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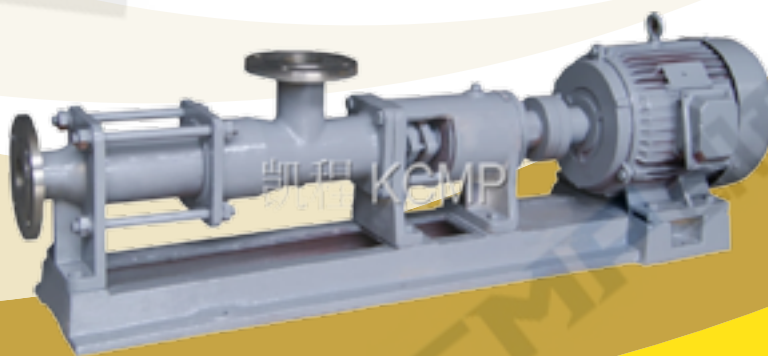
工业流体输送专家

Experts in Water industry liquid transportation



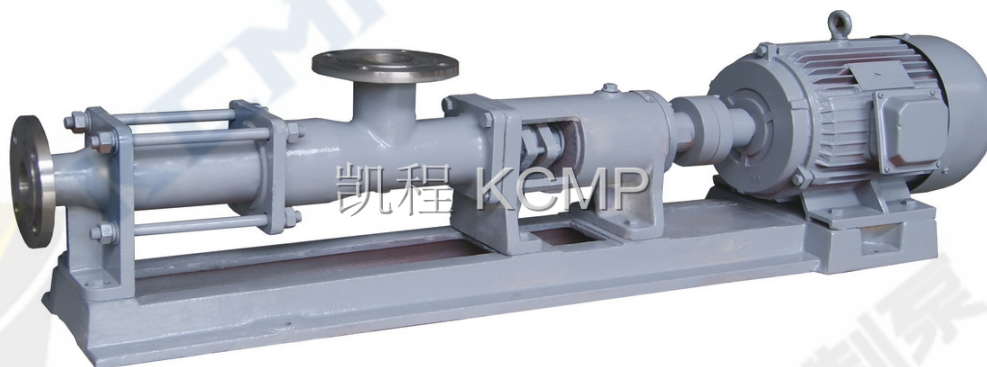
G型系列单螺杆泵 G SERIES SINGLE-SCREW PUMPS

产品说明书 Product specification



G型系列单螺杆泵产品简介 Brief Introduction of G Single-Screw Pumps

► G型系列单螺杆泵 G Single-Screw Pumps



► 型号说明 Designation

F G 35 — 1

1、表示一级泵；2、表示二级泵

1、Meaning Class I pump; 2、Meaning Class II pump

螺杆名义直径 (mm)

Nominal diameter of screw (mm)

系列单螺杆泵

Series of single-screw pump

F表示不锈钢泵 (无字母表示过流部件为铸铁, 内部零件为2Cr13不锈钢或耐磨钢)

F means stainless steel pump (In case of no letters, it means the flow-through parts are made of cast iron and the inner parts made of 2Cr13 stainless or abrasion-proof steel)

► 概述 Overview

- 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。

G Single-Screw Pumps is an enclosed screw pump with inner gearing, a kind of rotor positive-displacement pump. As this kind of pump is characterized by being adaptable for the medium, stable flow, good suction performance and small pressure pulsation, it can transfer very viscous media or those containing hard suspended or solid grains or fiber apart from various flowing media. Besides, it boasts good adjusting performance, wide range and high efficiency. Therefore, it is widely applied in various industries like environmental protection, shipping, petroleum, pharmacy, household chemical, food, brewage, construction, mining, chemistry, printing, paper making, power plants and boilers.

► 工作原理 Working principle

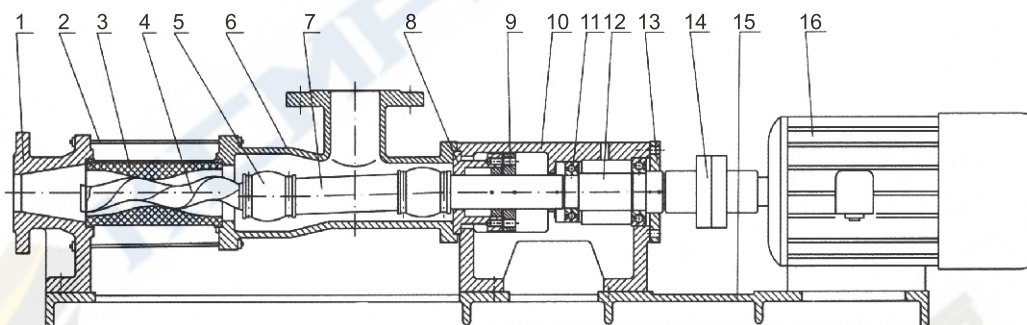
- 单螺杆泵是一种内啮合回转式容积泵, 主要工作部件是偏心螺杆 (转子) 和固定的衬套 (定子), 由于转、定子的特殊几何形状, 分别形成数个单独的密封腔, 转子的运转, 将各个密封腔内的介质连续地、匀速地、容积不变地从吸入端输送到压出端。由于有这些特性, 单螺杆泵特别适合下列工况的工作:

The single-screw pump is a kind of rotary positive-displacement pump with inner gearing. Its main working parts include eccentric screw (rotor) and fixed bush (stator). Due to special geometric shapes of the rotor and the stator, several separate seal cavities come into being respectively. The rotation of the rotor drives the transfer of media in all seal cavities from the suction end to the extrusion end continuously at a constant speed with the same volume. By right of these characteristics, the single-screw pump is especially suitable for the following working conditions:

- 1、输送高粘度的介质;
Transfer of very viscous media;
- 2、输送含有固体颗粒或纤维的介质;
Transfer of media containing solid grains or fiber;
- 3、要求连续、压力稳定、不出现周期性压力波动;
Requiring continuous operation, stable pressure and no regular pressure fluctuation;
- 4、要求搅动小、不破坏被输送介质的固有结构;
Requiring small agitation and no damages to the inherent structure of transferred media;
- 5、低的噪声。
Low noise.

G型泵结构图及应用范围 Structural Drawing and Application Scope of G Pumps

结构图 Structural Drawing



序号 No.	名称 Name	序号 No.	名称 Name
1	出料体 Discharger	9	填料压盖 Packing gland
2	拉杆 Drag rod	10	轴承座 Bearing bracket
3	定子 Stator	11	轴承 Bearing
4	螺杆轴 Screw shaft	12	传动轴 Drive shaft
5	万向节或销接 Universal joint or pinned joint	13	轴承盖 Bearing cap
6	进料体 Feeder	14	联轴器 Coupling
7	连接轴 Connecting shaft	15	底盘 Chassis
8	填料座 Packing bracket	16	电机 Motor

应用范围

单螺杆泵作为一种通用泵，流量可以根据要求，通过改变速度进行调节，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：

As a kind of universal pump, the flow of the single-screw pump can be adjusted by changing the running speed and its outlet pressure can increase along with the rise of pump stage with 0.6Mpa up per stage. It is widely applied in the following scope and industries:

- 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浊水的输送，特别适用于油水分离器、板框压滤机等设备；
Environmental protection: transfer of industrial and domestic sewage and sludge and turbid water containing solid grains and short fiber, esp. Applicable for oil-water separator, plate-and-frame filter press, etc.;
- 船舶工业：轮底清洗、油水、油渣、油污水等介质的输送；
Shipping industry: washing of tanker bottom and transfer of such media as oily water, oil residue, and oily sewage;
- 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，增加了油田采收率；
Petroleum industry: transfer of crude oil, mixture of crude oil and water as well as mixture of coal field gas and water, and pouring polymer into the stratum, thus reducing costs of mechanical extraction of oil and coal field gas and increase the recovery ratio of oil field;
- 医药、日化：各种粘稠浆、乳化液、各种软膏化妆品的输送；
Pharmacy and household chemical: transfer of various viscous slurry, emulsion and cream cosmetics;
- 食品罐头工业：各种粘稠淀粉、食油、蜂蜜、糖浆、果浆、奶油、鱼糜肉糜以及其下脚料的输送；
Food and can industry: transfer of various viscous amyllum, edible oil, honey, syrup, juice, cream, scrappy fish and meat and leftover bits and pieces;
- 酿造工业：各种发酵粘稠浆液、浓酒糟、粮食制品渣、各种酱类、浆类和含有块状固态物的粘液等；
Brewage industry: transfer of various fermented viscous slurry, thick lees, residue of food products, soy sauce products, serum products, slime containing solid blocks, etc.;
- 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；
Construction industry: spray and transfer of grout, lime mortar, dope and other paste materials;
- 采矿工业：矿井内的含固体颗粒的地下水和污水浆排送到地面；
Mining industry: draining ground water and sewage containing solid grains in mines up to the ground;
- 化学工业：各种悬浮液、油脂、各种胶体浆、各种粘合剂；
Chemical industry: various suspensions, grease, glue slurry and adhesives;
- 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；
Printing and paper making industry: transfer of very viscous printing ink, PVC macromolecule plastic paste of wallpaper, paper pulp with various concentrations and serum materials containing short fibers;
- 工业锅炉、电厂：水煤浆的输送。
Industrial boiler and power plant: transfer of coal water slurry.

G型泵性能参数表 Performance Parameters of G Pumps

性能参数表 Performance Parameters

■ 固定转速时的性能参数 Performance parameters for a fixed rotate speed

表一 Table 1

型号 Type	流量Q Capacity (m ³ /h)	压力 Pressure (MPa)	允许最高转数 Allowable max. rotation number (r/min)	电机 功率 Power (kw)	必需汽蚀余量 (NPSH)r (m)	进口法兰通径 Diameter of inlet flange (mm)	出口法兰通径 Diameter of outlet flange (mm)	允许颗粒直径 Allowable grain diameter (mm)	允许纤维长度 Allowable fiber length (mm)
G20-1	0.8	0.6	960	0.75	4	25	25	1.5	25
G20-2		1.2		1.5					
G25-1	2	0.6	960	1.5		40	32	2	30
G25-2		1.2		2.2					
G30-1	5	0.6	960	2.2		50	40	2.5	35
G30-2		1.2		3					
G35-1	8	0.6	960	3		65	50	3	40
G35-2		1.2		4					
G40-1	12	0.6	960	4		80	65	3.8	45
G40-2		1.2		5.5					
G50-1	14	0.6	720	5.5	4.5	100	80	5	50
G50-2		1.2		7.5					
G60-1	22	0.6	720	11	5	125	100	6	60
G60-2		1.2		15					
G70-1	38	0.6	720	11		150	125	8	70
G70-2		1.2		18.5					
G85-1	56	0.6	630	15		150	150	10	80
G85-2		1.2		30					
G105-1	100	0.6	500	30		200	200	15	110
G105-2		1.2		55					
G135-1	150	0.6	400	45		250	250	20	150
G135-2		1.2		90					

G型泵性能参数表 Performance Parameters of G Pumps

性能参数表 Performance Parameters

■ 单级, 由齿轮变速、电磁调速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
 Performance Parameters for Single-stage of Gear Graduation, Electromagnetic Adjustable Speed Motor with Gear Graduation, or Infinitely Variable Speed Motor with Gear Graduation

表二 Table 2

型号 Type	压力 0.3MPa			压力 0.6MPa			可调转数 Adjustable Revolutions		
	转数 Speed (r/min)	流量 Capacity Q (m³/h)	电动机功率 Power (kw)	转数 Speed (r/min)	流量 Capacity Q (m³/h)	电动机功率 Power (kw)	转数 Speed (r/min)	流量 Capacity Q (m³/h)	电动机功率 Power (kw)
G20-1	960	0.96	0.75-6级 Stage	960	0.8	0.75-6级 Stage	125~1250	0.1~1.5	1.1
	720	0.8	0.55-8级 Stage	720	0.5	0.75-8级 Stage			
	510	0.4	0.55-4级/齿轮箱 Stage/Gearbox	510	0.3	0.75-4级/齿轮箱 Stage/Gearbox			
G25-1	960	2.4	0.75-6级 Stage	960	2	1.5-6级 Stage	125~1250	0.1~3	1.5
	720	1.5	0.55-8级 Stage	720	1.27	1.1-8级 Stage			
	510	1.08	0.55-4级/齿轮箱 Stage/Gearbox	510	0.9	1.1-4级/齿轮箱 Stage/Gearbox			
G30-1	960	3.6	1.5-6级 Stage	960	3	2.2-6级 Stage	125~1250	0.2~4	2.2
	720	2.28	1.1-8级 Stage	720	1.9	1.5-8级 Stage			
	510	1.63	1.1-4级/齿轮箱 Stage/Gearbox	510	1.35	1.5-4级/齿轮箱 Stage/Gearbox			
G35-1	720	4.8	2.2-8级 Stage	720	4.04	3-8级 Stage	125~890	0.3~5	3
	510	3.36	1.5-4级/齿轮箱 Stage/Gearbox	510	2.8	2.2-4级/齿轮箱 Stage/Gearbox			
	380	1.92	1.1-4级/齿轮箱 Stage/Gearbox	380	1.60	1.5-4级/齿轮箱 Stage/Gearbox			
G40-1	510	6.8	2.2-4级/齿轮箱 Stage/Gearbox	510	5.6	3-4级/齿轮箱 Stage/Gearbox	125~890	0.3~10	4
	380	5.1	1.5-4级/齿轮箱 Stage/Gearbox	380	4	2.2-4级/齿轮箱 Stage/Gearbox			
	252	2.65	1.1-6级/齿轮箱 Stage/Gearbox	252	2.2	1.5-6级/齿轮箱 Stage/Gearbox			
G50-1	510	13.8	4-4级/齿轮箱 Stage/Gearbox	510	11.5	5.5-4级/齿轮箱 Stage/Gearbox	80~750	1~18	5.5
	380	10.2	4-4级/齿轮箱 Stage/Gearbox	380	7.5	5.5-4级/齿轮箱 Stage/Gearbox			
	252	5.6	3-6级/齿轮箱 Stage/Gearbox	252	4.4	5.5-6级/齿轮箱 Stage/Gearbox			
G60-1	510	20.8	7.5-4级/齿轮箱 Stage/Gearbox	510	16	11-4级/齿轮箱 Stage/Gearbox	63~630	1~20	11
	380	15.6	7.5-4级/齿轮箱 Stage/Gearbox	380	12	11-4级/齿轮箱 Stage/Gearbox			
	252	7.8	5.5-6级/齿轮箱 Stage/Gearbox	252	6	7.5-6级/齿轮箱 Stage/Gearbox			
G70-1	510	26	11-4级/齿轮箱 Stage/Gearbox	510	20	11-4级/齿轮箱 Stage/Gearbox	56~560	1~22	11
	380	17	7.5-4级/齿轮箱 Stage/Gearbox	380	13	11-4级/齿轮箱 Stage/Gearbox			
	252	9.1	7.5-6级/齿轮箱 Stage/Gearbox	252	7	7.5-6级/齿轮箱 Stage/Gearbox			
G85-1	380	32	11-4级/齿轮箱 Stage/Gearbox	380	25	15-4级/齿轮箱 Stage/Gearbox	37~370	2~24	15
	252	21	7.5-6级/齿轮箱 Stage/Gearbox	252	16	11-6级/齿轮箱 Stage/Gearbox			
	189	11	5.5-8级/齿轮箱 Stage/Gearbox	189	8	11-8级/齿轮箱 Stage/Gearbox			
G105-1	380	80	15-4级/齿轮箱 Stage/Gearbox	380	65	22-4级/齿轮箱 Stage/Gearbox	29~290	3~50	22
	252	44	15-6级/齿轮箱 Stage/Gearbox	252	34	22-6级/齿轮箱 Stage/Gearbox			
	189	29	11-8级/齿轮箱 Stage/Gearbox	189	22	15-8级/齿轮箱 Stage/Gearbox			
G135-1	380	132	37-4级/齿轮箱 Stage/Gearbox	380	120	45-4级/齿轮箱 Stage/Gearbox	18~180	3~56	45
	252	95	30-6级/齿轮箱 Stage/Gearbox	252	80	37-6级/齿轮箱 Stage/Gearbox			
	189	65	18.5-8级/齿轮箱 Stage/Gearbox	189	53	30-8级/齿轮箱 Stage/Gearbox			

G型泵性能参数表 Performance Parameters of G Pumps

性能参数表 Performance Parameters

■ 双级，由齿轮变速、电磁调速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
Performance Parameters for Double-stage of Gear Graduation, Electromagnetic Adjustable Speed Motor with Gear Graduation, or Infinitely Variable Speed Motor with Gear Graduation

表三 Table 3

型号 Type	压力 0.8MPa			压力 1.2MPa			可调转数 Adjustable Revolutions		
	转数 Speed (r/min)	流量 Capacity Q (m ³ /h)	电动机功率 Power (kw)	转数 Speed (r/min)	流量 Capacity Q (m ³ /h)	电动机功率 Power (kw)	转数 Speed (r/min)	流量 Capacity Q (m ³ /h)	电动机功率 Power (kw)
G20-2	960	0.96	1.5-6级 Stage	960	0.8	1.5-6级 Stage	125~1250	0.1~1.5	1.5
	720	0.8	1.1-8级 Stage	720	0.5	1.5-8级 Stage			
	510	0.4	1.1-4级/齿轮箱 Stage/Gearbox	510	0.3	1.1-4级/齿轮箱 Stage/Gearbox			
G25-2	960	2.4	1.5-6级 Stage	960	2	2.2-6级 Stage	125~1250	0.1~3	2.2
	720	1.5	1.1-8级 Stage	720	1.27	1.5-8级 Stage			
	510	1.08	1.1-4级/齿轮箱 Stage/Gearbox	510	0.9	1.5-4级/齿轮箱 Stage/Gearbox			
G30-2	960	3.6	3-6级 Stage	960	3	3-6级 Stage	125~1250	0.2~4	3
	720	2.28	1.5-8级 Stage	720	1.9	2.2-8级 Stage			
	510	1.63	1.5-4级/齿轮箱 Stage/Gearbox	510	1.35	2.2-4级/齿轮箱 Stage/Gearbox			
G35-2	720	4.8	3-8级 Stage	720	4.04	4-8级 Stage	125~890	0.3~5	4
	510	3.36	2.2-4级/齿轮箱 Stage/Gearbox	510	2.8	3-4级/齿轮箱 Stage/Gearbox			
	380	1.92	1.5-4级/齿轮箱 Stage/Gearbox	380	1.60	2.2-4级/齿轮箱 Stage/Gearbox			
G40-2	510	6.8	4-4级/齿轮箱 Stage/Gearbox	510	5.6	5.5-4级/齿轮箱 Stage/Gearbox	125~890	0.3~10	5.5
	380	5.1	3-4级/齿轮箱 Stage/Gearbox	380	4	4-4级/齿轮箱 Stage/Gearbox			
	252	2.65	2.2-6级/齿轮箱 Stage/Gearbox	252	2.2	3-6级/齿轮箱 Stage/Gearbox			
G50-2	510	13.8	5.5-4级/齿轮箱 Stage/Gearbox	510	11.5	7.5-4级/齿轮箱 Stage/Gearbox	80~750	1~18	7.5
	380	10.2	4-4级/齿轮箱 Stage/Gearbox	380	7.5	5.5-4级/齿轮箱 Stage/Gearbox			
	252	5.6	3-6级/齿轮箱 Stage/Gearbox	252	4.4	5.5-6级/齿轮箱 Stage/Gearbox			
G60-2	510	20.8	15-4级/齿轮箱 Stage/Gearbox	510	16	15-4级/齿轮箱 Stage/Gearbox	63~630	1~20	15
	380	15.6	11-4级/齿轮箱 Stage/Gearbox	380	12	15-4级/齿轮箱 Stage/Gearbox			
	252	7.8	7.5-6级/齿轮箱 Stage/Gearbox	252	6	11-6级/齿轮箱 Stage/Gearbox			
G70-2	510	26	15-4级/齿轮箱 Stage/Gearbox	510	20	18.5-4级/齿轮箱 Stage/Gearbox	56~560	1~22	18.5
	380	17	11-4级/齿轮箱 Stage/Gearbox	380	13	15-4级/齿轮箱 Stage/Gearbox			
	252	9.1	11-6级/齿轮箱 Stage/Gearbox	252	7	11-6级/齿轮箱 Stage/Gearbox			
G85-2	380	32	18.5-4级/齿轮箱 Stage/Gearbox	380	25	22-4级/齿轮箱 Stage/Gearbox	37~370	2~24	22
	252	21	15-6级/齿轮箱 Stage/Gearbox	252	16	18.5-6级/齿轮箱 Stage/Gearbox			
	189	11	15-8级/齿轮箱 Stage/Gearbox	189	8	15-8级/齿轮箱 Stage/Gearbox			
G105-2	380	80	30-4级/齿轮箱 Stage/Gearbox	380	65	37-4级/齿轮箱 Stage/Gearbox	29~290	3~50	37
	252	44	30-6级/齿轮箱 Stage/Gearbox	252	34	30-6级/齿轮箱 Stage/Gearbox			
	189	29	22-8级/齿轮箱 Stage/Gearbox	189	22	22-8级/齿轮箱 Stage/Gearbox			
G135-2	380	132	55-4级/齿轮箱 Stage/Gearbox	380	120	75-4级/齿轮箱 Stage/Gearbox	18~180	3~56	75
	252	95	55-6级/齿轮箱 Stage/Gearbox	252	80	75-6级/齿轮箱 Stage/Gearbox			
	189	65	37-8级/齿轮箱 Stage/Gearbox	189	53	45-8级/齿轮箱 Stage/Gearbox			

G型泵性能参数表和选型原则 Performance Parameters and Model Selection Instructions of G Pumps

性能参数表 Performance Parameters

单、双级水煤浆工作泵的性能参数
Performance Parameters of Single and Double Stage Coal Water Slurry Working Pumps

表四 Table 4

泵型 Type	流量 Capacity Q (m ³ /h)	工作压力 Working Pressure (MPa)	转速 Speed (r/min)	齿轮减速配套调速电机 Gear Reduction with Adjustable Speed Motor (kw)
G30-2	~1	1.2	30~300	YCT160/4A-2.2
G35-2	~2	1.2	30~300	YCT160/4A-2.2
G40-2	~3	1.2	30~280	YCT160/4A-3
G50-1	~4.5	0.6	28~280	YCT180/4A-4
G50-2	~4.5	1.2	28~280	YCT200/4A-5.5
G60-1	~6.5	0.6	25~250	YCT200/4A-5.5
G60-2	~6.5	1.2	25~250	YCT200/4B-7.5
G70-1	~8	0.6	25~220	YCT200/4B-7.5
G85-1	~12.5	0.6	18~180	YCT225/4A-11
G105-1	~20	0.6	14~140	YCT225/4B-15
G135-1	~35	0.6	10~100	YCT250/4B-22

说明: 1、以上性能参数是常温清水试验时的试验数据;

Notes: The performance parameters above are the data from normal temperature clean water test;

- 对于不同的介质、不同的转速, 性能参数都将变化, 其流量值与浓度、粘度成反比, 与转速成正比;
Performance parameters vary from different medium and rotary speed. The value of its flow rate is in inverse proportion to concentration and viscosity, and in proportion to rotary speed;
- 用户必需根据使用要求、输送介质的状况、选型原则选择泵的类型, 或者和本公司技术部门协商来决定泵的类型。
The type of pump should be based on application requirements, the state of medium to be delivered, and the instructions for model selection, or consult with our technical department for advice.
- 对于水煤浆泵传动形式为齿轮调速配套电磁调速电机或机械无级变速电机, 流量随转速变化无级可调。
The driving mode of coal water slurry pump may be gear speed regulation with electromagnetic adjustable speed motor or mechanical infinitely variable speed motor, flow rate infinitely adjustable with the variation of rotary speed.

选型原则 Model Selection Instructions

1、根据介质粘度选择泵的转速 The rotary speed of pump should be based on the viscosity of medium

介质粘度Viscosity (cst)	1~1000	1000~10000	10000~100000	100000~1000000
转速Speed(r/min)	400~1000	200~400	< 200	< 100

2、根据介质的磨损性选择泵的转速 The rotary speed of pump should be based on the abrasion property of medium

介质磨损状况 Abrasion of medium	介质名称 Names of medium	转速Speed(r/min)
无磨损 Nil	淡水、促凝剂、油、浆汁、肥皂水、血液、甘油等 fresh water, coagulant, oil, paste, soap water, blood and glycerin etc..	400~1000
一般磨损 Average	工业废水、油漆颜料、粘灰浆、鱼、麦麸、菜籽油过滤后的沉积物等 Sediment of filtered industrial wastewater, paint pigment, mortar, fish, wheat bran and colza oil etc.	200~400
严重磨损 Serious	泥浆、石灰浆、灰泥、陶土、粘土等 Sludge, lime mortar, clay mortar, china clay and clunch etc..	50~200

注: a. 表中给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;

Note: In the table is a sample of specific medium delivered and its abrasion property. Note that the characteristics of medium vary according to the change of concentration and temperature.

b. 当泵的规格越大时, 转速应选低一些。

The greater the specifications of pump, the lower the rotary speed.

3、按输出压力定级数 The number of stages depends on output pressure.

磨损性Abrasion	一级1 Stage	二级2 Stage	磨损性Abrasion	一级1 Stage	二级2 Stage	磨损性Abrasion	一级1 Stage	二级2 Stage
无Nil	0.6MPa	1.2MPa	一般Average	0.4MPa	0.8MPa	严重Serious	0.2MPa	0.4MPa

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

Note: The selection of rotary speed should be based on experience, as some other factors may have influence on the selection of rotary speed. After being sure of the above numerical value, you'd better consult with our company for final decision.

G型泵材料表 Matiral Table of G Pumps

材料表 Matiral Table

4、单螺杆泵用的橡胶基本特性 Basic characteristics of rubber used in single-screw pump

适应性 Applicability 介质 Medium	橡胶 Rubber	丁腈橡胶	氟橡胶	乙丙橡胶	天然橡胶
		NBR	FPM	EPDM	NR
耐最高温度 Maximum Temperature Resistance		+100℃	+150℃	+120℃	+60℃
耐磨性 Wear Resistance		○	○	●	○
耐老化性 Aging Resistance		●	○	○	×
耐臭氧 Ozone Resistance		×	○	○	×
耐蒸汽 Steam Resistance		●	○	○	×
耐燃性 Flame Resistance		●	○	○	×

注：●很好 ○优 ×不行

Note: ● Very good ○ Excellent × No good

5、单螺杆泵根据介质选择定子橡胶 Stator rubber is chosen for single-screw pump according to media

适应性 Applicability 介质 Medium	橡胶 Rubber					适应性 Applicability 介质 Medium	橡胶 Rubber				
	丁腈橡胶 NBR	氟橡胶 FPM	食品橡胶 W-NBR	乙丙橡胶 EPDM	天然橡胶 NR		丁腈橡胶 NBR	氟橡胶 FPM	食品橡胶 W-NBR	乙丙橡胶 EPDM	天然橡胶 NR
水（含污水） Water (including sewage)	●	●	●	●	△	乙醇 Ethanol	●	●	●	△	●
植物油 Vegetable Oil	●	●	●	△	×	煤油 Kerosene	●	●	●	×	×
矿物油 Mineral Oil	●	●	●	×	×	柴油 Diesel Oil	●	●	●	×	×
氨水 Ammonia	●	×	●	△	●	氯化氢 Ammonium Chloride	×	△	×	×	×
芳香族溶剂 Aromatic Solvent	×	●	×	×	×	含酮类物料 Material Containing Ketone	×	×	×	●	×
浓碱 Concentrated Base	●	×	●	●	×	含醇类物料 Material Containing Alcohols	●	●	●	●	●
浓硝酸 Concentrated Nitric Acid	×	△	×	×	×	含脂类物料 Material Containing Lipid	×	×	×	●	×
冰醋酸 Glacial Acetic Acid	●	●	●	×	△	含醚类物料 Material Containing Aether	×	×	×	●	×
稀硫酸 Dilute Sulfuric Acid	●	●	●	●	●	泥浆 Slurry	●	△	●	●	●
浓硫酸 Concentrated Sulfuric Acid	×	●	×	△	×	磷酸 Phosphoric Acid	△	△	△	●	●
稀盐酸 Dilute Hydrochloric Acid	●	●	×	●	●	碳酸钠 Sodium Carbonate	●	×	●	●	●
浓盐酸 Concentrated Hydrochloric Acid	●	●	●	●	●	糖醛 Furfural	△	△	△	●	×
热水 Hot Water	△	×	△	●	×	苯100 Benzene 100	×	●	×	×	×
汽油 Gasoline	●	●	●	×	×	丙酮 Acetone	×	×	×	●	×
甲苯 Toluol	×	●	×	×	×	亚麻子油 Linseed Oil	●	●	●	●	×
二甲苯 Xylene	×	●	×	×	×	二硫化碳 Carbon Bisulfide	×	●	×	×	×

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；

2、●很好 △一般 ×不行

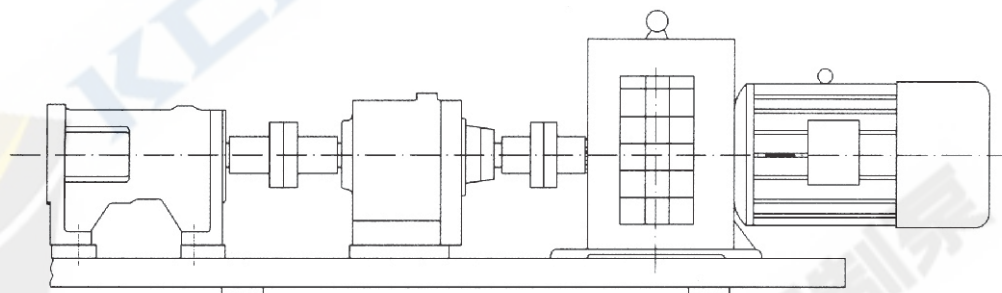
Note: 1. In the table is the applicability of some common mediums. Contact our company in case of special medium or any special requirements.

● Very good △ General × No good

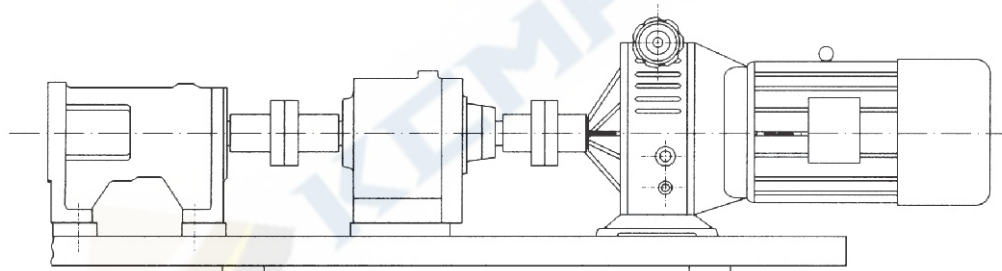
G型泵的驱动方式 Driving Modes of G Pumps

驱动方式 Driving Modes

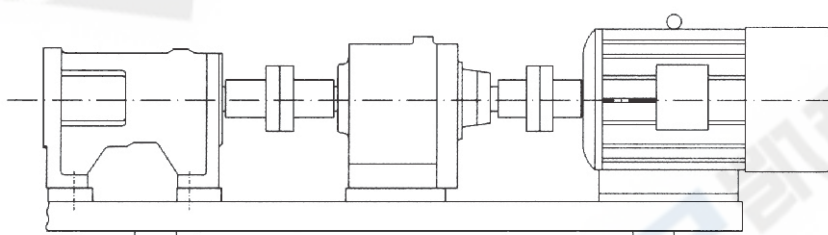
齿轮配合电磁调速电机驱动
Driven by gear with electromagnetic adjustable motor



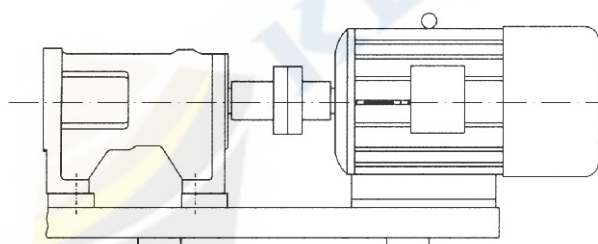
齿轮配合无级变速电机驱动
Driven by gear with infinitely variable speed motor



齿轮配合普通电机驱动
Driven by gear with common motor



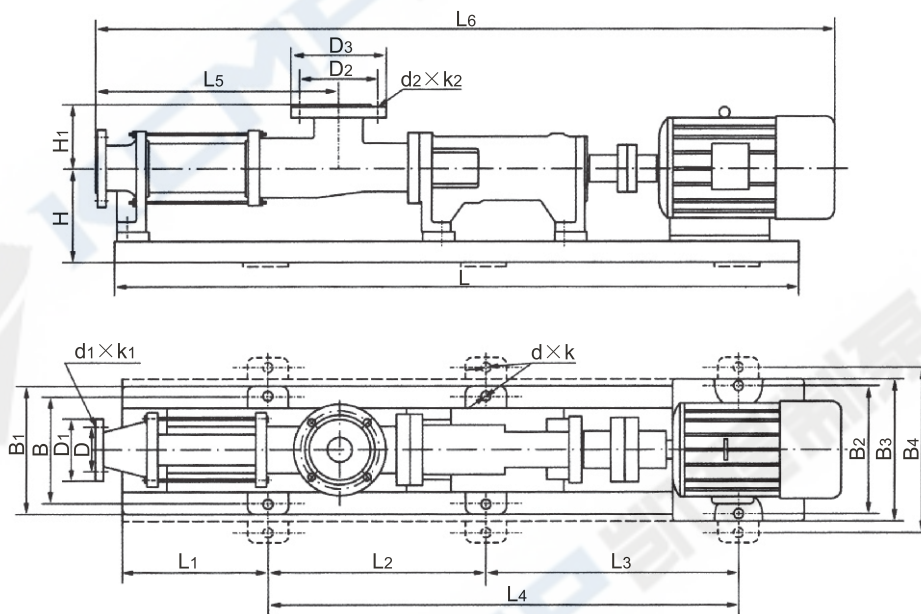
普通电机直接驱动
Directly driven by common motor



G型泵的安装尺寸图及安装尺寸表 Installation Dimensions Drawing and Table of G Pumps

泵的安裝尺寸(固定转速时的尺寸, 特定转速的安裝尺寸在訂貨時附給)

Installation Dimensions of Pump (Make clear of the installation dimensions in fixed speed and specific speed when placing an order.)



Type 型号	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	H	H ₁	B	B ₁	B ₂	B ₃	B ₄	D	D ₁	D ₂	D ₃	d × k	d ₁ × k ₁	d ₂ × k ₂
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	42 × 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	260	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	330		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	2620	210	1100	1100		945	2810	275	170				350	400	240	280	225	265	6 × 18	8 × 18	8 × 18
G105-1						1193		300	195						295	340	280	320	6 × 18	12 × 22	8 × 18

说明: 底盘分铸铁底盘和槽钢底盘, 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: The base plate may be made of cast iron or channel steel. The installation dimensions of channel steel base plate indicated by dotted line, while that of cast iron base plate indicated by full line.

G型泵的使用与故障排除 Operation and Troubleshooting of G Pumps

使用注意事项 Operation Attentions

- 开机前必先确定方向，不得反转；Make sure of the direction before start, no inverse allowed;
- 严禁在无介质的情况下空运转，以免损坏定子；Idle running without medium is strictly forbidden, as this may cause stator damaged;
- 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；
Pump that has been newly installed or stopped for several days cannot be started immediately, and it should be started after adequate quantity of engine oil or soap water has been injected in, and after it has been turned for several rounds by a pipe spanner.
- 输送高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；
When it has been used to deliver high viscosity or corrosive medium containing particles, it should be washed by water or solvent to avoid blockage, so that it cannot be difficult to be started next time.
- 冬季应排除积液，防止冻裂；Clear away the residual liquid in winter to avoid freezing;
- 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；
Fill in lubricating oil to bearing seat regularly in operation. In case of any leakage at shaft end, correct it or replace the oil seal immediately;
- 在运行中如发现异常情况，应立即停车检查原因，排除故障。
In case of any abnormal conditions in operation, stop it immediately for solutions.

故障及其排除方法 Faults and Removal Methods

故障 Faults	原因 Cause	排除方法 Removal Methods
泵不能启动 Pump unable to be started	新泵转子、定子配合过紧 The rotor and stator of new pump over fastened 电压太低 Voltage too low 介质粘度过高 Excessive viscosity of medium	用工具人力帮助转动几圈 Turn it for several rounds with a tool by manpower 检查、调整 Check and adjust 稀释料液 Dilute the feed liquid
泵不出液 No liquid coming out from pump	旋转方向不对 Wrong rotating direction 吸入管路有问题 Suction pipeline in trouble 介质粘度过高 Excessive viscosity of medium 转子、定子损坏或传动部件损坏 Rotor and stator damaged, or driving components damaged 泵内异物堵塞 Pump blocked inside	调整方向 Adjust the direction 检查泄漏，打开进出口阀门 Check the leakage, open inlet and outlet valves 稀释料液 Dilute the feed liquid 检查更换 Check and replace 排除更换 Replace
流量达不到 Short of flow rate	管路泄漏 Leakage in pipeline 阀门未全部打开或局部堵塞 Valve not fully opened or partially blocked 转速太低 Rotating speed too low 转子、定子磨损 Rotor and stator damaged	检查修理管路 Check and repair the pipeline 打开全部阀门、排除堵塞物 Open all the valves and clear away the blockage 调整转速 Adjust the rotary speed 更换损坏零件 Replace the damaged parts
压力达不到 Short of pressure	转子、定子磨损 Rotor and stator damaged	更换转子、定子 Replace the rotor and stator
电机过热 Motor overheated	电机故障 Failure of motor 出口压力过高，电机超载 Excessive outlet pressure, motor overloaded 定子烧坏或粘在转子上 Stator burned out or stuck onto the rotor	检查电机、电压、电流、频率 Check the motor, voltage, current and frequency 检查扬程，开足出口阀门，排除阻塞 Check the head, fully open the outlet valve and clear away the blockage 更换损坏零件 Replace the damaged parts
流量、压力急剧下降 Sudden drop of flow and pressure	管道突然堵塞或泄漏 Sudden blocking or leaking in pipeline 定子磨损恶劣 Stator seriously damaged 液体粘度突然改变 Sudden change of liquid viscosity 电压突然下降 Sudden drop of voltage	检查排除 Check and solve 更换 Replace 找出原因排除 Find out the cause for solution 找出原因排除 Find out the cause for solution
轴密封处大量泄漏液体 Serious leakage of liquid at shaft seal	软填料磨损 Soft packing damaged 机械密封损坏 Mechanical seal damaged	压紧或更换填料 Press out or replace the packing 修复或更换 Repair or replace

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