概述

G 型单螺杆泵是一种内啮合的密闭式螺杆泵，属转子式容积泵，由于这种泵对介质的适应性强，流动平稳，吸入性能好， 压力脉动小， 除可以输送各种可流动的介质外，还可以输送高粘稠介质、含有硬质悬浮颗粒或固体颗粒的介质、含有纤维的介质， 调节性能好， 范围宽， 效率高， 因此， 在环境保护、 船舶、 石油、 医药、 日化、 食品、酿造、 建筑、 采矿、 化学、 印刷、 造纸、 电厂、 锅炉等各种行业得到广泛应用。

summarize

G type single screw pump is a kind of internal meshing closed screw pump, belongs to the rotor type positive displacement pump, due to the adaptability of this pump to the medium, smooth flow, good suction, small pressure pulsation, in addition to the transport of a variety of mobile media, but also can transport high viscous media, containing hard suspended particles or solid particles of the medium, containing fiber media, Good adjustment performance, wide range, high efficiency, therefore, in environmental protection, shipping, petroleum, medicine, daily chemical, food, brewing, construction, mining, chemistry, printing, paper, power plants, boilers and other industries have been widely used.

工作原理

单螺杆泵是一种内啮合回转式容积泵，主要工作部件是偏心螺杆(转子)和固定的衬套(定子)。由于转子、定子的特殊几何形状，分别形成数个单独的密封容腔，转子的运转，将各个密封腔内的介质连续地、匀速地、容积不变地从吸入端输送到压出端。由于有这些特性， 单螺杆泵特别适合下列工况的工作：

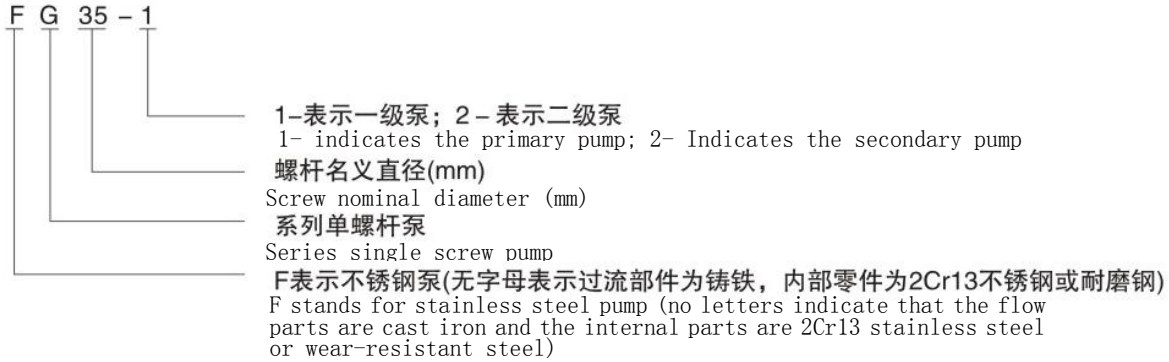
1、输送高粘度的介质；2、输送含有固体颗粒或纤维的介质；3、要求连续、压力稳定、不出现周期性压力波动；4、 要求搅动小、 不破坏被输送介质的固有结构； 5、 低的噪声。

Working principle

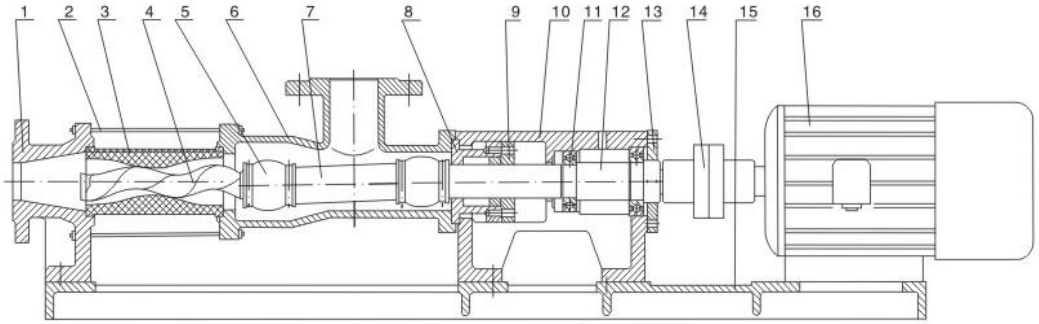
Single screw pump is an internal engagement rotary positive displacement pump, the main working parts are eccentric screw (rotor) and fixed bushing (stator). Due to the special geometry of the rotor and the stator, several separate sealing cavities are formed, and the operation of the rotor continuously transmits the medium in each sealing cavity from the suction end to the extrusion end at a constant speed and volume. Because of these characteristics, the single screw pump is particularly suitable for the following working conditions:

1, transport high viscosity medium; 2, conveying media containing solid particles or fibers; 3, continuous, stable pressure, no cyclical pressure fluctuations; 4, requires small agitation, does not destroy the inherent structure of the transport medium; 5, low noise.

型号说明 Type description



泵的结构 Pump structure



序号	名称	Serial number	name
1	出料体	1	Discharge body
2	拉杆	2	Lever
3	定子	3	stator
4	螺杆轴	4	Screw shaft
5	万向节或链接	5	Universal joint or link
6	进料体	6	Feed body
7	连接轴	7	Connecting shaft
8	填料座	8	Packing seat
9	填料压盖	9	Packing gland
10	轴承座	10	Bearing block
11	轴承	11	bearing
12	传动轴	12	Bearing profile
13	轴承型	13	coupling
14	联轴器	14	Base plate
15	底盘	15	Electric machine
16	电机	16	Discharge body

应用范围

单螺杆泵作为一种通用泵，流量可以根据要求， 通过改变速度进行， 运行速度可高可低， 出口压力可随泵的级数增加而增加，每增加一级，压力增加0.6MPa，在以下范围和行业广泛应用：

1.环境保护：工业污水、生活污水、含有固体颗粒及短纤维的污泥油水的输送，特别适用于油水分离器、板框压滤机等设备；

2.船舶工业：轮底清洗、油水、油渣、油污水等介质的输送；

3.石油工业：输送原油、原油与水的混合物、煤田气和水的混合物、往地层内灌注聚合物等等，从而降低了机械采油、采煤田气的成本，增加了油口采收率；

4.医药、日化：各种粘稠浆、乳化液、各种软膏化妆品的输送；

5.食品罐头工业：各种粘稠淀粉、食油、蜂蜜、糖浆、果浆、奶油、鱼摩肉糜以及其下脚料的输送；

6.酿造工业：各种发酵粘稠浆液、浓酒精、粮食制品渣、各种酱类、紫类和含有块状固态物的粘液等；

7.建筑工业：水泥砂浆、石灰浆、涂料及其它糊状体的喷涂与输送；

8.采矿工业：矿井内的含固体颗粒的地下水和污浆水排送到地面；

9.化学工业：各种悬浮液、油脂、各种胶体浆、各种粘合剂；

10.印刷、造纸工业：高粘度油墨、墙纸的 PVC 高分子塑料糊和各种浓度的纸浆、短纤维浆料的输送。

11.工业锅炉、电厂：水煤浆的输送。

Scope of application

As a general purpose pump, the flow can be carried out according to the requirements by changing the speed, the running speed can be high or low, the outlet pressure can be increased with the increase of the pump series, each additional level, the pressure increases 0.6MPa, which is widely used in the following ranges and industries:

1. Environmental protection: Transport of industrial sewage, domestic sewage, sludge oily water containing solid particles and short fibers, especially suitable for oil-water separator, plate and frame filter press and other equipment;

2. Marine industry: wheel bottom cleaning, oil water, oil residue, oil sewage and other media transportation;

3. Petroleum industry: transporting crude oil, the mixture of crude oil and water, the mixture of coal gas and water, injecting polymers into the formation, etc., thereby reducing the cost of mechanical oil recovery and coal gas mining, and increasing the oil recovery rate;

4. Medicine, daily chemical: all kinds of viscous pulp, emulsion, all kinds of ointment cosmetics delivery;

5. Food canning industry: transport of various sticky starch, edible oil, honey, syrup, fruit pulp, cream, fish and meat mince and its leftovers;

6. Brewing industry: all kinds of fermented viscous slurry, concentrated alcohol, grain products residue, various sauces, purple and mucus containing blocky solids;

7. Construction industry: spraying and conveying of cement mortar, lime slurry, paint and other pastes;

8. Mining industry: underground water containing solid particles and sewage slurry water in mines are discharged to the surface;

9. Chemical industry: all kinds of suspensions, fats, all kinds of colloidal pulp, all kinds of adhesives;

10. Printing and paper industry: high-viscosity ink, PVC polymer plastic paste of wallpaper and transportation of pulp and short fiber slurry of various concentrations.

11. Industrial boilers, power plants: coal water slurry transport.

单螺杆泵的性能表 Single screw pump performance table

固定转速时的性能参数Performance parameters at fixed speed

表一

型 号	流量 (m³/h)	压力 (MPa)	允许量 高转数 (r/min)	电机功率(KW)	必需选 蚀余量 (m)	进口法 兰通径 (mm)	出口法 兰通径 (mm)	允许题粒直径(mm)	允许好维长度(mm)
Type number	Flow rate (m³/h)	stress (MPa)	allowance High revolution (r/min)	Motor power (KW)	Required selection Residual corrosion (m)	Inlet act Landon path (mm)	Exit method Landon path (mm)	Allowable particle diameter (mm)	Allowable good dimension length (mm)
020-1	0.8	0.6	960	0.75	4	25	25	15	25
020-2		12		1.5					
G25-1	2	0.6	960	1.5		32	25	2	30
G25-2		12		2.2					
G30-1	5	0.6	960	2.2		50	40	25	35
G30-2		1.2		3					
G35-1	,	0.6	960	3		65	50	3	40
G35-2		12		4					
G40-1	12	0.6	960	4		80	65	38	45
G40-2		1.2		5.5					
G50-1	20	0.6	960	5.5	45	100	80	5	50
G50-2		12		7.5					
G60-1	30	0.6	960	11	5	125	100	6	60
G60-2		12		15					
G70-1	38	0.6	720	11		150	125	8	70
070-2		12		15					
G85-1	56	0.6	630	15		150	150	10	80
G85-2		1.2		30					
G105-1	100	0.6	500	30					
G105-2		12		55		200	200	15	110
G135-1	150	0.6	400	45		250	250	20	150
G135-2		12		90					

单级， 由齿轮变速、 电磁调整电机加齿轮变速或无级变速电机加齿轮变速时的性能参数 Single stage, by gear change, electromagnetic adjustment motor with gear change or stepless speed motor with gear change performance parameters

型号	压力0.3MPa			压力0.6MPa			可调转速		
	Pressure 0.3MPa			Pressure 0.6MPa			Adjustable speed		
	转数 (r/min)	(流量)	电动机功率(kW)	转数 (5min)	流量 (m^3 m)	电动机功率	转数 (r/min)	流量 (m^3 /h)	电动机功率(kw)
Model number	Revolutions (r/min)	(flow)	Motor power (kW)	Revolutions (5min)	Flow rate (m^3 m)	Motor power	revolution (r/min)	Flow rate (m^3 /h)	Motor power (kw)
G20-1	960	0.96	0.75-6级	960	0.8	0.75-6级	125-1250	0.1-1.5	1.1
	960	0.96	Level 0.75-6	960	0.8	Level 0.75-6			
	720	0.8	0.55-8级	720	0.5	0.75-8级			
	720	0.8	Level 0.55-8	720	0.5	Level 0.75-6			
	510	0.4	0.55-4级/齿轮箱	510	0.3	0.75-4级/齿轮箱			
	510	0.4	Stage 0.55-4 / gearbox	510	0.3	0.75-4 stage/gearbox			
G25-1	960	2.4	0.75-6级	960	2	1.5-6级	125-1250	0.1-3	1.5
	960	2.4	Level 0.75-6	960	2	Level 1.5 to 6			
	720	1.5	0.55-8级	720	1.27	1.1-8级			
	720	1.5	Level 0.55-8	720	1.27	Level 1.1-8			
	510	1.08	0.55-4级/齿轮箱	510	0.9	1.1-4级/齿轮箱			
	510	1.08	Stage 0.55-4 / gearbox	510	0.9	Stage 1.1-4 / gearbox			
G30-1	960	3.6	1.5-6级	960	3	2.2-6级	125-1250	0.2-4	2.2
	960	3.6	Level 1.5 to 6	960	3	Level 2.2-6			
	720	2.28	1.1-8级	720	1.9	1.5-8级			
	720	2.28	Level 1.1-8	720	1.9	Scale 1.5 to 8			
	510	1.63	1.1-4级/齿轮箱	510	1.35	1.5-4级/齿轮箱			
	510	1.63	Stage 1.1-4 / gearbox	510	1.35	Stage 1.5-4 / gearbox			
G35-1	720	4.8	2.2-8级	720	4.04	3-8级	125-890	0.3-5	3
	720	4.8	Level 2.2-8	720	4.04	Level 3-8			
	510	3.36	1.5-4级/齿轮箱	510	2.8	22-4级/齿轮箱			
	510	3.36	Stage 1.5-4 / gearbox	510	2.8	22-4 stage/gearbox			
	380	1.92	1.1-4级/齿轮箱	380	1.60	1.5-48/齿轮箱			
	380	1.92	Stage 1.1-4 / gearbox	380	1.60	1.5-48/ gear box			
G40-1	510	6.8	2.2-4级/齿轮箱	510	5.6	3-4级齿轮箱	125~890	0.3-10	4
	510	6.8	2.2-4 stage/gearbox	510	5.6	3-4 stage gear box			
	380	5.1	1.5-4级/齿轮箱	510	4	2.2-4级/齿轮箱			
	380	5.1	Stage 1.5-4 / gearbox	510	4	2.2-4 stage/gearbox			
	252	2.65	1.1-6级/齿轮箱	252	2.2	1.5-6级/齿轮箱			

	252	2.65	1.1-6 stages/gearbox	252	2.2	1.5-6 stages/gearbox			
G50-1	510	13.8	4-4级/齿轮箱	510	11.5	5.5-4级/齿轮箱	80-750	1-18	5.5
	510	13.8	4-4 stage/gearbox	510	11.5	5.5-4 stage/gearbox			
	380	10.2	4-4亘/齿轮箱	380	7.5	5.5-4级/齿轮箱			
	380	10.2	4-4 length/gear box	380	7.5	5.5-4 stage/gearbox			
	252	5.6	3-6级/齿轮箱	252	4.4	5.5-6级/齿轮箱			
	252	5.6	3-6 stages/gearbox	252	4.4	5.5-6stage/gearbox			
G60-1	380	20.8	7.5-4级/齿轮箱	510	16	11-4级/齿轮箱	63-630	1-20	11
	380	20.8	7.5-4 stage/gearbox	510	16	11-4 stage/gearbox			
	380	15.6	7.5-4级/齿轮箱	380	12	11-4级/齿轮箱			
	380	15.6	7.5-4 stage/gearbox	380	12	11-4 stage/gearbox			
	252	7.8	5.5-6级/齿轮箱	252	6	7.5-6级/齿轮箱			
	252	7.8	5.5-6 stages/gearbox	252	6	7.5-6stage/gearbox			
G70-1	510	26	11-4级/齿轮箱	510	20	11-4级/齿轮箱	56-560	1-22	11
	510	26	11-4 stage/gearbox	510	20	11-4 stage/gearbox			
	380	17	7.5-4级/齿轮箱	380	13	11-4级/齿轮箱			
	380	17	7.5-4 stage/gearbox	380	13	11-4 stage/gearbox			
	252	9.1	7.5-6级/齿轮箱	252	7	7.5-6级/齿轮箱			
	252	9.1	7.5-6 stage/gearbox	252	7	7.5-6stage/gearbox			
G85-1	380	32	11-4级/齿轮箱	380	25	15-4级/齿轮箱	37-370	2-24	15
	380	32	11-4 stage/gearbox	380	25	15-4stage/gearbox			
	252	21	7.5-6级/齿轮箱	252	16	11-6级/齿轮箱			
	252	21	7.5-6 stage/gearbox	252	16	11-6stage/gearbox			
	189	11	5.5-8级/齿轮箱	189	8	11-8级/齿轮箱			
	189	11	5.5-8 stage/gearbox	189	8	11-8stage/gearbox			
G105-1	380	80	15-4级/齿轮箱	380	65	22-4级/齿轮箱	29-290	3-50	22
	380	80	15-4 stage/gearbox	380	65	22-4stage/gearbox			
	252	44	15-6级/齿轮箱	252	34	22-6级/齿轮箱			
	252	44	15-6stage/gearbox	252	34	22-6stage/gearbox			
	189	29	11-8级/齿轮箱	189	22	15-8级/齿轮箱			
	189	29	11-8stage/gearbox	189	22	15-8stage/gearbox			
G135-1	380	132	37-4级/齿轮箱	380	120	45-4级/齿轮箱	18-180	3-56	45
	380	132	37-4stage/gearbox	380	120	45-4stage/gearbox			
	252	95	30-6级/齿轮箱	252	80	37-6级/齿轮箱			
	252	95	30-6stage/gearbox	252	80	37-6stage/gearbox			
	189	65	18.5-8级/齿轮箱	189	53	30-8级/齿轮箱			
	189	65	18.5-8stage/gearbox	189	53	30-8stage/gearbox			

双级， 由齿轮变速、 电磁调整电机加齿轮变速或无级变速电机加齿轮变速时的性能参数 Two-stage, by gear change, electromagnetic adjustment motor with gear change or stepless speed motor with gear change performance parameters

型号	压力0.3MPa			压力0.6MPa			可调转速		
	Pressure 0.3MPa			Pressure 0.6MPa			Adjustable speed		
	转数 (r/min)	(流量)	电动机功率(kW)	转数 (5min)	流量 (m^3 m)	电动机功率	转数 (r/min)	流量 (m^3 /h)	电动机功率(kw)
Model number	Revolutions (r/min)	(flow)	Motor power (kW)	Revolutions (5min)	Flow rate (m^3 m)	Motor power	revolution (r/min)	Flow rate (m^3 /h)	Motor power (kw)
G20-2	960	0.96	1.5-6级	960	0.8	1.5-6级	125-1250	0.1-1.5	1.5
	960	0.96	Level 1.5 to 6	960	0.8	Level 1.5 to 6			
	720	0.8	1.1-8级	720	0.5	1.5-8级			
	720	0.8	Level 1.1 to 8	720	0.5	Level 1.5 to 8			
	510	0.4	1.1-4级/齿轮箱	510	0.3	1.1-4级/齿轮箱			
	510	0.4	Stage 1.1-4 / gearbox	510	0.3	Stage1.1-4/ gearbox			
G25-2	960	2.4	1.5-6级	960	2	2.2-6级	125-1250	0.1-3	2.2
	960	2.4	Level 1.5 to 6	960	2	Level 2.2to 6			
	720	1.5	1.1-8级	720	1.27	1.5-8级			
	720	1.5	Level 1.1 to 8	720	1.27	Level 1.5 to 8			
	510	1.08	1.1-4级/齿轮箱	510	0.9	1.5-4级/齿轮箱			
	510	1.08	Stage 1.1-4 / gearbox	510	0.9	Stage1.5-4/ gearbox			
G30-2	960	3.6	3-6级	960	3	3-6级	125-1250	0.2-4	3
	960	3.6	Level 3 to 6	960	3	Level 3 to 6			
	720	2.28	1.5-8级	720	1.9	2.2-8级			
	720	2.28	Level 1.5 to 8	720	1.9	Level 2.2 to 8			
	510	1.63	1.5-4级/齿轮箱	510	1.35	2.2-4级/齿轮箱			
	510	1.63	Stage 1.5-4 / gearbox	510	1.35	Stage2.2-4/ gearbox			
G35-2	720	4.8	3-8级	720	4.04	4-8级	125-890	0.3-5	4
	720	4.8	Level 3 to 8	720	4.04	Level 4 to 8			
	510	3.36	2.2-4级/齿轮箱	510	2.8	3-4级/齿轮箱			
	510	3.36	Stage 2.2-4 / gearbox	510	2.8	Stage3-4/ gearbox			
	380	1.92	1.5-4级/齿轮箱	380	1.60	2.2-4级/齿轮箱			
	380	1.92	Stage 1.5-4 / gearbox	380	1.60	Stage2.2-4/ gearbox			
G40-2	510	6.8	4-4级/齿轮箱	510	5.6	5.5-4级/齿轮箱	125~890	0.3-10	5.5
	510	6.8	Stage 4-4 / gearbox	510	5.6	Stage5.5-4/ gearbox			
	380	5.1	3-4级/齿轮箱	510	4	4-4级//齿轮箱			
	380	5.1	Stage 3-4 / gearbox	510	4	Stage4-4/ gearbox			
	252	2.65	2.2-6级/齿轮箱	252	2.2	3-6级//齿轮箱			
	252	2.65	Stage2.2-6 / gearbox	252	2.2	Stage3-6/ gearbox			

G50-2	510	13.8	5.5-4级/齿轮箱	510	11.5	7.5-4级//齿轮箱	80-750	1-18	7.5
	510	13.8	Stage5.5-4/ gearbox	510	11.5	Stage7.5-4/ gearbox			
	380	10.2	4-4级/齿轮箱	380	7.5	5.5-4级/齿轮箱			
	380	10.2	Stage 4.4-4 / gearbox	380	7.5	Stage5.5-4/ gearbox			
	252	5.6	3-6级/齿轮箱	252	4.4	5.5-6级/齿轮箱			
	252	5.6	Stage3-6/ gearbox	252	4.4	Stage5.5-6/ gearbox			
G60-2	510	20.8	15-4级/齿轮箱	510	16	15-4级//齿轮箱	63-630	1-20	15
	510	20.8	Stage 15-4 / gearbox	510	16	Stage15-4/ gearbox			
	380	15.6	11-4级/齿轮箱	380	12	15-4级//齿轮箱			
	380	15.6	Stage 11-4 / gearbox	380	12	Stage15-4/ gearbox			
	252	7.8	7.5-6级/齿轮箱	252	6	11-6级/齿轮箱			
	252	7.8	Stage7.5-6/ gearbox	252	6	Stage11-6/ gearbox			
G70-2	510	26	15-4级/齿轮箱	510	20	18.5-4级/齿轮箱	56-560	1-22	15
	510	26	Stage15-4/ gearbox	510	20	Stage18.5-4/ gearbox			
	380	17	11-4级/齿轮箱	380	13	15-4级/齿轮箱			
	380	17	Stage11-4/ gearbox	380	13	Stage15-4/ gearbox			
	252	9.1	11-6级/齿轮箱	252	7	11-6级/齿轮箱			
	252	9.1	Stage16-6/ gearbox	252	7	Stage11-6/ gearbox			
G85-2	380	32	18.5-4级/齿轮箱	380	25	22-4级/齿轮箱	37-370	2-24	22
	380	32	Stage18.5-6/ gearbox	380	25	Stage22-4/ gearbox			
	252	21	15-6级/齿轮箱	252	16	18.5-6级/齿轮箱			
	252	21	Stage15-6/ gearbox	252	16	Stage18.5-6/ gearbox			
	189	11	15-8级/齿轮箱	189	8	15-8级/齿轮箱			
	189	11	Stage15-8/ gearbox	189	8	Stage15-8/ gearbox			
G105-2	380	80	30-4级/齿轮箱	380	65	37-4级/齿轮箱	29-290	3-50	37
	380	80	Stage30-4/ gearbox	380	65	Stage37-4/ gearbox			
	252	44	30-6级/齿轮箱	252	34	30-6级/齿轮箱			
	252	44	Stage30-6/ gearbox	252	34	Stage30-6/ gearbox			
	189	29	22-8级/齿轮箱	189	22	22-8级/齿轮箱			
	189	29	Stage22-8/ gearbox	189	22	Stage22-8/ gearbox			
G135-2	380	132	55-4级/齿轮箱	380	120	75-4级//齿轮箱	18-180	3-56	75
	380	132	Stage55-4/ gearbox	380	120	Stage75-4/ gearbox			
	252	95	55-6级/齿轮箱	252	80	75-6级/齿轮箱			
	252	95	Stage55-6/ gearbox	252	80	Stage75-6/ gearbox			
	189	65	37-8级/齿轮箱	189	53	45-8级/齿轮箱			
	189	65	Stage37-8/ gearbox	189	53	Stage45-8/ gearbox			

单、双级水爆浆工作泵的性能参数

Performance parameters of single and double stage water blasting pump

泵　　型 Pump type	效果 (m^3/h) Effect (m^3/h)	工作压力 (MPa) Working pressure (MPa)	转数 (r/min) Revolution (r/min)	齿轮减速配套调整电机 (KW) Gear reduction adjustment motor (KW)
G30-2	-1	1.2	30-300	YCT160/4A-2.2
035-2	-2	1.2	30-300	YCT160/4A-2.2
040-2	-3	1.2	30-280	YCT160/4A-3
G50-1	-4.5	0.0	28-280	YCT180/4A-4
G50-2	-4.5	1.2	28-280	YCT200/4A-5.5
000-1	-6.5	0.6	25-250	YCT200/4A-5.5
G60-2	-6.5	1.2	25-250	YCT200/4B-7.5
G70-1	-4	0.6	25-220	YCT200/4B-7.5
G85-1	-12.5	0.6	18-180	YCT225/4A-11
G105-1	-20	0.0	14-140	YCT225/4B-15
G135-1	-35	0.6	10-100	YCT250/48-22

说明：1.以上性能参数是营湿清水试验时的试验数据；

2.对于不同的介质，不同的转速，性能参数都将变化，其流量值与速度、航度成反比，与转速成正比；

3.用户必需根据使用要求、输送介质的状况、造型原则选择泵的类型，或者和本公司技术部门协商来决定架的类型。

4.对于水煤浆泵传动形式为齿轮调整配套电磁调递电机或机械无级变速电机，流量随转速变化无效可调。

Description: 1. The above performance parameters are the test data during the wet water test;
2. For different media, different speed, performance parameters will change, and the flow value is inversely proportional to the speed and navigation, and is proportional to the speed;
3. The user must choose the type of pump according to the requirements of use, the condition of the conveying medium, and the modeling principle, or negotiate with the technical department of the company to decide the type of frame.
4. For coal water slurry pump transmission form for gear adjustment matching electromagnetic transfer motor or mechanical stepless variable speed motor, the flow with the speed change is not adjustable.

选型原则Selection principle

1.根据介质粘度选择泵的转速1. Select the pump speed according to the medium viscosity

介质粘度(cat) Medium viscosity (cat)	1-1000	1000-10000	10000-100000	100000-1000000
转速(r/min) Speed (r/min)	400-1000	200-400	<200	<100

2.根据介质的磨损性选择泵的转速2. Select the speed of the pump according to the wear of the medium

介质磨损状况 Dielectric wear condition	介绍名称Introduce name	转速(5min) Speed (5min)
无磨损 No wear	淡水、促疆剂、油、浆汁、肥皂水、血液、甘油等 Fresh water, promoting agent, oil, pulp, soapy water, blood, glycerin, etc	400-1000
一般磨损 General wear	工业废水、治理原料、粘灰菜、鱼、麦麸、草籽油过滤后的匹积物等 Industrial waste water, treatment raw materials, sticky ash vegetables, fish, wheat bran, grass seed oil after filtration, etc	200-400
严重磨损 Heavy wear	泥浆、石灰浆、灰泥、南土、釉土等 Mud, lime paste, plaster, south soil, glaze soil, etc	50-200

注：a.表中输出了所输送的具体介质及其磨损性的特例，请注意介质的特性随其浓度和温度的变化而变化；

D.当泵的规格越大时，转速应选低一整。

Note: a. The table outputs the specific medium and its special case of wear, please note that the characteristics of the medium change with the change of its concentration and temperature;
D. When the size of the pump is larger, the speed should be selected as low as one.

3.按输出压力定级数 3. Set the series according to the output pressure

磨损性 Abrasiveness	一级 First-order	二级 Second level	磨损性 Abrasiveness	一级 First-order	二级 Second level	离损性 Dissociative property	一级 First-order	二级 Second level
无 There is no	0.6MPa	12MPa	一般	0.4MPa	0.8MPa	严重	0.2MPa	0.4MPa

注：在选择特速时也要根据经验，因为一些其它因素也影响着特速的选择，在最后确定了上述数值的同时最好与本公司协商肯定。

Note: The selection of special speed should also be based on experience, because some other factors also affect the choice of special speed, in the final determination of the above values, it is best to negotiate with the company.

4.单螺杆泵用的橡胶基本特性4. Basic characteristics of rubber for single screw pump

适应性adaptability 橡胶rubber 介质medium	丁藤橡胶NBR Tene rubber NBR	氟橡胶FPM Fluororubber FPM	乙丙橡胶EPDM Ethylene propylene rubber EPDM	天然橡胶NR Natural rubber NR
耐最高温度 Resistance to maximum temperature	+100℃	+150℃	+120℃	+60℃
耐磨性Abrasion resistance	○	○	●	○
耐老化性Aging resistance	●	○	○	×
耐臭氧Ozone resistance	×	○	○	×
耐蒸汽Steam resistance	●	○	○	×
耐磨性Abrasion resistance	●	○	○	×

注:●很好 ○优 ×不行 **Note :**● Very good ○ Excellent × not good

5.单螺杆泵根据介质选择定子橡胶5. Single screw pump select stator rubber according to the medium

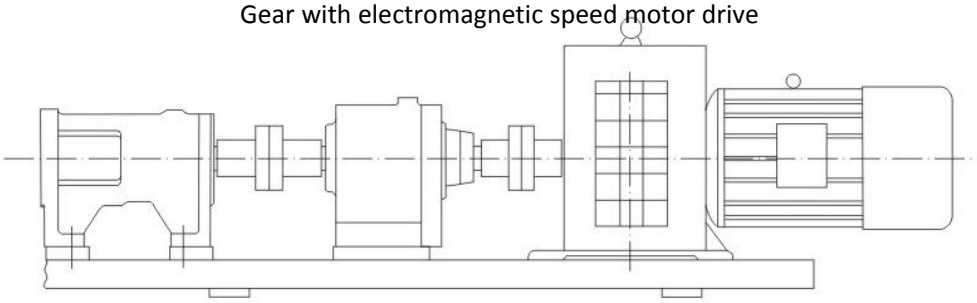
适应性 橡胶 介质 Adaptability Rubber medium	丁腈橡胶 NBR Nitrile butadiene rubber NBR	氢橡胶 FPM Hydrogen rubber FPM	食品橡胶 W-NBR Food rubber W-NBR	乙丙橡胶 EPDM Ethylene propylene rubber EPDM	天然橡胶 NR Natural rubber NR	适应性 橡胶 介质 Adaptability Rubber medium	丁腈橡胶 NBR Nitrile butadiene rubber NBR	氟橡胶 FPM Fluororubber FPM	食品橡胶 W-NBR Food rubber W-NBR	乙丙橡胶 EPDM Ethylene propylene rubber EPDM	天然橡胶 NR Natural rubber NR
水(含污水) Water (including sewage)	●	●	●	●	△	乙醇Ethyl alcohol	●	●	●	△	●
植物油 Vegetable oil	●	●	●	△	●	煤油kerosene	●	●	●	×	×
矿物油 Mineral oil	●	●	●	×	×	荣誉honor	●	●	●	×	×
氨水 Ammonia liquor	●	×	●	△	●	氯化氢 Hydrogen chloride	×	△	×	×	×
芳香族溶剂Aromatic solvent	×	●	×	×	×	含酮类物料Materials containing ketones	×	×	×	●	×
浓碱 Concentrated alkali	●	×	●	●	×	含醇类物料 Alcohol-containing material	●	●	●	●	●
浓硝酸Concentrated nitric acid	×	△	×	×	×	含脂类物料 Fatty material	×	×	×	●	×
冰酸盐 Glacate	●	●	●	×	×	含制类物料Contains manufactured materials	×	×	×	●	×
稀硫酸 Dilute sulfuric acid	●	●	●	●	●	泥浆Mud	●	△	●	●	●
浓硫酸Concentrated sulfuric acid	×	●	×	△	×	磷酸Phosphoric acid	▲	△	△	●	●
稀盐酸 Diluted hydrochloric acid	●	●	×	●	●	碳酸钠Sodium carbonate	●	×	●	●	●
浓盐酸Concentrated hydrochloric acid	●	●	●	●	●	糖醛Saccharaldehyde	△	△	△	●	×
热水 Hot water	△	●	×	●	×	苯100 Benzene 100	×	●	×	×	×
汽油Gasoline	●	●	●	×	×	丙酮Acetone	×	×	×	●	×
甲车A car	×	●	×	×	×	亚麻子油 Linseed oil	●	●	●	●	×
二甲苯Xylene	×	●	×	×	×	二硫化碳 Carbon disulfide	●	●	×	×	×

注：1.表中介质是一些常用介质的适应性情况，如有特殊介质情况或特殊要求可与本公司联系；**Note:** 1. The medium in the table is the adaptability of some commonly used media. If there are special media conditions or special requirements, please contact the company;

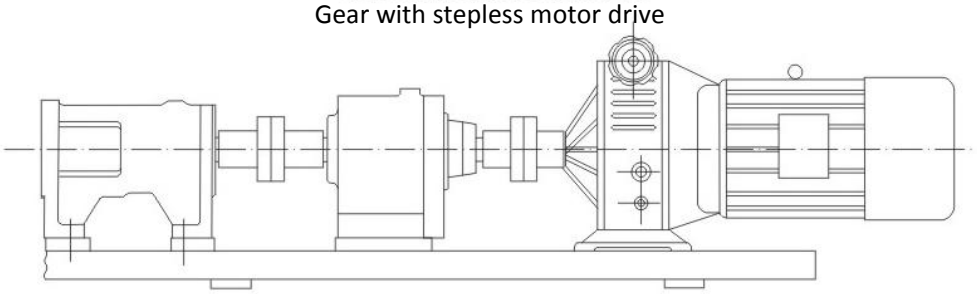
2. ●很好 ○优 ×不行 **Note :**● Very good ○ Excellent × not good

泵的驱动方式The way the pump is driven

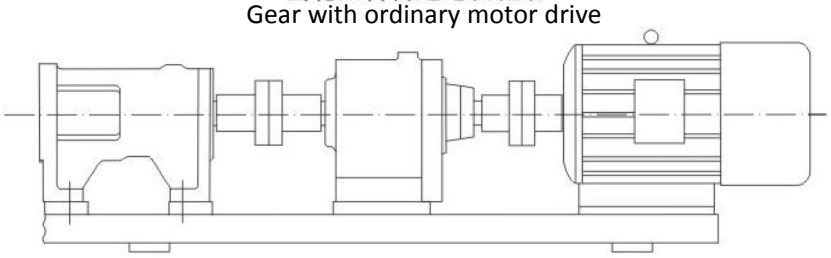
齿轮配合电磁调速电机驱动
Gear with electromagnetic speed motor drive



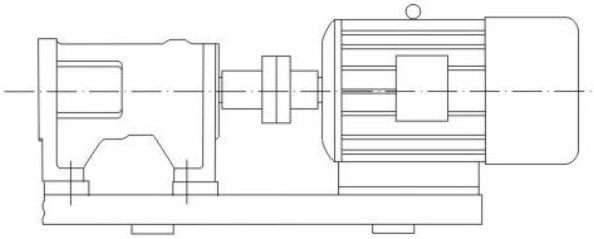
齿轮配合无级变速电机驱动
Gear with stepless motor drive



齿轮配合普通电机驱动
Gear with ordinary motor drive

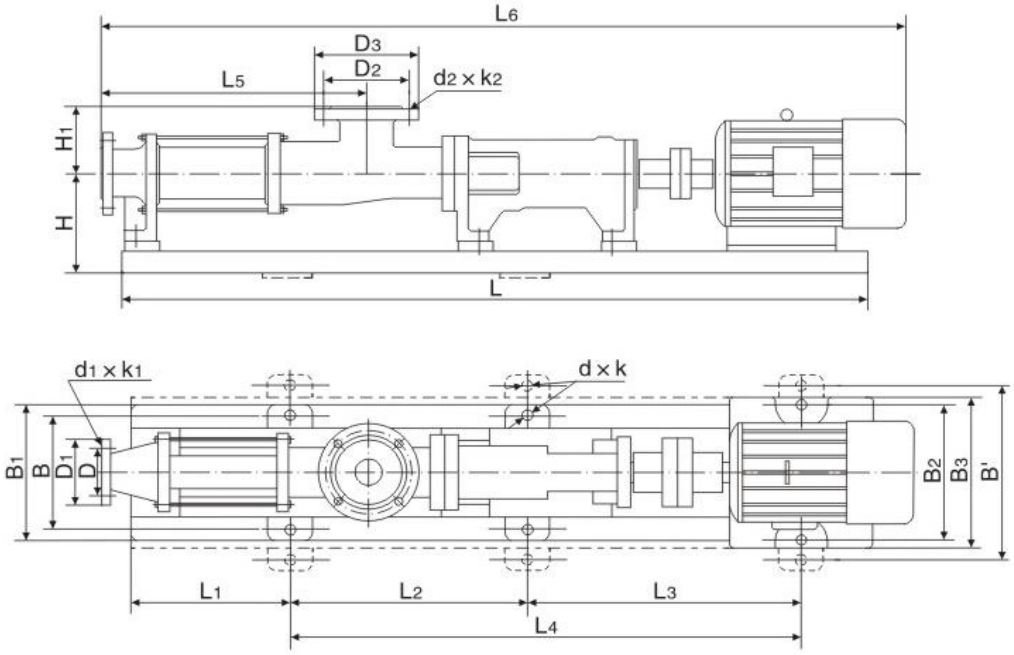


普通电机直接驱动
Direct drive by ordinary motor



泵的安装尺寸(固定转速时的尺寸，特定转速的安装尺寸在订货时附给)

Pump installation size (fixed speed size, specific speed installation size attached to the order)



型号	L	L1	L2	L3	L4	L5	L6	H	H1	B	B1	B_2	B3	B'	D	D1	D_2	D3	dxk	Dusk1	Duxk1
G20-1	1010	225			690	360	1150	150	95	160	190	185	215		85	115	85	115	4×12	4×14	4×14
G25-1	1010	225			690	360	1150	150	95	160	190	185	215		85	115	100	135	4×12	4×14	4×14
G25-2	1140	185			850	470	1280	150	95	160	200	220	250		85	115	100	135	4×12	4×14	4×14
G30-1	1150	200			850	420	1300	170	130	195	225	220	250		110	145	125	160	4×12	4×18	4×18
G30-2	1360	250			1000	575	1540	190	130	220	250	250	290		110	145	125	160	4×12	4×18	4×18
G35-1	1230	225			890	450	1410	190	135	220	250	280	285		125	160	145	180	4×14	4×18	4×18
G35-2	1450	125	600	600		615	1610	190	135	220	250	260	290		125	160	145	180	6×14	4×18	4×18
G40-1	1350	225			990	470	1510	200	130	220	250	260	285		145	180	160	195	4×14	4×18	4×18
G40-2	1540	120	650	650		665	1700	200	130	220	260	260	290		145	180	160	195	6×14	4×18	4×18
G50-1	1480	135	580	630		550	1620	225	150	250	280	250	290		160	195	180	215	6×16	8×18	8×18
G50-2	1800	140	760	760		790	1960	225	150	250	280	300	225		160	195	180	215	6×16	8×18	8×18
G60-1	1720	175	680	690		570	1810	225	160	260	300	300	330		180	215	210	245	6×16	8×18	8×18
G60-2	2040	200	800	800		820	2140	225	160				350	400	180	215	210	245	6×16	8×18	8×18
G70-1	1950	175	800	800		680	2120	245	150				350	400	210	245	240	280	6×18	8×18	8×18
G85-1	2020	210	1100	1100		945	2810	275	170				350	400	240	280	330	265	6×18	8×18	8×18
G105-1						1193		300	195						295	340	280	320	8×18	12×22	8×18
G136-1																					

说明：高温分钟铁底盘和槽钢底盘，槽钢底盘安装尺寸按虚线所示，铸铁底盘安装尺寸按实线所示。

Note: Iron chassis and channel steel chassis at high temperature. Channel steel chassis installation dimensions are shown on the dotted line and cast iron chassis installation dimensions are shown on the solid line.

使用注意事项

1.开机前必先确定方向，不得反转；

2.严禁在无介质的情况下空运转，以免损坏定子；

3.新安装或停机数天后的泵，不能立即启动，应先向泵体内注入适量机油或肥皂水，再用管子钳扳动几转后才可启动；

4.输送离粘度或含颗粒及腐蚀性的介质后，应用水或溶剂进行冲洗，防止阻塞，以免下次启动困难；

5.冬季应排除积液，防止冻裂；

6.使用过程中轴承座内应定期加润滑油，发现轴端有渗流时，要及时处理或更换油封；

7.在运行中如发现异常情况，应立即停车检查原因，排除故障。

Precautions for use

1. The direction must be determined before the boot, and shall not be reversed;

2. It is strictly prohibited to run empty without medium, so as not to damage the stator;

3. If the pump is newly installed or stopped for a few days, it can not be started immediately. An appropriate amount of oil or soapy water should be injected into the pump first, and then the pump can be started after a few turns with the pipe clamp;

4. After conveying viscosity or particles and corrosive media, wash with water or solvent to prevent blocking, so as not to start difficult next time;

5. Liquid accumulation should be eliminated in winter to prevent freezing and cracking;

6. Lubricating oil should be added regularly in the bearing seat during use. When seepage is found at the shaft end, the oil seal should be treated or replaced in time;

7. If any abnormal situation is found during operation, stop the car immediately to check the cause and eliminate the fault.

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故障及其排除方法

故　障	原　因	排 除 方 法
聚不能启动	新猴转子、定子配合过紧 电压太低 介质粘度过高	用工具人力帮助转动几圈 检查、调整 精释科技
泵不出发	能转方向不对 吸入管路有问题 介质粘度过高 转于、定子损坏或传动部件损坏 泵内异物堵塞	调整方向 检查理调，打开进出口阀门 精释料液 检查更换 排除更换
流量达不到	管路泄漏 两门未全部打开或局部堵塞 转速太低 转子、定子磨损	检查修理管路 打开全部阀门、排除堵塞物 调整转速 更换损坏零件
压力达不到	转子、定子渠损	更换转子、定子
电机过热	电机故障 出口压力过高，电机超载 定子烧坏或粘在种子上	检查电机、电压、电流、概率 检查扬程。开足出口阀门，排除阻塞更换插坏零件
流量、压力急剧下降	管道突然堵塞或泄漏 定子磨损恶劣 液体粘度突然改变 电压突然下降	检查排除 更换 找出原因排除 提出原因排除
轴密封处大量泄漏液体	软填料磨损 机械密封损坏	压紧或更换填料 修复或更换

The fault and its troubleshooting method

Old obstacle	Cause	Elimination method
Polymerization failure to start	The new monkey rotor and stator fit too tight Voltage too low Medium viscosity too high	Turn a few times with the help of a tool hand Check and adjust Precision release technology
Pump failure	Can't turn right There's a problem with the suction line Medium viscosity too high Rotor, stator or transmission component damage The pump is blocked by foreign matter	Adjust direction Check the adjustment and open the inlet and outlet valve Fine release liquid Check and replace Exclude replacement
Flow failure	Line leakage Both doors are not fully open or partially blocked Speed too low Rotor and stator wear	Check and repair piping Open all valves and remove blockage Adjust speed Replace damaged parts
underpressure	Rotor and stator channel damage	Replace the rotor and stator
Motor overheating	Motor fault The outlet pressure is too high and the motor is overloaded The stator is burnt or stuck to the seed	Check motor, voltage, current, probability Check the head. Open the outlet valve fully, remove the blockage and replace the inserted parts
Flow and pressure drop sharply	Suddenly the pipe is blocked or leaking Bad stator wear The viscosity of the liquid changes suddenly Voltage drop	Check and exclude switch Find out the cause and exclude Exclusion of cause
Large leakage of fluid in shaft seal	Soft packing wear Mechanical seal failure	Press or replace packing Repair or replace