

## 滚柱式转子泵 Roller pump



### 产品简介

滚柱式转子泵是一种新型的旋转式容积泵，是国际上最先进的流体输送设备之一。主要输送部件由腔体、转子和滚柱组成。滚柱在转子离心力和液力的作用下，在腔体内壁滚动运转，从而形成较高的真空度和排液压力。

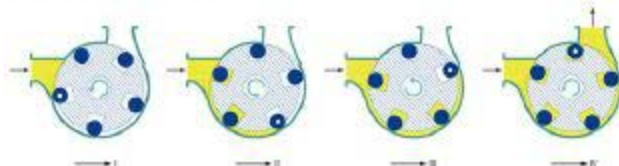
该产品采用多项新技术、新材料，提高了泵对中、低粘度介质的连续性输送性能，以及气、液、固三相流输送性能。由于泵的内腔容积增大，而转速相对较低，介质在滚柱的推动下无剪切流动，所以对物料的输送特别柔和、稳定。产品的核心部件根据不同介质的特性，采用不同材料制造，提高了泵的耐腐蚀性和耐磨性。该产品在石油化工、精细化工、日用化工、制药、食品、环保等行业中广泛使用。

### Product introduce

Roller pump is a new type of rotary displacement pump. It is advanced fluid delivery pumps, consisting chiefly of working chamber, rotor and roller. The roller turns closely against the inner of working chamber under the centrifugal and hydraulic forces, and then formed high vacuum and discharge pressure.

The product uses multiple new technologies and materials to enhance the sustained delivery performance of low & medium viscosity medium, and the mixture of gas, liquid, and solid granules. As the pump working chamber is pretty large and the turning rate relatively low, the fluid is delivered by the pump stably and smoothly because there is no shear while transfer. The key components of the pump are endurable as they are made of high quality wear-resistant and corrosive-resistant materials. The pumps are widely used in petro-chemistry, pharmaceutical industry, foodstuff industry, environmental protection, etc.

## 转子工作模拟图 Operating simulated drawing



### 产品特点

1. 特殊的工作原理、不同的材质选择，提高了泵的耐磨性、耐腐蚀性。
2. 能形成较高的真空度，可吸取深至8米的中低粘度介质，以及气、液、固三相流介质。
3. 噪音低、脉动小、密封可靠、故障率低、高效节能、使用寿命长。
4. 配置变频器后，一定范围内流量可调，可作一般计量泵使用。
5. 接口多样，根据用户需要可选配法兰式、螺口式、卡箍式不同接口类型。
6. 移动式滚柱泵便捷、灵活，可满足随时随地启用及用后移出场的要求。

### Product features

1. Special working principle and different material choice, improving the wear-resistant and corrosive-resistant of pump.
2. With high vacuum, pump can intake low & medium viscosity medium and mixture of gas, fluid and solid granules from up to 8 meter depth.
3. Low noise, low pulsation, reliable seal, low failure rate, high efficiency and energy-saving, long life.
4. Equipped with frequency converter, the flow can be adjusted in a certain range, and can be used as general metering pump.
5. Various connecting type, flange, screw or clamp connection can be selected by customer.
6. Movable type is so convenient and flexible to meet the requirement for starting using at anytime and in anywhere, and removal after using.

### 技术参数表

#### Technical parameters

型号 Type	进出口径 DN (mm)	排量 (L/r)	流量 (m³/h)	工作压力范围 (MPa)	真空度 (-MPa)	功率 (kW)	转速 (r/min)
20GZA	Φ20xΦ20	0.138	1	0.1~1.2	0.01~0.06	0.75~2.2	200~400
40GZA	Φ50xΦ40	0.346	3~5	0.1~1.2	0.04~0.06	1.5~4.0	180~350
50GZA	Φ65xΦ50	0.642	7~10	0.1~1.2	0.04~0.06	3.0~5.5	180~320