

卫生凸轮泵(转子泵) Hygienic lobe pump(rotor pump)

高洁净、低噪音、
高压20bar转子泵

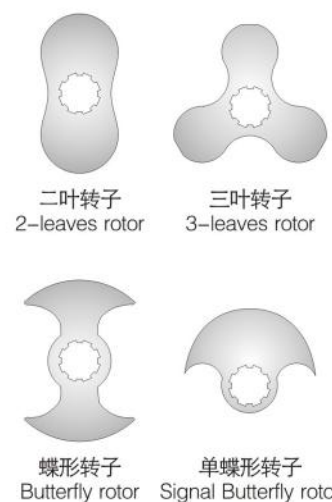


应用Applications

- ◆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。
- ◆该设备按3A标准过程控制，有严格的卫生要求。
- ◆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。USA 3A-02-10NO.1579, CE-MD/06-42密封 FDA.177.2600认证。
- ◆The pump is a positive displacement lobe rotor pump designed according to USA 3A standard.
- ◆The equipment is processed with USA 3A and very strict hygienic.
- ◆The pump is ideal for the transfer of viscous as well as low-viscous media in the food-processing, Cosmetics and pharmaceutical industries.

材质Materials

- ◆熔模铸造泵体: AISI 316L(1.4404)/AISI 304(1.4301)
- ◆垫圈(标准): EPDM根据FDA 177.2600
- ◆机械密封圈(标准): SIC/SIC/EPDM
- ◆内表面处理: $Ra \leq 0.6 \mu m$
- ◆外表面处理: 镜面抛光
- ◆Investment casting body: AISI 316L(1.4404)/AISI 304(1.4301)
- ◆Gaskets (standard): EPDM according to FDA 177.2600
- ◆Mechanical seal(Standard): SIC/SIC/EPDM
- ◆Internal surface finish: $Ra \leq 0.6 \mu m$
- ◆External surface finish: mirror polish



卫生凸轮泵(转子泵)

Hygienic lobe pump(rotor pump)

工作原理图

A.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。

B.由于轴旋转的原理，两个转子都是不断的加载空气，液体被移到传送端，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。

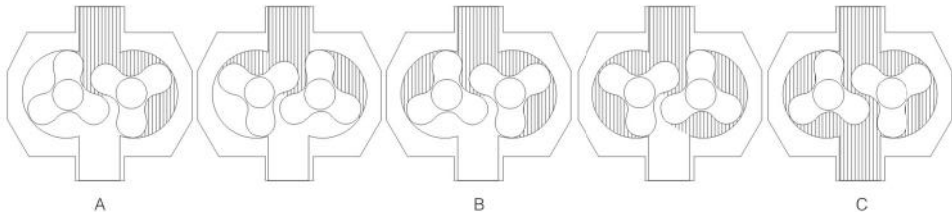
C.泵腔完全加载后，液体通过转子叶片甩出并与两壁间的空间相反。

Drawing of operating principles

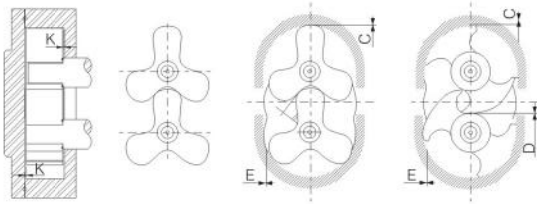
A.As the lobes rotate,the space on the suction side increases as one lobe is distanced from another,thus creating a partial vacuum which draws the fluid into the pump chamber.

B.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 te pump body ensure that the spaces are duly filled.

C.The pump housing is ompletely 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.



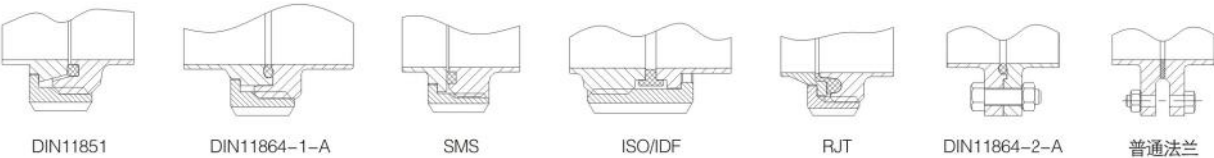
转子间隙公差 Rotor gap tolerance



转子安装间隙推荐表
Lobe Assembling Clearance Recommend Table

Size	C(mm)	D(mm)	E(mm)	K(mm)	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 60	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	0.40 ± 0.05
TUL/TUR 23	0.25 ± 0.05	0.20 ± 0.05	0.20 ± 0.05	0.20 ± 0.03	TUL/TUR 70	0.40 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	0.50 ± 0.05
TUL/TUR 25	0.25 ± 0.05	0.20 ± 0.05	0.20 ± 0.05	0.20 ± 0.03	TUL/TUR 80	0.40 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	0.50 ± 0.05
TUL/TUR 30	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	TUL/TUR 100	0.40 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	0.50 ± 0.05
TUL/TUR 35	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	TUL/TUR 125	0.40 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	0.50 ± 0.05
TUL/TUR 55	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	0.30 ± 0.05		0.40 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	0.50 ± 0.05

各种连接方式 Various connections



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专利保护
外观专利
实用新型2项



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选项

- ◆机械密封圈: SIC/SIC/EPDM/TC/TC/EPDM
- ◆水冷却机械密封、单机械密封
- ◆垫圈FPM(Viton), NBR, EPDM
- ◆外置安全系统
- ◆内置安全系统
- ◆带端面保温室
- ◆全保温室
- ◆垂式TUR系列, 水平式TUL系列
- ◆各种类型的驱动和装置:
 - (1)手动机械无极调速
 - (2)变频电机调速(变频器订购时需说明)
 - (3)定速比输出(固定转速)
- ◆连接: 卡箍(DIN32676, 3A, ISO), 螺纹(DIN, SMS, RJT, IDF)对焊, 法兰
- ◆材质证书(3.1), 表面粗糙证书
- ◆电机安装型号(B5), 电机频率50HZ, 60HZ
- ◆电压(V)220-240, 360-400, 420-460, 630-690
- ◆电机标准: 国际IEC(标准)/美国NEMA(选项)

技术规格 Technical specifications

- ◆最大流量: 90m³/h/395 GPM
- ◆最高压力: 12bar/174 PSI
- ◆最高温度: 150°C/302°F
- ◆最高转速: 1450 rpm
- ◆Max.flow: 90m³/h/395 GPM
- ◆Max.pressure: 12bar/174 PSI
- ◆Max.working temperature: 150°C/302°F
- ◆Max.rev: 1450 rpm

设计和特点 Design and features

- ◆水平式TUL
- ◆垂直式TUR
- ◆蝶形转子(标准)
- ◆卫生设计根据3A
- ◆卫生外置式机封设计
- ◆容易清洁和维护
- ◆连接: 卡箍(标准)
- ◆适于CIP清洗和SIP杀菌
- ◆Horizontal TUL
- ◆Vertical TUR
- ◆Bare-shaft construction
- ◆Butterfly rotor(standard)
- ◆Hygienic design of the attachment of the rotors
- ◆Sanitary mechanical seal, Easy cleaning and maintenance
- ◆Connections: Clamp(standard)
- ◆Applied to CIP cleaning and SIP sterilization

Options

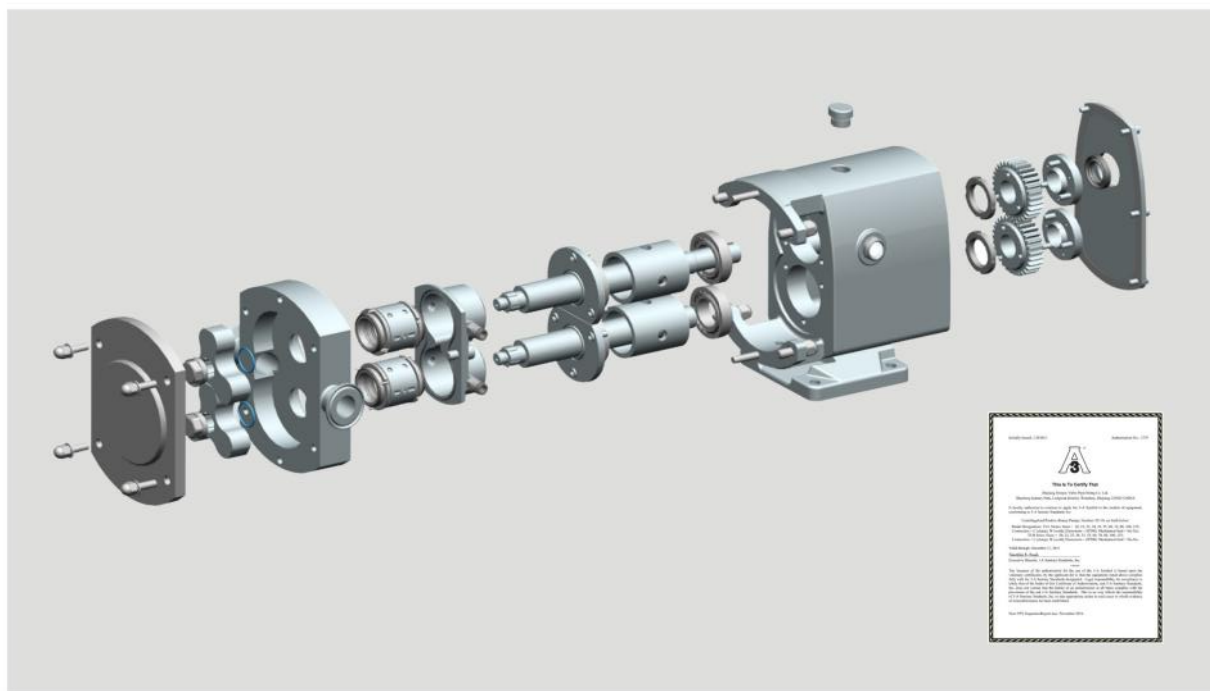
- ◆Mechanical seal: SIC/SIC/EPDM/TC/TC/EPDM
- ◆Flushed single or double mechanical seal
- ◆Gasket: FPM(Viton), NBR, EPDM
- ◆Relief valve at the front cover or external by-pass
- ◆Built-in safety valve
- ◆End-face heat jacket
- ◆Complete heat jacket
- ◆Vertical TUR series or Horizontal TUL series
- ◆Different drives and fixes:
 - (1)Manual Continuously Variable Transmission
 - (2)Frequency converter adjust motor gear box
 - (3)Fixed speed output transmission
- ◆Assembly on a stainless steel baseplate
- ◆Connections: Clamp(DIN32676, 3A, ISO), Thread(DIN, SMS, RJT, IDF) butt weld, flange
- ◆Material certificates(3.1), roughness certificate
- ◆Motor type B5. Motor frequency 50HZ, 60HZ
- ◆Voltage(V)220-240, 360-400, 420-460, 630-690

电机采用IEC EN IE2高效等级(相当于中国二级能效), PTC热敏电阻
Motor utilize the IEC EN IE2(Equivalent to China two energy efficiency), PTC thermistor

宽电压电机Wide input range motor

功率(kw) Power	电压备注 Voltage	功率(kw) Power	电压备注 Voltage
0.75		4	
1.1	210V~230V/50HZ	4.5	360V~400V/50HZ
1.5	360V~400V/50HZ	7.5	630V~690V/50HZ
2.2	420V~460V/60HZ	11	420V~460V/60HZ
3		15	

卫生凸轮泵(转子泵) Hygienic lobe pump(rotor pump)



保温型转子泵 Lobe pump with heat jacket

配置保温室的转子泵广泛应用于输送巧克力，糖果，胶基等在常温下凝冻或高温下易变质的物料，根据工艺要求配备前盖保温或者四周保温等机构。

Lobe pump with heat jacket is widely used in transportation of chocolate, candy, gum, etc. Which materials will freeze at room temperature or perishable materials at high temperatures, according to process requirements, with the front cover or around the heat insulation structure.



水冷机封(双机封设计)转子泵 Water-cooled mechanical seal Lobe pump

带冷却装置的转子泵，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 mechanical seal is used for high temperature, high viscosity, continue working long hours, it is perfect choice for working condition with intermission of liquid. Be sure to keep cooling water circulation!



双机封冷却液循环进出口
Double mechanical seal

多种配置的转子泵 Various Configurations Of Rotor Pump



防爆电机转子泵

Lobe pump with explosion-proof motor

- ◆该泵配置了机械无极变速箱，可通过变速箱的手轮调速器，可通过变速箱的手轮调速，调节至工况所需要的转速。
- ◆通过美国3A-02-10认证(1579)，密封符合FDA.177.2600
- ◆It is with manual adjustable gearbox, the speed can be manually adjusted by handwheel in the gearbox according to working condition.
- ◆Pump is 3A approval, 3A certificate No. is 1579, gaskets comply with FDA 177.2600.



移动式转子泵

Mobile lobe pump

- ◆该设计可以满足随时移动抽取各种容器中的各种物料。
- ◆标准配置：控制台、移动车子带锁、机械无极变速箱。
- ◆选项：控制台内置变频器，变频电机(其他配置可参考泵的选项)
- ◆Mobile lobe pump can move at any time to containers and pump products inside.
- ◆Standard configuration is with console, lockable mobile plate, mechanical variable gearbox.
- ◆Option: Console with built-in converter, frequency conversion motor (For more information, Please refer to lobe pump catalogue which you will find under this products)



卫生安全防护型转子泵

Lobe pump with protected cover

- ◆该泵采用全防护设计，减少了因泵驱动装置不规则引起的死角，该护罩还可以保护人身安全的电机防护。
- ◆The pump is designed with full protection, reducing dead angle due to irregular pump drive. Protective cover can also keep personal safety from motor.



变频无极转子泵

Lobe pump with frequency converter

- ◆配置斜齿轮变速箱和变频电机，该配置可通过变频器和变频电机连接，可人为编辑，变频器参数达到转速成调整，也可通过PLC编程实现自动控制。
- ◆With inclined gearbox and frequency converter motor, the rotary speed can be adjusted by connecting converter and motor, it also automatic controls by PLC programming realization.

卫生凸轮泵(转子泵) Hygienic lobe pump(rotor pump)

多种配置的转子泵 Various Configurations Of Rotor Pump



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 type flange hoppers: Square flange hopper and circular flange hopper. Lobe pump with flange hopper can effectively solve transportation of uneasy flowing liquid.



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 reduced the possibility of pump breakdown due to other equipment's failure causes pipeline pressure exceeding than the safety valve during transportation.
- ◆ Features: Relief valve automatically opens when the pressure exceeds the set safety pressure, it can also be pneumatic opened.
- ◆ Options: air/air, spring/air, pressure from 1bar-6bar



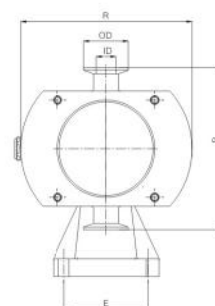
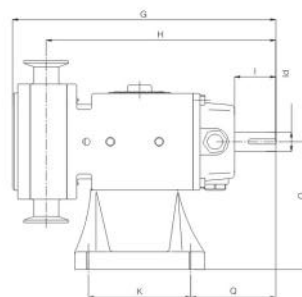
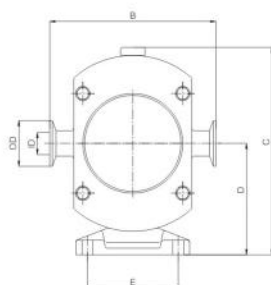
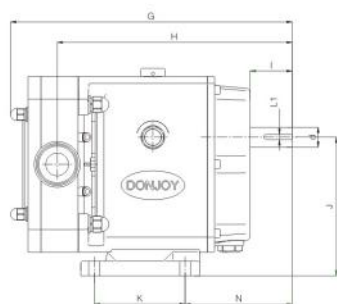
保温型转子泵 Lobe pump with heat jacket

- ◆该泵设计有端面保温室、外围保温室和全保温室三种选，该泵可以有效的解决，因温差而导致物料流动不畅、凝固、变质等情况。
- ◆ There are three type: periphery heat jacket, surface heat jacket and complete heat jacket. It will avoid freezing, deterioration caused by temperation deference.



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

- ◆该泵可以解决因泵出口管道堵塞或其他的仪器和设备导致压力过高，该装置可不损失物料的情况下保证管道压力平稳和安全。
- ◆注意：该装置适用于流动性较好的物料。
- ◆ This pump can solve the problem due to congestion of pump outlet or other equipment and facilities which causes too high pressure. The device guarantees the case of no loss of material to keep pressure of pipeline stable and safe.
- ◆ Note: this device is applicable to the liquidity good materials.



水平式转子泵 Horizontal (TUL) lobe pump

垂直式转子泵 Vertical (TUR) lobe pump

系列 Series	B	C	D	E		G	H	I	J	K		L1	N	O	Q	R	OD	ID	d	d1
				TUL	TUR					TUL	TUR									
TUL/TUR-20	183	229	123	100	95	311	260	46.5	153	100	115.5	6	118	144.5	96	194	50.5	25	22	12
TUL/TUR-23	183	229	123	100	95	315.5	264.5	46.5	153	100	115.5	6	118	144.5	96	194	50.5	35	22	12
TUL/TUR-25	183	229	123	100	95	325	274	46.5	153	100	115.5	6	118	144.5	96	194	64	47.8	22	12
TUL/TUR-30	212	271	149	125	125	432.5	357	56	186.5	125	172	8	181	179.5	116.4	230	64	47.8	28	12
TUL/TUR-35	212	271	149	125	125	438.5	363	56	186.5	125	172	8	181	179.5	116.4	230	77.5	59.5	28	12
TUL/TUR-55	212	271	149	125	125	443.5	368	56	186.5	125	172	8	181	179.5	116.4	230	91	66	28	12
TUL/TUR-60	212	271	149	125	125	447.5	372	56	186.5	125	172	8	181	179.5	116.4	230	91	72.2	28	12
TUL/TUR-70	276	390	224	193	194	525.5	439	76.5	284	208	207	8	172	238.5	135	332	91	72.2	42	18
TUL/TUR-80	276	390	224	193	194	525.5	439	76.5	284	208	207	8	172	238.5	135	332	106	72.2	42	18
TUL/TUR-100	276	390	224	193	194	534.5	448	76.5	284	208	207	8	172	238.5	135	332	119	97.6	42	18
TUL/TUR-125	276	390	224	193	194	548.5	462	76.5	284	208	207	8	172	238.5	135	332	144.5	125	42	18

表格数据仅供参考，实际尺寸以实物为准。
Only for tabular data parameters.

卫生凸轮泵(转子泵) Hygienic lobe pump(rotor pump)



转子泵流量表(三菱款转子)
Rotor pump flow statement(Clover rotor)

型号 Model	Nmax/Min		
TUR/TUL-20	950	0.137	13.7
TUR/TUL-23		0.194	19.4
TUR/TUL-25		0.273	27.3
TUR/TUL-30	720	0.423	42.3
TUR/TUL-35		0.53	53.0
TUR/TUL-55		0.602	60.2
TUR/TUL-60	600	0.665	66.5
TUR/TUL-70		1.524	152.4
TUR/TUL-80		1.583	158.3
TUR/TUL-100		1.956	195.6
TUR/TUL-125		2.487	248.7

转子泵流量表(蝶形转子)
Rotor pump flow statement(Butterfly rotor)

型号 Model	Nmax/Min		
TUR/TUL-20	950	0.15	15
TUR/TUL-23		0.212	21.2
TUR/TUL-25		0.298	29.8
TUR/TUL-30	720	0.496	49.6
TUR/TUL-35		0.631	63.1
TUR/TUL-55		0.705	70.5
TUR/TUL-60	600	0.778	77.8
TUR/TUL-70		1.791	179.1
TUR/TUL-80		1.824	182.4
TUR/TUL-100		2.299	229.9
TUR/TUL-125		2.922	292.2

注意：每转排量的容积表，是根据(相当于牛奶粘度介质)结果，如果其他的介质会出现变化

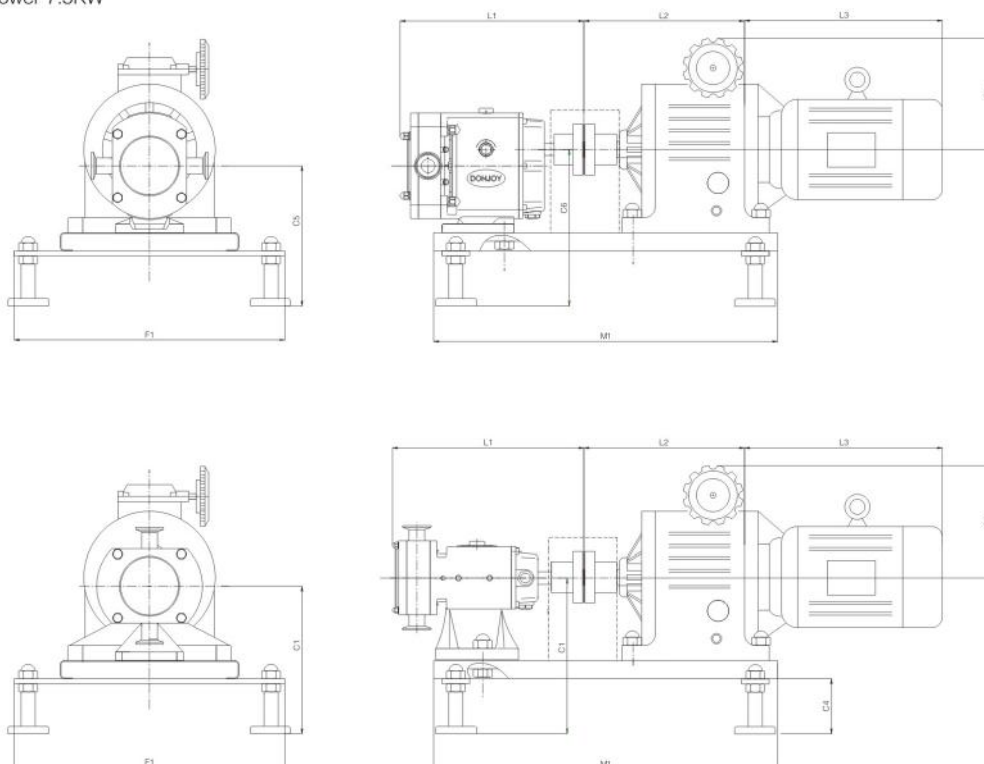
机械无极调速转子泵 Mechanical stepless speed LOBE PUMPS

手动调节转速流量可调节

注意：该减速机最大功率7.5KW

Manually speed regulation, but also can change flow

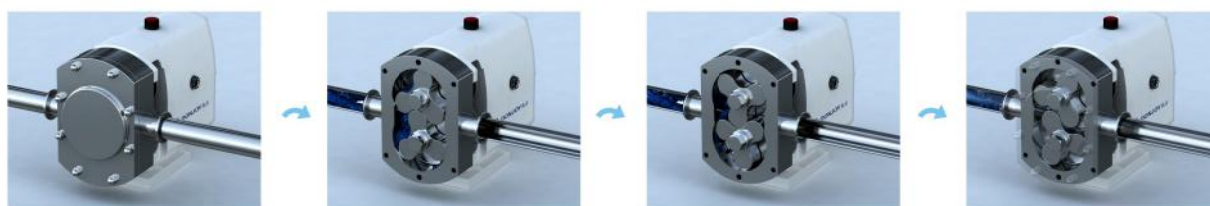
Maximum power 7.5KW



系列 Series	L1	C1	C4	C5	C6	M1	F1
TUL/TUR-20	296	296.5	102	275	305	680	475
TUL/TUR-23	300.5	296.5	102	275	305	680	475
TUL/TUR-25	310	296.5	102	275	305	680	475
TUL/TUR-30	417.5	331.5	102	301	338.5	780	555
TUL/TUR-35	423.5	331.5	102	301	338.5	780	555
TUL/TUR-55	428.5	331.5	102	301	338.5	780	555
TUL/TUR-60	432.5	331.5	102	301	338.5	780	555
TUL/TUR-70	510.5	390.5	102	376	436	950	625
TUL/TUR-80	510.5	390.5	102	376	436	950	625
TUL/TUR-100	519.5	390.5	102	376	436	950	625
TUL/TUR-125	533.5	390.5	102	376	436	950	625

系列 Series	L2	L3	C8
075kw	223	285	176
1.1kw	223	285	176
1.5kw	223	285	176
2.2kw	268	320	205
30.kw	268	340	205
4.0kw	268	340	205
5.5kw	319	395	247
7.5kw	319	435	247
11kw	—	—	—
15kw	—	—	—

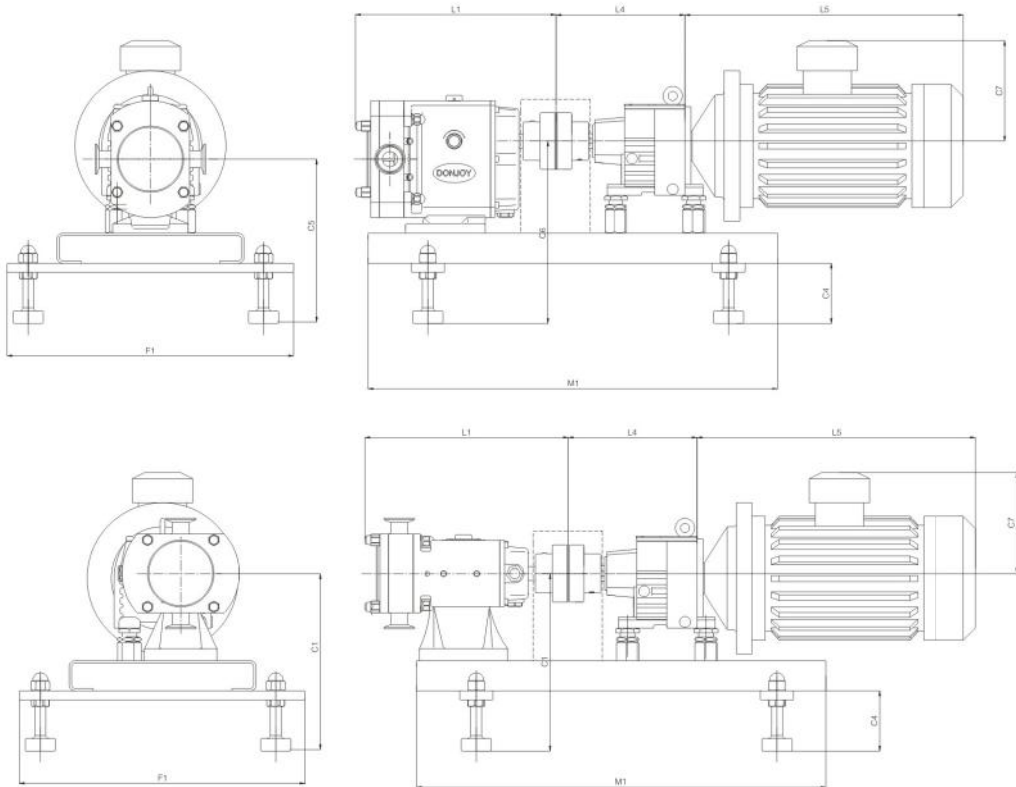
注意：如需配置以上减速机和电机请参照：电机=L5,减速机长度=L4,电机中心高度=C8



变频调速/定速比输出转子泵

Frequency control/Fixed speed ratio output LOBE pumps

(1)配置变频器，转速可变流量可变 (2)定输比输出，转速是一定，流量不可变
 (1)Configure the frequency converter variable speed, variable flow (2)Fixed speed ratio output, speed is constant, flow is immutable



系列 Series	L1	C1	C4	C5	C6	M1	F1
TUL/TUR-20	296	296.5	102	275	305	680	475
TUL/TUR-23	300.5	296.5	102	275	305	680	475
TUL/TUR-25	310	296.5	102	275	305	680	475
TUL/TUR-30	417.5	331.5	102	301	338.5	780	555
TUL/TUR-35	423.5	331.5	102	301	338.5	780	555
TUL/TUR-55	428.5	331.5	102	301	338.5	780	555
TUL/TUR-60	432.5	331.5	102	301	338.5	780	555
TUL/TUR-70	510.5	390.5	102	376	436	950	625
TUL/TUR-80	510.5	390.5	102	376	436	950	625
TUL/TUR-100	519.5	390.5	102	376	436	950	625
TUL/TUR-125	533.5	390.5	102	376	436	950	625

规格	L4	L5	C7
075kw	201	245	128
1.1kw	201	260	118
1.5kw	201	285	118
2.2kw	201	320	178
30.kw	201	320	178
4.0kw	241	335	177.5
5.5kw	241	385	199.5
7.5kw	280	425	205
11kw	440	490	250.5
15kw	440	535	250.5

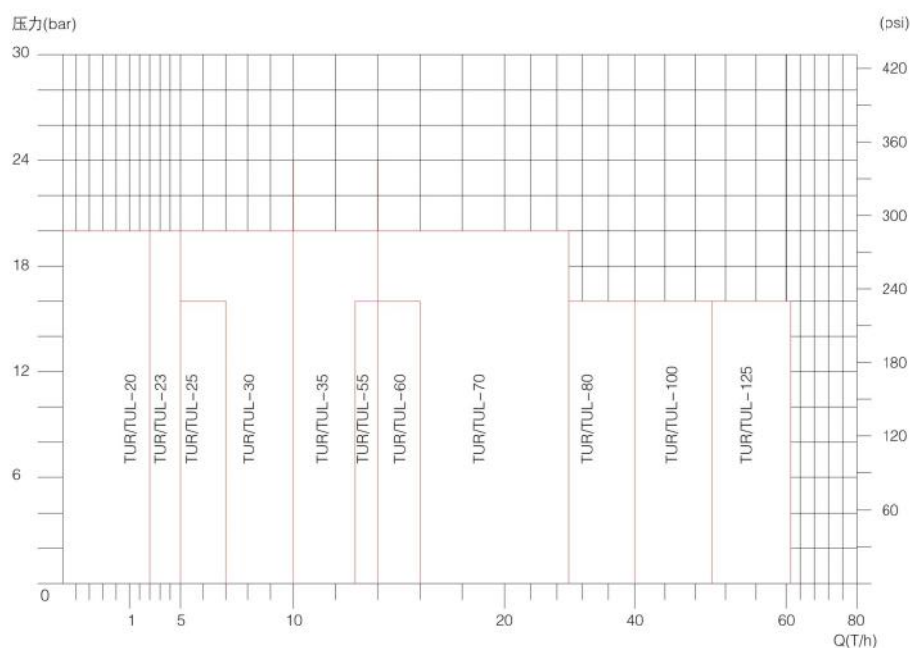
注意：如需配置以上减速机 and 电机请参照：电机=L5,减速机长度=L4,电机中心高度=C7



卫生凸轮泵(转子泵) Hygienic lobe pump(rotor pump)

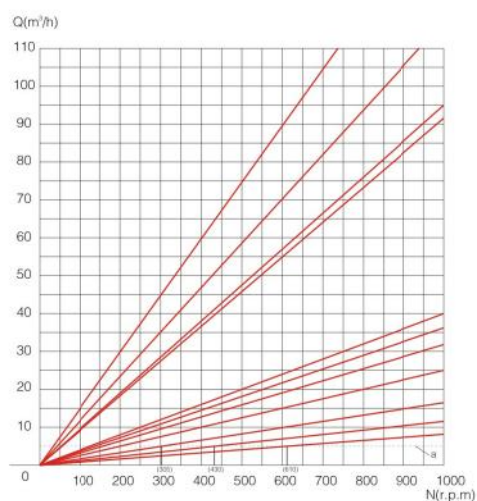
转子泵特性曲线图 Hygienic lobe pump performance curve

TUR/TUL转子流量Q(T/h)-压力(bar)曲线图
TUR/TUL pump Q(T/h)-speed(bar)

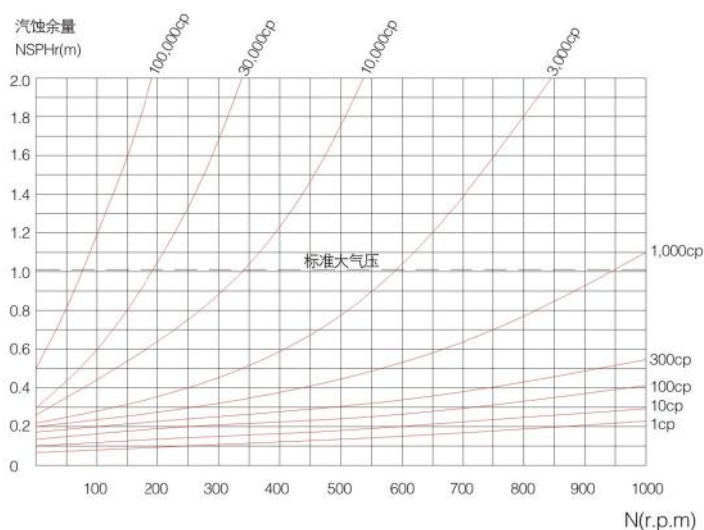


TUR/TUL转子泵流量Q(T/h)-转速(r.p.m)曲线图(DWG.01)
TUR/TUL flow rate Q(T/h)-speed(r.p.m) curve figure (DWG.01)

TUR/TUL转子泵汽蚀余量NPSHr(M)-转速(r.p.m)曲线图(DWG.02)
TUR/TUL pump NPSHr(M)-speed(r.p.m) curve figure (DWG.02)

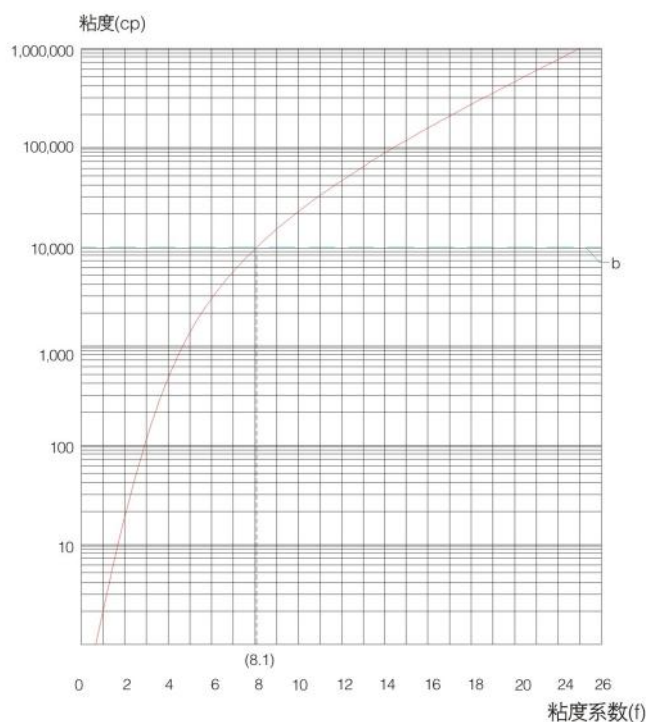


说明: 流量计算公式 $Q=0.06K \cdot N$, 其中Q: 流量(T/h), K: 排量系数(L/转),
N: 转速--200~1000(r.p.m)



卫生凸轮泵(转子泵) Hygienic lobe pump(rotor pump)

TUR/TUL转子泵粘度(cp)与粘度系数f曲线图(DWG.03)
TUR/TUL lobe pump viscosity(cp)and viscosity factor f cure figure (DWG.03)



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:

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

叶轮驱动扭矩按下面公式计算:

Impeller 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=叶轮转速Impeller speed(r.p.m)

M=扭矩 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:

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

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

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

5.Sure model

According to the manual type table

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

转子泵机械无极变速 Mechanical Continuously Variable Transmission Lobe Pump



说明:

无极变速机: 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.

TUR-TUL系列选型表 TUR-TUL Series selection table

50Hz/60Hz N-200~1000Min

型号 Model		流量(吨) Flow rate(m³/h)	压力 (BAR) Pressure	电机功率 (kw) Motor Power	建议转速 (Min-1) Recommend rotate speed	每转排量 (升) Flow per Rotate	每100转 排量(升) Flow per 100 Rotate	进/出口规格 Inlet & Outlet Size
TUR-20	TUL-20	1-3	12	1.5kw	200-450	0.137	13.7	1"-DN25
		1-3	9	1.1kw				
		1-3	5	0.75kw				
TUR-23	TUL-23	2-5	12	3.0kw	200-450	0.194	19.4	1.5"-DN40
		2-5	9	2.2kw				
		2-5	5	1.5kw				
TUR-25	TUL-25	3-7	10	4.0kw	200-450	0.273	27.3	2"-DN50
		3-7	7	3.0kw				
		3-7	4	2.2kw				
TUR-30	TUL-30	5-10	12	5.5kw	200-400	0.423	42.3	2"-DN50
		5-10	8	4.0kw				
		5-10	4	3.0kw				
TUR-35	TUL-35	6.5-13	10	5.5kw	200-400	0.53	53	2.5"
		6.5-13	7	4.0kw				
		6.5-13	3	3.0kw				
TUR-55	TUL-55	7-14	12	7.5kw	200-400	0.602	60.2	DN65
		7-14	9	5.5kw				
		7-14	6	4.0kw				
		7-14	3	3.0kw				
TUR-60	TUL-60	8-16	10	7.5kw	200-400	0.665	66.5	3"
		8-16	7	5.5kw				
		8-16	5	4.0kw				
		8-16	3	3.0kw				
TUR-70	TUL-70	15-31	9	7.5kw	200-400	1.524	152.4	3"
		15-31	5	5.5kw				
TUR-80	TUL-80	20-40	7	7.5kw	200-400	1.583	158.3	DN80
		20-40	4	5.5kw				
TUR-100	TUL-100	25-50	6	7.5kw	200-400	1.956	195.6	4"-D100
		25-50	3	5.5kw				

注意: 流量是根据三菱转子计算的结果, 如需其他的转子流量请与东正联系。

Note: Flow rate is according to 3-leaves rotor, for flow rate of other rotor, Please contact Donjoy for details.

卫生凸轮泵(转子泵)
Hygienic lobe pump(rotor pump)

变频调速/定速比输出转子泵 Frequency converter/Fixed speed output reducer lobe pump



说明：
变频调速输出：其速度是可调节的，流量也是可以可调的。
定速比输出减速机：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: 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.

TUR-TUL系列选型表 TUR-TUL Series selection talbe 50Hz/60Hz N-50~800Min

型号 Model		流量(吨) Flow rate(m³/h)	压力 (BAR) Pressure	电机功率 (kw) Motor Power	建议转速 (Min-1) Recommend rotate speed	每转排量 (升) Flow per Rotate	每100转 排量(升) Flow per 100 Rotate	进/出口规格 /连接方式 Inlet & Outlet Size
TUR-20	TUL-20	1-2	20	3.0kw	100-450	0.15	15	1"-DN25 卡箍、螺纹 DIN,SMS,IDF,RJT
		1-3	15	2.2kw				
		1-3	12	1.5kw				
		1-3	9	1.1kw				
		1-3	5	0.75kw				
TUR-23	TUL-23	2-5	20	4.0kw	100-450	0.212	21.2	1.5"-DN40 卡箍、螺纹 DIN,SMS,IDF,RJT
		2-5	15	3.0kw				
		2-5	12	2.2kw				
		2-5	9	1.5kw				
		2-5	5	1.1kw				
TUR-25	TUL-25	3-7	15	5.5kw	100-450	0.298	29.8	2"-DN50 卡箍、螺纹 DIN,SMS,IDF,RJT
		3-7	10	4.0kw				
		3-7	7	3.0kw				
		3-7	4	2.2kw				
		5-10	20	7.5kw				
TUR-30	TUL-30	5-10	12	5.5kw	100-400	0.496	49.6	2"-DN50 卡箍、螺纹 DIN,SMS,IDF,RJT
		5-10	8	4.0kw				
		5-10	4	3.0kw				
		6.5-13	18	7.5kw				
		6.5-13	10	5.5kw				
TUR-35	TUL-35	6.5-13	7	4.0kw	100-400	0.631	63.1	2.5"-DN50 卡箍、螺纹 DIN,SMS,IDF,RJT
		6.5-13	3	3.0kw				
		7-14	12	7.5kw				
		7-14	9	5.5kw				
		7-14	6	4.0kw				
TUR-55	TUL-55	7-14	3	3.0kw	100-400	0.705	70.5	DN65 卡箍、螺纹、法兰 DIN,SMS,IDF,RJT
		8-16	10	7.5kw				
		8-16	7	5.5kw				
		8-16	5	4.0kw				
		8-16	3	3.0kw				
TUR-60	TUL-60	15-31	18	15kw	100-400	0.778	77.8	3" 卡箍、螺纹、法兰 DIN,SMS,IDF,RJT
		15-31	12	11kw				
		15-31	9	7.5kw				
		15-31	5	5.5kw				
		20-40	15	15kw				
TUR-70	TUL-70	20-40	10	11kw	100-360	0.1791	17.91	3" 卡箍、螺纹、法兰 DIN,SMS,IDF,RJT
		20-40	7	7.5kw				
		20-40	4	5.5kw				
		25-50	10	11kw				
		25-50	6	7.5kw				
TUR-80	TUL-80	25-50	3	5.5kw	100-360	1.824	182.4	DN80 卡箍、螺纹、法兰 DIN,SMS,IDF,RJT
		31-62	10	15kw				
		31-62	7	11kw				
		31-62	4	7.5kw				
		31-62	4	7.5kw				

转子泵型号说明 Model Instruction Of Lobe Pump

TUL	20	1-3t	12bar	1.5kw	380V	50HZ	MBW	M	DN25	D
										接口标准: DIN(D),SMS(S),3A(A),RJT(R),ISO/IDF(I) Connection standard: DIN(D),SMS(S),3A(A),RJT(R),ISO/IDF(I)
										进出口规格Inlet & Outlet Size
										连接方式: 螺纹(M) 卡箍(C) Connection way:threaded(M), Clamped(C)
										减速机款式: 机械无极调速(MBW); 变频电机调速(WR-QA); 定速比输出转速(固定转速)(WR) Reducer type:Mechanical Continuously Variable transmission(MBW), Converter motor transducer(WR-QA). Fixed speed output reducer(WR)
										电机频率: 50HZ; 60HZ Motor frequency: 50HZ,60HZ
										电压: 110V 220V 380V(详见选型表) Voltage: 110V 220V 380V(refer to selection table)
										电机功率: 1.1kw 1.5kw 2.2kw..... Motor power:1.1kw 1.5kw 2.2kw.....
										转子泵压力(详见选型表) Pressure(refer to selection table)
										转子泵流量(详见选型表) Flow rate(refer to selection table)
										转子泵型号 Model
										转子泵出口方式代码: TUL水平式(左右进出); TUR垂直式(上进下出) Lobe Pump Structure Code, Vertical TUR series (From Up to Down), Horizontal TUL series (Right & Left)

例: TUL-20-1-3-12bar-1.5kw-380V-50HZ MBW-M-DN25-D
Sample:TUL-20-1-3-12bar-1.5kw-380V-50HZ MBW-M-DN25-D

