heads	达 / up to 850 ft
达 / up to 34 bar	压力 / Pressures	达 / up to 490 psi
达 / up to 140°C	温度 / Temperatures	达 / up to 280°F

性能范围 / Performance ranges



材料 / Materials

泵部件 Pump part	材料组合 / Material combination						
	1c	1e	1d **	2b **	3	4a	4b
壳体 / Casing	球墨铸铁 / Ductile iron			碳钢 / Carbon steel	双相钢 / Duplex	超级双相钢 / Super Duplex	
叶轮 / Impeller	双相钢 / Duplex		碳钢 / Carbon steel	双相钢 / Duplex	超级双相钢 / Super Duplex		
轴 / Shaft	铬钢 / Chromium steel				双相钢 / Duplex		超级双相钢 / Super Duplex
密封腔 / Seal housing	球墨铸铁 / Ductile iron			碳钢 / Carbon steel	双相钢 / Duplex	超级双相钢 / Super Duplex	
壳体口环 / Stationary ring	铝青铜 / Aluminum bronze	双相钢 / Duplex	铝青铜 / Aluminum bronze	双相钢 / Duplex	超级双相钢 / Super Duplex		
叶轮口环 / Impeller ring *	双相钢 / Duplex	双相钢+司太利合金6 / Duplex + Stellite 6	碳钢 / Carbon steel	双相钢+司太利合金6 / Duplex + Stellite 6	超级双相钢+司太利合金6 / Super Duplex + Stellite 6		

* 可选 / optional

** 仅限于配置SMD / available only for configured SMD

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