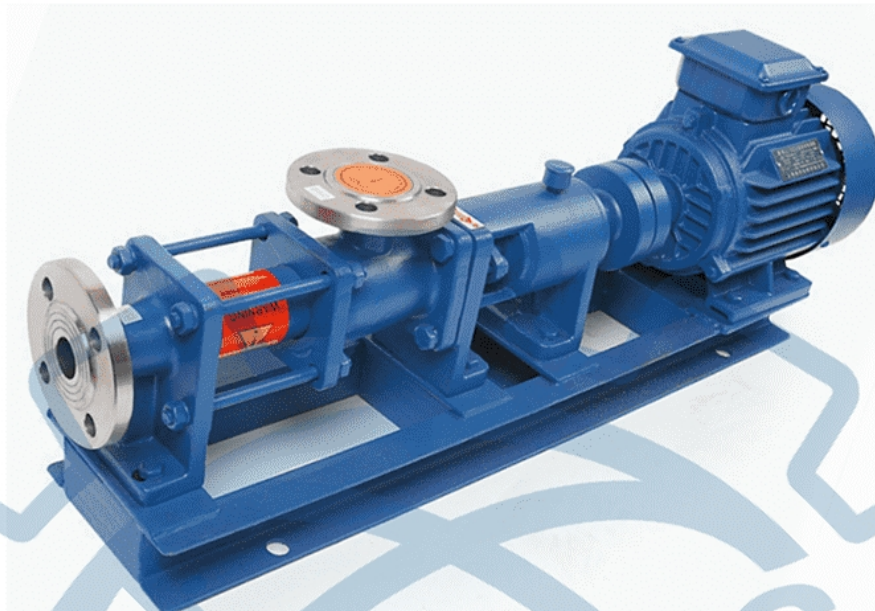


G型单螺杆泵 G type single screw pump



描述 Introduction

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。

G series of single screw pump is a kind of internal gear is closed, the pump rotor type positive displacement pump, owing to the pump for medium adaptability is strong, smooth flow, suction performance is good, small pressure fluctuation, besides can transport all kinds of fluid medium, can also carries high viscous medium, containing hard suspended particles or solid granules medium quality, medium containing fiber, good regulation performance, Wide range, high efficiency, therefore, in environmental protection, shipping, petroleum, medicine, daily chemical, food, brewing, construction, mining, chemistry, printing, paper, power plant, boiler and other industries have been widely used.

特点 Features

- 简单而坚固的设计，很少的活动部件。
Simple and robust design, with few moving parts.
- 紧凑的结构 Compact in structure.
- 维护维修方便，拆装工艺简单。
Easy of maintenance and repair, simple assembly and disassembly process.
- 能够泵送高粘度流体和含有大量固体和/或纤维的流体。
Able to pump highly viscous fluids and fluids containing high amounts of solids and/or fibre.
- 通用泵送方式，泵送范围广，泵送速度快。 Versatile pumping, wide range or pumping speed.
- 不倾斜，适用于敏感材料。 Non-sheering, suitable for sensitive materials.
- 压力随泵送阶段增加，可定制以适应泵送应用。
Pressure increases with pumping stages, customisable to suit pumping applications.

优势 Benefits

- 在负压下也能输送含有气体的介质 can convey fluids with air when under
- 可输送含有纤维和固体颗粒的液体 can convey liquids with fiber and solids
- 泵的吸料口与进料斗相连 The suction port is with feeding hopper, so the pump.
- 自吸性能好，吸入性能好 high self suction.
- 可反向输送 Opposite direction conveying.
- 输送非常粘稠的含水的介质 Convey very high viscosity fluids with water.

应用范围working principle

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浊水的输送;特别适用于油水分离器，板框压滤机等。

Environmental protection: Industrial sewage, domestic sewage, and sludge turbid water containing solid particles and short fibers are especially used in oil-water separator plate and frame filter press equipment;

2、船舶工业：轮底清洗、油水、油渣、油污水等介质的输送;

Shipbuilding industry: round bottom cleaning, oil water, oil residue, oil sewage and other ring transportation;

3、石油工业：输送原油。近年来，尤其成功地抽吸地下千米之深的原油与水的混合物，煤田里的煤田气和水的混合物，从而大大降低了机械采油、采煤田气的成本。当油田到了后期，使用螺杆泵往地层内灌注聚合物增加油田采收率;

Petroleum industry: transporting crude oil, a mixture of crude oil and water, a mixture of coal gas and water, pouring polymers into the formation, and the like.

4、医药、日化：各种粘调浆、乳化液、各种软膏化妆品等的输送。5、食品罐头业：各种粘稠淀粉、食油、蜂蜜、糖酱、果浆、奶油、鱼糜肉糜以及其下脚料的输送。Medicine, daily: a variety of thick paste, emulsion, various ointment cosmetics.

5、食品罐头业：各种粘稠淀粉、食油、蜂蜜、糖酱、果浆、奶油、鱼糜肉糜以及其下脚料的输送;

Food canning industry: all kinds of viscous starch, distiller's grains, grain slag, various sauces, pulp, solid slurry;

6、酿造业：各种发酵粘稠液、浓酒糟、粮食制品渣各种酱类、浆和含有块状固态物的粘液;

Construction industry: spraying of cement mortar, lime slurry, paint and paste;

7、建筑业：水泥砂浆、石灰浆、涂料及其经糊状体的喷涂与输送; Mining industry: solid particles, groundwater, and slurry water in mines;

8、采矿工业：矿井内的含固体颗粒的地下和污水水等排送到地面;

Chemical industry: various suspensions, greases, various colloidal pastes, various adhesives;

9、化学工业：各种悬浮液、油脂、各种胶体浆、各种粘合剂;

Printing, papermaking: high viscosity ink, wallpaper PVC polymer paste and various concentrations of pulp, short fiber slurry;

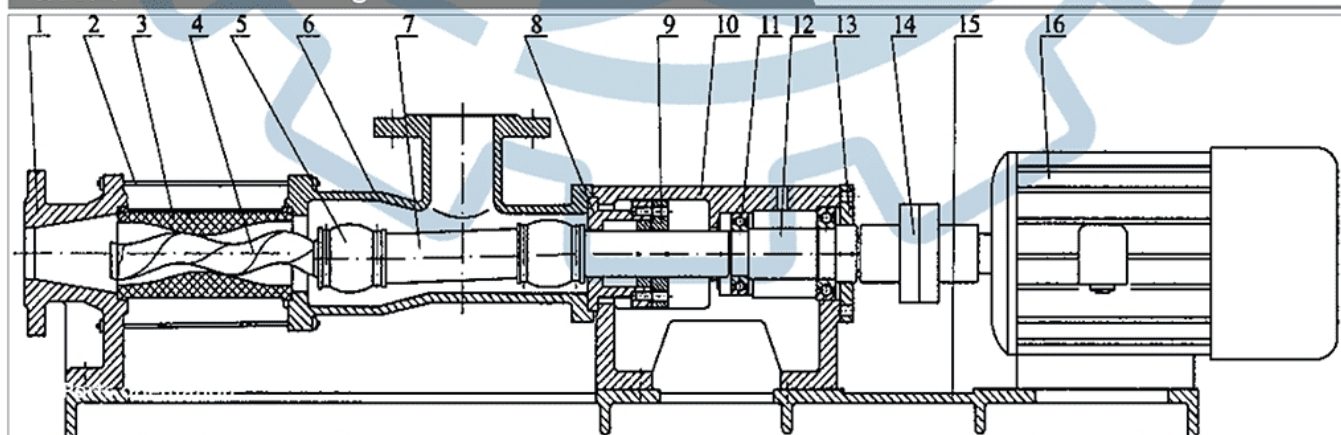
10、印刷、造纸工业：高粘度油墨、墙纸的PVC高分子塑料糊和各种浓度的纸浆，短纤维浆料的输送;

Industrial boilers, power plants: coal water slurry transportation;

型号代码Ordering Code



结构图 Structure Drawing



1	出料体Discharge point	2	拉杆Draw bar	3	定子Stator	4	螺杆轴Screw shaft
5	万向节或销接Universal Joint	6	进料体Suction Port	7	连接轴Coupling Shaft	8	填料座stuffing bracket
9	填料压盖stuffing cover	10	轴承座Bearing Housing	11	轴承Bearing	12	传动轴transmission shaft
13	轴承盖Bearing Cover	14	联轴器Coupling	15	底盘Base plate	16	电机Motor

技术参数 Technical Specification

型号 Model	流量Capacity (m ³ /h)	压力Pressure (Mpa)	允许最高转速 Max Speed (r/min)	电机功率Motor power (Kw)	扬程Head (m)	进口尺寸Inlet size(mm)	出口尺寸 Outlet size (mm)	允许颗粒尺寸 Max solid size (mm)	允许纤维长度 Max fiber length (mm)
G20-1	0.8	0.6	960	0.75	60	25	25	1.5	25
G20-2		0.6		1.1	120				
G25-1	2	0.6	960	1.5	60	40	32	2	30
G25-2		1.2		2.2	120				
G30-1	5	0.6	960	2.2	60	50	40	2.5	30
G30-2		1.2		3	120				
G35-1	8	0.6	960	3	60	65	50	3	40
G35-2		1.2		4	120				
G40-1	12	0.6	960	4	60	80	65	3.8	45
G40-2		1.2		5.5	120				
G50-1	20	0.6	960	5.5	60	100	80	5	50
G50-2		1.2		7.5	120				
G60-1	30	0.6	960	11	60	125	100	6	60
G60-2		1.2		15	120				
G70-1	45	0.6	720	11	60	150	125	8	70
G70-2		1.2		18.5	120				
G85-1	65	0.6	720	15	60	150	150	10	80
G85-2		0.6		30	120				
G105-1	100	0.6	720	30	60	200	200	15	100
G105-2		1.2		55	120				
G135-1	150	0.6	720	45	60	250	250	20	150
G135-2		1.2		90	120				

Note:

1. Above data based on clean water at 20degC and viscosity of 1mm²/s
2. The speed may differ for high viscosity fluids, fluid with solid and abrasive fluids.

一级泵Single Stage									
型号 Model	压力0.3Mpa			压力0.6Mpa			可调转速		
	转速Speed (r/min)	流量Capacity (m3/h)	电动机功率 Motor power (kw)	转速Speed (r/min)	流量Capacity (m3/h)	电动机功率 Motor power (kw)	转速Speed (r/min)	流量Capacity (m3/h)	电动机功率 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
	720	0.8	0.55-8级	720	0.5	0.75-8级			
	510	0.4	0.55-4级/齿轮箱	510	0.3	0.75-4级/齿轮箱			
G25-1	960	2.4	0.75-6级	960	2	1.5-6级	125~1250	0.1~3	1.5
	720	1.5	0.55-8级	720	1.27	1.1-8级			
	510	1.08	0.55-4级/齿轮箱	510	0.9	1.1-4级/齿轮箱			
G30-1	960	3.6	1.5-6级	960	3	2.2-6级	125~1250	0.2~4	2.2
	720	2.28	1.1-8级	720	1.9	1.5-8级			
	510	1.63	1.1-4级/齿轮箱	510	1.35	1.5-4级/齿轮箱			
G35-1	720	4.8	2.2-8级	720	4.04	3-8级	125~890	0.3~5	3
	510	3.36	1.5-4级/齿轮箱	510	2.8	2.2-4级/齿轮箱			
	380	1.92	1.1-4级/齿轮箱	380	1.60	1.5-4级/齿轮箱			
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
	380	5.1	1.5-4级/齿轮箱	380	4	2.2-4级/齿轮箱			
	252	2.65	1.1-6级/齿轮箱	252	2.2	1.5-6级/齿轮箱			
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
	380	10.2	4-4级/齿轮箱	380	7.5	5.5-4级/齿轮箱			
	252	5.6	3-6级/齿轮箱	252	4.4	5.5-6级/齿轮箱			
G60-1	510	20.8	7.5-4级/齿轮箱	510	16	11-4级/齿轮箱	63~630	1~20	11
	380	15.6	7.5-4级/齿轮箱	380	12	11-4级/齿轮箱			
	252	7.8	5.5-6级/齿轮箱	252	6	7.5-6级/齿轮箱			
G70-1	510	26	11-4级/齿轮箱	510	20	11-4级/齿轮箱	56~560	1~22	11
	380	17	7.5-4级/齿轮箱	380	13	11-4级/齿轮箱			
	252	9.1	7.5-6级/齿轮箱	252	7	7.5-6级/齿轮箱			
G85-1	380	32	11-4级/齿轮箱	380	25	15-4级/齿轮箱	37~370	2~24	15
	252	21	7.5-6级/齿轮箱	252	16	11-6级/齿轮箱			
	189	11	5.5-8级/齿轮箱	189	8	11-8级/齿轮箱			
G105-1	380	80	15-4级/齿轮箱	380	65	22-4级/齿轮箱	29~290	3~50	22
	252	44	15-6级/齿轮箱	252	34	22-6级/齿轮箱			
	189	29	11-8级/齿轮箱	189	22	15-8级/齿轮箱			
G135-1	380	132	37-4级/齿轮箱	380	120	45-4级/齿轮箱	18~180	3~56	45



二级泵 Two Stage									
型号 Model	压力 0.8Mpa			压力 1.2Mpa			可调转速		
	转速 Speed (r/min)	流量 Capacity (m3/h)	电动机功率 Motor power (kw)	转速 Speed (r/min)	Capacity	电动机功率 Motor power (kw)	转速 Speed (r/min)	流量 Capacity (m3/h)	电动机功率 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
	720	0.8	1.1-8级	720	0.5	1.5-8级			
	510	0.4	1.1-4级/齿轮箱	510	0.3	1.1-4级/齿轮箱			
G25-2	960	2.4	1.5-6级	960	2	2.2-6级	125~1250	0.1~3	2.2
	720	1.5	1.1-8级	720	1.27	1.5-8级			
	510	1.08	1.1-4级/齿轮箱	510	0.9	1.5-4级/齿轮箱			
G30-2	960	3.6	3-6级	960	3	3-6级	125~1250	0.2~4	3
	720	2.28	1.5-8级	720	1.9	2.2-8级			
	510	1.63	1.5-4级/齿轮箱	510	1.35	2.2-4级/齿轮箱			
G35-2	720	4.8	3-8级	720	4.04	4-8级	125~890	0.3~5	4
	510	3.36	2.2-4级/齿轮箱	510	2.8	3-4级/齿轮箱			
	380	1.92	1.5-4级/齿轮箱	380	1.60	2.2-4级/齿轮箱			
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
	380	5.1	3-4级/齿轮箱	380	4	4-4级/齿轮箱			
	252	2.65	2.2-6级/齿轮箱	252	2.2	3-6级/齿轮箱			
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
	380	10.2	4-4级/齿轮箱	380	7.5	5.5-4级/齿轮箱			
	252	5.6	3-6级/齿轮箱	252	4.4	5.5-6级/齿轮箱			
G60-2	510	20.8	15-4级/齿轮箱	510	16	15-4级/齿轮箱	63~630	1~20	15
	380	15.6	11-4级/齿轮箱	380	12	15-4级/齿轮箱			
	252	7.8	7.5-6级/齿轮箱	252	6	11-6级/齿轮箱			
G70-2	510	26	15-4级/齿轮箱	510	20	18.5-4级/齿轮箱	56~560	1~22	18.5
	380	17	11-4级/齿轮箱	380	13	15-4级/齿轮箱			
	252	9.1	11-6级/齿轮箱	252	7	11-6级/齿轮箱			
G85-2	380	32	18.5-4级/齿轮箱	380	25	22-4级/齿轮箱	37~370	2~24	22
	252	21	15-6级/齿轮箱	252	16	18.5-6级/齿轮箱			
	189	11	15-8级/齿轮箱	189	8	15-8级/齿轮箱			
G105-2	380	80	30-4级/齿轮箱	380	65	37-4级/齿轮箱	29~290	3~50	37
	252	44	30-6级/齿轮箱	252	34	30-6级/齿轮箱			
	189	29	22-8级/齿轮箱	189	22	22-8级/齿轮箱			
G135-2	380	132	55-4级/齿轮箱	380	120	75-4级/齿轮箱	18~180	3~56	75
	252	95	55-6级/齿轮箱	252	80	75-6级/齿轮箱			
	189	65	37-8级/齿轮箱	189	53	45-8级/齿轮箱			



型号	流量	工作压力	转速	齿轮减速配套调速电机
G30-2	~1	1.2	30~300	YTC160/4A-2.2
G35-2	~2	1.2	30~300	YTC160/4A-2.2
G40-2	~3	1.2	30~280	YTC160/4A-3
G50-1	~4.5	0.6	38~280	YTC180/4A-4
G50-2	~4.5	1.2	28~280	YTC2000/4A-5.5
G60-1	~6.5	0.6	25~250	YTC2000/4A-5.5
G60-2	~6.5	1.5	25~250	YTC2000/4B-7.5
G70-1	~8	0.6	25~220	YTC2000/4B-7.5
G85-1	~12.5	0.6	18~180	YTC225/4A-11
G105-1	~20	0.6	14~140	YTC225/4B-15
G135-1	~35	0.6	10~100	YTC250/4B-22

说明explain：

◆ 以上性能参数是常温清水试验时的试验数据；

The above performance parameters are the test data of normal temperature 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；

For different media, different speed, performance parameters will change, the flow value and concentration, viscosity is inversely proportional to the 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 user must choose the type of pump according to the requirements of use, the condition of conveying medium and the principle of selection, or consult with the technical department of the company to decide the type of pump.

◆ 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。

For CWS pump transmission form for gear speed regulating matching electromagnetic speed regulating motor or mechanical stepless variable speed motor, the flow with speed change stepless adjustable

选型参数pump selection principle

根据介质粘度选择泵速Select pump speed based on below fluid viscosity

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

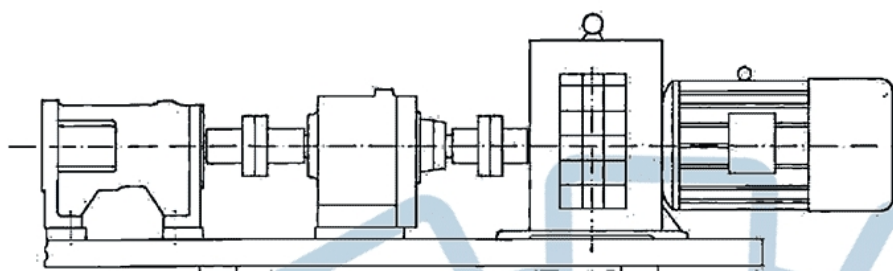
根据介质磨损度选择泵速Select pump speed based on below different abrasive fluids

介质磨损情况	介质名称	转速r/min
无磨损No Abrasive	淡水，促凝剂，油，浆汁，肉末，血液，肥皂水，甘油等 Fresh water, accelerator, oil, jam, minced meat, blood, soap suds, Glycerin, etc	400~1000
一般磨损Common Abrasive	浆料、工业废水、油漆颜料、粘灰浆、鱼、麦麸、菜籽油等过滤后的沉淀物。 Sediment after filter from slurry, industrial wastewater, painting, mortar, fish, colza oil etc.	200~400
严重磨损eavy Abrasive	灰色纸浆、粘土、石膏、陶泥等 Grey pulp, clay, plaster, pottery clay, etc	50~200

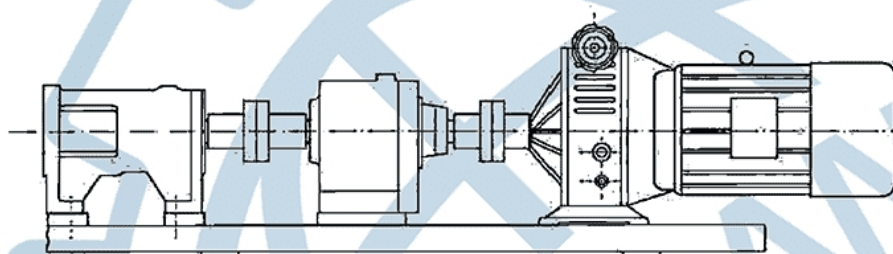
根据输出压力选择级数Select Stage according to the output pressure

磨损Abrasive	1级 Single Stage	2级 Two Stage	一般磨损 Abrasive	1级 Single Stage	2级 Two Stage	严重磨损 Abrasive	1级 Single Stage	2级 Two Stage
No Abrasive	0.6Mpa	1.2Mpa	Common	0.4Mpa	0.8Mpa	Heavy Abrasive	0.2Mpa	0.4Mpa

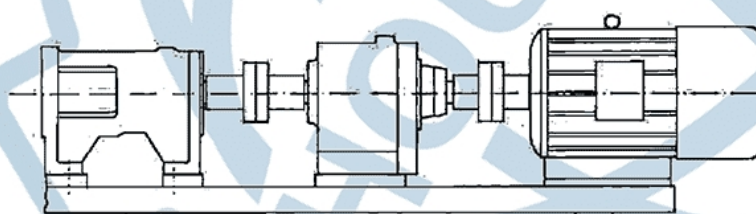
泵的驱动方式pump driving mode



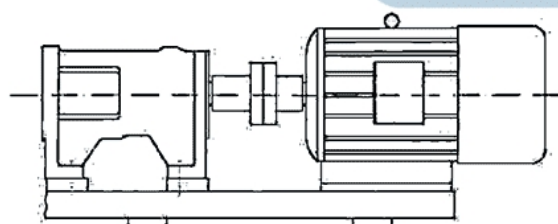
齿轮配合电磁调速电机驱动
The gear is driven by electromagnetic speed regulating motor



齿轮配合无极变速电机驱动
Gears are driven by stepless variable speed motor

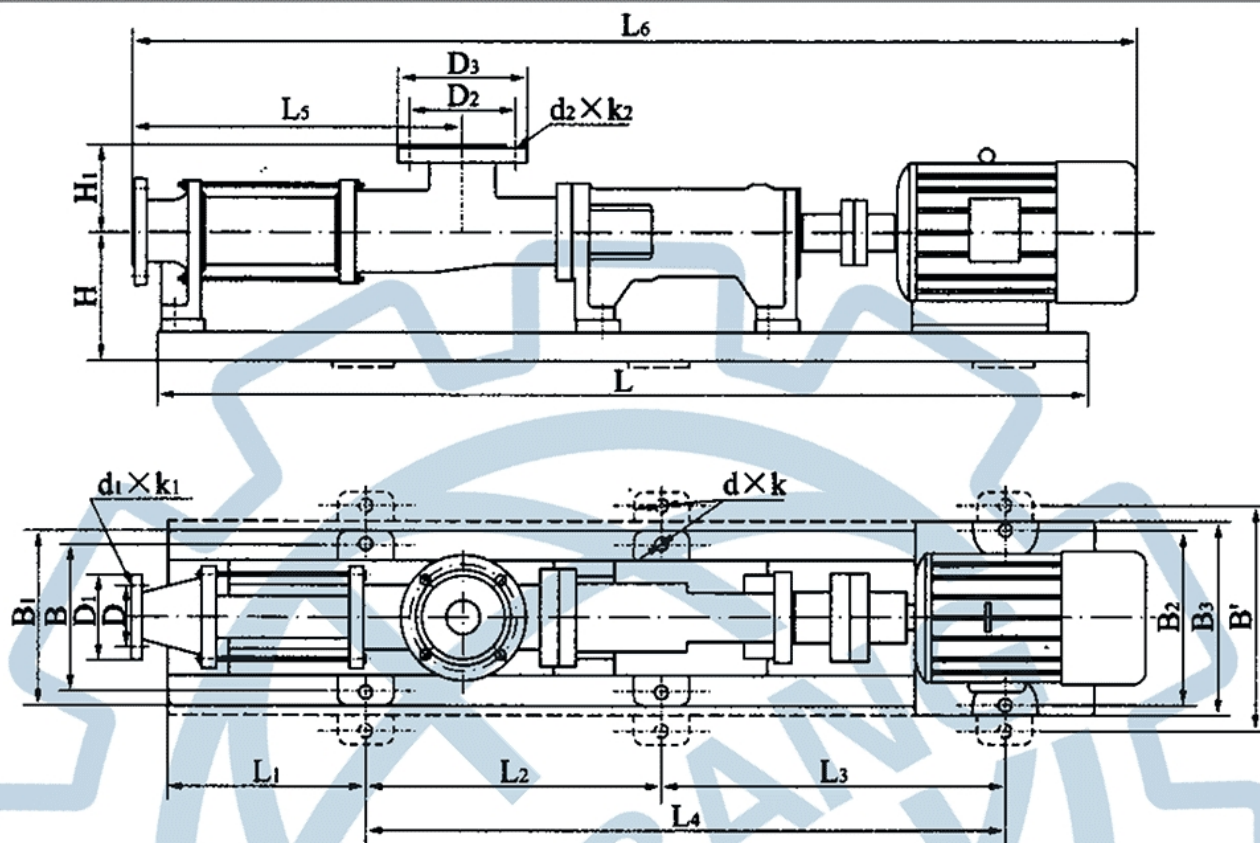


齿轮配合普通电机驱动
Gear with ordinary motor drive



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

外形安装尺寸Overall and installation Dimensions



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	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	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	2200	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	210	180	215	6×16	8×18	8×18
G50-2	1800	140	760	760		790	1960	225	150	250	280	300	330		160	210	180	215	6×16	8×18	8×18
G60-1	1720	175	680	690		570	1810	225	160	260	300	300	330		180	240	210	245	6×16	8×18	8×18
G60-2	2040	200	800	800		820	2140	225	160				350	400	180	225	210	245	6×16	8×18	8×18
G70-1	1950	175	800	800		680	2120	245	150				350	400	210	280	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
G135-1																					