



国家高新技术企业 浙江省著名商标



High purity pumps

高洁净泵



东正一直致力于技术革新
是您值得信赖的事业伙伴
**Donjoy has been committed to
technical innovation, is your trustworthy
business partner!**

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responsibility and economic compensation.

温州空港新区总部生产基地 Wenzhou airport economic zone production base



占地面积约29000m²，总投资约1.2亿RMB，约2000万USD。

Covering an area of 29000 m², with total investment after construction is expected to 120 million yuan, about 20 million USD.

领先源于创新 创新源于专业

东正的专业与品质的邂逅源于创新的精神

东正创立于1993年，注册资本6088万(约1000万USD)，是一家专注于高精度PID阀门定位器，阀门控制单元，阀门位置反馈器、智能自控阀、比例调节阀、过程控制阀、高洁净泵、均质混合泵、清洗技术、压力容器和管道安全控制技术、高洁净管材和管道配件，集研发、生产与销售为一体的国家高新技术企业。产品用途涉及行业和领域有生物制药、食品饮料、酿酒、精细化工等工业领域。东正领先的技术和持续创新解决方案，对满足全球，尤其是新兴市场不断增长生物制药和食品饮料行业的需求起到了积极作用。

东正制造的产品母材料、加工技术、焊接技术、表面处理等技术指标均已达到国际领先水平。且符合ASME BPE、EHEDG、FDA、3A等一系列国际标准和规范要求。先后通过了由德国 TÜV 机构实施的欧盟承压设备指令(PED-97/23/EC)和(MD-06/42/EC)认证；美国 3A机构实施的3-A卫生标准认证；中国安全阀特种制造设备(TS)许可证和中国质量认证中心CQC ISO9001:2015 质量管理体系认证等多项国际权威认证。

东正凭借领先的技术、优异的品质和完善的售后服务体系，公司荣获为《国家高新技术企业》，《浙江省著名商标》、《科技型企业》、《创新型企业》、《专利示范企业》、《研发中心企业》，《守合同重信用AAA企业》等众多荣誉称号。





Leading from innovation, innovation from the professionalism! Donjoy's professionalism and quality come from the spirit of innovation!

Donjoy was founded in 1993, with registered capital RMB 60.88 million (about 10million USD) We focus on developing high-precision PID valve positioner, Valve Control unit, Valve Position feedback device, intelligent automatic control valve, proportional valve, process control valve, high purity pump, homogeneous mixing pump, cleaning technology, pressure vessel, pipeline safety control technology, high clean pipe fitting&pipeline accessories and integrating r&d, production and sales as an integrated national high-tech enterprises. Donjoy's products are widely used in bio-pharmaceutical, food and beverage, wine, fine chemicals and other industrial fields. Donjoy's leading technology and innovation solutions meets growing demand in the industry of bio-pharmaceutical, food and beverage from the whole world, special emerging market.

Raw material, processing technology, welding technology, surface treatment and other technology from Donjoy have achieved advanced level in international market. It also complies with a series of international standards and specifications such as ASME BPE, EHEDG, FDA and 3A , It has passed the EU Pressure Equipment Directive (PED-97/23/EC) and (MD-06/42/EC) issued by the German TÜV organization; the 3-A health standard certification issued by the 3A organization; China Safety Valve Special Manufacturing Equipment (TS) License , China Quality Certification Center (CQC) and Quality Management System Certification (ISO9001:2015) and many other international authoritative certifications.

With advanced technology, excellent quality and perfect after-sales service system, Donjoy was awarded as National High-tech Enterprise, Provincial Famous Trademark, Science and Technology Enterprise, Innovative Enterprise, Patent Demonstration Enterprise, R & D Center Enterprise, AAA Credit Enterprise and many other honorary.



全面的创新技术能力
为您带来创造性的解决方案



Comprehensive innovation technology, capabilities Bring you creative solutions

东正拥有诸多领先的产品技术，如各种比例调节阀、过程自控阀、生物制药隔膜阀、防混双座阀、压力容器和管道安全控制技术、清洗技术、高洁净转子泵、螺杆泵、离心泵、自吸泵、均质乳化泵、均质混合泵、卫生管件和无菌管件等.....

Donjoy owes many leading technology products, such as various proportioning regulating valve, process automatic control valve, pharmaceutical diaphragm valve, mixed double seat valve, pressure vessel and pipeline safety control technology, clean technology, high cleanliness rotor pump, screw pump, centrifugal pump, self-priming pump, homogeneous emulsion pump, homogeneous mixing pump, sanitary fittings, aseptic pipe fittings and so on.



企业的成功源于创新。东正的成功基于创始人“开拓创新、追求卓越”的创新精神，1994年东正开发了第一只高洁净的蝶阀，这只蝶阀是东正的起始点。

控制器的研发成就完美的过程自动控制，2004年东正成功研发了技术领先的阀门定位器、阀门控制单元。

高洁净泵的研发确保物料输送的洁净，2006年东正成功研发了高精度的转子泵、离心泵、混合泵、自吸泵。

我们一直走在行业与时代的前沿，把不断革新、日新月异的市场发展和客户需求作为自身最大的挑战。东正有自己的独立的思维和视野，始终保持领先致力于产品在新经济领域中的开发和应用。未来我们将一如既往的坚持以技术创新、以顾客为导向走向新的成功。



Success of an enterprise stems from innovation. Donjoy's success is based on the founder's innovative spirit of "pioneering innovation and pursuing excellence". In 1994, Donjoy developed the first highly purity butterfly valve, which was the starting point of Donjoy.

Research and development of the controller achieves perfect automatic process control. In 2004, Donjoy has successfully developed advanced valve positioner and valve control unit.

Research and development of high purity pump to ensure the purity of medium transportation. In 2006, Donjoy has successfully developed high precision lobe pump, centrifugal pump, mixing pump and self-priming pump.

We are always at the forefront of the industry and times, taking the continuous innovation of technology, rapid market development and customer demand as our biggest challenge. Donjoy has its own independent thought and horizons, and always maintains a leading position in the development and application of products in the new economic field. In future, we will continue to adhere to technological innovation and customer-oriented towards new success.



精益加工车间 Lean processing workshop



东正以科学技术领先为第一生产力，也是企业核心竞争力。只有不断投入核心技术研发和创新，不断追求卓越、精益求精、以先进生产设备，严格的质量管理体系，严谨的检测流程、保证每款产品的优良性能。

Donjoy takes leading in science and technology as the first productivity as well as the core competitiveness of the enterprise. With continuous investment in core technology research, development and innovation; constant pursuit of prominence and excellence; advanced production equipment; strict quality management system; and rigorous testing process, we ensure excellent quality and performance of every product.



机器人生产线 Robot production line

装配车间 Assembly workshop



荣誉与资质 Honor and qualification

| | |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>3A</p> <p>东正是美国3A认证组织的成员，3A是一个自愿组织，致力于维护公共卫生和奶制品产品质量通过独特的行业监管程序的设备，用于处理乳制品的卫生标准3-A。 Donjoy is a member of US 3A Certification Organization, 3A is a voluntary organization dedicated to maintaining the quality of public health and dairy products through a unique industry regulatory process for the treatment of dairy product hygiene standards 3-A.</p> <ul style="list-style-type: none"> ◆54-02 (Diaphragm-Type Valves)-NUMBER: 1580-隔膜阀 ◆02-11 (Centrifugal and Positive Rotary Pumps) NUMBER: 1579-高洁净泵 ◆85-03 (Double-Seat Mixproof Valves) NUMBER: 1787-双座防混阀 ◆64-00 (Pressure Reducing and Back Pressure Regulating Valves) NUMBER: 1784-恒压阀&调节阀 ◆53-06 (Compression-Type Valves) -NUMBER: 1782-单座阀(换向阀) ◆68-00 (Ball-Type Valves) NUMBER: 1785-球阀 ◆55-02 (Boot Seal-Type Valves) NUMBER: 1783-无菌取样阀 ◆84-02 (Personnel Access Ports for Wet Applications) NUMBER: 1786-人孔 ◆63-03 (Sanitary Fittings) NUMBER: 1581-卫生管件 |
|  | <p>PED/97/23/EC&MD/06/42/EC</p> <p>由德国TÜV机构实施的欧盟承压设备安全指令 (PED-97/23/EC)，机械安全指令MD-06/42/EC。 EU Pressure Equipment Safety Directive (PED-97/23/EC), Machinery Safety Directive MD-06/42/EC, implemented by TÜV, Germany. ◆MD/06/42/EC NUMBER: 705201402401-00 - LOBE PUMP转子泵 ◆MD/06/42/EC NUMBER: 705201616101-00 - Centrifugal pump 离心泵 ◆PED/97/23/EC NUMBER: DGR - 0036-QS-1153-14-Valves 阀门系列</p> |
|  | <p>安全阀特种制造许可证(TS) Safety valve special manufacturing license</p> <p>东正通过了安全阀特种设备制造许可证，目前是国内首家通过“高洁净安全阀特种制造许可证”的企业(安全附件及安全保护装置)。 ◆其证书编号：TSF 733008-2019 Donjoy has passed the safety valve special equipment manufacturing license. Recently, is the first enterprise in China to pass the "Special Manufacturing License for High Clean Safety Valves" (safety accessories and safety protection devices). ◆Certificate number: TSF 733008-2019</p> |
|  | <p>FDA.177.2600</p> <p>东正制造的高洁净阀门和泵以及流体设备等，与物料接触密封圈全部通过或符合美国食品和药品管理局和联邦法规第21条即，CRF 21 FDA177.2600和FDA177.1550认证，其涵盖：EPDM VITON (FPM) SILICON HNBR 等橡胶和PTFE 塑料材料。 ◆符合美国 3-A-18-03-CLASS - II The seals of Donjoy's high-cleaning valves, pumps and fluid equipment that contact with material, all pass or comply with the US Food and Drug Administration and Federal Regulations issue 21, i.e. CRF 21 FDA177.2600 and FDA177.1550 certification. The seals cover : EPDM, VITON (FPM), SILICON, HNBR and other rubber & PTFE plastic material. ◆Meets US 3-A-18-03-CLASS - II</p> |
|  | <p>ISO-9001-2015</p> <p>东正通过中国质量认证中心CQC.ISO9001-2015/GB/T19001-2015企业质量管理体系认证。 ◆其证书编号：00117Q38464R4M/3302。 Donjoy passed the China Quality Certification Center CQC, ISO9001-2015/GB/T19001-2015 enterprise quality management system certification. ◆Its certificate number is 00117Q38464R4M/3302.</p> |
|  | <p>卫生许可证 Hygiene License</p> <p>东正通过了省卫生厅卫生阀门，卫生管件等检验且获得了其颁发的证书。 ◆其批准文号：第0056号 Donjoy passed the inspection of sanitary valves and sanitary fittings of the Provincial Health Department and obtained the certificate issued by it. ◆Its approval number: No. 0056</p> |
|  | <p>国家高新技术企业 National High-Tech Enterprise</p> <p>东正，经过20余年发展和技术研发，2011年被评定为国家高新技术企业。 Donjoy, after more than 20 years of development and technology research & development, was assessed as a national high-tech enterprise in 2011.</p> |
|  | <p>浙江省著名商标 Zhejiang province famous trademark</p> <p>东正，凭借先进的技术、优异的品质和完善的售后服务体系，2012年被浙江省工商局评定为浙江省著名商标。 Donjoy, by virtue of advanced technology, excellent quality and perfect after-sales service system, was recognized as a famous trademark of Zhejiang Province by the Industrial and Commercial Bureau of Zhejiang Province in 2012.</p> |

东正不但拥有以上认证和荣誉，且被评定为省科技型、创新型、专利示范、研发中心、重合同守信用等诸多荣誉。并拥有100多项专利技术。

Donjoy not only owes above certification and honors, but also has been evaluated as provincial science and technology type, innovation, patent demonstration, research and development center, contract keeping and other honors. It also owes more than 100 patented technologies.

荣誉与资质 Honor and qualification

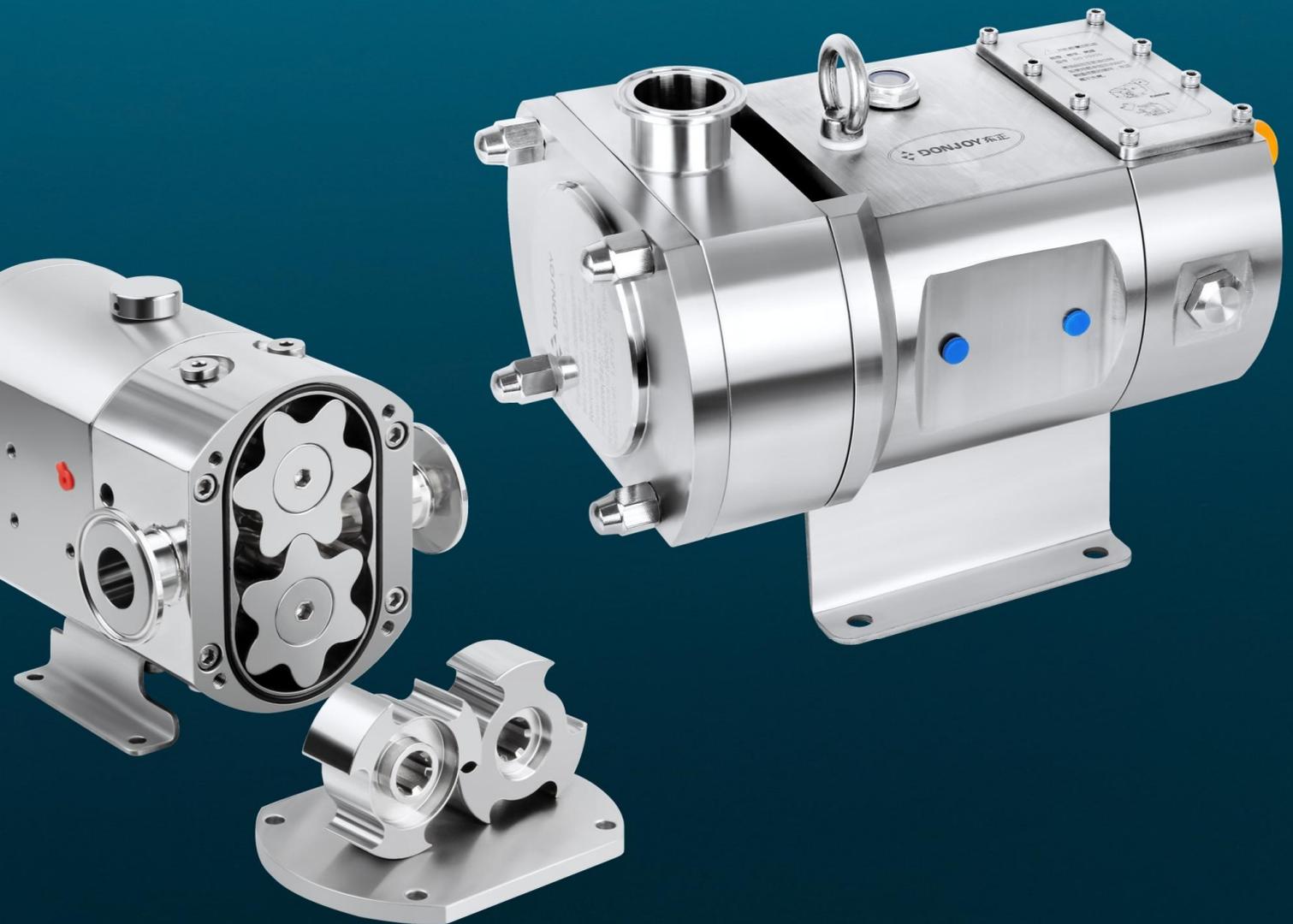


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Lobe pump series

转子泵系列



工艺管道连接对泵使用的影响

The effect of pipe connection on pump usage

ABB
IE2 IEC 60034-1

3-Motor

| No. | V | Hz | kw | r/min | Ins. cl | F | IP55 |
|-----|------|----|-----|-------|---------|------|------|
| | | | | | A | cosφ | Duty |
| | 230△ | 50 | 1.5 | 1441 | 6.11 | 0.74 | S1 |
| | 400Y | 50 | 1.5 | 1441 | 3.53 | 0.74 | S1 |
| | 230△ | 50 | 1.5 | 1435 | 6.10 | 0.78 | S1 |
| | 380Y | 50 | 1.5 | 1435 | 3.53 | 0.78 | S1 |
| | 460Y | 60 | 1.5 | 1741 | 3.22 | 0.70 | S1 |
| | 440Y | 60 | 1.5 | 1735 | 3.17 | 0.74 | S1 |

50Hz:IE2-B2.8(100%)
60Hz:IE2-B4.0(100%)
Prod.code 3GBA092510-ASCCN
6205-2Z/C3 6024-2Z/C3 23 kg

说明：铭牌图片仅供格式参考，最终数据以实际铭牌为准。
Remark: The format of the rating plate is for reference only, the final figure will be subject to the actual rating plate.

宽电压电机 Wide Voltage Motor

| 功率 Power(KW) | 电压范围 Voltage | 功率 Power(KW) | 电压范围 Voltage |
|--------------|----------------|--------------|----------------|
| 0.55 | 210V-230V/50HZ | 4.0-5.5 | 360V-400V/50HZ |
| 0.75 | | 7.5-11 | 630V-690V/50HZ |
| 1.1-1.5 | 420V-460V/60HZ | 15-18.5 | 420V-460V/60HZ |
| 2.2-3.0 | | 22-30 | |

注意：电机采用 IEC EN IE2 能效等级，PTC 热敏电阻。（相当于中国二级能效）
Note: The motor adopts IEC EN IE2 energy efficiency class, PTC thermistor. (Corresponding to China level two energy efficiency)
注意：其他电机功率、电压、频率等，请联系东正。
Note: Other motor power, voltage, frequency, etc., please contact DONJOY

O型圈配置 O-ring Configuration

我们所采用密封橡胶都符合FDA 177.2600; 3-A-18-03; Class II; USP Class VI Chapter 88 GB 4806.11; 等各种卫生高洁净的要求。

EPDM=标准

适用范围：温度 -10°C到130°C; PH值约 5-9, 可耐受各种卫生领域介质及工业化学品，成本低(推荐)。

FKM(Viton)=选项

适用范围：温度 -10°C到 150°C; 可耐受各种卫生领域介质及工业化学品、油品等各种介质。

FFKM=选项

适用范围：温度 -30°C到 250°C; 可耐受各种卫生领域介质及工业化学品、油品等各种介质，几乎可以涵盖所有介质，成本较高。

HNBR=选项

适用范围：温度 -10°C到 150°C; 可耐受各种卫生领域介质及工业油品等各种介质，特别适用于油品。

The sealing rubbers we use are in compliance with hygienic and high purity requirements, such as FDA 177.2600; 3-A-18-03; Class II; USP Class VI Chapter 88 GB 4806.11 and so on.

EPDM=Standard

Scope of application: Temperature -10 °C to 130°C; PH value about 5-9, can tolerate with various media in the health field and industrial chemicals, low cost (recommended)

FKM(Viton)=Option

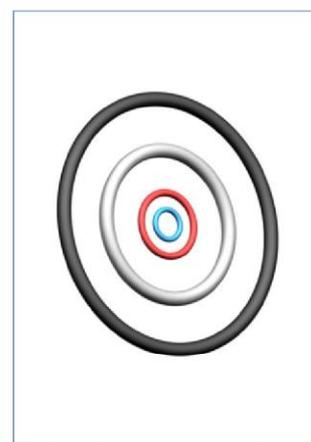
Scope of application: Temperature -10°C to 150 °C; can tolerate with various media in the health field, industrial chemicals, oils and so on.

FFKM=Option

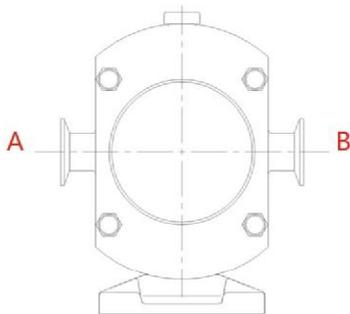
Scope of application: Temperature -30°C to 250°C; can tolerate with various media in the health field, industrial chemicals, oils, etc., can cover almost all media, higher cost

HNBR=Option

Scope of application: Temperature -10 °C to 150°C; can tolerate with various media in the health field, industrial oils, etc., especially suitable for oil products.



泵旋转方向
Pump rotation direction



高位输入轴
High input shaft



顺时针旋转
Clockwise rotation



高位输入轴
High input shaft

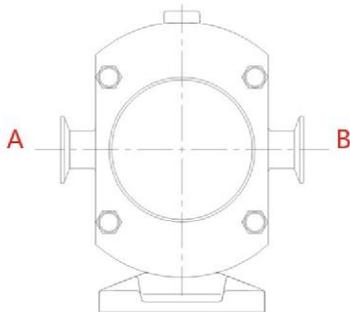
顺时针旋转时
when clockwise rotation
B口=进口inlet, A口=出口outlet;

逆时针旋转时
when anticlockwise rotation
A口=进口inlet; B口=出口outlet;
(As shown in (D-04))

逆时针旋转
Anticlockwise rotation



低位输入轴
Low input shaft



顺时针旋转
Clockwise rotation



低位输入轴
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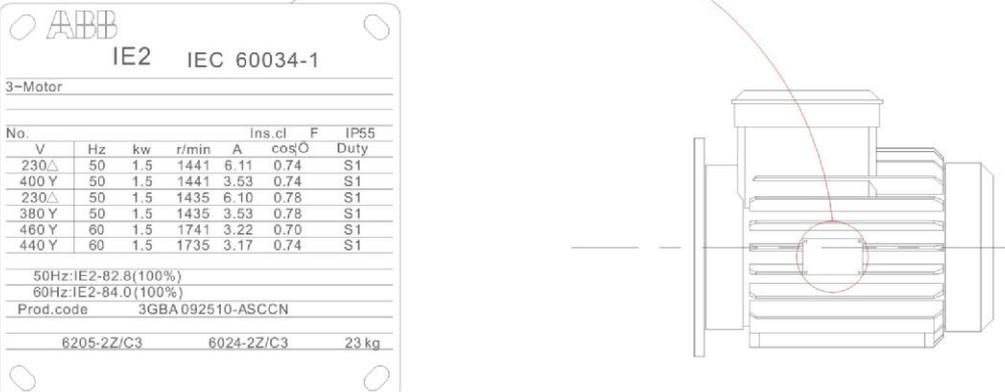


ABB
IE2 IEC 60034-1

3-Motor

| No. | V | Hz | kw | r/min | Ins. cl | F | IP55 |
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The sealing rubbers we use are in compliance with hygienic and high purity requirements, such as FDA 177.2600; 3-A-18-03; Class II; USP Class VI Chapter 88 GB 4806.11 and so on.

EPDM=Standard

Scope of application: Temperature -10 °C to 130°C; PH value about 5-9, can tolerate with various media in the health field and industrial chemicals, low cost (recommended)

FKM(Viton)=Option

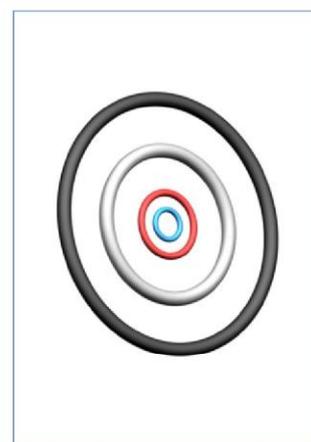
Scope of application: Temperature -10°C to 150 °C; can tolerate with various media in the health field, industrial chemicals, oils and so on.

FFKM=Option

Scope of application: Temperature -30°C to 250°C; can tolerate with various media in the health field, industrial chemicals, oils, etc., can cover almost all media, higher cost

HNBR=Option

Scope of application: Temperature -10 °C to 150°C; can tolerate with various media in the health field, industrial oils, etc., especially suitable for oil products.



MINI STU-R/L-10 转子泵

MINI STU-R/L-10 lobe pump

双向可逆、高粘稠、低粘稠、低脉冲、液体输送的柔性解决方案
Flexible solution for two-direction reversible, high viscosity, low viscosity, low pulse, liquid transportation



MINI STU-10 转子泵是一款迷你型位移凸轮转子泵，它对于高粘度和低粘度的物料输送具有广泛的应用。该泵具有体积小，噪音低、转速范围广、维护简单且经济，全不锈钢外壳(包含齿轮箱)，内部高洁净等设计优点，全不锈钢外观设计可以满足外部冲洗的需求。该泵主要应用于如生物制药、精细化工、啤酒饮料、实验室等各种卫生要求工况环境，也可以应用到各种工业流体输送用途。

MINI STU-10 Lobe Pump is a miniature displacement cam rotor pump, widely applied for transportation of high viscosity and low viscosity medium. Design features of the pump are small size, low noise, wide speed range, simple in maintenance and economical, whole stainless steel exterior, high purity interior and so on. Whole stainless steel exterior can satisfy the requirement of external flushing. The pump is mainly applied for biopharmaceuticals, fine chemicals, beer beverages, laboratories, etc. It is not only applied for various hygienic requirements, but also can be applied to various industrial fluid transportation applications.

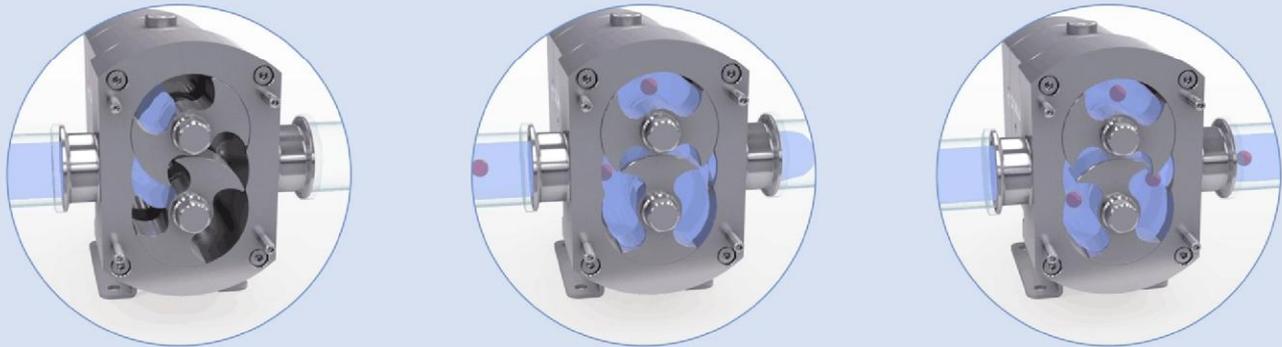


技术参数 Technical Specifications

| | |
|------------------------|-----------------------------------------------------------------------|
| 最大流量 Max flow | 3000L/h |
| 最大压力 Max pressure | 12bar |
| 转速范围 Speed range | 10-1450 R.P.M |
| 工作温度 Temperature | -40°C to 150°C |
| 表面处理 Surface treatment | Ra<0.6 μm; Ra<0.4 μm |
| 材质 Material | 100%不锈钢, 介质接触部分316L / 100% stainless steel, product contact part 316L |
| 认证 Certification | 3-A-02-11 No.1759; FDA 177.2600; CE-MD/06-42 No.705201402401-00 |

MINI STU-R/L-10 技术特性选型表

MINI STU-R/L-10 lobe pump technical characteristics selection table



| 型号 Model | 每转排量 Flow per rotation (L/r) | 最高转速 Max speed (RPM/min) | 最高转速 流量 Max flow rate (L/h) | 建议 转速范围 Suggested speed range (RPM) | 建议转速 范围流量 Suggested range flow (L/h) | 推荐转速 Recommended speed (RPM) | 推荐转速 流量 Recommended flow (L/h) | 进出口 尺寸 Inlet/Outlet size | 最大压力 Max pressure (bar) | 重量 Weight (KG) |
|-------------|------------------------------------|--------------------------------|--------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------|----------------------------------|----------------------|
|-------------|------------------------------------|--------------------------------|--------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------|----------------------------------|----------------------|



三叶转子技术参数- 选型表 Technical parameters – Selection table for 3-leaves mini rotor pump

| | | | | | | | | | | | |
|-----------|-------|------|------|--------|-----|------|-----|------|-----------|----|------|
| STU/LR-10 | 0.035 | 1450 | 3045 | 50-700 | 105 | 1470 | 500 | 1050 | 1"-DN25 | 12 | 10.6 |
| | | | | | | | | | 3/4"-DN15 | | |

五叶转子技术参数 - 选型表 Technical parameters – Selection table for 5-leaves mini rotor pump

| | | | | | | | | | | | |
|-----------|-------|------|------|--------|----|------|-----|-----|-----------|----|------|
| STU/LR-10 | 0.030 | 1450 | 2610 | 50-700 | 90 | 1260 | 500 | 900 | 1"-DN25 | 12 | 10.6 |
| | | | | | | | | | 3/4"-DN15 | | |

典型的产品应用 Typical product application



食品与饮品 Food and Beverage

汤、炖肉、番茄酱、蔬菜、调味品、巧克力、脂肪和油、奶油馅料、啤酒厂、麦芽汁、软/果汁饮料。

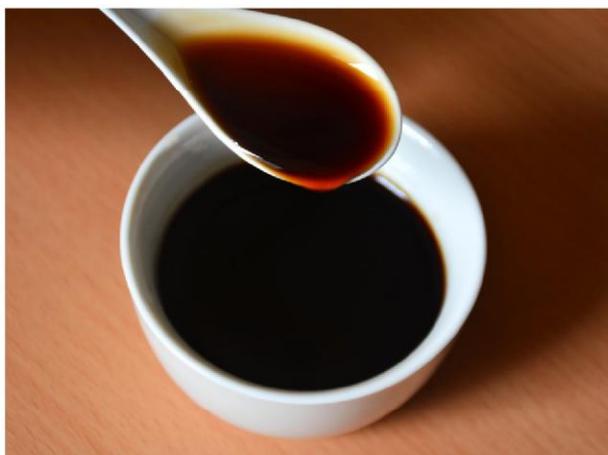
Soup, stew, ketchup, vegetables, condiments, chocolate, fat and oil, cream filling, brewery, wort, soft drink/fruit juice.



乳业 Dairy

奶油、牛奶、奶酪凝乳和乳清、干酪、酸奶。

Cream, milk, cheese curd and whey, cottage cheese, yogurt.



医药/化妆品 Medicine/Cosmetic

药膏、糖浆、提取物、浆液、面霜和乳液、头发定型凝胶和液体。

Ointment, Syrup, Extractive, Serum, Face Creams & Lotions, Hair Styling Gels & Liquids, Dyes and alcohols, Soap , Cosmetics.



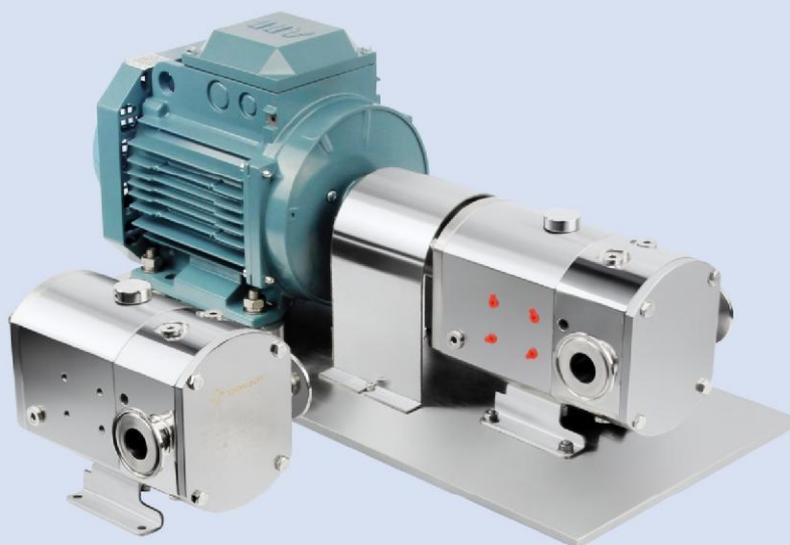
化工/工业 Chemical/Industrial

溶剂、油漆、燃料、树脂、聚合物和淤泥、石油和润滑油。

Solvents, paints, fuels, resins, polymers & sludges, oil & lubricants.

MINI STU-R/L-10 技术特性选型表

MINI STU-R/L-10 lobe pump technical characteristics selection table



| 型号 Model | 压力 Pressure (bar) | 电机功率 Motor power (kw) | 进出口 尺寸 Inlet/Outlet size | 每转排量 Flow per rotation (L) | 建议 转速范围 Suggested speed range (RPM) | 建议转速 范围流量 Suggested range flow (L/h) | 推荐转速 Recommended speed (RPM) | 推荐转速 流量 Recommended flow (L/h) | 净重量 NW (KG) |
|-------------|-------------------------|--------------------------------|-----------------------------------|-------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------|--------------------------------------------|-------------------|
|-------------|-------------------------|--------------------------------|-----------------------------------|-------------------------------------|-------------------------------------------------|--------------------------------------------------|---------------------------------------|--------------------------------------------|-------------------|



三叶转子技术参数- 选型表 Technical parameters – Selection table for 3-leaves mini rotor pump

| | | | | | | | | | | |
|------------|----|------|-----------|-------|--------|-----|------|-----|------|----|
| STU-R/L-10 | 2 | 0.75 | 1"-DN25 | 0.035 | 50-700 | 105 | 1470 | 500 | 1050 | 24 |
| | 3 | 1.5 | | | | | | | | 31 |
| | 5 | 2.2 | 3/4"-DN15 | | | | | | | 34 |
| | 10 | 3.0 | 43 | | | | | | | |

五叶转子技术参数- 选型表 Technical parameters – Selection table for 5-leaves mini rotor pump

| | | | | | | | | | | |
|------------|----|------|-----------|------|--------|----|------|-----|-----|----|
| STU-R/L-10 | 2 | 0.75 | 1"-DN25 | 0.03 | 50-700 | 90 | 1260 | 500 | 900 | 24 |
| | 3 | 1.5 | | | | | | | | 31 |
| | 5 | 2.2 | 3/4"-DN15 | | | | | | | 34 |
| | 10 | 3.0 | 43 | | | | | | | |

注意 Note:

1)建议转速: 是根据多年总结经验给出的建议值;

Suggested speed: It is the suggested value based on years of experience;

2)推荐转速: 是结合效率、寿命、噪音等综合后给出的值;

Recommended speed: It is the value given by considering efficiency, life, noise, etc.;

3)每转排量: 是指旋转一圈(360°)流量, 如指定转速可根据转速*每转排量=流量, 计算时注意单位(L)

Flow per rotation: refers to the flow of one rotation (360°). If speed is confirmed, flow = speed * flow per rotation. Pay attention to the unit, it is "L".

非常简单的维护、无需专用工具、专业人员 Very simple maintenance, no special tools required, no professionals required

卫生特点

- 具备 CIP清洗和SIP杀菌
- 与介质接触区域的轴是密封连接，无裸露螺丝；
- 所有配置均包含密封冲洗端口，可选配双机封密封；
- 全不锈钢设计包含齿轮箱，不仅内部洁净，外观也接近于无死角。

简单方便、安装、拆卸

- 轴与转子采用花键连接设计、安装、拆卸简单方便；
- 进出口双向可逆，改变电机旋转方向即可实现；
- 可在各种高、低粘度下使用该泵，而无需更换配置等；
- 进出口水平或垂直安装，更换底座即可实现；
- 三叶和六叶转子，可任意更换。

性能特点

- 压力高达：170Psi (12Bar)
- 转速范围：10~1450RPM
- 最高温度：150℃，最低温度-40℃
- 17-4PH材质大轴径设计，具有更高的刚性可减少振动并延长密封寿命。

Hygienic features

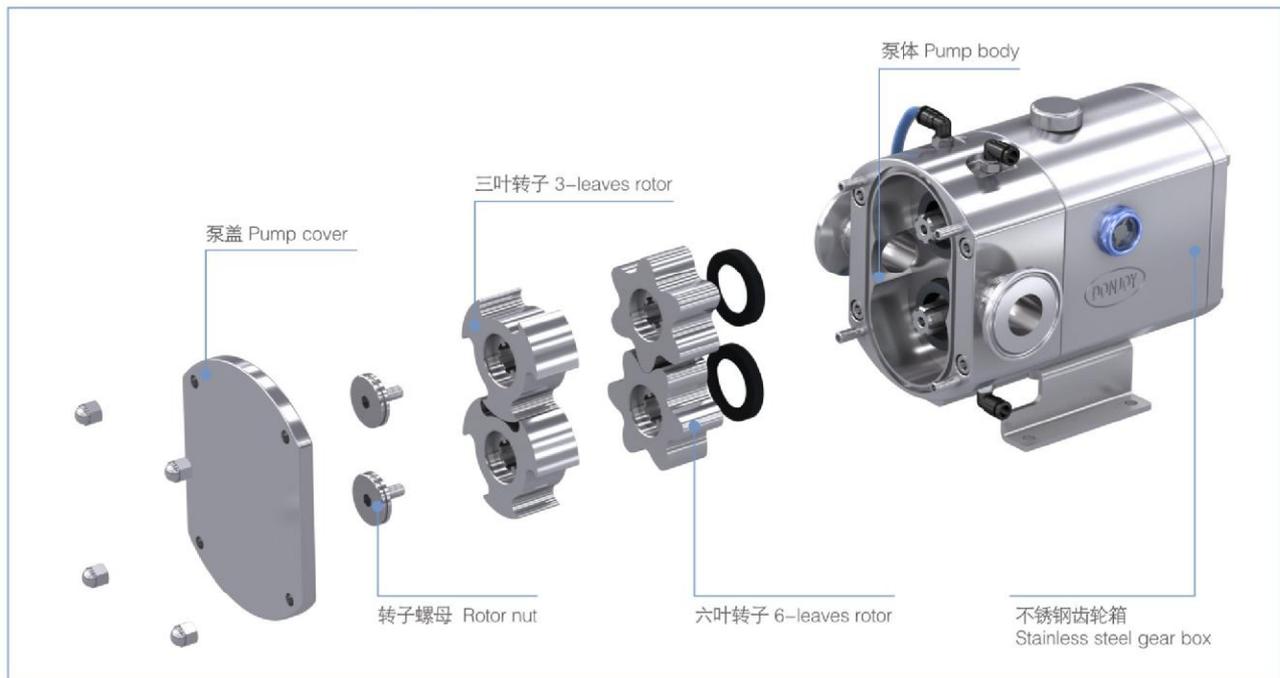
- CIP clean and SIP sterilization.
- Shaft contacting with medium is seal connecting, without exposed screw.
- All selections are with seal flush port, could be assembled with double mechanical seal.
- All parts are in stainless steel, including gear box, not only makes interior highly clean, but also makes appearance close to no dead band.

Simple installation and disassembly

- The shaft and rotor adopt spline connection design, simple installation and disassembly.
- Two-direction reversible, can be achieved just changing direction of motor rotation.
- Can be used for all kinds of high and low viscosity medium, without changing configuration.
- Outlet/Inlet could be horizontal or vertical, realized by changing base only.
- 3-leaves rotors and 6-leaves rotors could be replaced without changing configuration.

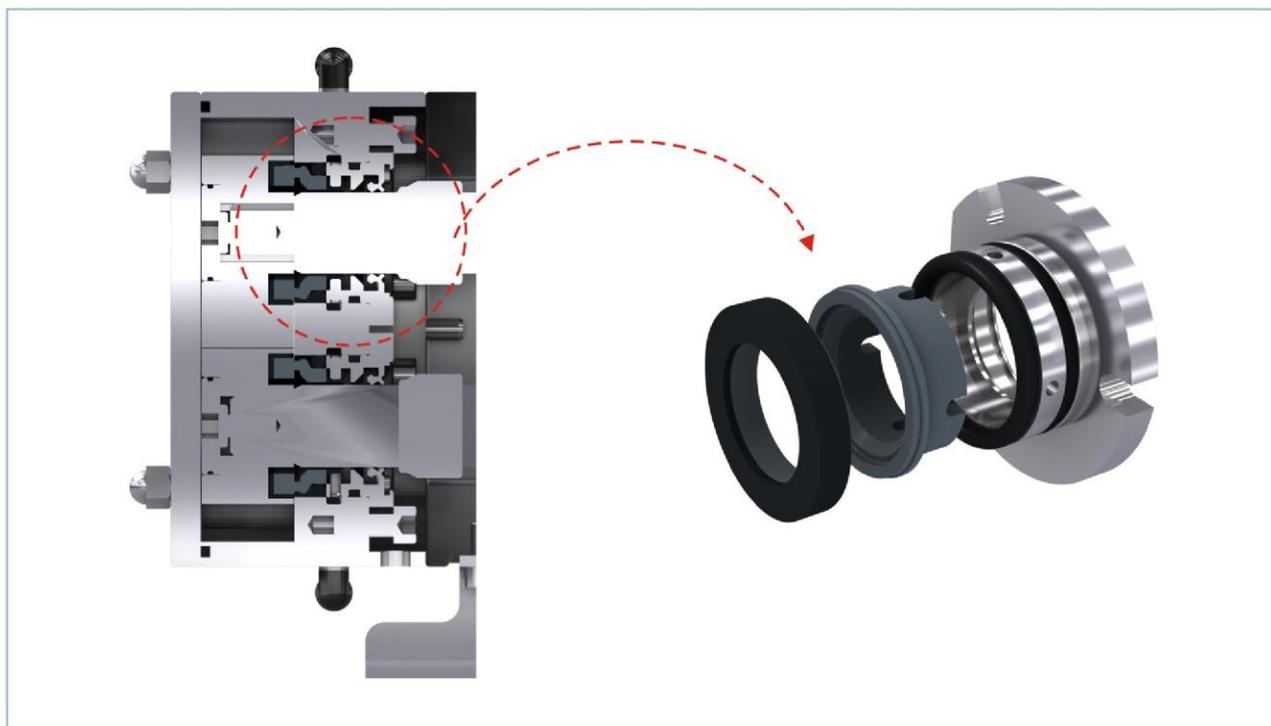
Performance characteristics

- Max pressure: 170Psi (12Bar)
- Speed range: 10~1450RPM
- Temperature range: -40℃~150℃
- Large shaft diameter 17-4PH, with higher rigidity, to reduce vibration and extend seal life.



MINI STU-10 转子泵机封设计

MINI STU-10 lobe pump mechanical seal design



机封配置 Mechanical seal configuration

● 单机封设计

Single mechanical seal

- 1) SIC/C/FKM
- 2) SIC/SIC/FKM
- 3) TC/TC/FKM

● 双机封设计

Double mechanical seal

- 1) SIC/C/FKM
- 2) SIC/SIC/FKM
- 3) TC/TC/FKM



宽电压电机 Wide Voltage Motor

| 功率 Power(KW) | 电压范围 Voltage | 功率 Power(KW) | 电压范围 Voltage |
|--------------|----------------|--------------|----------------|
| 0.55 | 210V-230V/50HZ | 4.0-5.5 | 360V-400V/50HZ |
| 0.75 | | 7.5-11 | 630V-690V/50HZ |
| 1.1-1.5 | 360V-400V/50HZ | 15-18.5 | 420V-460V/60HZ |
| 2.2-3.0 | 420V-460V/60HZ | 22-30 | |

注意：电机采用 IEC EN IE2 能效等级，PTC 热敏电阻。(相当于中国二级能效)

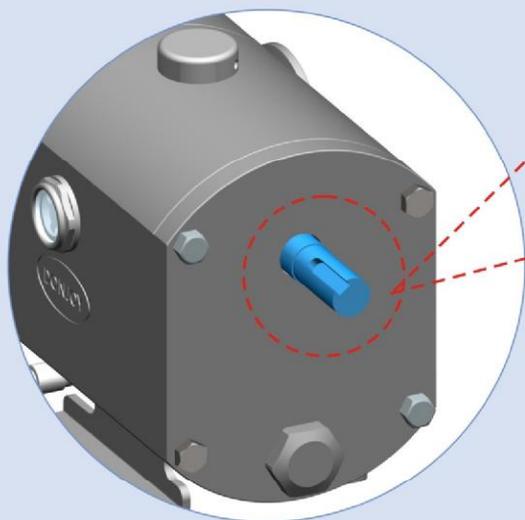
Note: The motor adopts IEC EN IE2 energy efficiency class, PTC thermistor. (Corresponding to China level two energy efficiency)

注意：其他电机功率、电压、频率等，请联系东正。

Note: Other motor power, voltage, frequency, etc., please contact DONJOY.

泵进口/出口连接标准

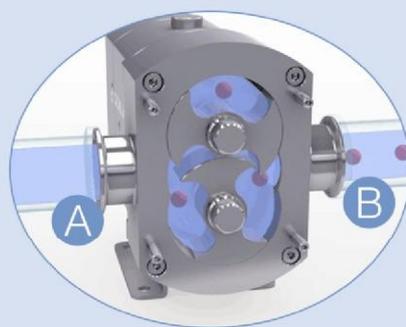
Pump inlet/outlet connection standard



双向可逆设计 Two-direction reversible design

顺时针旋转时“B口”为进口，“A”为出口。
When clockwise rotation, "B" is inlet, "A" is outlet.

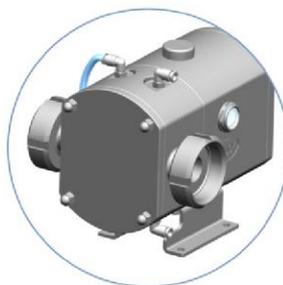
逆时针旋转时“A口”为进口，“B”为出口。
When counterclockwise rotation, "A" is inlet, "B" is outlet.



卡箍式 Clamp



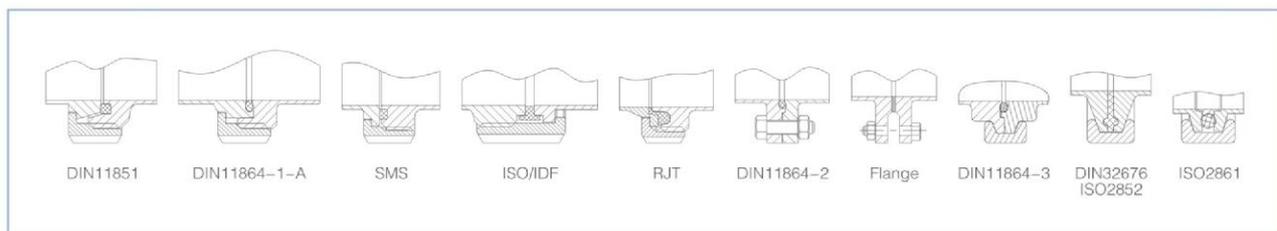
螺母式 Nut



无菌螺母式
Aseptic nut

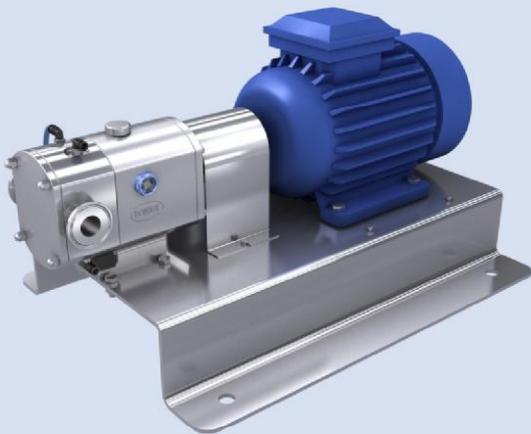


无菌法兰式
Aseptic flange



STU 转子泵型号说明

STU lobe pump model description



Example for lobe pump selection: (with motor)

迷你型转子泵选型(带有电机), 举例: STUL 10-02-M-DN25-D/1-3T-12bar/
1.5kw-380v-50Hz-WMB

表示STUL10转子泵-蝶型转子-进出口螺纹连接DN25-DIN标准/流量1-3T-压力12bar/
电机功率1.5kw-380v-50hz-机械无极变速

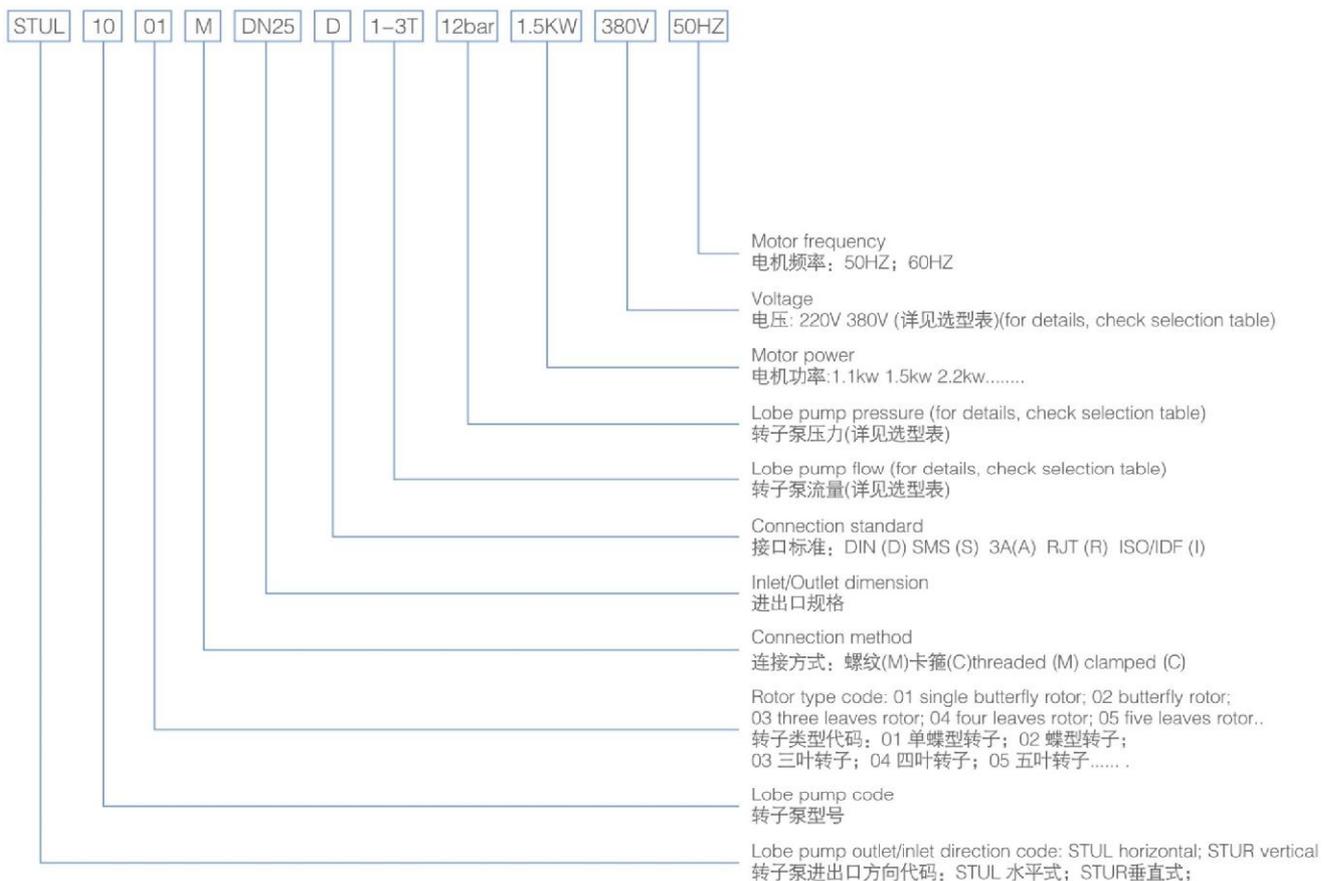
STUL10 lobe pump-butterfly rotor-DN25 threaded inlet/outlet-flow 1-3T-pressure
1.5kw-380v-50hz-mechanical stepless speed regulation

Example for lobe pump selection: (without motor)

迷你型转子泵选型(不带电机), 举例: STUL 10-02-M-DN25-D

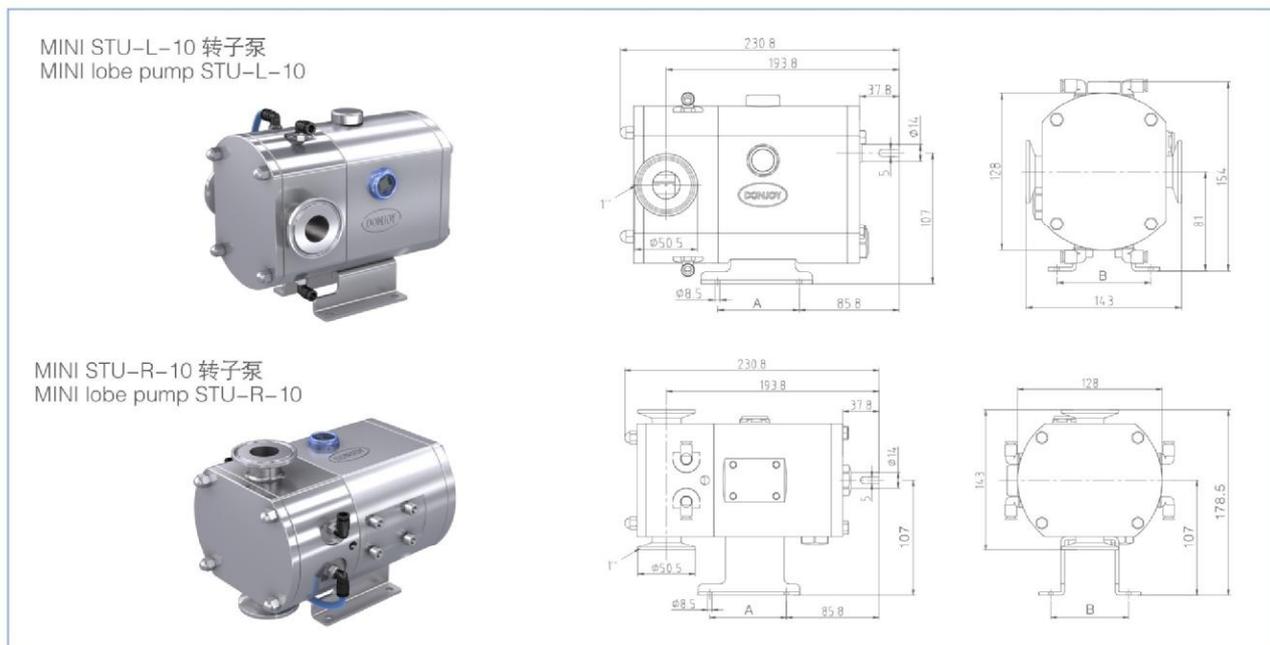
表示STUL10转子泵-蝶型转子-进出口螺纹连接DN25-DIN标准(不带电机)

Means STUL10 lobe pump-butterfly rotor-DN25 threaded inlet/outlet (without motor)



MINI STU-R/L-10 转子泵外形图

MINI STU-R/L-10 Lobe pump outline drawing



电机直连式 (带防护罩)
MINI STU-R/L-10 转子泵
MINI lobe pump STU-R/L-10
connect to motor directly
(with cover)

电机直连式 (不带防护罩)
MINI STU-R/L-10 转子泵
MINI lobe pump STU-R/L-10
connect to motor directly
(without cover)

| 型号 Model | 电机功率 Motor power | L | L2 | H | H1 | H2 |
|-------------|---------------------|-----|----|-----|-----|-----|
| STUL-10 | 0.75KW | 652 | 55 | 363 | 100 | 181 |
| | 1.1KW | 652 | 55 | 363 | 100 | 181 |
| | 1.5KW | 652 | 55 | 363 | 100 | 181 |
| | 2.2KW | 716 | 71 | 370 | 100 | 181 |
| | 3KW | 771 | 55 | 420 | 100 | 181 |
| STUR-10 | 0.75KW | 652 | 55 | 363 | 100 | 207 |
| | 1.1KW | 652 | 55 | 363 | 100 | 207 |
| | 1.5KW | 652 | 55 | 363 | 100 | 207 |
| | 2.2KW | 716 | 71 | 370 | 100 | 207 |
| | 3KW | 771 | 55 | 420 | 100 | 207 |

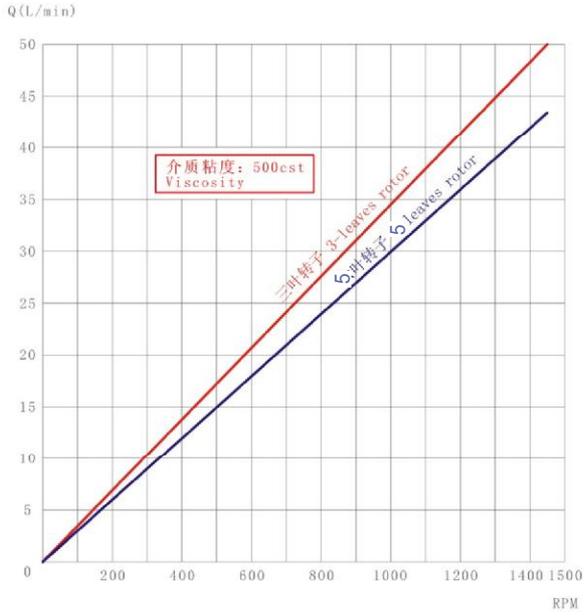
| 电机功率 Motor power | W | L1 | A | B | C | D |
|---------------------|-----|-----|-----|-----|-----|-----|
| 0.75KW | | | | | | |
| 1.1KW | 226 | 451 | 450 | 560 | 370 | 420 |
| 1.5KW | | | | | | |
| 2.2KW | 250 | 500 | 450 | 560 | 440 | 490 |
| 3.0KW | 290 | 571 | 450 | 560 | 440 | 490 |

| 电机功率 Motor power | A2 | H2 | H3 |
|---------------------|-----|-----|-----|
| 0.75KW | 591 | 234 | 107 |
| 1.1KW | 607 | 234 | 107 |
| 1.5KW | 633 | 247 | 107 |
| 2.2KW | 684 | 252 | 112 |
| 3.0KW | 735 | 301 | 132 |

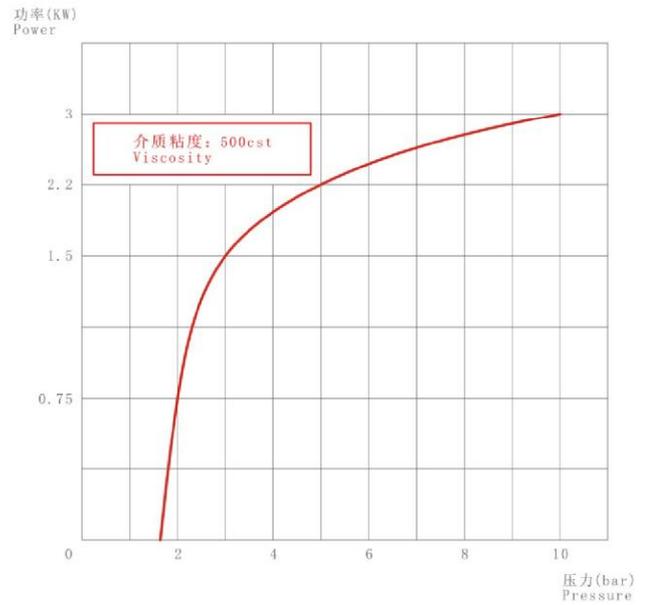
MINI STU-R/L-10 转子泵综合曲线图

MINI STU-R/L-10 Lobe pump comprehensive graph

STU-10-流量/转速曲线图
STU-10-Flow/Speed graph



STU-10-压力/功率曲线图
STU-10-Pressure/power graph



TU 系列转子泵 TU series lobe pump

双向可逆、高压、高低粘稠、
固体颗粒输送高洁净的解决方案
Solution for two-direction reversible, high pressure,
high and low viscosity, solid particles, high clean transportation



TU系列转子泵 TU series lobe pump

TU系列，是标准配置的转子泵，齿轮箱为铸铁，其余为不锈钢制造。
TU series is a standard rotor pump with cast iron gearbox. The other parts are made of stainless steel.



STU系列转子泵 STU series lobe pump

STU系列，是全不锈钢材质的转子泵，除去橡胶和机械密封及齿轮和轴承组件外，其余为全不锈钢材质，包含齿轮箱。
STU series is a whole stainless steel rotor pump. Excluding rubber, mechanical seal, gear & bearing assembly, the rest parts including gearbox are made of stainless steel.

TU 系列转子泵

TU series lobe pump

转子泵

DONJOY转子泵设计有多种配置，其中分为TU系列为标准配置，STU系列为全不锈钢配置，是一款正位移凸轮转子泵，严格按照美国3A-02-11卫生要求设计，非常适合食品加工，饮料、果汁、乳制品、化妆品、制药工业等各种高粘稠和低粘稠物料的输送，也可以输送含有固体颗粒物料，还可以应用在CIP和SIP系统上。该泵还具有其他容积泵所不具备的性能，如低脉冲、高压、进出口双向可逆、功能组合灵活。

应用范围请查阅典型应用表。

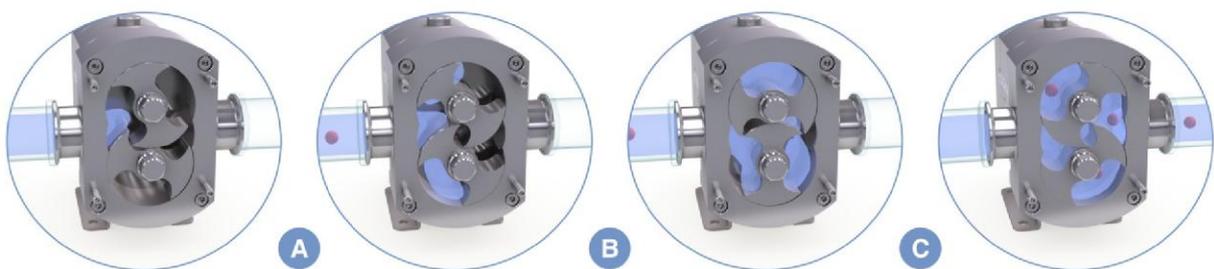
For application range, please check typical application sheet.

技术参数 Technical Specifications

| | |
|------------------------|-----------------------------------------------------------------|
| 最大流量 Max.flow | 90m ³ /h/395 GPM |
| 最高压力 Max.pressure | 15bar/220 Psi |
| 最高温度 Max.Temperature | 150°C/302° F |
| 最高转速 Max.rev | 750 rpm |
| 表面处理 Surface treatment | ≤ Ra0.8 μm, ≤ Ra0.6 μm, ≤ Ra0.4 μm |
| 材质 Material | 316L, 1.4404, ASME BPE 316L, 1.4435 NB2 Fe≤0.5% |
| 认证 Certification | 3-A-02-11 No.1759; FDA 177.2600; CE-MD/06-42 No.705201402401-00 |

工作原理图

转子泵是一种正位移排量的泵，左凸轮由驱动轴驱动，右凸轮安装在驱动轴上，通过齿轮驱动。两个凸轮同步转动彼此不会干涉。当泵工作时就可以移置出一定容量的溶液。下图显示了凸轮泵的工作原理。

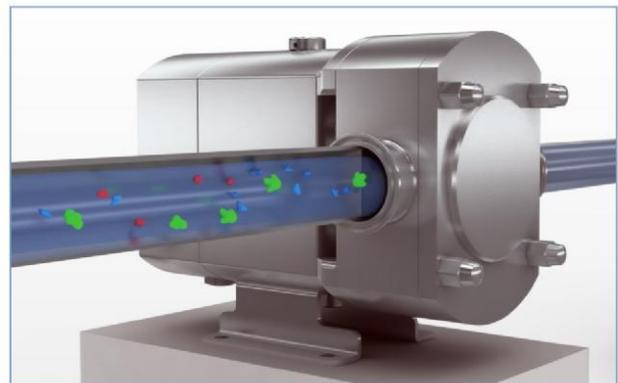


- A、当凸轮旋转时，吸入侧空间增大，因为一个凸轮从一侧移动到另一侧，这样就产生真空，把溶液抽到泵腔中。
 B、当轴旋转时，每个凸轮都会不断的被充满，液体会移置到排出口一侧。凸轮之间，凸轮和泵体壁之间的小空隙将会很好的闭合。
 C、泵体完全被充满，液体通过凸轮移出，由此完成了泵整个工作过程。

- A. When the lobes rotate, increased distance of two lobes cause space at the suction end to increase thereby causing a partial vacuum to draw fluid into the pump chamber.
 B. According to principle of shaft rotation, each lobe consecutively feed air, to bring fluid to transfer end. Gaps between two lobes and between lobe & wall of pump body are duly filled.
 C. After pump housing is completely filled, fluid escapes through lobes. This completes entire working process of pump.

Lobe pumps

Donjoy lobe pump has a variety of configuration, TU-series is standard configuration, STU-series is all stainless steel. It is a positive displacement rotary lobe pump designed according to USA 3A-02-11 standard, very suitable for transportation of various highly viscous and low viscous material, such as food processing, beverages, juices, dairy products, cosmetics, pharmaceuticals, etc.. The pump also can be used for CIP & SIP system and transport material with solid particle. This pump also has performance not found in other volumetric pumps, such as low pulse which, high pressure, Bi-directional reversible inlet/outlet and flexible function combination.

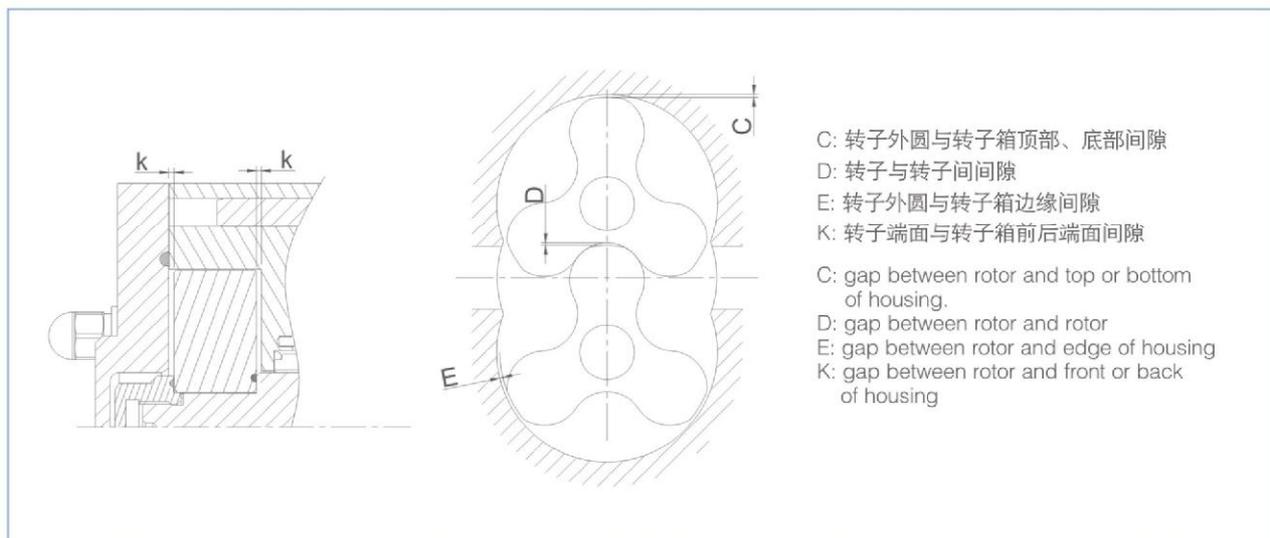


Schematic diagram

The rotor pump is a positive displacement pump. The left cam is driven by the drive shaft and the right cam is mounted on the drive shaft and driven by the gear. The two cams rotate synchronously without interfering with each other. A certain volume of solution can be removed while the pump is operating. The figure below shows how the rotary pump works.

转子安装间隙表

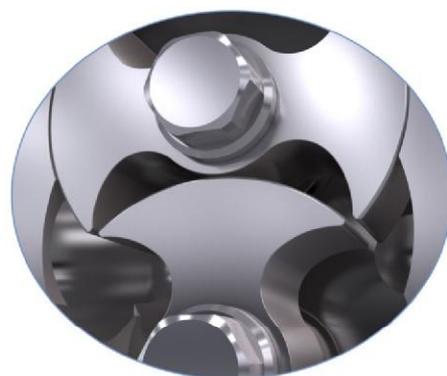
Lobe assembling clearance table



| SIZE | C (mm) | D (mm) | E (mm) | K (mm) |
|-------------|-------------|-------------|-------------|-------------|
| TUL/TUR 20 | 0.25 ± 0.05 | 0.20 ± 0.05 | 0.20 ± 0.05 | 0.20 ± 0.03 |
| TUL/TUR 23 | 0.25 ± 0.05 | 0.20 ± 0.05 | 0.20 ± 0.05 | 0.20 ± 0.03 |
| TUL/TUR 25 | 0.25 ± 0.05 | 0.20 ± 0.05 | 0.20 ± 0.05 | 0.20 ± 0.03 |
| TUL/TUR 30 | 0.30 ± 0.05 | 0.30 ± 0.05 | 0.30 ± 0.05 | 0.30 ± 0.05 |
| TUL/TUR 35 | 0.30 ± 0.05 | 0.30 ± 0.05 | 0.30 ± 0.05 | 0.30 ± 0.05 |
| TUL/TUR 55 | 0.50 ± 0.05 | 0.50 ± 0.05 | 0.50 ± 0.05 | 0.30 ± 0.05 |
| TUL/TUR 60 | 0.50 ± 0.05 | 0.50 ± 0.05 | 0.50 ± 0.05 | 0.30 ± 0.05 |
| TUL/TUR 70 | 0.75 ± 0.05 | 1.0 ± 0.05 | 0.75 ± 0.05 | 0.50 ± 0.05 |
| TUL/TUR 80 | 0.75 ± 0.05 | 1.0 ± 0.05 | 0.75 ± 0.05 | 0.50 ± 0.05 |
| TUL/TUR 100 | 0.75 ± 0.05 | 1.0 ± 0.05 | 0.75 ± 0.05 | 0.50 ± 0.05 |
| TUL/TUR 125 | 0.75 ± 0.05 | 1.0 ± 0.05 | 0.75 ± 0.05 | 0.50 ± 0.05 |

注意: Notice:

- 1) 以上精度间隙范围, 是我们标准配置。
- 1) The above clearance range is our standard configuration.
- 2) 我们可以提供更高精度等级的间隙要求。
- 2) We can provide clearance requirements with higher precision levels.
- 3) 适用于不同款式的转子间隙。
- 3) Suitable for all kinds of rotors.



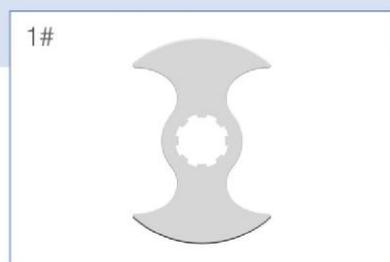
不同的转子配置

Rotor configurations



各种款式转子选择

Various Rotor Selection

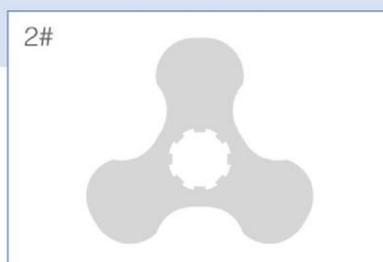


蝶型转子(推荐) :

适用于含有颗粒介质输送, 对于颗粒破碎率较低, 有较小脉动; (推荐使用)

Butterfly rotor (recommended):

With low particle breakage rate and small pulse, suitable for transporting material with particle; (recommended)

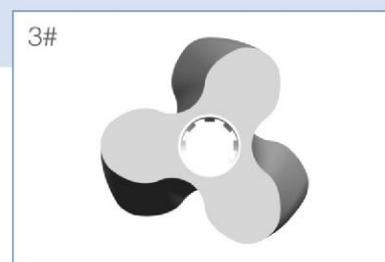


三叶型转子(选型) :

适用于各种介质输送, 对于颗粒有破碎率, 相比较蝶型转子脉动现象更小。

3-leaves rotor (optional):

With particle breakage rate and smaller pulse than butterfly rotor, suitable for transporting all kinds of material.

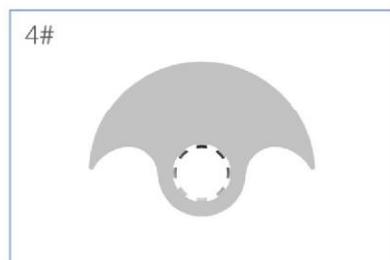


螺旋三叶转子(选型) :

适用于各种介质输送, 对于颗粒物料较小破碎率, 极小的脉动, 成本高。

Spiral 3-leaves rotor (optional):

With low particle breakage rate, very small pulse and high cost, suitable for transporting all kinds of material.

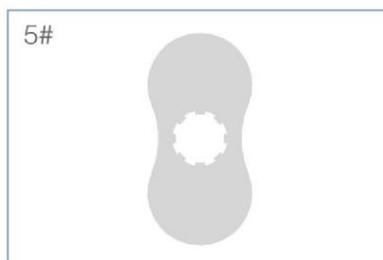


单蝶型转子(选型) :

适用于含有大颗粒物料输送, 对于大颗粒物料破碎率较低, 但其脉冲较大, 压力低, 容积量小。

Single butterfly rotor (optional):

With low particle breakage rate for large particle, large pulse, low pressure and small volume, suitable for transporting material with large particle.

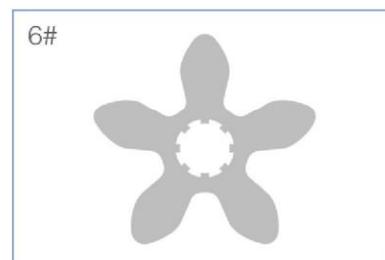


二叶型转子(选型) :

适用于各种介质输送, 对于颗粒物料有破碎率, 但其脉冲较大, 压力低, 容积量小。

2-leaves rotor (optional):

With partial breakage rate, large pulse, low pressure and small volume, suitable for transporting all kinds of material.



五叶转子(选型) :

适用于各种介质输送, 对于颗粒物料容易破碎, 极小的脉动, 相比较三叶转子流量更小。

5-leaves rotor (optional):

With high partial breakage rate, very small pulse and smaller flow, suitable for transporting all kinds of material.

7#



螺旋自吸式转子的泵，它具有标准的转子泵所有技术特点和功能，除此之外还具有较强的自吸能力达-0.8bar(吸程8M)。

Lobe pump with spiral self-priming rotor has all technical features and functions of a standard rotor pump, in addition to its strong self-priming capability to 0.8bar (head 8m).

螺旋自吸式转子

具有较强的自吸能力和输送含有颗粒、气液混合物、油品装卸、乳制品转移等。也抽取输送各种污水、污泥、牛粪、猪粪等各种复杂工况的介质。输送压力稳定，无脉冲现象，如配置变频器和流量计，可作为计量泵使用。

Spiral self-priming rotor

With strong self-priming capability co convey gas-liquid mixture, stevedor oil, transfer dairy products, etc. It also extracts and transports all kinds of sewage, sludge, cow dung, pig dung and other complex working conditions. The conveying pressure is stable and there is no pulse phenomenon. If configurate with frequency converter and flow meter, it can be used as a metering pump.

柔性螺旋转子材质有多种供选择 Flexible spiral rotor material selection

FKM= FDA 177.2600 ; 3-A-18-03; USP Class VI Chapter 88 GB 4806.11

EPDM=FDA 177.2600; 3-A-18-03 : Class II GB 4806.11

HNBR=FDA 177.2600; 3-A-18-03: Class I

转子每转排量数据表 data sheet for flow per rotation

| 型号/规格 Model/Size | 每转排量(L/R) Flow per rotation |
|------------------------|--------------------------------|
| TUL/R-25 & STUL/R-25 | 0.25 |
| TUL/R-60 & STUL/R-60 | 0.65 |
| TUL/R-100 & STUL/R-100 | 1.83 |



典型的产品应用 Typical product application



食品与饮品 Food and Drink

汤、炖肉、番茄酱、蔬菜、调味品、巧克力、脂肪和油、奶油馅料、啤酒厂、麦芽汁、软/果汁饮料、肉类加工。

Soups, Stews, Tomato Paste, Vegetables, Dressings, Chocolate, Fats & Oils, Cream Fillings, Brewery, Wort, Soft/Fruit Drinks, Meat Processing.



乳业 Dairy

奶油、牛奶、奶酪凝乳和乳清、干酪、酸奶。

Cream, milk, cheese curd and whey, cottage cheese, yogurt.



医药/化妆品 Pharmaceutical/Cosmetics

药膏、糖浆、提取物、浆液、面霜和乳液、头发定型凝胶和液体、染料和醇类、肥皂、化妆品。

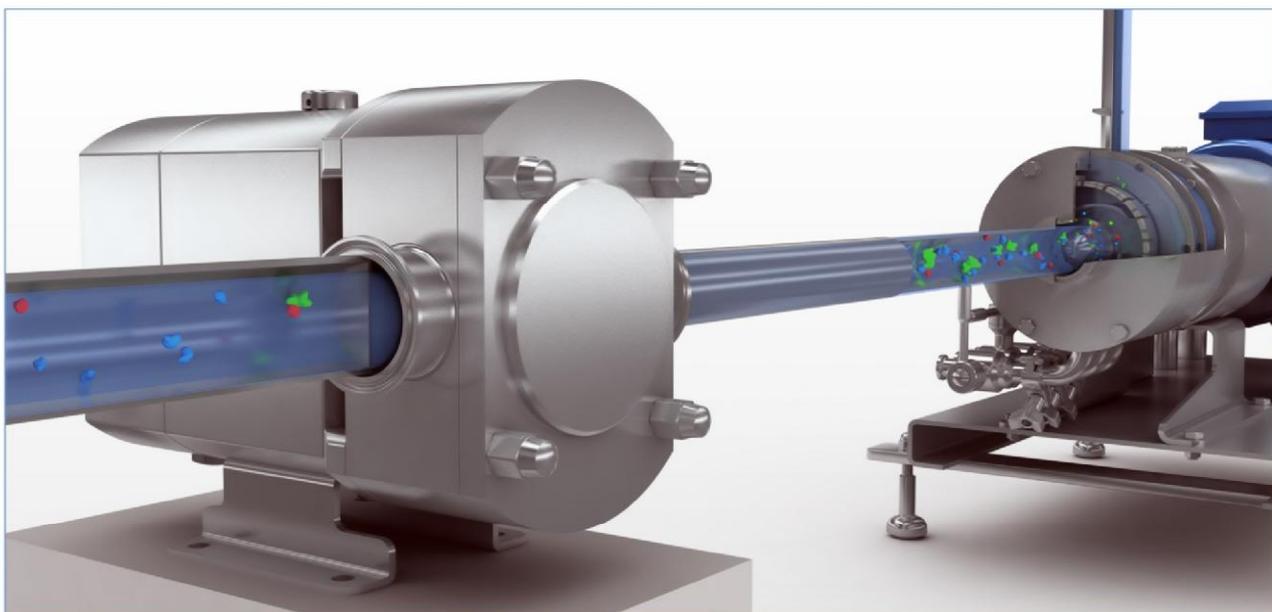
Pill Pastes, Syrups, Extracts, Slurries, Face Creams & Lotions, Hair Styling Gels & Liquids, Dyes & Alcohols, Soaps, Cosmetics.



化工/工业 Chemical/Industrial

溶剂、油漆、燃料、树脂、聚合物和淤泥、石油和润滑油。

Solvents, Paints, Fuels, Resins, Polymers & Sludges, Oil & Lubricants.



各种进出口连接方式 Inlet and outlet connection



卡箱式 Clamp



螺母式 Union nut



螺纹式 Threaded

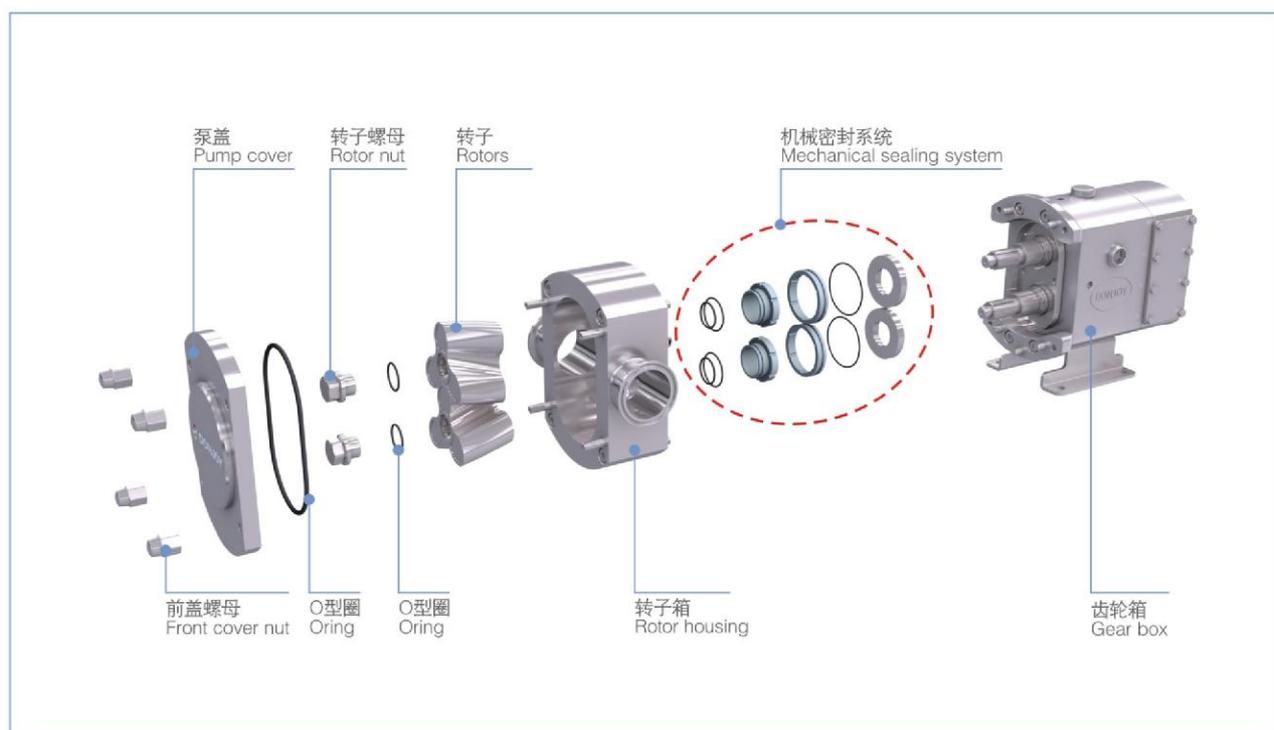
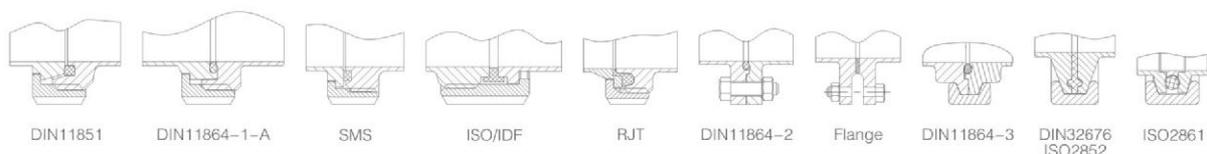


法兰式 Flange



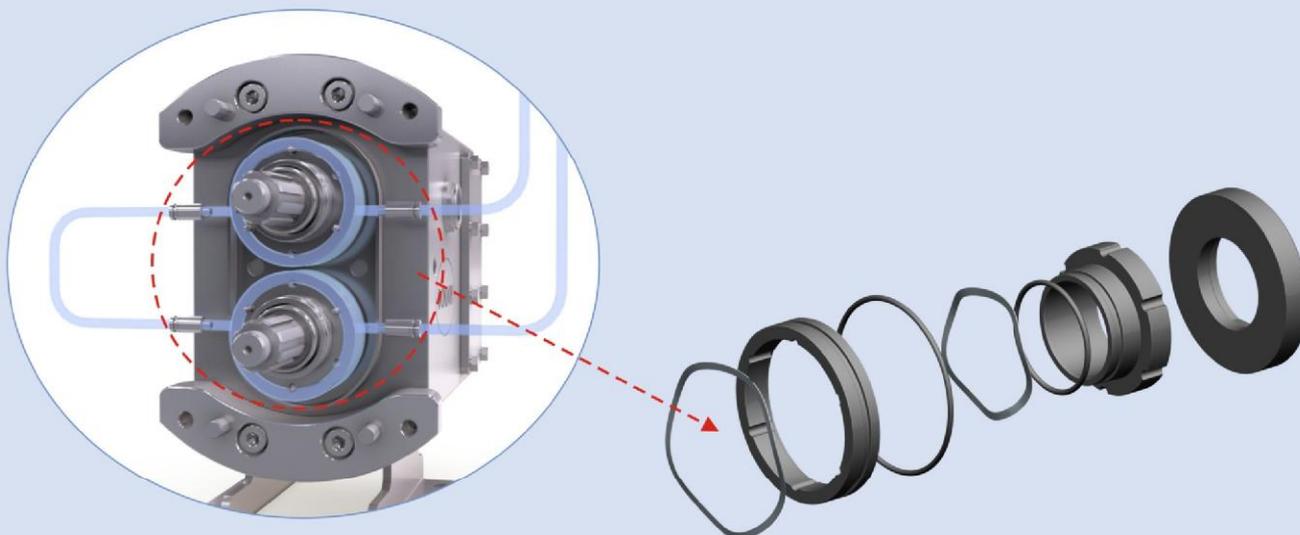
无菌法兰
Normal flange

泵进口/出口连接标准 Pump inlet/outlet connection standard



转子泵机封设计

Lobe pump mechanical seal design



DONJOY机封设计方案已经优化至无需专业人员、专业工具即可完成维修、维护。这样可节约成本、提高效率，且具有非常丰富的材质配置供选择。

DONJOY mechanical seal design has been optimized to complete repair and maintenance without professional person or tools. This can save costs, increase efficiency, and has lots of material configuration for selection.



机封配置 Mechanical Seal Configuration

- | | | |
|---------------|-----------------|---------------|
| 1) SIC/C/EPDM | 4) SIC/SIC/EPDM | 7) TC/TC/EPDM |
| 2) SIC/C/FKM | 5) SIC/SIC/FKM | 8) TC/TC/FKM |
| 3) SIC/C/HNBR | 6) SIC/SIC/HNBR | 9) TC/TC/HNBR |

注意：以上配置适用于单机封和双机封；
Note: The above mechanical seal material is suitable for single seal and double seal.

宽电压电机 Wide voltage motor

| 功率 Power(kw) | 电压范围 Voltage | 功率 Power(kw) | 电压范围 Voltage |
|-----------------|----------------------------------------------------|-----------------|----------------------------------------------------|
| 0.55kw | 210V-230V/50HZ 360V-400V/50HZ 420V-460V/60HZ | 4.0-5.5kw | 360V-400V/50HZ 630V-690V/50HZ 420V-460V/60HZ |
| 0.75kw | | 7.5-11kw | |
| 1.1-1.5kw | | 15-18.5kw | |
| 2.2-3.0kw | | 22-30kw | |

注意：电机采用IEC EN IE2 能效等级，PTC热敏电阻。(相当于中国二级能效)
Note: The motor adopts IEC EN IE2 energy efficiency class, PTC thermistor. (Corresponding to China two energy efficiency)
注意：其他电机功率、电压、频率等，请联系东正。
Note: Other motor power, voltage, frequency, etc., please contact DONJOY

转子泵选型表

Lobe pump selection table



TU & STU 系列转子泵，相关参数选型表
TU & STU series lobe pump, parameter selection table

| 型号/规格 Model | 转子泵 进出口尺寸 Inlet/Outlet | 最大压力 Max pressure (bar) | 最高转速 每分钟 Max speed per minute | 建议转速范围 每分钟 Suggested speed range per minute | 每转排量 Flow per revolution (L/R) | 最大流量 Max flow (m ³ /h) | 建议转速范围 流量-每小时 Suggested Flow (m ³ /h) | 每转排量 Flow per revolution (L/R) | 最大流量 Max flow (m ³ /h) | 建议转速范围 流量-每小时 Suggested Flow (m ³ /h) | | |
|----------------|------------------------------|----------------------------------|----------------------------------------|---------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------|------|------|
| | | | | | 1# |  | 2# |  | | | | |
| TUL/TUR-20 | 1"-DN25 | 15 | 700 | 50-450 | 0.12 | 5.0 | 0.36 | 3.2 | 0.11 | 4.6 | 0.33 | 2.9 |
| TUL/TUR-23 | 1.5"-DN40 | 15 | 700 | 50-450 | 0.17 | 7.1 | 0.50 | 4.5 | 0.15 | 6.5 | 0.46 | 4.2 |
| TUL/TUR-25 | 2"-DN50 | 15 | 700 | 50-450 | 0.24 | 10.1 | 0.72 | 6.5 | 0.22 | 9.1 | 0.65 | 5.8 |
| TUL/TUR-30 | 2"-DN50 | 15 | 700 | 50-400 | 0.39 | 16.4 | 1.17 | 9.4 | 0.34 | 14.1 | 1.01 | 8.1 |
| TUL/TUR-35 | 2.5" | 12 | 700 | 50-400 | 0.49 | 20.5 | 1.47 | 11.7 | 0.42 | 17.7 | 1.26 | 10.1 |
| TUL/TUR-55 | DN65 | 12 | 500 | 50-350 | 0.55 | 16.5 | 1.65 | 11.5 | 0.48 | 14.3 | 1.43 | 10.0 |
| TUL/TUR-60 | 3" | 10 | 500 | 50-350 | 0.61 | 18.2 | 1.82 | 12.7 | 0.53 | 15.8 | 1.58 | 11.1 |
| TUL/TUR-70 | 3" | 15 | 500 | 50-350 | 1.41 | 42.4 | 4.24 | 29.7 | 1.21 | 36.3 | 3.63 | 25.4 |
| TUL/TUR-80 | DN80 | 15 | 500 | 50-350 | 1.41 | 42.4 | 4.24 | 29.7 | 1.21 | 36.3 | 3.63 | 25.4 |
| TUL/TUR-100 | 4"-DN100 | 10 | 500 | 50-350 | 1.81 | 54.4 | 5.44 | 38.1 | 1.55 | 46.5 | 4.65 | 32.6 |
| TUL/TUR-125 | 5"-DN125 | 10 | 500 | 50-350 | 2.30 | 69.1 | 6.91 | 48.3 | 1.97 | 59.1 | 5.91 | 41.3 |

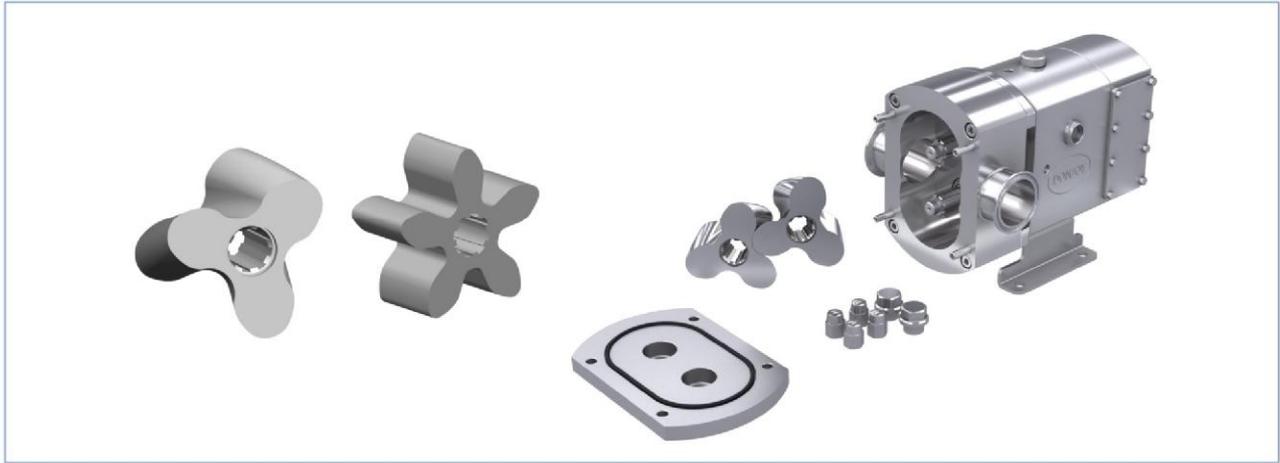
转子泵选型表

Lobe pump selection table



TU & STU 系列转子泵，相关参数选型表
TU & STU series lobe pump, parameter selection table

| 型号/规格 Model | 转子泵 进出口尺寸 Inlet/Outlet | 最大压力 Max pressure (bar) | 最高转速 每分钟 Max speed per minute | 建议转速范围 每分钟 Suggested speed range per minute | 每转排量 Flow per revolution (L/R) | 最大流量 Max flow (m ³ /h) | 建议转速范围 流量-每小时 Suggested Flow (m ³ /h) | 每转排量 Flow per revolution (L/R) | 最大流量 Max flow (m ³ /h) | 建议转速范围 流量-每小时 Suggested Flow (m ³ /h) | | |
|----------------|------------------------------|----------------------------------|----------------------------------------|---------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------|------|------|
| | | | | | | 4# | | | 5# | | | |
| | | | | | |  | | |  | | | |
| TUL/TUR-20 | 1"-DN25 | 15 | 700 | 50-450 | 0.11 | 4.7 | 0.33 | 3.0 | 0.11 | 4.6 | 0.33 | 2.9 |
| TUL/TUR-23 | 1.5"-DN40 | 15 | 700 | 50-450 | 0.16 | 6.6 | 0.47 | 4.2 | 0.15 | 6.4 | 0.46 | 4.1 |
| TUL/TUR-25 | 2"-DN50 | 15 | 700 | 50-450 | 0.22 | 9.2 | 0.66 | 5.9 | 0.22 | 9.0 | 0.65 | 5.8 |
| TUL/TUR-30 | 2"-DN50 | 15 | 700 | 50-400 | 0.34 | 14.4 | 1.03 | 8.2 | 0.33 | 14.0 | 1.00 | 8.0 |
| TUL/TUR-35 | 2.5" | 12 | 700 | 50-400 | 0.43 | 18.1 | 1.29 | 10.3 | 0.42 | 17.6 | 1.25 | 10.0 |
| TUL/TUR-55 | DN65 | 12 | 500 | 50-350 | 0.49 | 14.6 | 1.46 | 10.2 | 0.47 | 14.2 | 1.42 | 10.0 |
| TUL/TUR-60 | 3" | 10 | 500 | 50-350 | 0.54 | 16.1 | 1.61 | 11.3 | 0.52 | 15.7 | 1.57 | 11.0 |
| TUL/TUR-70 | 3" | 15 | 500 | 50-350 | 1.29 | 38.6 | 3.86 | 27.0 | 1.21 | 36.2 | 3.62 | 25.3 |
| TUL/TUR-80 | DN80 | 15 | 500 | 50-350 | 1.29 | 38.6 | 3.86 | 27.0 | 1.21 | 36.2 | 3.62 | 25.3 |
| TUL/TUR-100 | 4"-DN100 | 10 | 500 | 50-350 | 1.65 | 49.5 | 4.95 | 34.7 | 1.55 | 46.4 | 4.64 | 32.5 |
| TUL/TUR-125 | 5"-DN125 | 10 | 500 | 50-350 | 2.10 | 62.9 | 6.29 | 44.0 | 1.96 | 58.9 | 5.89 | 41.2 |



TU & STU 系列转子泵，相关参数选型表
TU & STU series lobe pump, parameter selection table

| 型号/规格 Model | 转子泵 进出口尺寸 Inlet/Outlet | 最大压力 Max pressure (bar) | 最高转速 每分钟 Max speed per minute | 建议转速范围 每分钟 Suggested speed range per minute | 每转排量 Flow per revolution (L/R) | 最大流量 Max flow (m ³ /h) | 建议转速范围 流量-每小时 Suggested Flow (m ³ /h) | 每转排量 Flow per revolution (L/R) | 最大流量 Max flow (m ³ /h) | 建议转速范围 流量-每小时 Suggested Flow (m ³ /h) | | |
|----------------|------------------------------|----------------------------------|----------------------------------------|---------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|------|------|
| | | | | | 3#/7# |  | | | 6# |  | | |
| TUL/TUR-20 | 1"-DN25 | 15 | 700 | 50-450 | 0.11 | 4.6 | 0.33 | 2.9 | 0.12 | 4.8 | 0.35 | 0.31 |
| TUL/TUR-23 | 1.5"-DN40 | 15 | 700 | 50-450 | 0.15 | 6.5 | 0.46 | 4.2 | 0.16 | 6.8 | 0.49 | 4.4 |
| TUL/TUR-25 | 2"-DN50 | 15 | 700 | 50-450 | 0.22 | 9.1 | 0.65 | 5.8 | 0.23 | 9.6 | 0.68 | 6.2 |
| TUL/TUR-30 | 2"-DN50 | 15 | 700 | 50-400 | 0.34 | 14.1 | 1.01 | 8.1 | 0.35 | 14.9 | 1.06 | 8.5 |
| TUL/TUR-35 | 2.5" | 12 | 700 | 50-400 | 0.42 | 17.7 | 1.26 | 10.1 | 0.44 | 18.6 | 1.33 | 10.7 |
| TUL/TUR-55 | DN65 | 12 | 500 | 50-350 | 0.48 | 14.3 | 1.43 | 10.0 | 0.50 | 15.1 | 1.51 | 10.6 |
| TUL/TUR-60 | 3" | 10 | 500 | 50-350 | 0.53 | 15.8 | 1.58 | 11.1 | 0.56 | 16.7 | 1.67 | 11.7 |
| TUL/TUR-70 | 3" | 15 | 500 | 50-350 | 1.21 | 36.3 | 3.63 | 25.4 | 1.27 | 38.0 | 3.80 | 26.6 |
| TUL/TUR-80 | DN80 | 15 | 500 | 50-350 | 1.21 | 36.3 | 3.63 | 25.4 | 1.27 | 38.0 | 3.80 | 26.6 |
| TUL/TUR-100 | 4"-DN100 | 10 | 500 | 50-350 | 1.55 | 46.5 | 4.65 | 32.6 | 1.62 | 48.7 | 4.87 | 34.1 |
| TUL/TUR-125 | 5"-DN125 | 10 | 500 | 50-350 | 1.97 | 59.1 | 5.91 | 41.3 | 2.06 | 61.9 | 6.19 | 43.3 |

转子泵选型表(机械无极调速)

Lobe pump selection table (mechanical stepless speed regulation)



机械无极调速转子泵

Mechanical Stepless Speed Regulating Lobe Pump

机械无极减速机配备有标准电机，机械摩擦式无极调节器，通过旋转手轮即可改变输出转速，达到控制转速和流量的目的。

The mechanical stepless speed reducer is equipped with standard motor and mechanical friction type stepless regulator. The output speed can be changed by rotating the handwheel to control and regulate the pump flow.



注意：该数据是基于蝶式转子排量的结果。

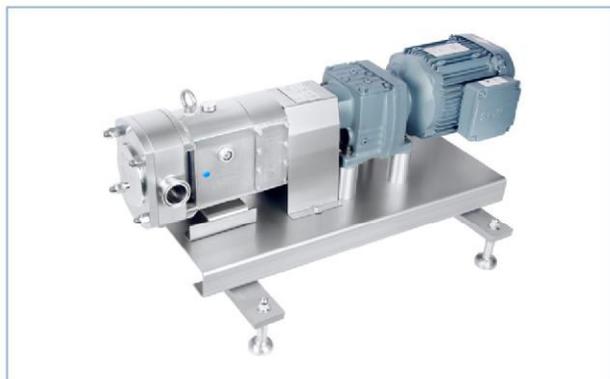
Note: This data is based on the results of the butterfly rotor displacement.

| 型号/规格 Model | 转子泵 进出口尺寸 Inlet/Outlet (卡箍螺纹) | 最大压力 Max pressure (bar) | 电机功率 Motor power (kw) | 建议转速 每分钟 Suggested speed per minute | 每转排量 Flow per revolution (L/R) | 流量(m ³ /h) | | 重量 Weight (kg) |
|----------------|----------------------------------------|-------------------------------|-----------------------------|----------------------------------------------|-----------------------------------------|-----------------------|-----------------------------------------------------|----------------------|
| | | | | | | 建议-转速范围-流量 | Flow(m ³ /h)according to suggested speed | |
| TUL/TUR-20 | 1"-DN25 | 15 | 2.2KW | 200-450 | 0.12 | 1.5 | 3.2 | 106 |
| | | 12 | 1.5KW | | | | | 79 |
| | | 9 | 1.1KW | | | | | 73 |
| | | 5 | 0.75KW | | | | | 72 |
| TUL/TUR-23 | 1.5"-DN40 | 15 | 4.0KW | 200-450 | 0.17 | 2.0 | 4.5 | 125 |
| | | 12 | 3.0KW | | | | | 121 |
| | | 9 | 2.2KW | | | | | 107 |
| | | 5 | 1.5KW | | | | | 80 |
| TUL/TUR-25 | 2"-DN50 | 12 | 5.5KW | 200-450 | 0.24 | 2.9 | 6.4 | 186 |
| | | 10 | 4.0KW | | | | | 126 |
| | | 7 | 3.0KW | | | | | 122 |
| | | 4 | 2.2KW | | | | | 108 |
| TUL/TUR-30 | 2"-DN50 | 15 | 7.5KW | 200-400 | 0.39 | 4.6 | 9.3 | 219 |
| | | 12 | 5.5KW | | | | | 210 |
| | | 8 | 4.0KW | | | | | 150 |
| | | 4 | 3.0KW | | | | | 146 |
| TUL/TUR-35 | 2.5" | 12 | 7.5KW | 200-400 | 0.49 | 5.9 | 11.7 | 221 |
| | | 10 | 5.5KW | | | | | 212 |
| | | 7 | 4.0KW | | | | | 152 |
| | | 3 | 3.0KW | | | | | 148 |
| TUL/TUR-55 | DN65 | 12 | 7.5KW | 200-400 | 0.55 | 6.6 | 13.2 | 222 |
| | | 9 | 5.5KW | | | | | 213 |
| | | 6 | 4.0KW | | | | | 153 |
| | | 3 | 3.0KW | | | | | 149 |
| TUL/TUR-60 | 3" | 10 | 7.5KW | 200-400 | 0.61 | 7.3 | 14.5 | 224 |
| | | 7 | 5.5KW | | | | | 215 |
| | | 5 | 4.0KW | | | | | 155 |
| | | 3 | 3.0KW | | | | | 151 |
| TUL/TUR-70 | 3" | 9 | 7.5KW | 200-400 | 1.41 | 17.0 | 33.9 | 304 |
| | | 5 | 5.5KW | | | | | 295 |
| TUL/TUR-80 | DN80 | 7 | 7.5KW | 200-400 | 1.41 | 17.0 | 33.9 | 304 |
| | | 4 | 5.5KW | | | | | 295 |
| TUL/TUR-100 | 4"-DN100 | 5 | 7.5KW | 200-400 | 1.81 | 21.8 | 44.5 | 310 |

注：以上进出口适用于卡箍式、螺纹式、法兰式，适用标准SMS/DIN/RJT/DF。 Notes: above inlet/outlet apply to SMS/DIN/RJT/DF clamped, threaded and flanged

转子泵选型表(变频调速/定速比输出)

Lobe pump selection table (frequency control / fixed speed ratio output)



可变频调速输出转子泵

Variable Frequency Speed Adjustment Output Lobe Pump

可变频输出减速机, 有两种功能应用。

1) 定速比输出, 转速不可调, 选择时一定要注意转速选择。

2) 变频调速输出, 转速可通过变频器调节, 但必须配置变频器, 反之转速不可调。

For variable frequency output reducer, there are two functional application.

1) Fixed speed ratio output, speed is not adjustable, must pay attention to speed when selecting.

2) Variable frequency speed adjustment output, speed can be adjusted by frequency converter. Should be configured with frequency converter, otherwise the speed will not be adjustable.



注意: 该数据是基于蝶式转子排量的结果。

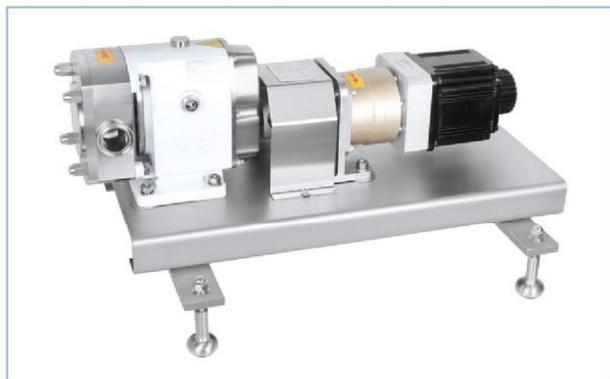
Note: This data is based on the results of the butterfly rotor displacement.

| 型号/规格 Model | 转子泵 进出口尺寸 Inlet/Outlet | 最大压力 Max pressure (bar) | 电机功率 Motor power (kw) | 建议转速 每分钟 Suggested speed per minute | 每转排量 Flow per revolution (L/R) | 流量(m³/h) | | 重量 Weight (kg) |
|----------------|------------------------------|-------------------------------|-----------------------------|----------------------------------------------|-----------------------------------------|------------|----------------------------------------|----------------------|
| | | | | | | 建议-转速范围-流量 | Flow(m³/h)according to suggested speed | |
| TUL/TUR-20 | 1"-DN25 | 15 | 2.2KW | 50-450 | 0.12 | 0.36 | 3.3 | 94.2 |
| | | 12 | 1.5KW | | | | | 86.2 |
| | | 9 | 1.1KW | | | | | 77.2 |
| | | 5 | 0.75KW | | | | | 66.2 |
| TUL/TUR-23 | 1.5"-DN40 | 15 | 3.0KW | 50-450 | 0.17 | 0.51 | 4.6 | 99.5 |
| | | 12 | 2.2KW | | | | | 95.5 |
| | | 9 | 1.5KW | | | | | 87.5 |
| | | 5 | 1.1KW | | | | | 78.5 |
| TUL/TUR-25 | 2"-DN50 | 15 | 5.5KW | 50-450 | 0.24 | 0.72 | 6.5 | 156.4 |
| | | 10 | 4.0KW | | | | | 113.2 |
| | | 7 | 3.0KW | | | | | 100.2 |
| | | 4 | 2.2KW | | | | | 96.2 |
| TUL/TUR-30 | 2"-DN50 | 15 | 7.5KW | 50-400 | 0.39 | 1.16 | 9.3 | 193.4 |
| | | 12 | 5.5KW | | | | | 180.4 |
| | | 8 | 4.0KW | | | | | 137.2 |
| | | 4 | 3.0KW | | | | | 124.2 |
| TUL/TUR-35 | 2.5" | 12 | 7.5KW | 50-400 | 0.48 | 1.45 | 11.6 | 195.2 |
| | | 10 | 5.5KW | | | | | 182.2 |
| | | 7 | 4.0KW | | | | | 139 |
| | | 3 | 3.0KW | | | | | 126 |
| TUL/TUR-55 | DN65 | 12 | 7.5KW | 50-350 | 0.55 | 1.65 | 11.5 | 196.4 |
| | | 9 | 5.5KW | | | | | 183.4 |
| | | 6 | 4.0KW | | | | | 140.2 |
| | | 3 | 3.0KW | | | | | 127.2 |
| TUL/TUR-60 | 3" | 10 | 7.5KW | 50-350 | 0.61 | 1.82 | 12.7 | 197.9 |
| | | 7 | 5.5KW | | | | | 184.9 |
| | | 5 | 4.0KW | | | | | 141.7 |
| | | 3 | 3.0KW | | | | | 128.7 |
| TUL/TUR-70 | 3" | 15 | 15KW | 50-350 | 1.414 | 4.24 | 29.7 | 446.8 |
| | | 12 | 11KW | | | | | 427.8 |
| | | 9 | 7.5KW | | | | | 278.1 |
| | | 5 | 5.5KW | | | | | 265.1 |
| TUL/TUR-80 | DN80 | 15 | 15KW | 50-350 | 1.414 | 4.24 | 29.7 | 446.8 |
| | | 10 | 11KW | | | | | 427.8 |
| | | 7 | 7.5KW | | | | | 278.1 |
| | | 4 | 5.5KW | | | | | 265.1 |
| TUL/TUR-100 | 4"-DN100 | 12 | 15KW | 50-350 | 1.813 | 5.4 | 38.1 | 453.3 |
| | | 10 | 11KW | | | | | 434.3 |
| | | 6 | 7.5KW | | | | | 284.6 |
| | | 3 | 5.5KW | | | | | 271.6 |
| TUL/TUR-125 | 5"-DN125 | 12 | 18.5KW | 50-350 | 2.302 | 6.9 | 48.3 | 476.4 |
| | | 10 | 15KW | | | | | 461.4 |
| | | 7 | 11KW | | | | | 442.4 |
| | | 4 | 7.5KW | | | | | 292.7 |

注: 以上进出口适用于卡箍式、螺纹式、法兰式, 适用标准SMS/DIN/RJT/DF。 Notes: above inlet/outlet apply to SMS/DIN/RJT/DF clamped, threaded and flanged

转子泵选型表(伺服电机减速输出)

Lobe pump selection table (servo motor speed reducing output)



伺服电机减速输出转子泵

Servo Motor Speed Reducing Output Lobe Pump

伺服电机减速机输出是目前较为先进的控制方法，它具有控制精度高、噪音低、体积小、重量轻、恒力扭矩等优点。用户可根据需要编辑个性化程序实现多任务、多功能控制。

Servo motor reducer output is a relatively advanced control method currently. It is with much advantage, such as controlling high precision, low noise, small size, light weight, constant torque, etc.. Users can edit personalized program to achieve multi-tasking and multi-function control as needed.



注意：该数据是基于蝶式转子排量的结果。

Note: This data is based on the results of the butterfly rotor displacement.

| 型号/规格 Model | 转子泵 进出口尺寸 Inlet/Outlet | 最大压力 Max pressure (bar) | 电机功率 Motor power (kw) | 建议转速 每分钟 Suggested speed per minute | 每转排量 Flow per revolution (L/R) | 流量(m ³ /h) | | 重量 Weight (kg) |
|----------------|------------------------------|-------------------------------|-----------------------------|----------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|------|----------------------|
| | | | | | | 建议-转速范围-流量 Flow(m ³ /h)according to suggested speed | 流量 | |
| TUL/TUR-20 | 1"-DN25 | 15 | 2.0KW | 50-450 | 0.12 | 0.36 | 3.3 | 72.3 |
| | | 12 | 1.5KW | | | | | 72 |
| | | 9 | 1.0KW | | | | | 71.5 |
| TUL/TUR-23 | 1.5"-DN40 | 15 | 3.0KW | 50-450 | 0.17 | 0.51 | 4.6 | 92.3 |
| | | 12 | 2.0KW | | | | | 73.6 |
| | | 9 | 1.5KW | | | | | 73.3 |
| | | 5 | 1.0KW | | | | | 72.8 |
| TUL/TUR-25 | 2"-DN50 | 15 | 5.5KW | 50-450 | 0.24 | 0.72 | 6.5 | 139 |
| | | 10 | 4.5KW | | | | | 98 |
| | | 7 | 3.0KW | | | | | 93 |
| | | 4 | 2.0KW | | | | | 74.3 |
| TUL/TUR-30 | 2"-DN50 | 15 | 7.5KW | 50-400 | 0.39 | 1.16 | 9.3 | 175.5 |
| | | 12 | 5.5KW | | | | | 165.5 |
| | | 8 | 4.5KW | | | | | 124.5 |
| | | 4 | 3.0KW | | | | | 119.5 |
| TUL/TUR-35 | 2.5" | 12 | 7.5KW | 50-400 | 0.48 | 1.45 | 11.6 | 177.3 |
| | | 10 | 5.5KW | | | | | 167.3 |
| | | 7 | 4.5KW | | | | | 126.3 |
| | | 3 | 3.0KW | | | | | 121.3 |
| TUL/TUR-55 | DN65 | 12 | 7.5KW | 50-350 | 0.55 | 1.65 | 11.5 | 178.5 |
| | | 9 | 5.5KW | | | | | 168.5 |
| | | 6 | 4.5KW | | | | | 127.5 |
| | | 3 | 3.0KW | | | | | 122.5 |
| TUL/TUR-60 | 3" | 10 | 7.5KW | 50-350 | 0.61 | 1.82 | 12.7 | 180 |
| | | 7 | 5.5KW | | | | | 170 |
| | | 5 | 4.5KW | | | | | 129 |
| | | 3 | 3.0KW | | | | | 124 |
| TUL/TUR-70 | 3" | 15 | 15KW | 50-350 | 1.414 | 4.24 | 29.7 | 327.2 |
| | | 12 | 11KW | | | | | 287.2 |
| | | 9 | 7.5KW | | | | | 277.7 |
| | | 5 | 5.5KW | | | | | 267.7 |
| TUL/TUR-80 | DN80 | 15 | 15KW | 50-350 | 1.414 | 4.24 | 29.7 | 327.2 |
| | | 10 | 11KW | | | | | 287.2 |
| | | 7 | 7.5KW | | | | | 277.7 |
| | | 4 | 5.5KW | | | | | 267.7 |
| TUL/TUR-100 | 4"-DN100 | 10 | 11KW | 50-350 | 1.813 | 5.4 | 38.1 | 293.7 |
| | | 6 | 7.5KW | | | | | 284.2 |
| | | 3 | 5.5KW | | | | | 274.2 |
| TUL/TUR-125 | 5"-DN125 | 10 | 15KW | 50-350 | 2.302 | 6.9 | 48.3 | 341.8 |
| | | 7 | 11KW | | | | | 301.8 |
| | | 4 | 7.5KW | | | | | 292.3 |

注：以上进出口适用于卡箍式、螺纹式、法兰式，适用标准SMS/DIN/RJT/DF。Notes: above inlet/outlet apply to SMS/DIN/RJT/DF clamped, threaded and flanged

转子泵不同配置

Lobe pump various configurations

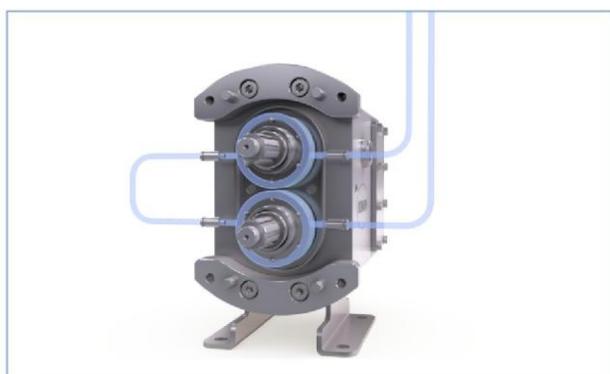


转子泵+保温夹套

Lobe pump with heat jacket

配置保温夹套的转子泵广泛应用于输送各种易凝固的物料，如输送巧克力，糖果，胶体等在常温下凝固或易变质的物料，根据工艺要求配备前盖保温或者四周保温等。

Lobe pump with heat jacket is widely used for transporting materials which are frozen or will freeze or perishable at room temperature, such as chocolate, candy, gum, etc.. According to the process requirements, it can be equipped with front cover insulation or surrounding insulation structure.



双机封密封 (水冷冲洗) 转子泵

Double mechanical seal (Water-cooled flushing) Lobe pump

配置有双机封密封(水冷冲洗)的转子泵，适用于高温，高粘稠，长时间不停机，开机时或工作中偶有瞬间缺液工况上较为理想的选择。但一定要注意保持冷却液循环！

Lobe pump with water-cooled flushing mechanical seal is suitable for high temperature, high viscosity and continue working long hours. It is perfect choice for working condition with intermission of liquid. Be sure to keep cooling water circulation.



防爆电机转子泵

Lobe pump with explosion-proof motor

该泵配置了防爆电机和变速箱，防爆等级 EX DII BT4，防护等级 IP55，满足各种易燃易爆工作区域。

The pump is equipped with an explosion-proof motor and gearbox, explosion-proof grade EX DII BT4, protection class IP55, can meet various flammable and explosive working areas.



机械无极调速转子泵

Mechanical stepless speed regulating lobe pump

该泵配置了机械无极变速箱，可通过变速箱的手轮调速器，调控至工况所需要的转速。具有操作简单，方便，成本低。

The pump is equipped with a mechanical stepless gearbox, can be adjusted to the required speed through the gearbox's handwheel governor. It is simple-operating, convenient and low cost.

转子泵不同配置

Lobe pump various configurations



变频电机斜齿轮转子泵

Lobe pump with frequency converter helical gear

配置了斜齿轮变速箱和变频电机，该配置可根据用户个性化需要，设定、编辑变频器，也可通过PLC编程实现自动控制。

The pump is equipped with helical gear gearbox and frequency variable motor. According to the user's individual needs, can set and edit the inverter, also can be automatically controlled by PLC programming.



可变频调速输出转子泵

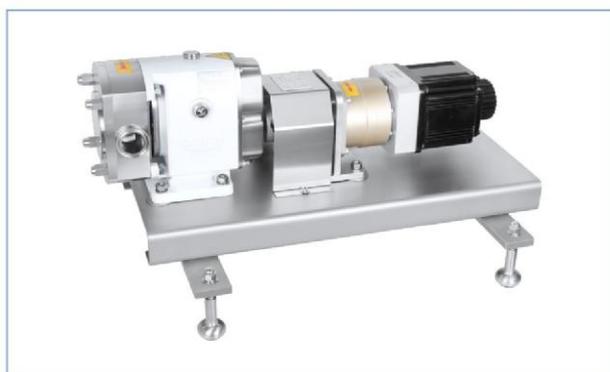
Variable frequency speed adjustment output lobe pump

可变频输出减速机，有两种功能应用。

- 1) 定速比输出，转速不可调，选择时一定要注意转速选择。
- 2) 变频调速输出，转速是通过变频器调节，但必须配置变频器，反之转速不可调。

For variable frequency output reducer, there are two functional application.

- 1) Fixed speed ratio output, speed is not adjustable, must pay attention to speed selection when selecting.
- 2) Variable frequency speed adjustment output, speed is adjusted by frequency converter. Should be configured with frequency converter, otherwise the speed will not be adjustable.



伺服电机减速输出转子泵

Servo motor speed reducing output lobe pump

伺服电机减速机输出是目前较为先进的控制方法，它具有精度高、噪音低、体积小、重量轻、恒力扭矩等。用户可根据需要编辑个性化程序实现多任务、多功能控制。

Servo motor reducer output is a relatively advanced control method currently. It is with high precision, low noise, small size, light weight, constant torque, etc.. Users can edit personalized program to achieve multi-tasking and multi-function control as needed.



法兰料斗进口转子泵

Lobe pump with flange hopper

该泵设计有方形法兰料斗和圆形法兰料斗两种，该装置可有效的解决不易流动的物料输送。

There are two kinds of flange hoppers: Square flange hopper and circular flange hopper. Lobe pump with flange hopper can effectively solve transportation of uneasy flowing liquid.

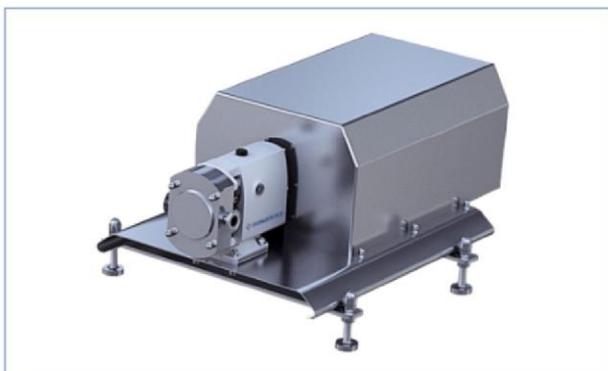


移动式转子泵 Mobile lobe pump

移动式转子泵，配置有移动车子，轮子带有刹车，控制台；控制台：1)内置变频器；2) 启动、停止电器控制。

Mobile rotor pump, equipped with trolley, console and wheels with brakes;

Console: 1) equipped with built-in inverter; 2) start and stop electrical control.



全防护罩转子泵 Lobe pump with whole protecting cover

全防护罩可减少因泵驱动装置不规则的卫生死角同时保护电机和保护人身安全。

Pump with whole protecting cover can reduce dead angle caused by irregular pump driving device. Protecting cover can also protect motor and personal safety.



内置安全系统转子泵 Lobe pump with built-in safety valve

该装置有效的缓解，输送过程中因其他设备故障或管道压力瞬时超过安全值而导致泵和其他仪器故障。

特点：当压力超过预设压力时内置安全阀自动打开，也可通过气体强迫打开安全阀。

选项：气/气，弹簧/气，压力从1bar-6bar

Lobe pump with built-in safety valve effectively reduce possibility of pump breakdown due to pipeline pressure exceeding than the safety value or other equipment's failure during transportation.

Features: Built-in safety valve automatically open when the pressure exceeds preset value. It can also be forced to open by gas.

Options: air/air, spring/air, pressure from 1bar to 6bar



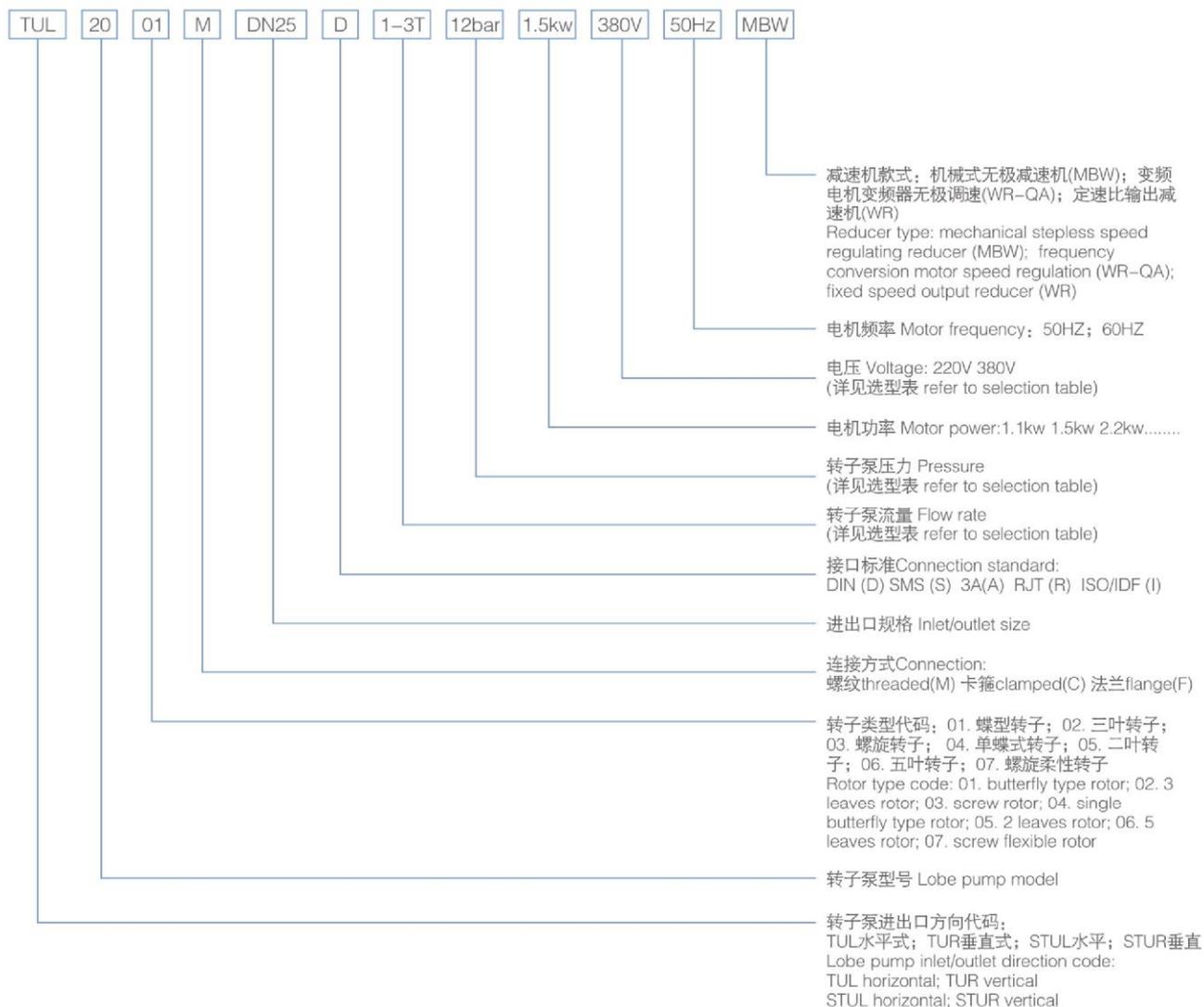
外置安全系统转子泵 Lobe pump with external safety valve

外置安全系统，可有效解决因管路堵塞或其他问题引起的出口压力瞬间增加而损坏仪器和设备。

Lobe pump with external safety valve can effectively solve damage to instrument and equipment caused by the sudden increase of the outlet pressure caused by pipeline blockage or other problems.

TU 转子泵型号说明

TU lobe pump model description



Example for lobe pump selection (with motor)

转子泵选型(带有电机), 举例: TUL 20-02-M-DN25-D/1-3T-12bar/1.5kw-380v-50Hz-WMB

表示TUL20转子泵-蝶型转子-进出口螺纹连接DN25-DIN标准/流量1-3T-压力12bar/电机功率1.5kw-380v-50hz-机械无极调速

Means TUL20 lobe pump-butterfly rotor-threaded inlet/outlet DN25-DIN standard/flow 1-3T/pressure 12bar/motor power 1.5kw-380v-50hz-mechanical stepless speed regulation

Example for lobe pump selection (without motor)

转子泵选型(不带电机), 举例: TUL 20-02-M-DN25-D

表示TUL20转子泵-蝶型转子-进出口螺纹连接DN25-DIN标准(不带电机)

Means TUL20 lobe pump-butterfly rotor-threaded inlet/outlet DN25-DIN standard (without motor)

注意:

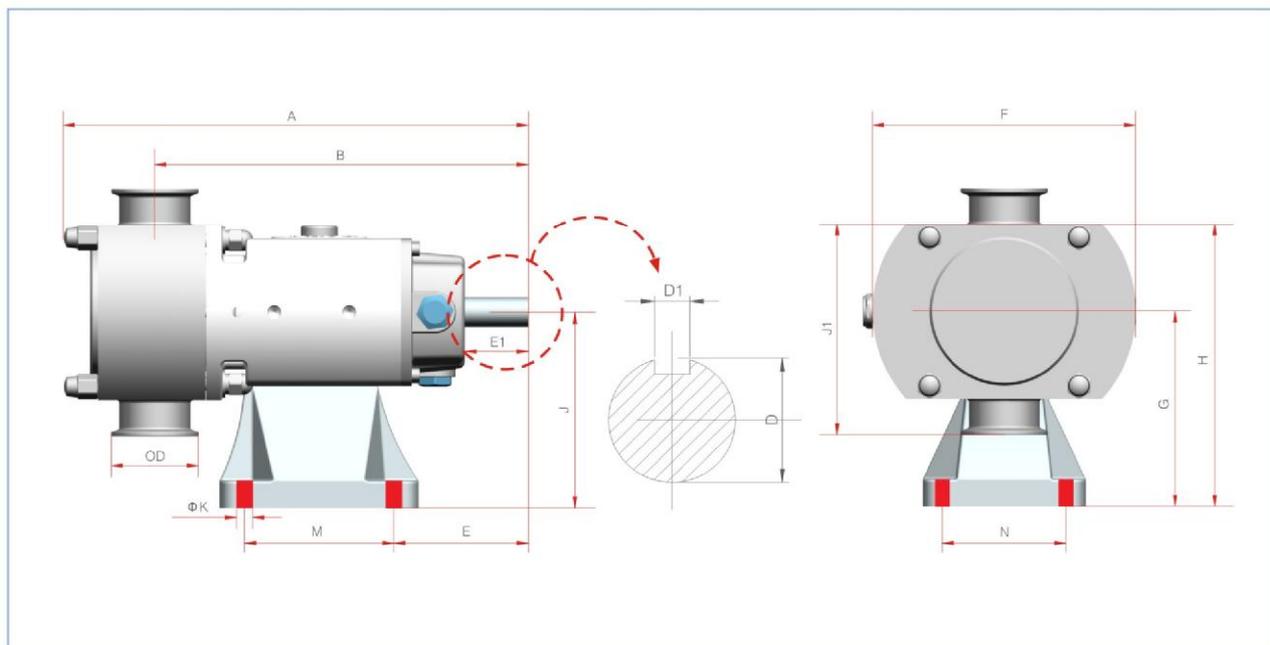
- 1) TUL和TUR系列是铸铁齿轮箱配置
- 2) STUL和STUR系列是不锈钢齿轮箱配置
- 3) 柔性螺旋转子适用于: TUL/R25; TUL/R60; TUL/R100

Note:

- 1) TUL and TUR series are cast iron gearbox configurations
- 2) STUL and STUR series are stainless steel gearbox configurations
- 3) Screw flexible rotor suitable for TUL/R25, TUL/R60, TUL/R100

DJ-TUR 系列转子泵

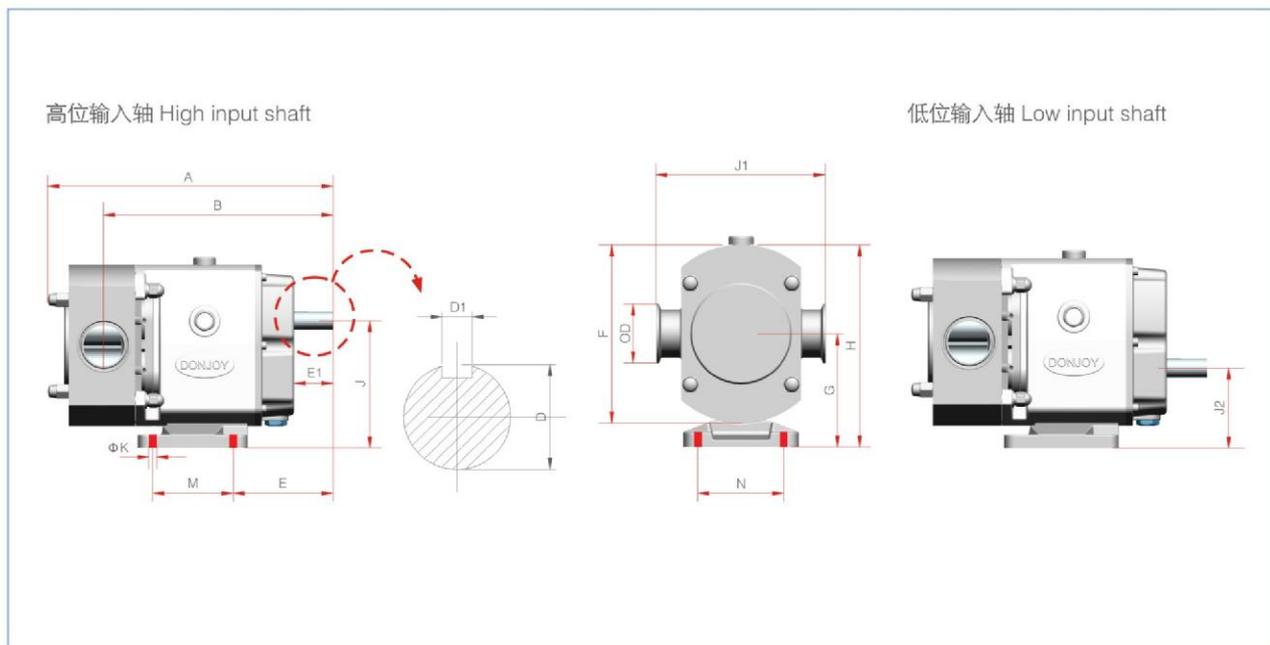
DJ-TUR series lobe pump



| 系列 Model | 外形安装尺寸 Assembly Dimension | | | | | | | | | | | | | | | |
|-------------|---------------------------|-----------|-----|-------|----|----|-----|------|-----|-------|-------|----|-------|-----|-----|-----|
| | 进口 Inlet | 出口 Outlet | A | B | D | D1 | E | E1 | F | G | J | K | M | N | H | J1 |
| TUL/TUR-20 | 1"/DN25 | 1"/DN25 | 317 | 260 | 22 | 6 | 96 | 46.5 | 194 | 144.5 | 144.5 | 12 | 115.5 | 95 | 236 | 183 |
| TUL/TUR-23 | 1.5"/DN40 | 1.5"/DN40 | 327 | 264 | 22 | 6 | 96 | 46.5 | 194 | 144.5 | 144.5 | 12 | 115.5 | 95 | 236 | 183 |
| TUL/TUR-25 | 2"/DN50 | 2"/DN50 | 341 | 274 | 22 | 6 | 96 | 46.5 | 194 | 144.5 | 144.5 | 12 | 115.5 | 95 | 236 | 183 |
| TUL/TUR-30 | 2"/DN50 | 2"/DN50 | 435 | 357 | 28 | 8 | 116 | 56 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| TUL/TUR-35 | 2.5" | 2.5" | 447 | 363 | 28 | 8 | 116 | 56 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| TUL/TUR-55 | DN65 | DN65 | 455 | 368 | 28 | 8 | 116 | 56 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| TUL/TUR-60 | 3" | 3" | 462 | 372 | 28 | 8 | 116 | 56 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| TUL/TUR-70 | 3" | 3" | 539 | 439 | 42 | 8 | 127 | 76 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |
| TUL/TUR-80 | DN80 | DN80 | 539 | 439 | 42 | 8 | 127 | 76 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |
| TUL/TUR-100 | 4"/DN100 | 4"/DN100 | 561 | 448 | 42 | 8 | 127 | 76 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |
| TUL/TUR-125 | DN125 | DN125 | 588 | 462.5 | 42 | 8 | 127 | 76 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |

DJ-TUL 系列转子泵

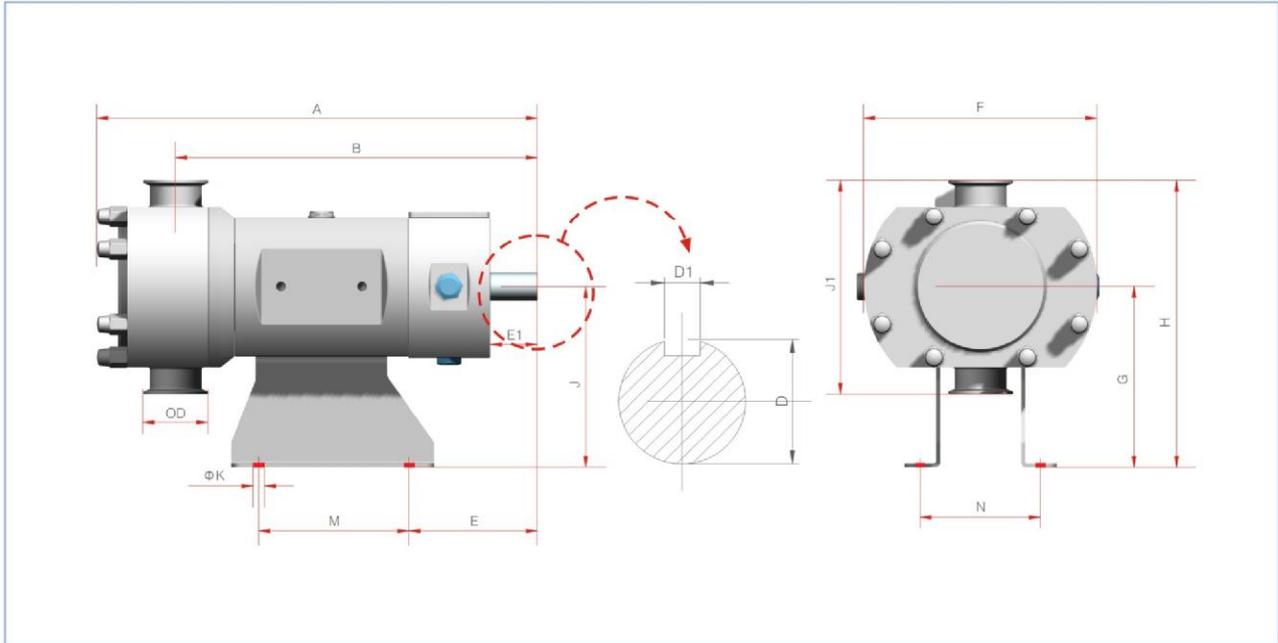
DJ-TUL series lobe pump



| 系列 Model | 外形安装尺寸 Assembly Dimension | | | | | | | | | | | | | | | | |
|-------------|---------------------------|-----------|-----|-------|----|----|-------|------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| | 进口 Inlet | 出口 Outlet | A | B | D | D1 | E | E1 | F | G | J | K | M | N | H | J1 | J2 |
| TUL/TUR-20 | 1"/DN25 | 1"/DN25 | 317 | 260 | 22 | 6 | 118 | 46.5 | 194 | 123 | 153 | 12 | 100 | 100 | 227 | 183 | 93 |
| TUL/TUR-23 | 1.5"/DN40 | 1.5"/DN40 | 327 | 264 | 22 | 6 | 118 | 46.5 | 194 | 123 | 153 | 12 | 100 | 100 | 227 | 183 | 93 |
| TUL/TUR-25 | 2"/DN50 | 2"/DN50 | 341 | 274 | 22 | 6 | 118 | 46.5 | 194 | 123 | 153 | 12 | 100 | 100 | 227 | 183 | 93 |
| TUL/TUR-30 | 2"/DN50 | 2"/DN50 | 435 | 357 | 28 | 8 | 173 | 56 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| TUL/TUR-35 | 2.5" | 2.5" | 447 | 363 | 28 | 8 | 173 | 56 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| TUL/TUR-55 | DN65 | DN65 | 455 | 368 | 28 | 8 | 173 | 56 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| TUL/TUR-60 | 3" | 3" | 462 | 372 | 28 | 8 | 173 | 56 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| TUL/TUR-70 | 3" | 3" | 539 | 439 | 42 | 8 | 171.5 | 76 | 332 | 224 | 284 | 18 | 208 | 193 | 381 | 276 | 164 |
| TUL/TUR-80 | DN80 | DN80 | 539 | 439 | 42 | 8 | 171.5 | 76 | 332 | 224 | 284 | 18 | 208 | 193 | 381 | 276 | 164 |
| TUL/TUR-100 | 4"/DN100 | 4"/DN100 | 561 | 448 | 42 | 8 | 171.5 | 76 | 332 | 224 | 284 | 18 | 208 | 193 | 381 | 276 | 164 |
| TUL/TUR-125 | DN125 | DN125 | 588 | 462.5 | 42 | 8 | 171.5 | 76 | 332 | 224 | 284 | 18 | 208 | 193 | 381 | 276 | 164 |

DJ-STUR 系列转子泵

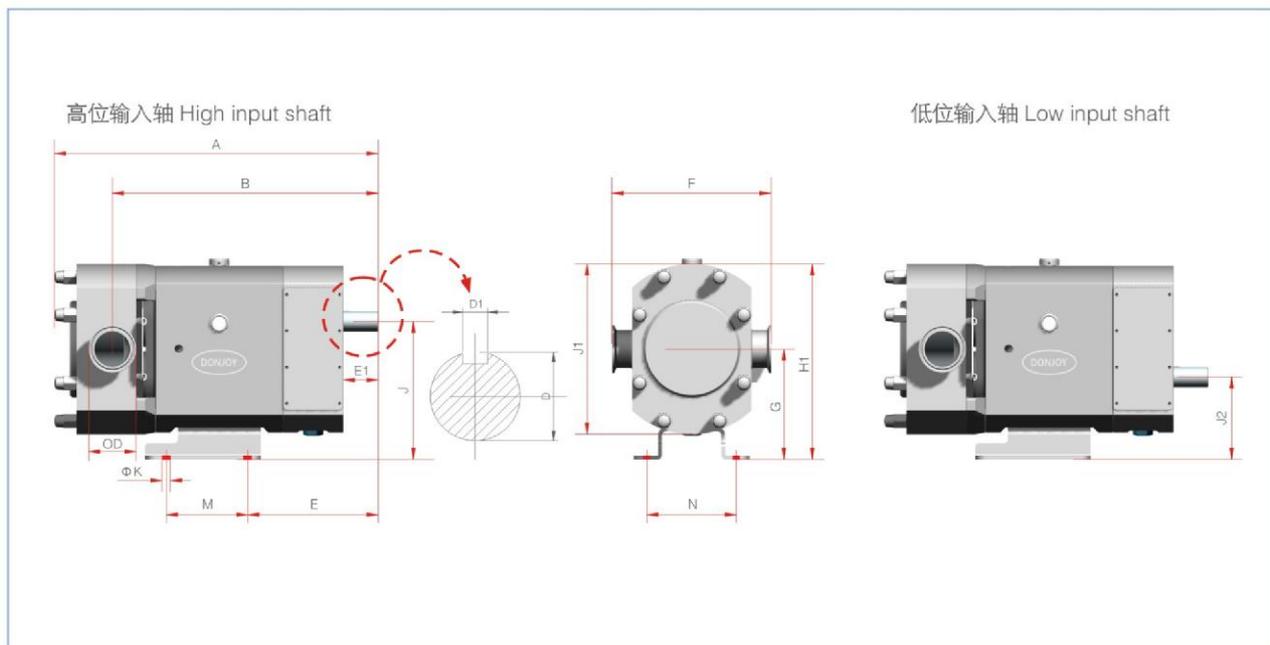
DJ-STUR series lobe pump



| 系列 Model | 外形安装尺寸 Assembly Dimension | | | | | | | | | | | | | | | |
|---------------|---------------------------|-----------|-----|-------|----|----|-----|------|-----|-------|-------|----|-------|-----|-----|-----|
| | 进口 Inlet | 出口 Outlet | A | B | D | D1 | E | E1 | F | G | J | K | M | N | H | J1 |
| STUL/STUR-20 | 1"/DN25 | 1"/DN25 | 317 | 260 | 22 | 6 | 96 | 37.1 | 194 | 144.5 | 144.5 | 12 | 115.5 | 95 | 236 | 183 |
| STUL/STUR-23 | 1.5"/DN40 | 1.5"/DN40 | 327 | 264 | 22 | 6 | 96 | 37.1 | 194 | 144.5 | 144.5 | 12 | 115.5 | 95 | 236 | 183 |
| STUL/STUR-25 | 2"/DN50 | 2"/DN50 | 341 | 274 | 22 | 6 | 96 | 37.1 | 194 | 144.5 | 144.5 | 12 | 115.5 | 95 | 236 | 183 |
| STUL/STUR-30 | 2"/DN50 | 2"/DN50 | 435 | 357 | 28 | 8 | 116 | 46.9 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| STUL/STUR-35 | 2.5" | 2.5" | 447 | 363 | 28 | 8 | 116 | 46.9 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| STUL/STUR-55 | DN65 | DN65 | 455 | 368 | 28 | 8 | 116 | 46.9 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| STUL/STUR-60 | 3" | 3" | 462 | 372 | 28 | 8 | 116 | 46.9 | 230 | 179.5 | 179.5 | 12 | 172 | 125 | 286 | 213 |
| STUL/STUR-70 | 3" | 3" | 539 | 439 | 42 | 8 | 127 | 72.7 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |
| STUL/STUR-80 | DN80 | DN80 | 539 | 439 | 42 | 8 | 127 | 72.7 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |
| STUL/STUR-100 | 4"/DN100 | 4"/DN100 | 561 | 448 | 42 | 8 | 127 | 72.7 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |
| STUL/STUR-125 | DN125 | DN125 | 588 | 462.5 | 42 | 8 | 127 | 72.7 | 332 | 238.5 | 238.5 | 18 | 207 | 194 | 377 | 276 |

DJ-STUL 系列转子泵

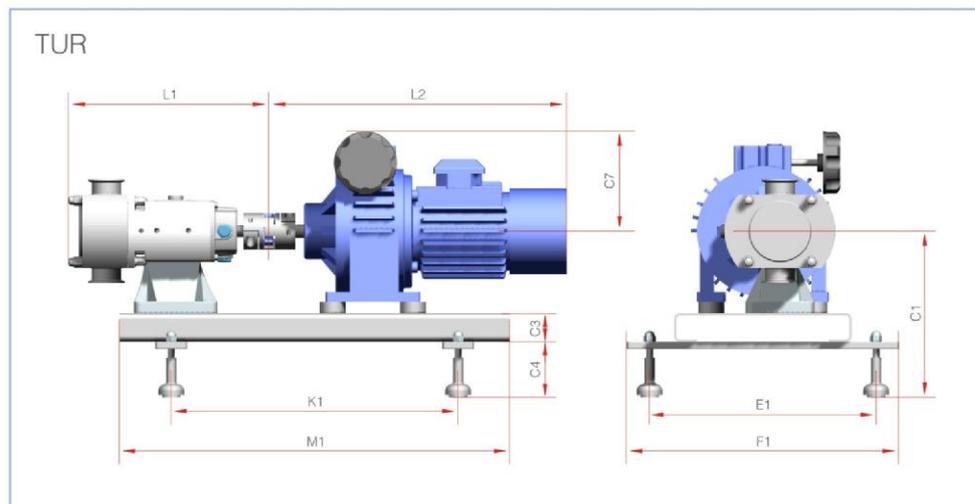
DJ-STUL series lobe pump



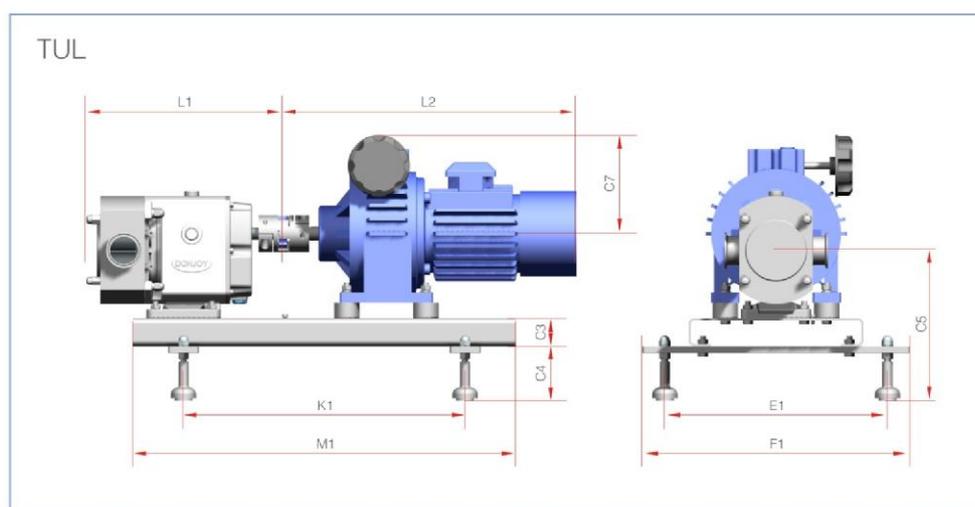
| 系列 Model | 外形安装尺寸 Assembly Dimension | | | | | | | | | | | | | | | | |
|---------------|---------------------------|-----------|-----|-------|----|----|-------|------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| | 进口 Inlet | 出口 Outlet | A | B | D | D1 | E | E1 | F | G | J | K | M | N | H1 | J1 | J2 |
| STUL/STUR-20 | 1"/DN25 | 1"/DN25 | 317 | 260 | 22 | 6 | 118 | 37.1 | 194 | 123 | 153 | 12 | 100 | 100 | 227 | 183 | 93 |
| STUL/STUR-23 | 1.5"/DN40 | 1.5"/DN40 | 327 | 264 | 22 | 6 | 118 | 37.1 | 194 | 123 | 153 | 12 | 100 | 100 | 227 | 183 | 93 |
| STUL/STUR-25 | 2"/DN50 | 2"/DN50 | 341 | 274 | 22 | 6 | 118 | 37.1 | 194 | 123 | 153 | 12 | 100 | 100 | 227 | 183 | 93 |
| STUL/STUR-30 | 2"/DN50 | 2"/DN50 | 435 | 357 | 28 | 8 | 173 | 46.9 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| STUL/STUR-35 | 2.5" | 2.5" | 447 | 363 | 28 | 8 | 173 | 46.9 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| STUL/STUR-55 | DN65 | DN65 | 455 | 368 | 28 | 8 | 173 | 46.9 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| STUL/STUR-60 | 3" | 3" | 462 | 372 | 28 | 8 | 173 | 46.9 | 230 | 149 | 187 | 12 | 125 | 125 | 273 | 213 | 112 |
| STUL/STUR-70 | 3" | 3" | 539 | 439 | 42 | 8 | 171.5 | 72.7 | 332 | 224 | / | 18 | 208 | 193 | 381 | 276 | 164 |
| STUL/STUR-80 | DN80 | DN80 | 539 | 439 | 42 | 8 | 171.5 | 72.7 | 332 | 224 | / | 18 | 208 | 193 | 381 | 276 | 164 |
| STUL/STUR-100 | 4"/DN100 | 4"/DN100 | 561 | 448 | 42 | 8 | 171.5 | 72.7 | 332 | 224 | / | 18 | 208 | 193 | 381 | 276 | 164 |
| STUL/STUR-125 | DN125 | DN125 | 588 | 462.5 | 42 | 8 | 171.5 | 72.7 | 332 | 224 | / | 18 | 208 | 193 | 381 | 276 | 164 |

机械无极减速机-转子泵-尺寸数据表

Mechanical stepless reducer-lobe pump-size data sheet



| 系列 Model | L1 |
|------------|-----|
| TUL/TUR20 | 327 |
| TUL/TUR23 | 337 |
| TUL/TUR25 | 351 |
| TUL/TUR30 | 445 |
| TUL/TUR35 | 457 |
| TUL/TUR55 | 465 |
| TUL/TUR60 | 472 |
| TUL/TUR70 | 549 |
| TUL/TUR80 | 549 |
| TUL/TUR100 | 571 |

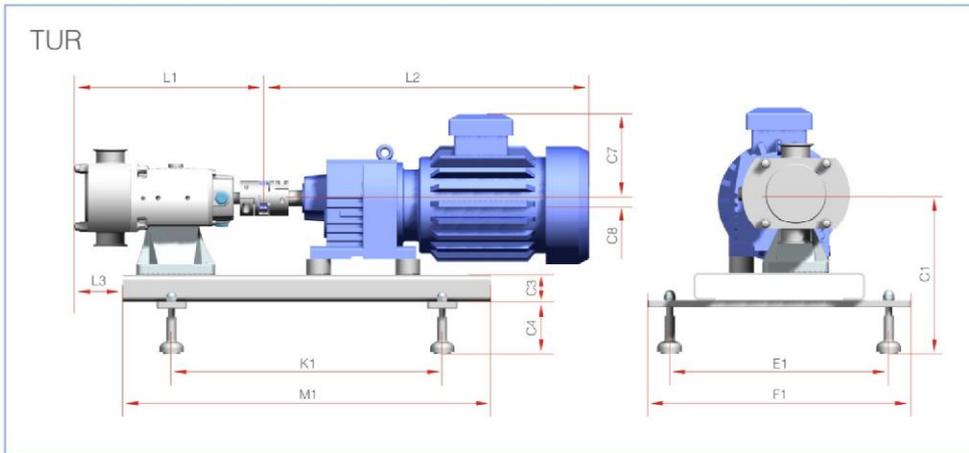


| 系列 Model | L1 |
|------------|-----|
| TUL/TUR20 | 327 |
| TUL/TUR23 | 337 |
| TUL/TUR25 | 351 |
| TUL/TUR30 | 445 |
| TUL/TUR35 | 457 |
| TUL/TUR55 | 465 |
| TUL/TUR60 | 472 |
| TUL/TUR70 | 549 |
| TUL/TUR80 | 549 |
| TUL/TUR100 | 571 |

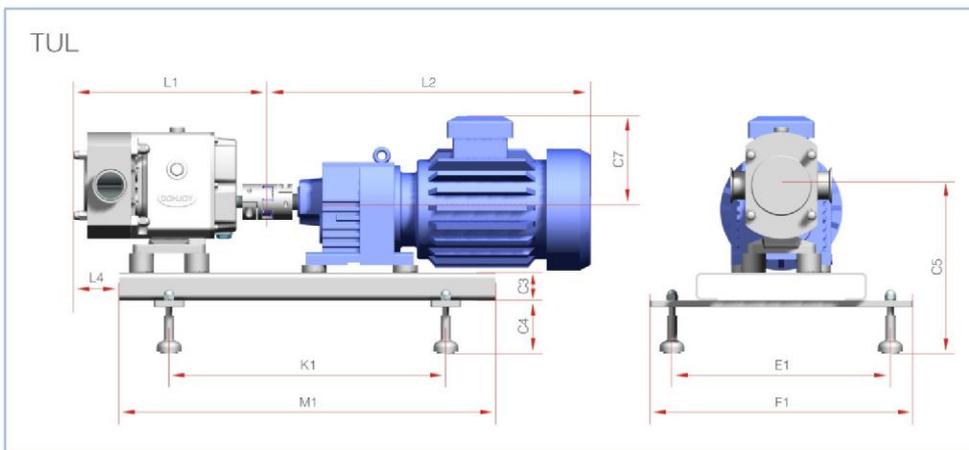
| 系列 Model | 电机功率 Motor power | C3 | C4 | E1 | F1 | K1 | M1 | L2 | C7 | C1 | C5 |
|----------------|---------------------|----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| TUL/TUR-20-25 | 1.1KW-1.5KW | 50 | 100 | 395 | 475 | 500 | 680 | 519 | 178 | 291.5 | 270 |
| | 2.2KW | 50 | 100 | 475 | 555 | 600 | 780 | 627 | 178 | 291.5 | 270 |
| | 3KW-4KW | 50 | 100 | 475 | 555 | 600 | 780 | 627 | 205 | 291.5 | 270 |
| TUL/TUR-30-60 | 3KW-4KW | 50 | 100 | 475 | 555 | 600 | 780 | 627 | 205 | 350 | 296 |
| | 5.5KW | 50 | 100 | 545 | 625 | 770 | 950 | 770 | 240 | 350 | 312.5 |
| | 7.5KW | 50 | 100 | 545 | 625 | 770 | 950 | 770 | 240 | 350 | 312.5 |
| TUL/TUR-70-125 | 5.5-7.5KW | 50 | 100 | 545 | 625 | 770 | 950 | 770 | 240 | 388.5 | 410 |

可变频电机输出减速机-转子泵-尺寸数据表

Variable frequency motor output reducer-lobe pump -size data sheet



| 系列 Model | L1 | L3 |
|------------|-----|-----|
| TUL/TUR20 | 327 | 90 |
| TUL/TUR23 | 337 | 90 |
| TUL/TUR25 | 351 | 90 |
| TUL/TUR30 | 445 | 106 |
| TUL/TUR35 | 457 | 106 |
| TUL/TUR55 | 465 | 106 |
| TUL/TUR60 | 472 | 106 |
| TUL/TUR70 | 549 | 165 |
| TUL/TUR80 | 549 | 165 |
| TUL/TUR100 | 571 | 165 |
| TUL/TUR125 | 598 | 165 |

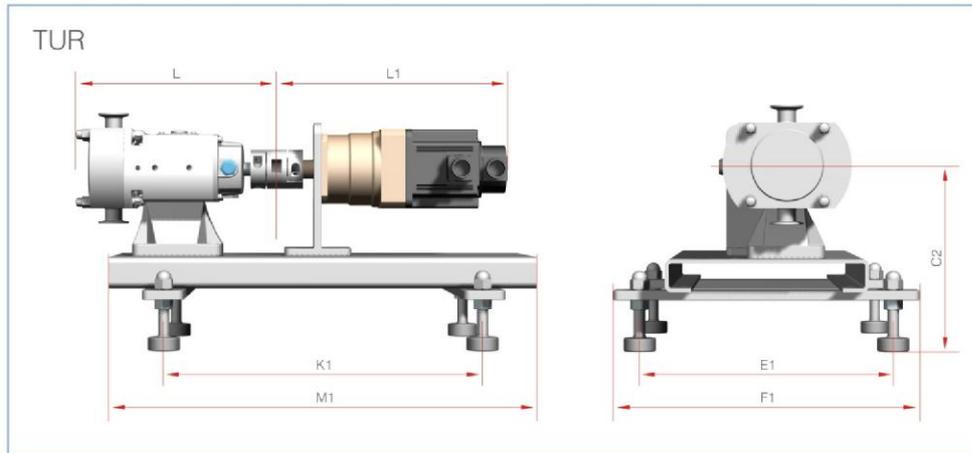


| 系列 Model | L1 | L4 |
|------------|-----|-----|
| TUL/TUR20 | 327 | 83 |
| TUL/TUR23 | 337 | 83 |
| TUL/TUR25 | 351 | 83 |
| TUL/TUR30 | 445 | 96 |
| TUL/TUR35 | 457 | 96 |
| TUL/TUR55 | 465 | 96 |
| TUL/TUR60 | 472 | 96 |
| TUL/TUR70 | 549 | 120 |
| TUL/TUR80 | 549 | 120 |
| TUL/TUR100 | 571 | 120 |
| TUL/TUR125 | 598 | 120 |

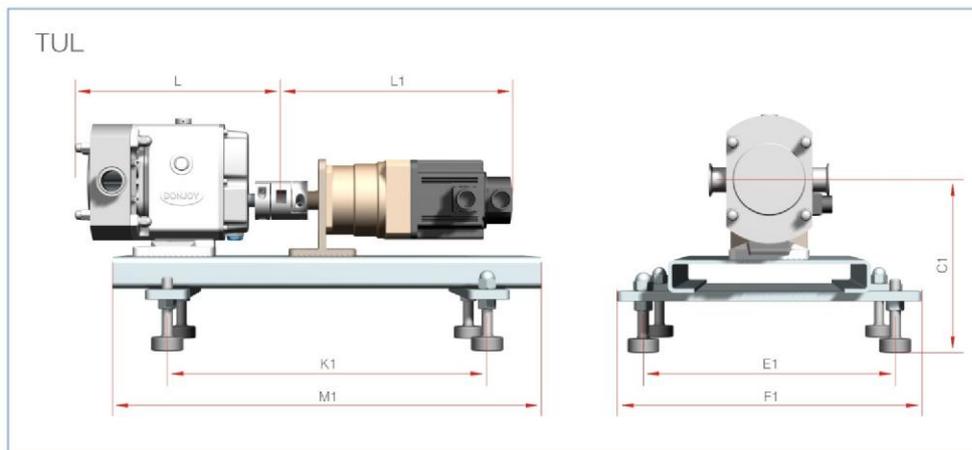
| 系列 Model | 电机功率 Motor power | C3 | C4 | E1 | F1 | K1 | M1 | L2 | C7 | C1 | C5 |
|----------------|---------------------|-----|-----|-----|-----|------|------|-----|-----|-----|-------|
| TUL/TUR-20-25 | 1.1KW | 50 | 100 | 395 | 475 | 500 | 680 | 471 | 131 | 295 | 270 |
| | 1.5kw | 50 | 100 | 395 | 475 | 500 | 680 | 483 | 150 | 295 | 298 |
| | 2.2kW | 50 | 100 | 395 | 475 | 500 | 680 | 483 | 150 | 295 | 298 |
| | 3KW | 50 | 100 | 395 | 475 | 500 | 680 | 483 | 150 | 295 | 298 |
| TUL/TUR-30-60 | 4KW | 50 | 100 | 395 | 475 | 500 | 680 | 592 | 170 | 295 | 305.5 |
| | 3KW | 50 | 100 | 395 | 475 | 500 | 680 | 483 | 150 | 330 | 296 |
| | 4KW | 50 | 100 | 395 | 475 | 500 | 680 | 592 | 170 | 330 | 299.5 |
| | 5.5KW | 50 | 100 | 545 | 625 | 770 | 950 | 730 | 170 | 330 | 314.5 |
| TUL/TUR-70-125 | 7.5KW | 50 | 100 | 545 | 625 | 770 | 950 | 730 | 170 | 330 | 314.5 |
| | 5.5KW | 50 | 100 | 545 | 625 | 770 | 950 | 730 | 170 | 389 | 374 |
| | 7.5KW | 50 | 100 | 545 | 625 | 770 | 950 | 730 | 170 | 389 | 374 |
| | 11KW | 50 | 100 | 545 | 625 | 920 | 1100 | 984 | 253 | 389 | 435 |
| | 15KW | 50 | 100 | 545 | 625 | 920 | 1100 | 984 | 253 | 389 | 435 |
| 18.5KW | 50 | 100 | 545 | 625 | 920 | 1100 | 984 | 253 | 389 | 435 | |

伺服电机减速机-转子泵-尺寸数据表

Servo motor speed reducer-lobe pump-dimension data sheet



| 系列 Model | L |
|----------|-----|
| TUR-20 | 325 |
| TUR-23 | 335 |
| TUR-25 | 349 |
| TUR-30 | 443 |
| TUR-35 | 455 |
| TUR-55 | 463 |
| TUR-60 | 470 |
| TUR-70 | 547 |
| TUR-80 | 547 |
| TUR-100 | 569 |
| TUR-125 | 596 |



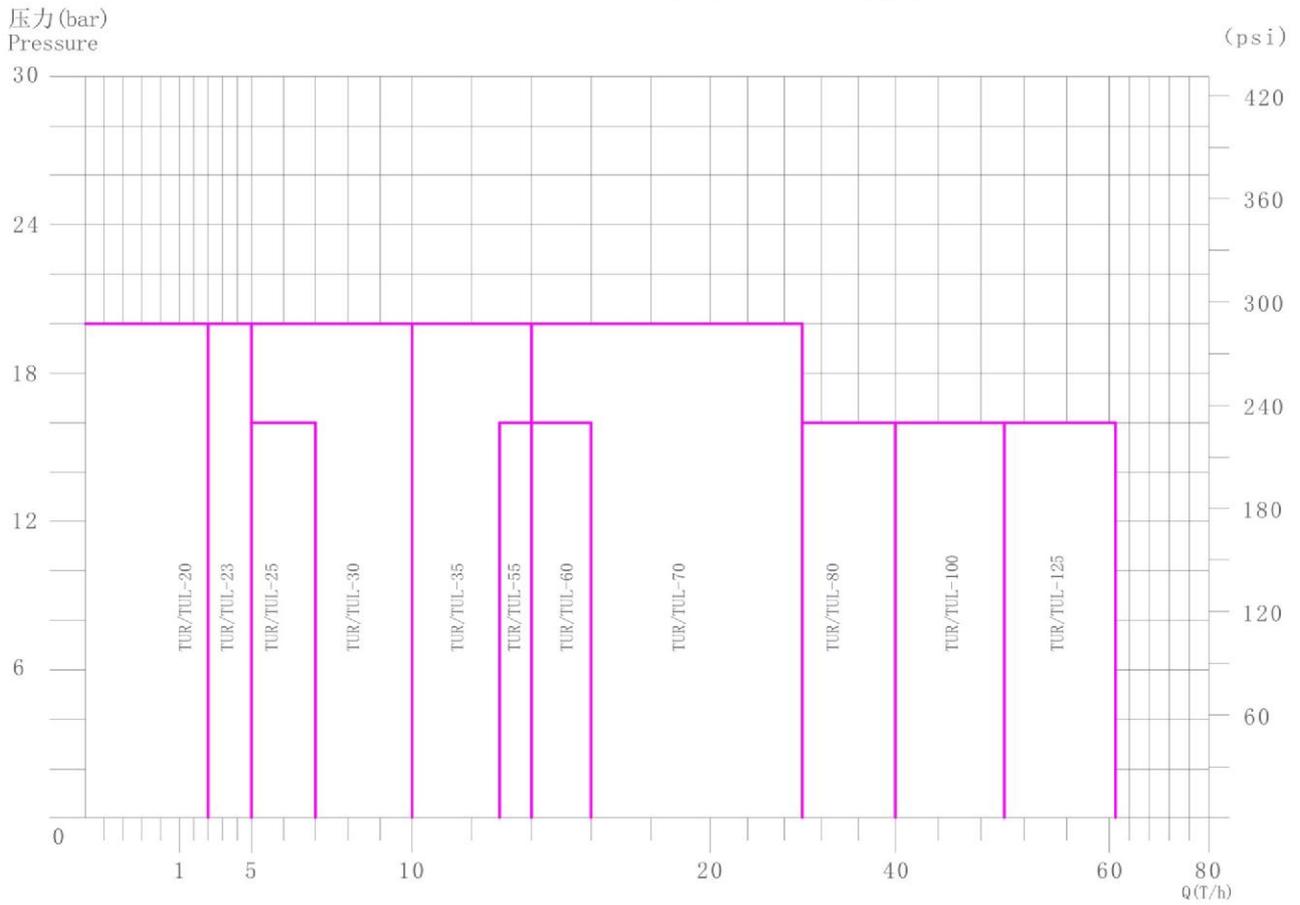
| 系列 Model | L |
|----------|-----|
| TUL-20 | 325 |
| TUL-23 | 335 |
| TUL-25 | 349 |
| TUL-30 | 443 |
| TUL-35 | 455 |
| TUL-55 | 463 |
| TUL-60 | 470 |
| TUL-70 | 547 |
| TUL-80 | 547 |
| TUL-100 | 569 |
| TUL-125 | 596 |

| 系列 Model | 电机功率 Motor power | C1 | C2 | L1 | E1 | F1 | K1 | M1 |
|----------------|---------------------|-----|-----|-----|-----|-----|-----|-----|
| TUL/TUR-20-25 | 1.0KW | 273 | 295 | 358 | 395 | 475 | 500 | 680 |
| | 1.5KW | 273 | 295 | 378 | 395 | 475 | 500 | 680 |
| | 2.0KW | 273 | 295 | 398 | 395 | 475 | 500 | 680 |
| | 3.0KW | 273 | 295 | 474 | 395 | 475 | 500 | 680 |
| | 4.5KW | 273 | 295 | 507 | 395 | 475 | 500 | 680 |
| | 5.5KW | 273 | 295 | 551 | 395 | 475 | 500 | 680 |
| TUL/TUR-30-60 | 3.0KW | 299 | 330 | 474 | 395 | 475 | 500 | 680 |
| | 4.5KW | 299 | 330 | 507 | 395 | 475 | 500 | 680 |
| | 5.5KW | 299 | 330 | 610 | 395 | 475 | 500 | 680 |
| | 7.5KW | 299 | 330 | 672 | 395 | 475 | 500 | 680 |
| TUL/TUR-70-100 | 5.5KW | 376 | 389 | 610 | 545 | 625 | 770 | 950 |
| | 7.5KW | 376 | 389 | 672 | 545 | 625 | 770 | 950 |
| | 11KW | 376 | 389 | 710 | 545 | 625 | 770 | 950 |
| | 15KW | 376 | 389 | 789 | 545 | 625 | 770 | 950 |

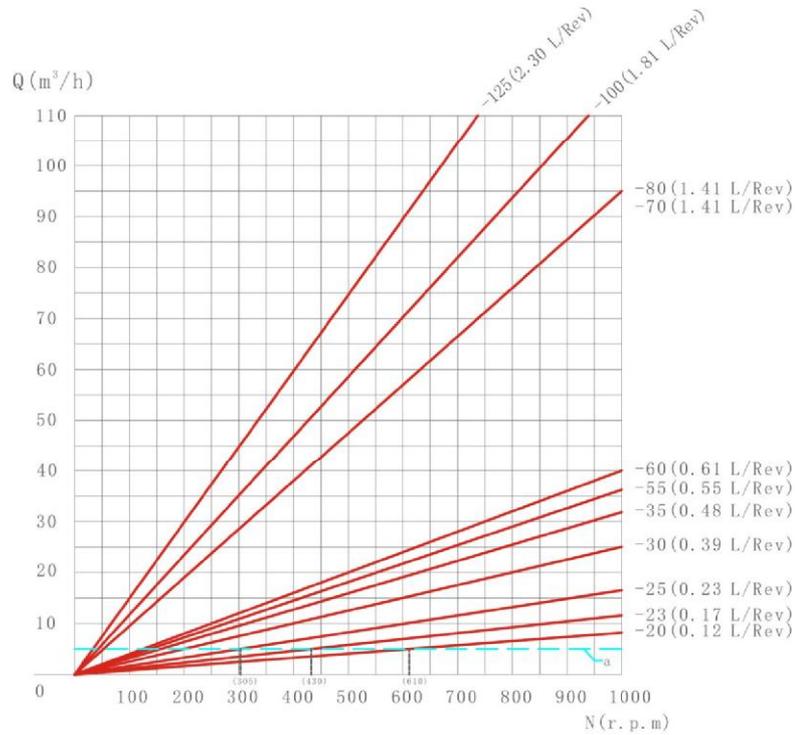
TUL/TUR 系列转子泵综合曲线图

TUL/TUR series lobe pump comprehensive graph

TUR/TUL 转子泵流量Q(T/h)-压力(bar)曲线图
 TUR/TUL Lobe pump flow rate Q(T/H)-Pressure (Bar) graph

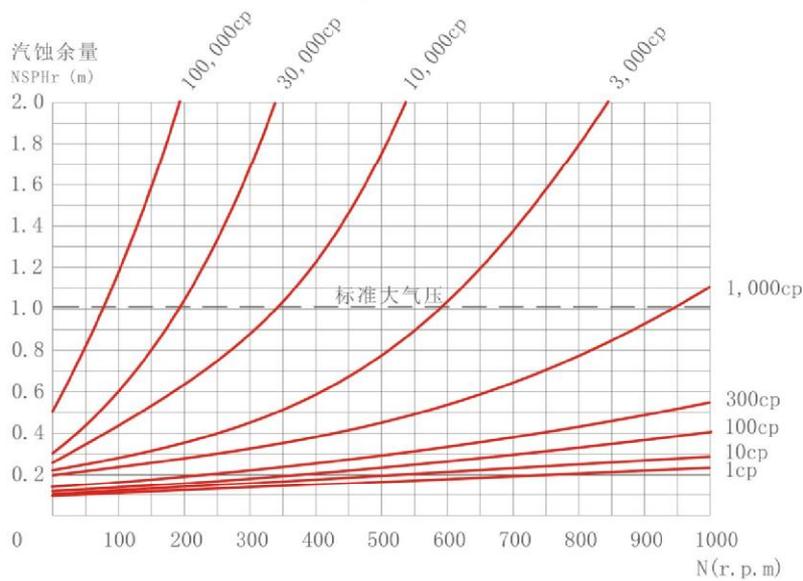


TUR/TUL 转子泵流量Q(L/h)-转速(R.P.M)曲线图(DWG.01)
 TUR/TUL Lobe Pump Flow Rate Q(L/h)-Speed (R.P.M) Graph (DWG.01)



说明: 流量计算公式 $Q=0.06K \cdot N$,其中Q:流量(T/h), K:排量系数(L/转), N:转速--200~1000 (r.p.m)
 Description: Calculation formula $Q=K \cdot N$, Q: Flow (t/h), K=Coefficient of discharge (L/Rev.), N: Speed--200~1000 (R.P.M)

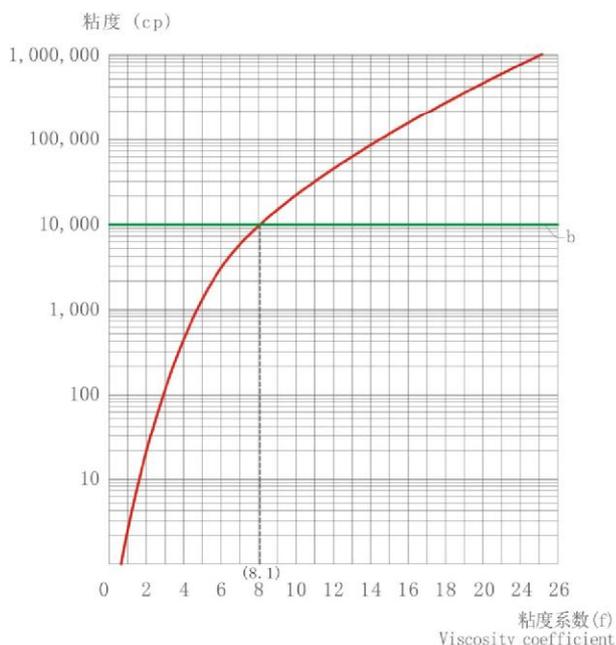
TUR/TUL 转子泵汽蚀余量NPSHr(M)-转速(r.p.m)曲线图(DWG.02)
 TUR/TUL Lobe pump NPSHr(M)-Speed(R.P.M) Graph(DWG.02)



TUL/TUR 系列转子泵综合曲线图

TUL/TUR series lobe pump comprehensive graph

TUR/TUL 转子泵粘度(cp)与粘度系数(f)曲线图(DWG.03)
TUR/TUI Lobe pump Viscosity (cp) & viscosity coefficient Graph(DWG)



机械密封功率系数(Tab.01)

| 机封类型 | 机封材料 | 功率系数s |
|------|---------|-------|
| 单机封 | SIC/SIC | 0.5 |
| 双机封 | SIC/SIC | 1 |

电机功率按下面公式计算:

Motor power in the following formula:

$$P=(Q*H/18.5+f+s)*N$$

转子驱动扭力按下面公式计算:

Rotor drive torque in the following formula:

$$M=P*9.56/N$$

P=功率power (W)

H=出口压力Outlet pressure (Bar)

f=粘度功率系数Viscosity power coefficient

(查图 Check chart DWG.03)

S=机械密封功率系数Mechanical seal power coefficient

(查表 Check chart Tab.01)

N=转子转速Rotor speed(r.p.m)

M=扭力 torsion (N.M)

选型举例

最大流量5T出口压力10bar, 粘度10.000cp, 如何选择转子泵选择步骤如下:

1.预选转速, 图DWG01, 画5T---虚线a与斜线相交的转速为:

$$N-20=610 \text{ r.p.m}$$

$$N-23=430 \text{ r.p.m}$$

$$N-25=305 \text{ r.p.m}$$

2.确定粘度系数, 图DWG03, 画粘度10,000cp---虚线b与曲线相交, 得粘度系数为:

$$f=8.1$$

3.确定机械密封功率系数单机封, 密封材料SIC/SIC

$$s=0.5$$

4.计算功率

根据公式 $P=(Q*H/18.5+f+s)*N$ 得:

$$P-20=(5*10/18.5+8.1+0.5)*610=6.894\text{kw}$$

$$P-23=(5*10/18.5+8.1+0.5)*430=4.860\text{kw}$$

$$P-25=(5*10/18.5+8.1+0.5)*305=3.447\text{kw}$$

5.确定型号

根据手册型号表

TUL/TUR-25 3-7T1bar/4.0kw可满足参数要求

Type lift column

Maximum flow 5 T outlet pressure 10bar, viscosity 10.000 cp, how to choose rotor pump Choose steps are as follows:

1.The primary speed, figure DWG01, draw 5 T - dotted line a and lash at the intersection of speed for:

$$N-20=610 \text{ r.p.m}$$

$$N-23=430 \text{ r.p.m}$$

$$N-25=305 \text{ r.p.m}$$

2.Determine the coefficient of viscosity, figure DWG03, drawing viscosity 10,000cp---dotted line b and curve phase Pay, coefficient of viscosity for:

$$f=8.1$$

3.Determine mechanical seal power coefficient single seal, seal material SIC/SIC

$$s=0.5$$

4.Computing power

According to the formula $P=(Q*H/18.5+f+s)*N$ must:

$$P-20=(5*10/18.5+8.1+0.5) *610=6.894\text{kw}$$

$$P-23=(5*10/18.5+8.1+0.5) *430=4.860\text{kw}$$

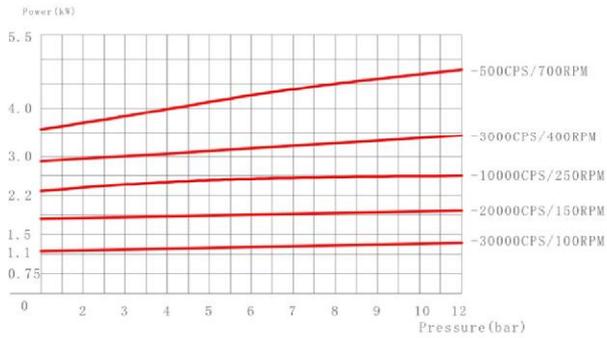
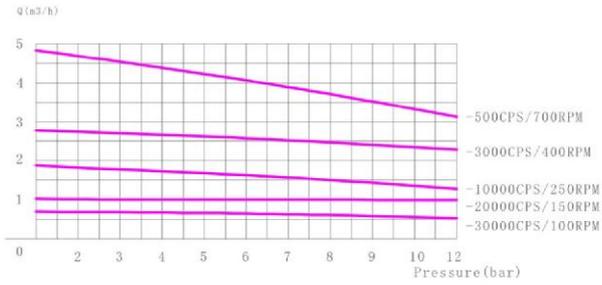
$$P-25=(5*10/18.5+8.1+0.5) *305=3.447\text{kw}$$

5.Sure model

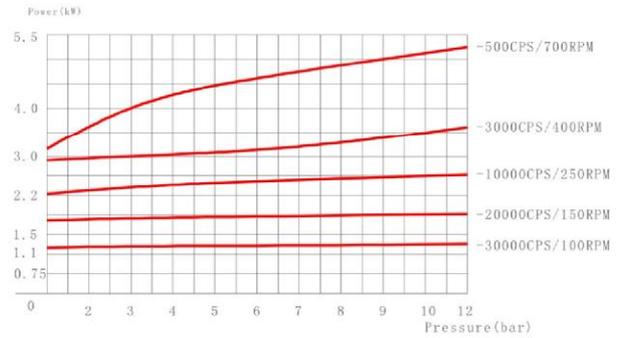
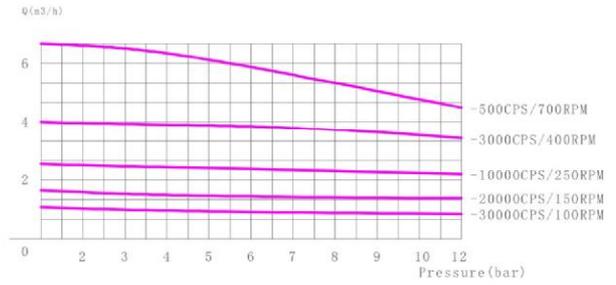
According to the manual type table

TUL/TUR - 25 3 to 7T1bar/4.0kw can meet requirements parameters

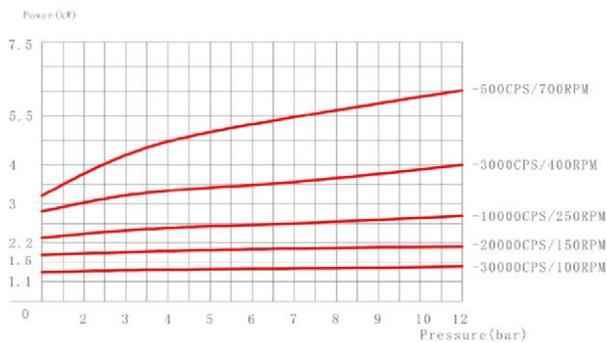
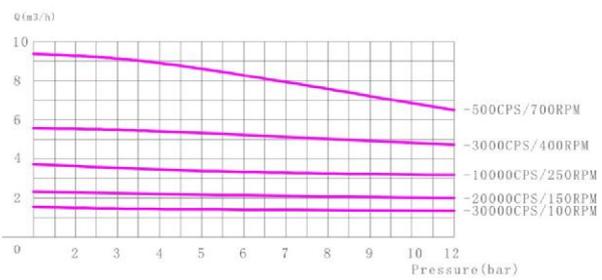
TUR/TUL20转子泵综合曲线图
Lobe pump comprehensive graph



TUR/TUL23转子泵综合曲线图
Lobe pump comprehensive graph



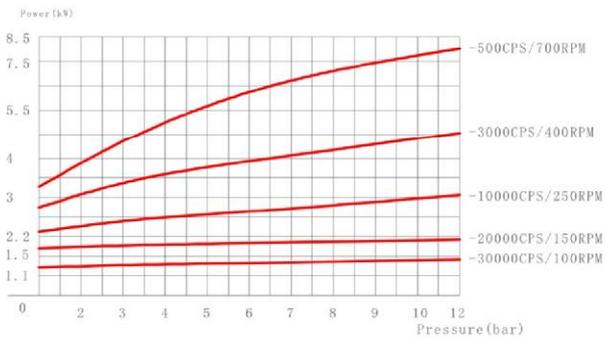
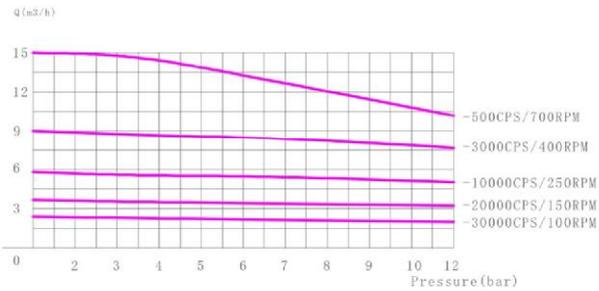
TUR/TUL25转子泵综合曲线图
Lobe pump comprehensive graph



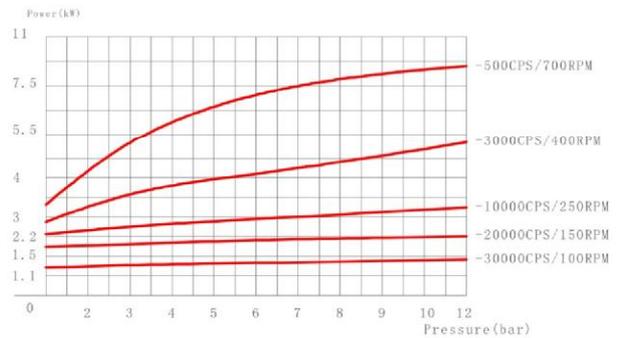
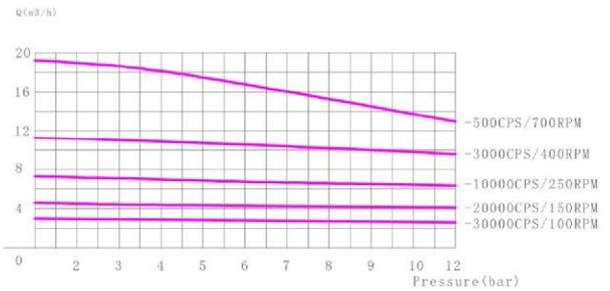
TUL/TUR 系列转子泵综合曲线图

TUL/TUR series lobe pump comprehensive graph

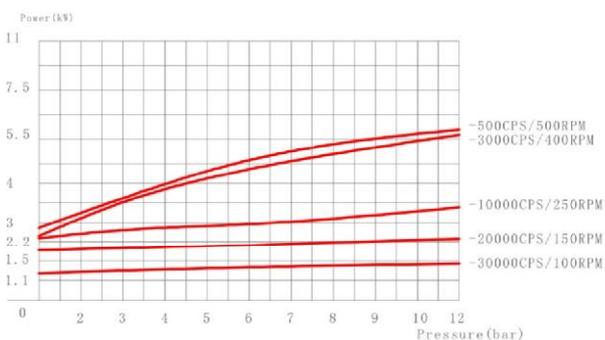
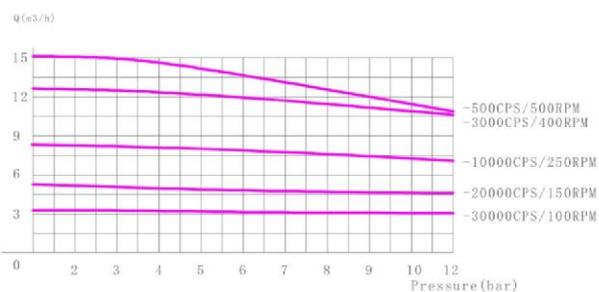
TUR/TUL30转子泵综合曲线图
Lobe pump comprehensive graph



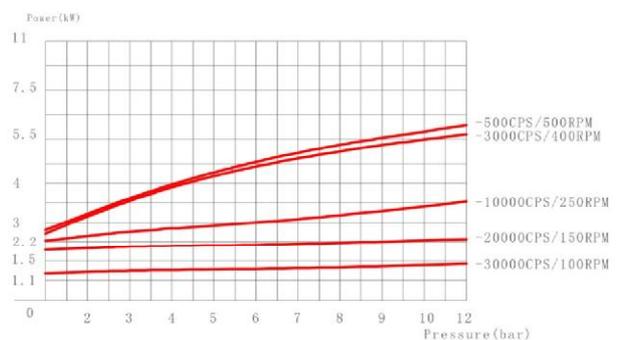
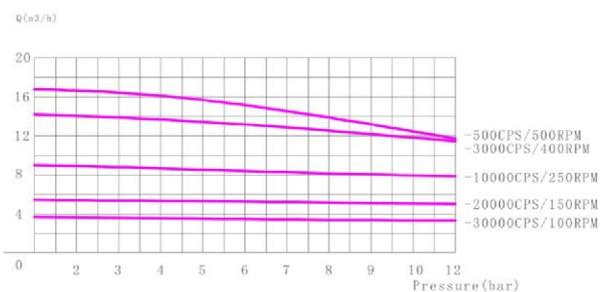
TUR/TUL35转子泵综合曲线图
Lobe pump comprehensive graph



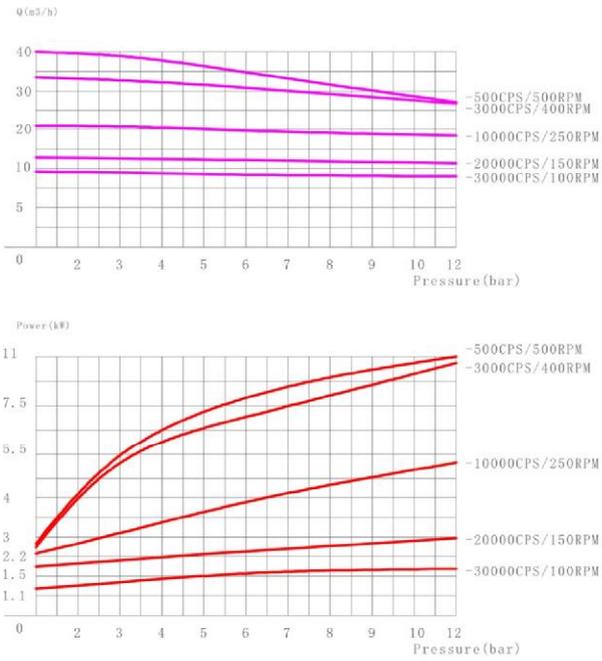
TUR/TUL55转子泵综合曲线图
Lobe pump comprehensive graph



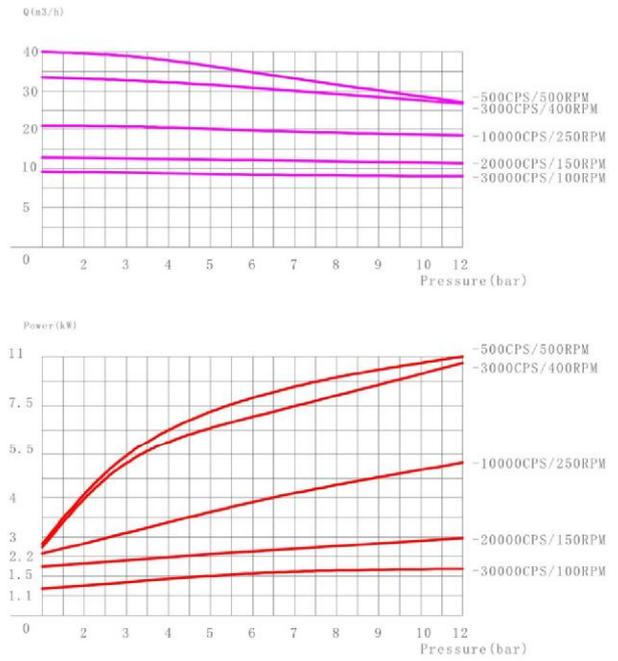
TUR/TUL60转子泵综合曲线图
Lobe pump comprehensive graph



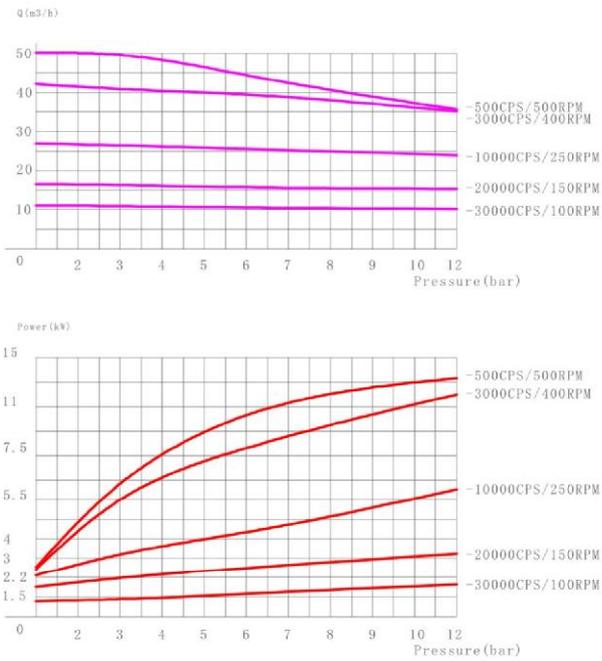
TUR/TUL70转子泵综合曲线图
Lobe pump comprehensive graph



TUR/TUL80转子泵综合曲线图
Lobe pump comprehensive graph



TUR/TUL100转子泵综合曲线图
Lobe pump comprehensive graph



TUR/TUL125转子泵综合曲线图
Lobe pump comprehensive graph

