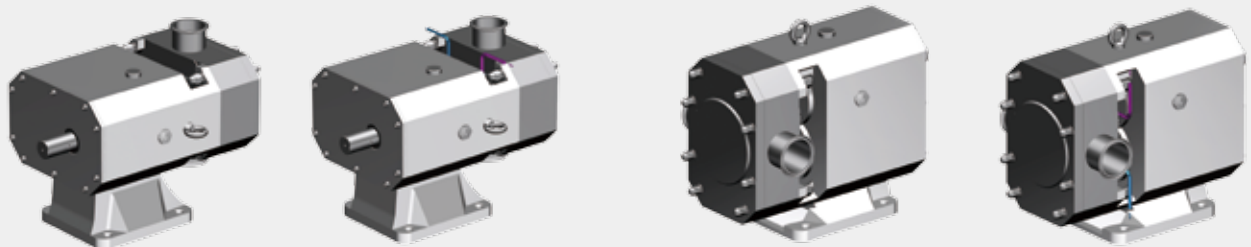
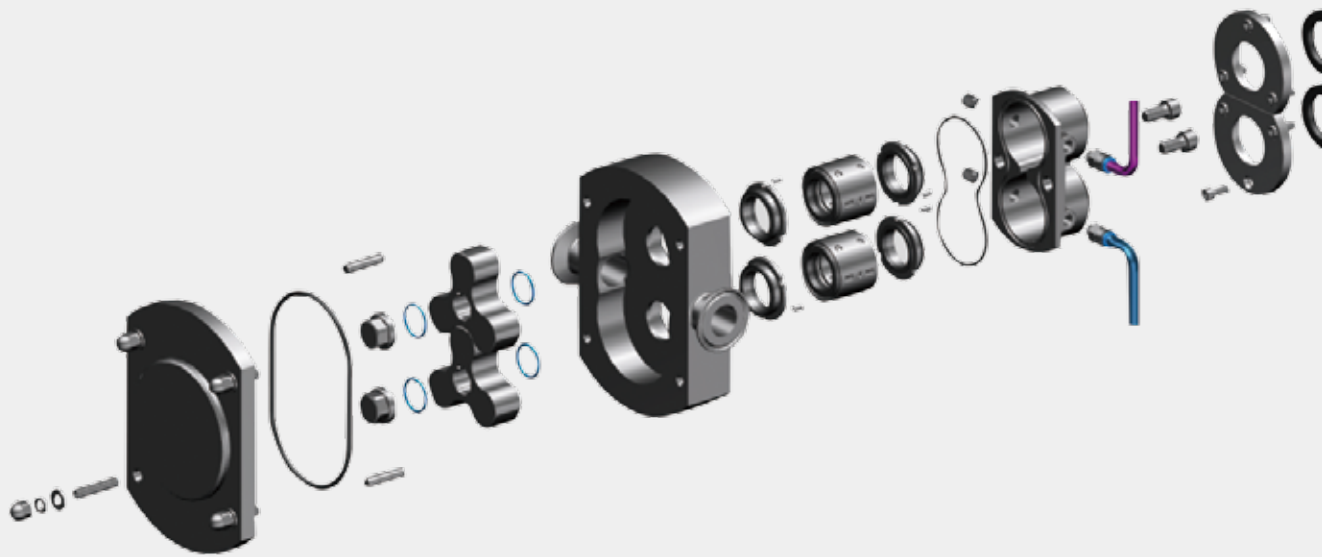
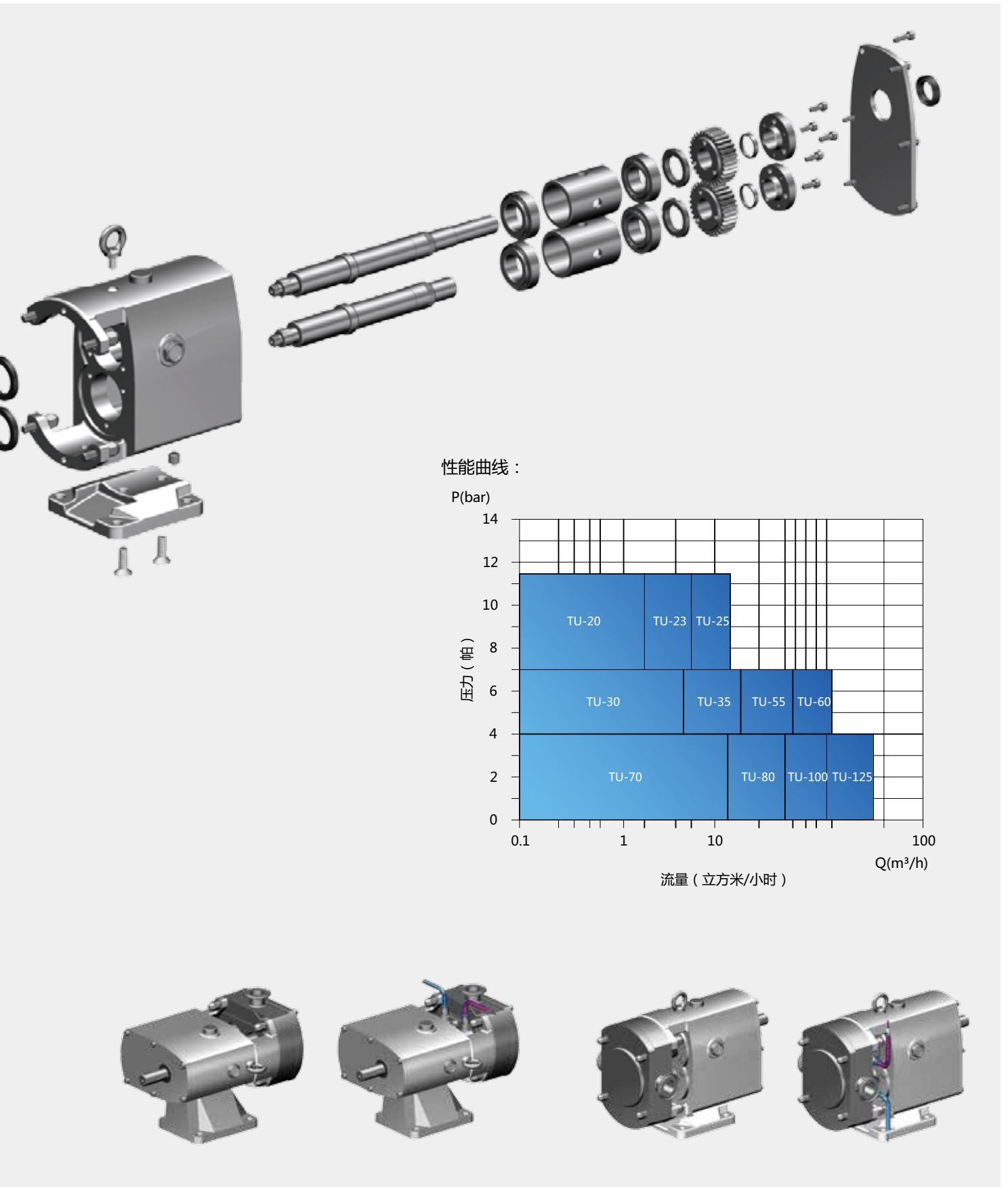


卫生凸轮泵(转子泵)
Hygienic Lobe Pump (Rotor Pump)



卫生凸轮泵(转子泵)





卫生凸轮泵(转子泵) Hygienic Lobe Pump (Rotor Pump)



应用

- * 该泵是一个正位移凸轮转子泵，是根据3A食品卫生标准设计的。
- * 该标准对设备过程都有最严格的卫生要求，容易清洁和维护。
- * 该泵非常适合于食品加工，化妆品和制药工业中的对粘性和低粘性介质的传输。

工作原理

- * 该泵基本上包括两个凸轮转子，它们在泵壳内旋转，彼此不会相互碰到。
- * 当转子旋转时，凸轮和泵壳之间的间隙就会不断的被充满物料，物料被驱动到排放口，输送一定量的物料。
- * 由于凸轮和泵壳之间公差调整，抽吸过来的物料形成一个连续的蒸汽，从而保证泵的有效抽吸。

Applications

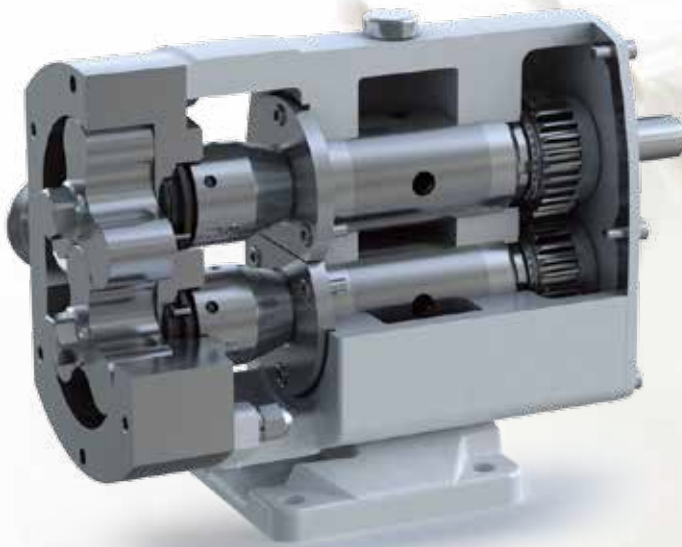
- * The pump is a positive displacement lobe rotor pump designed according to 3A standard.
- * 3A standard with a very strict hygienic requirements to equipment and processes, Easy cleaning and maintenance.
- * The pump is ideal for the transfer of viscous as well as low-viscous media in the food-processing, cosmetics and pharmaceutical industries.



不同款式的转子
Different Rotor Shapes

Operating Principles

- * The pump basically consists of two lobe rotors which rotate inside the casing without touching each other.
- * As the rotors rotate, the space between the lobes and the casing is successively filled with the product which is driven to the discharge nozzle displacing a fixed amount of product.
- * The pumped product forms a continuous stream due to the adjusted tolerances of the lobes and the pump casing thus ensuring an efficient pumping.



宽电压电机 wide input range motor

功率 Power	电压备注 Voltage
0.55 Kw 0.75 Kw 1.1 Kw	210V~230V/50Hz 360V~400V/50Hz 420V~460V/60Hz
1.5 Kw 2.2 Kw 3 Kw	
4 Kw 5.5 Kw 7.5 Kw	360V~400V/50Hz 630V~690V/50Hz 420V~460V/60Hz
11 Kw 15 Kw 18.5 Kw	
22 Kw	

选 项

- * 机械密封圈: SiC/SiC, TgC/SiC, Tgc/Tgc
- * 单端面机械密封
- * 水冲洗双端面机械密封
- * 垫圈 FPM (Viton®) and PTFE.
- * 安全阀在前盖或者外面的旁路上
- * 垂直式TUR系列
- * 水平式TUL系列
- * 各种类型的驱动和装置:
- * (1)手动调节无极变速箱
- * (2)变频器调速电机和变速箱
- * (3)定速比输出变速箱
- * 连接: 卡箍, 螺纹, 法兰, 焊接
- * 电机安装型号(B5),
- * 电机极数4极
- * 电机频率50HZ,60HZ

Options

- * Mechanical seal: SiC/SiC,TgC/SiC, Tgc/Tgc
- * Single mechanical seal
- * Flushed double mechanical seal
- * Gasket: FPM(Viton®) or PTFE
- * Relief valve at the front cover or external by-pass
- * Vertical TUR series or Horizontal TUL series
- * Different drives and fixes:
- * (1)Manual adjust Continuously Variable Transmission
- * (2)frequency converter adjust motor gear box
- * (3) fixed speed output transmission
- * Connections: clamp, thread, flange, welding
- * Motor type B5,
- * 4 Poles motor
- * Motor frequency 50HZ,60HZ

材 质

- * 熔模铸造泵体: AISI 316L / AISI304
- * 铸铁机架和齿轮箱: QT450-10
- * 垫圈(标准): EPDM
- * 机械密封圈(标准): C/SiC/EPDM
- * 内表面处理: Ra≤0.6μm
- * 外表面处理: 镜面抛光

Materials

- * Investment casting casing: AISI 316L / AISI304
- * Cast iron support and gear box: QT450-10
- * Gaskets (standard): EPDM
- * Mechanical seal (standard): C/SiC/EPDM
- * Internal surface finish: Ra≤0.6μm
- * External surface finish: mirror polish



卫生凸轮泵(转子泵)

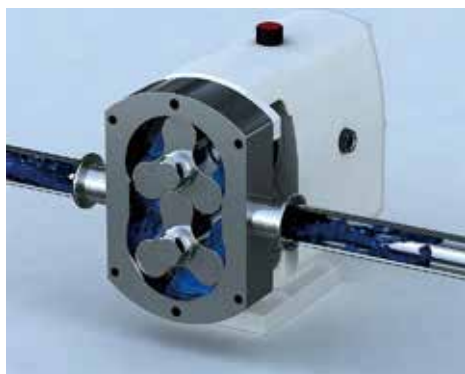
Hygienic Lobe Pump (Rotor Pump)

技术规格

- * 最大流量：62m³/h / 272GPM
- * 最高压力：12bar / 174 PSI
- * 最高温度：120°C/ 248° F
- * 最高转速：1450 rpm

Technical specifications

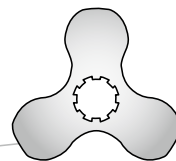
- * Max. flow : 62m³/h / 272GPM
- * Max. pressure : 12bar / 174 PSI
- * Max. working temperature : 120°C/ 248°F
- * Max. rev.: 1450 rpm



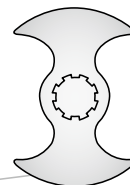
二叶转子
2-Leaves Rotor



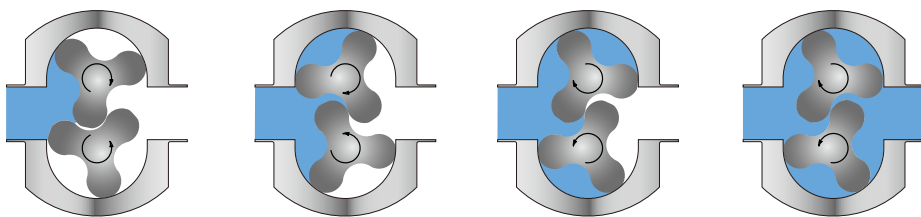
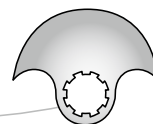
三叶转子
3-Leaves Rotor



蝶形转子
Butterfly Rotor



单蝶形转子
Signal Butterfly Rotor



工作原理图

- 由于转子旋转，两个转子的间距增大导致吸入端的空间也增大，由此引起部分真空，从而把流体牵引入泵腔中。
- 由于轴旋转的原理，两个转子都是不断的加载空气，流体被移到传送端，转子间的间隔和泵体两壁间的间隔保证了空间总是适时被加载。
- 泵腔完全加载后，流体通过转子叶片甩出并与两壁间的空间相反，即为转子泵的工作原理。

Working Principle

- As the lobes rotate, the space on the suction side increases as one lobe is distanced from another, thus creating a partial vacuum which draws the fluid into the pump chamber.
- As they are rotated by the shafts, each lobe is consecutively filled and the fluid is displaced to the delivery side. The small gaps between the lobes and between the lobes and the walls of the pump body ensure that the spaces are duly filled.
- The pump housing is completely filled and the fluid escapes through the teeth of the lobes and is forced against the walls of the spaces, which contributes to the pump action.

外围保温
Periphery heat preservation

端面保温
End surface heat preservation



保温型转子泵

配置保温结构的转子泵特别适用于容易凝固的介质如巧克力、糖果、胶基等，将有温度的液体外引到转子泵保温室，从而达到保温目的。保温模式分为端面保温、外围保温、全保温。该保温室与泵腔完全分开不会威胁到泵内的物料卫生安全。

Heat Retaining Lobe Pump

Lobe pump with heat jacket is particularly suitable for easy solidification medium. It introduces temperature of liquid to heat jacket from outside, so as to achieve heat preservation purposes.

Heat jacket type: Periphery heat preservation, end surface heat preservation and complete heat preservation.

The heat jacket is completely separated from pump housing, so that it won't cause threat to hygienic and safety of pumping materials.

水冷却
Water-cooled



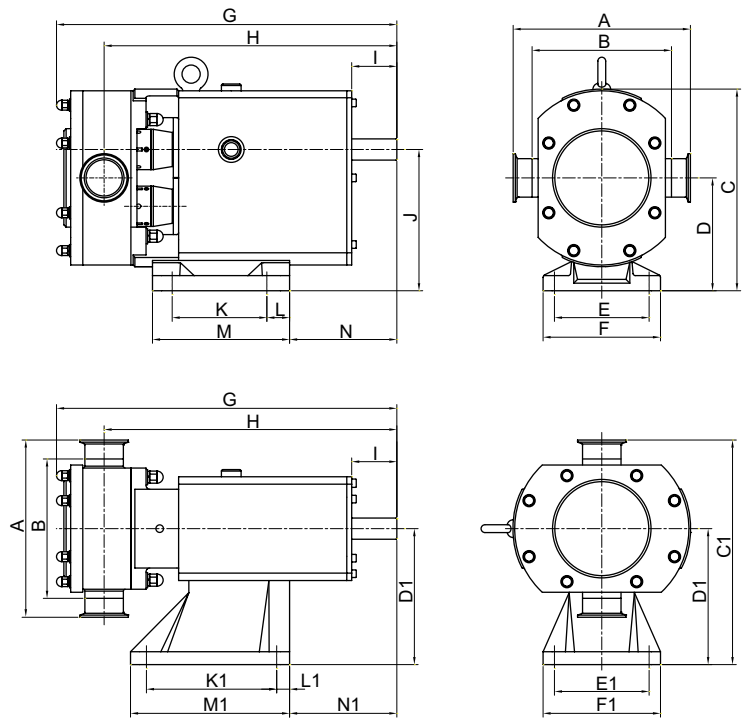
水冷却机械密封转子泵

应用于高温，高粘度如糖浆，番茄浆等物料

Water-Cooled Mechanical Seal Rotor Pump

Used in high temperature and high viscosity such as syrup, tomato paste and other materials

不带电机安装尺寸图
Assembly Dimension Drawing without Motor

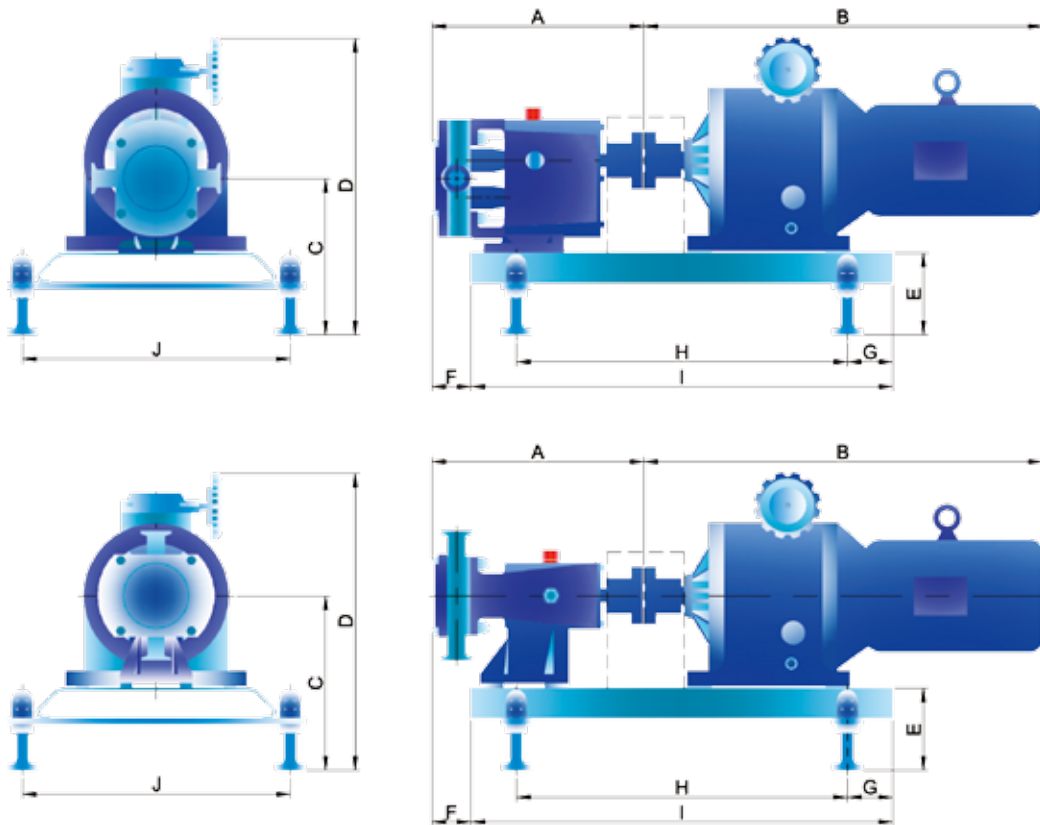


选型表 Selection Table												
规格	排量 L / 100 rev	进出口	A	B	C	C1	D	D1	E	E1	F	F1
TUL/TUR-20 TUL/TUR-23 TUL/TUR-25	9.96 18.7 25.6	1"/DN25 1.5"/DN40 2"/DN50	215	172	222	252	123	145	100	95	125	120
TUL/TUR-30 TUL/TUR-35 TUL/TUR-55 TUL/TUR-60	43.4 54.3 59.3 65.3	2"/DN50 2.5" DN65 3"	227 227 240 227	184	270	288 288 295 288	149	175	125	125	155	155
TUL/TUR-70 TUL/TUR-80 TUL/TUR-100 TUL/TUR-125	128 164 208 260	3" DN80 4"/DN100 5"/DN125	303 316 303 316	260\	387	407 414 407 414	221	256	193	193	233	233

规格	G	H	I	J	K	K1	L	L1	M	M1	N	N1
TUL/TUR-20 TUL/TUR-23 TUL/TUR-25	332 346 356	291	52	153	100	115	19	15	132	146	107	105
TUL/TUR-30 TUL/TUR-35 TUL/TUR-55 TUL/TUR-60	457 465 474 476	381	60	146	125	170	30	18	181	210	140	146
TUL/TUR-70 TUL/TUR-80 TUL/TUR-100 TUL/TUR-125	540	464 469 480 493	80	281	208	208	32	32	275	275	150	129

注意: 详细选型详见选型表; 以下表格里的尺寸为参考值, 实际尺寸以实物为准。
Attention: Please refer to selection table for details of nest page, The size in the following form is the reference value, the actual size is according to practicality.

带电机安装尺寸图
Assembly Dimension Drawing with Motor



选型表 Selection Table

TUL/TUR-20	0.6~3T	0.75~1.5kw	1"/DN25	332	570	260	491	135	68	75	550	700	445
TUL/TUR-23	1.1~5T	1.5~3kw	1.5"/DN40	346									
TUL/TUR-25	1.5~7T	2.2~4kw	2"/DN50	356									
TUL/TUR-30	2.6~10T	3~5.5kw	2"/DN50	457									
TUL/TUR-35	3.25~13T	3~5.5kw	2.5"	465	665	284	535	135	70	75	670	820	520
TUL/TUR-55	3.5~14T	3~7.5kw	DN65	474									
TUL/TUR-60	4~16T	3~7.5kw	3"	476									
TUL/TUR-70	7.5~31T	5.5~11kw	3"										
TUL/TUR-80	10~40T	7.5~15kw	DN80	540	770	381	650	160	75	85	750	900	600
TUL/TUR-100	12.5~50T	11~18.5kw	4"/DN100										
TUL/TUR-125	15.5~62T	11~18.5kw	5"/DN125										

注意: 详细选型详见选型表; 以下表格里的尺寸为参考值, 实际尺寸以实物为准。

Attention: Please refer to selection table for details of next page, The size in the following form is the reference value, the actual size is according to practicality.

转子泵机械无极变速系列选型表
 Mechanical Continuously Variable Transmission
 lobe pump Series selection table

50Hz/60Hz
 N--200 ~ 1000Min

型号 Model	流量 Flow	压力 Pressure	电机功率 Motor Power	建议转速 (Min-1) Recommend rotate speed	每100转排 量(升) Flow per 100 Rotates	进/出口规格 Inlet & Outlet Size
TUL/TUR-20	1~3 t	12 Bar 9 Bar 5 Bar	1.5kw 1.1kw 0.75kw	200~450	9.96	1" / DN25
TUL/TUR-23	2~5 t	12 Bar 9 Bar 5 Bar	3.0kw 2.2kw 1.5kw	200~450	18.7	1.5" / DN40
TUL/TUR-25	3~7 t	10 Bar 7 Bar 4 Bar	4.0kw 3.0kw 2.2kw	200~450	25.6	2" / DN50
TUL/TUR-30	5~10 t	12 Bar 8 Bar 4 Bar	5.5kw 4.0KW 3.0kw	200~400	43.4	2" / DN50
TUL/TUR-35	6.5~13 t	10 Bar 7 Bar 3 Bar	5.5kw 4.0kw 3.0kw	200~400	54.3	2.5"
TUL/TUR-55	7~14 t	12 Bar 9 Bar 6 Bar 3 Bar	7.5kw 5.5kw 4.0kw 3.0kw	200~400	59.3	DN65
TUL/TUR-60	8~16 t	10 Bar 7 Bar 5 Bar 3 Bar	7.5kw 5.5kw 4.0kw 3.0kw	200~400	65.3	3"
TUL/TUR-70	15~31 t	12 Bar 9 Bar 5 Bar	11kw 7.5kw 5.5kw	200~400	128	3"
TUL/TUR-80	20~40 t	10 Bar 7 Bar 4 Bar	11kw 7.5kw 5.5kw	200~400	164	DN80
TUL/TUR-100	25~50 t	10 Bar 6 Bar 3 Bar	11kw 7.5kw 5.5kw	200~400	208	4" / DN100
TUL/TUR-125	31~62 t	10 Bar 7 Bar 4 Bar	15kw 11kw 7.5kw	200~400	260	5" / DN125

说 明：
 无极变速机：该结构为目前最常用的配备的形式，配备的是机械摩擦式无极调节器，利用手动调节的形式实现输出转速的无极调节，达到无极调节流量的效果。

Description:
 Continuously Variable Transmission, the structure is equipped with the most commonly, used form of mechanical friction stepless adjuster, the use of manual adjustment in the form of realization of the output speed stepless adjustment, to regulate flow of stepless effects.



转子泵变频器无极变速系列选型表
Frequency converter Continuously Variable
Transmission lobe pump Series selection table

50Hz/60Hz
N--100 ~ 1000Min

型号 Model	流量 Flow	压力 Pressure	电机功率 Motor Power	建议转速 (Min-1) Recommend rotate speed	每100转排 量(升) Flow per 100 Rotates	进/出口规格 Inlet & Outlet Size
TUL/TUR-20	0.6~3 t	12 Bar 9 Bar 5 Bar	1.5kw 1.1kw 0.75kw	100~450	9.96	1" / DN25
TUL/TUR-23	1.1~5 t	12 Bar 9 Bar 5 Bar	3.0kw 2.2kw 1.5kw	100~450	18.7	1.5" / DN40
TUL/TUR-25	1.5~7 t	10 Bar 7 Bar 4 Bar	4.0kw 3.0kw 2.2kw	100~450	25.6	2" / DN50
TUL/TUR-30	2.6~10 t	12 Bar 8 Bar 4 Bar	5.5kw 4.0KW 3.0kw	100~400	43.4	2" / DN50
TUL/TUR-35	3.25~13 t	10 Bar 7 Bar 3 Bar	5.5KW 4.0kw 3.0kw	100~400	54.3	2.5"
TUL/TUR-55	3.5~14 t	12 Bar 9 Bar 6 Bar 3 Bar	7.5kw 5.5kw 4.0kw 3.0kw	100~400	59.3	DN65
TUL/TUR-60	4~16 t	10 Bar 7 Bar 5 Bar 3 Bar	7.5kw 5.5kw 4.0kw 3.0kw	100~400	65.3	3"
TUL/TUR-70	7.5~31 t	12 Bar 9 Bar 5 Bar	11kw 7.5kw 5.5kw	100~400	128	3"
TUL/TUR-80	10~40 t	10 Bar 7 Bar 4 Bar	11kw 7.5kw 5.5kw	100~400	164	DN80
TUL/TUR-100	12.5~50 t	10 Bar 6 Bar 3 Bar	11kw 7.5kw 5.5kw	100~400	208	4" / DN100
TUL/TUR-125	15.5~62 t	10 Bar 7 Bar 4 Bar	15kw	100~400	260	5" / DN125
			11kw			
			7.5kw			

说 明：

变频电机变频器调速：该款转子泵配备的变频电机，利用变频器来调节电动机的频率来改变电机输出的转速，达到无极调节流量的效果，其调节转速和流量直观、精确。

Description:

Converter motor frequency adjustment: rotor pump which is equipped with variable frequency motor, using the frequency converter to adjust the motor to change the motor output speed, to regulate flow of stepless effects, its regulation and flow are intuitive and precise.



购买时须说明变频器配备
Please advise the type of reducer when ordering

转子泵定速比输出减速机系列选型表 Fixed Speed Output Reducer Lobe Pump Series Selection Table

50Hz/60Hz
N--50 ~ 800Min

型号 Model	流量 Flow	压力 Pressure	电机功率 Motor Power	建议转速 (Min-1) Recommend rotate speed	每100转排 量(升) Flow per 100 Rotates	进/出口规格 Inlet & Outlet Size
TUL/TUR-20	1.5 t	12 Bar 9 Bar 5 Bar	1.5kw 1.1kw 0.75kw	250	9.96	1" / DN25
TUL/TUR-23	2.8 t	12 Bar 9 Bar 5 Bar	3.0kw 2.2kw 1.5kw	250	18.7	1.5" / DN40
TUL/TUR-25	3.8 t	10 Bar 7 Bar 4 Bar	4.0kw 3.0kw 2.2kw	250	25.6	2" / DN50
TUL/TUR-30	6.5 t	12 Bar 8 Bar 4 Bar	5.5kw 4.0kw 3.0kw	250	43.4	2" / DN50
TUL/TUR-35	8.2 t	10 Bar 7 Bar 3 Bar	5.5kw 4.0kw 3.0kw	250	54.3	2.5"
TUL/TUR-55	8.9 t	12 Bar 9 Bar 6 Bar 3 Bar	7.5kw 5.5kw 4.0kw 3.0kw	250	59.3	DN65
TUL/TUR-60	9.8 t	10 Bar 7 Bar 5 Bar 3 Bar	7.5kw 5.5kw 4.0kw 3.0kw	250	65.3	3"
TUL/TUR-70	16 t	12 Bar 9 Bar 5 Bar	11kw 7.5kw 5.5kw	200	128	3"
TUL/TUR-80	20 t	10 Bar 7 Bar 4 Bar	11kw 7.5kw 5.5kw	200	164	DN80
TUL/TUR-100	25 t	10 Bar 6 Bar 3 Bar	11kw 7.5kw 5.5kw	200	208	4" / DN100
TUL/TUR-125	32 t	10 Bar 7 Bar 4 Bar	15kw 11kw 7.5kw	200	260	5" / DN125

说 明:

定速比输出减速机：该结构的转子泵配备的定速输出变速器，其速度是不可调节的，输出流量也是一定的，也不可调节的。其结构特点，扭矩大，对于特别粘稠的物料的输送效果最好。

Description:

Fixed speed output reducer: the structure of the rotor pump is equipped with a fixed speed output transmission, its speed is not regulated, the output flow rate is certain, also can not be adjusted. Its structural characteristics is high torque, perfect for transfer of viscous material.



转子泵应用类型
Lobe Pump Applications Type



变频器转子泵
Frequency Converter Lobe Pump



移动式转子泵
Mobile Lobe Pump

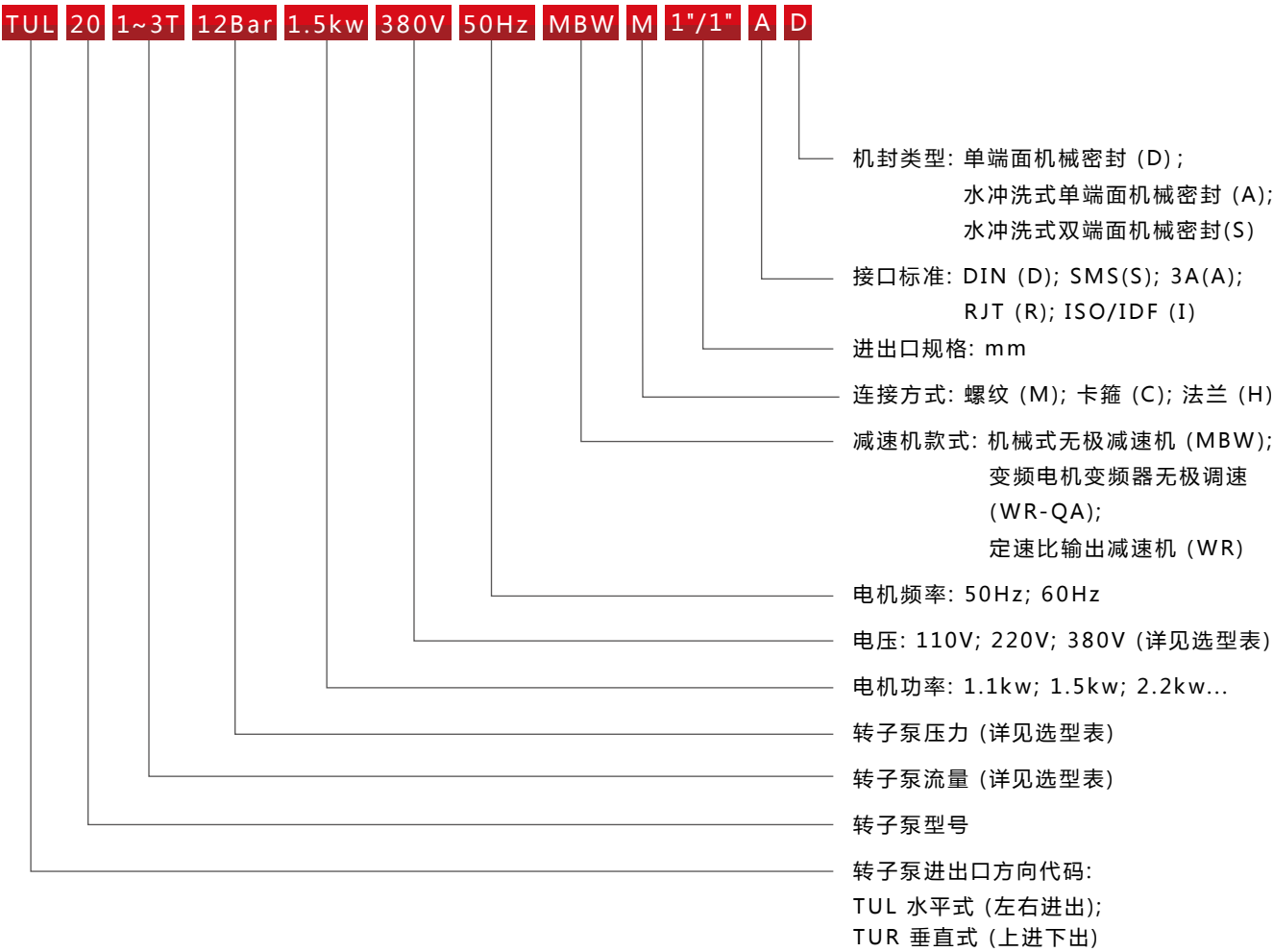


不锈钢防护罩转子泵
Protective Cover Lobe Pump



变频电机转子泵
Converter Motor Lobe Pump

转子泵型号说明
Model Instruction of Centrifugal Pump



例: TUL-20-1~3T-12Bar-1.5kw-380V-50Hz-MBW-M-1"/1"-A-D

ZXBL 卫生级自吸泵

ZXBL Sanitary Self-Priming Pump

应用

ZXBL 系列泵是特别设计用来处理含有一部分气体的流体物料。此类泵可广泛应用于食品，化工、制药及类似要求的应用场合。特别是在（CIP）就地清洗系统中作回流泵。

材质

所有过液部件、泵壳、泵盖和叶轮均由 AISI316L 不锈钢制造。电机护罩由 AISI304 不锈钢制造，密封圈材 EPDM 乙丙橡胶制造。

过液部分材质：AISI316L 不锈钢或 AISI304

其他部分材质：AISI304 不锈钢

外表面磨光：喷砂亚光

内表面：抛光

过液密封材料：EPDM 乙丙橡胶、硅橡胶

标准设计

卫生机械密封机械密封的静环由 AISI316L 钢内嵌碳化硅构成，动环则由石墨制成。ZXBL 泵有一个不锈钢的外罩保护马达，还有四个可调节的不锈钢支脚。

技术参数

最大入口压力：0.5Mpa

温度范围：-10°C 到 +140°C (EPDM)

噪声水平（1米处）：60 ~ 80db (A)

电压和频率：3 ~ 50Hz, 220~240V/

380 ~ 420V/660 ~ 690V, Δ/Y

电机型号：50Hz:4,5,5,7,5kw

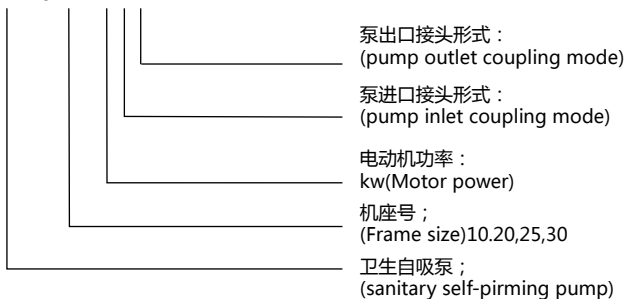
Aseptic Type Self-Priming Pump

Size Explanation

自吸泵型号说明

示例：(Example)

ZXBL-20T-4AB



Application

The ZXBL pump is a liquid-ring pump which is specially designed for pumping liquids containing air or gas. The pump is used in food, chemical, pharmaceutical and similar industries. The pump can be used for CIP-return.

Materials

All product wetted parts, pump casing cover and impeller are made of acid-resistant steel AISI316L. Motor shroud is made of stainless steel AISI304. Seals are made of EPDM rubber.

product wetted parts: stainless steel AISI304 or AISI 316L

Parts: Stainless steel AISI304

Outside surface: semi bright

Inside Surface: Bright

Product wetted seals: EPDM rubber

Standard Design

Sanitary mechanical shaft seal

Mechanical single seal with stationary seal ring of acid-resistant steel AISI 316L with sealing surface in carbon and rotating seal rings of silicon carbide. The pump has a stainless steel shroud for protection of the motor, and the complete unit is supported on four adjustable stainless steel legs.

Technical Data

Max. Inlet pressure: 0.5Mpa

Temperature range: -10°C to +140°C EPDM

Noise level (at 1m): 60~80dB(A)

Voltage and frequency: 3~50Hz, 220~240V

380~420/660~690V, Δ/Y

Motor sizes: 50Hz: 4, 5, 5, 7, 5kw

A : ISO 卡箍接头
(ISO Clamp)

B : ISO 螺纹活接头
(ISO Male)

C : DIN 螺纹活接头
(DIN Male)

D : SMS 螺纹活接头
(SMS Male)

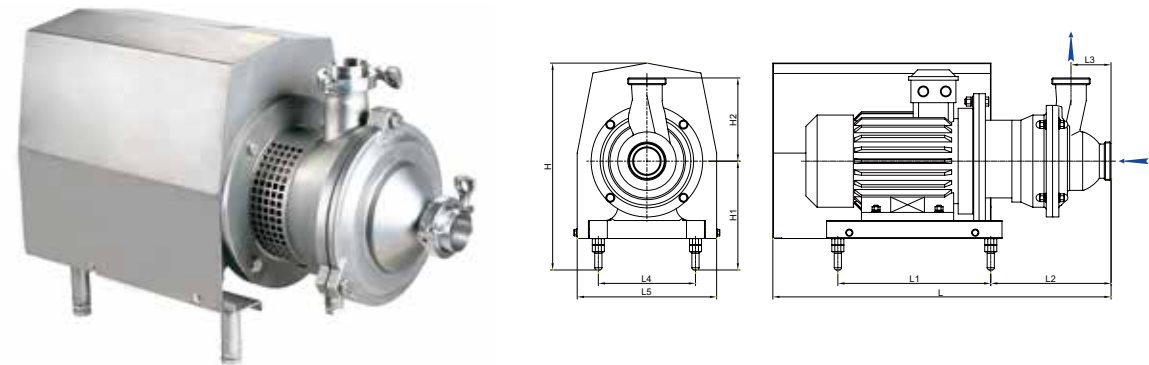
E : BS 螺纹活接头
(BS Male)

F : 法兰连接
(Flange coupling)

性能曲线
Performance Curve

介质：20℃清水 误差：±5% Medium :20℃ clean water Error:±5%	转速：1450 RPM 频率：50Hz Rotating Speed :1450 RPM Frequency: 50Hz	进口通经：Φ 51~Φ 63.5 出口通经：Φ 51 InletDiameter:Φ 51~Φ 63.5 OutletDiameter: Φ 51	吸程：8M Suction Lift:8M
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选择电动机功率时需留有安全裕量：Safety tolerance should be reserved when selecting moter power



ZXB-20 技术参数说明 (Technical Data)

尺寸 Size	电机功率 Motor Power		
	4Kw	5.5Kw	7.5Kw
A	210	245	245
B	280	320	320
C	225	245	245
E	120	120	120
F	90	100	100
H min	200	220	220
H max	240	260	260
K	210	220	220
T	160	135	135
W	262	312	312
Z	120	140	140
重量 (kg) Weight	76	96	108

尺寸 Size	ISO 卡箍 Clamp	ISO 活接头 Male	DIN 活接头 Male	SMS 活接头 Male	Bs 活接头 Male	DIN 法兰 Flange
D1	51	51	51	76.1	63.5	DN80
U1	21.5	21.5	21.5	24	21.5	24
D2	51	51	51	51	51	51
U2	21.5	21.5	21.5	24	21.5	24

