

1200-1600ZLB(Q),HLB(Q)

1200-1600 ZLB(Q), HLB(Q) type vertical semi(full) adjustable axial/mixed flow pump



- Advanced technology, perfect hydraulic performance and high efficiency
- Wide performance coverage and complete models and configurations
- Traditional structure without transmission shaft
- Common motors, cheaper and easy maintenance





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1, Models explanation

1. 1600ZLB-70 1600ZLQ-70N

1600--vertical discharge diameter (mm)

ZLB--vertical partly-adjustable axial flow pump

ZLQ--vertical axial flow pump without transmission shaft (top discharge)

70--1/10 of the pump specific speed ,which means that the pump specific is 700

N--Means new hydraulic models

C--Means that the pump impeller diameter is larger than the standard. A and B means the smaller impeller. (The mixed flow pump is the same.)

2.1600HLB-50 1600HLQ-50N

1600--vertical discharge diameter (mm)

HLB--vertical partly-adjustable mixed flow pump

HLQ--vertical mixed flow pump without transmission shaft (top discharge)

50--1/10 of the pump specific speed ,which means that the pump specific is 500

3. When placing an order ,must make sure the pump blade angles , device installation form, installation height L,L1, the motor power, voltage, speed and so on. Then write remarks.

2, Main application

- Industrial and mining drain, municipal engineering, sewage treatment plant
- Iron industry, metallurgy, power plant, shipbuilding, water plant circulation, water supply and so on
- Hydraulic engineering, river harnessing.
- Irrigation, aquaculture, saltworks

3, Work conditions

1. Single pump capacity: 2.5m³/s--12m³/s_o

2. Head: 2m--30m

3. Pump discharge diameter: 1200mm---1600mm



4, Medium: clean water, river water, waste water, ruin, sewage and other liquid like water in chemical and physical performance.

5, Motor:

Voltage: 380V,660V,6000V,10000V, 50HZ

Protection class: IP23, IP44

Insulation class: B,F

Work environmental temperature: 55 Turn down the motor power level when the temperature is

higher than 40

6, Impeller rotation direction: The impeller rotation direction is clockwise in view from motor to pump.

- 7. Other notes:
 - 1) Suction form:

The suction trumpet is suitable for eruciform, rectangle, polygon, circle, semicle inlet pool.

2) Discharge form:

ZLB(Q), HLB(Q) discharge form is 60°elbow discharge with flange joint

4, Product feature

◆ This series of pumps performance coverage is wide. The models and specification is complete.

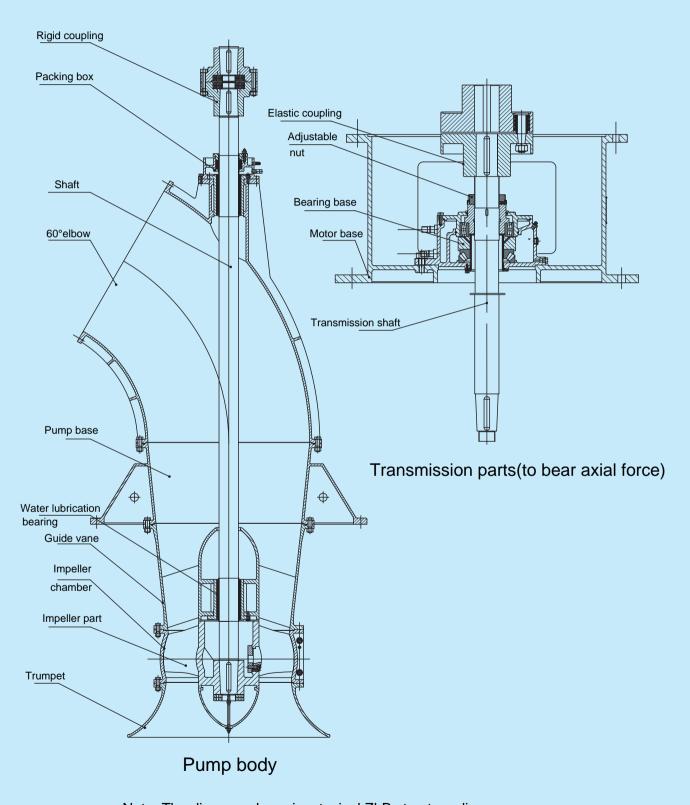
The series of pumps are suitable for various work conditions.

- ◆ The pump has good hydraulic performance and high efficiency.
- ◆ The pump is equipped with common motor which is cheaper. And the maintenance is more convenient and safer to prevent water.



5, Structure diagram

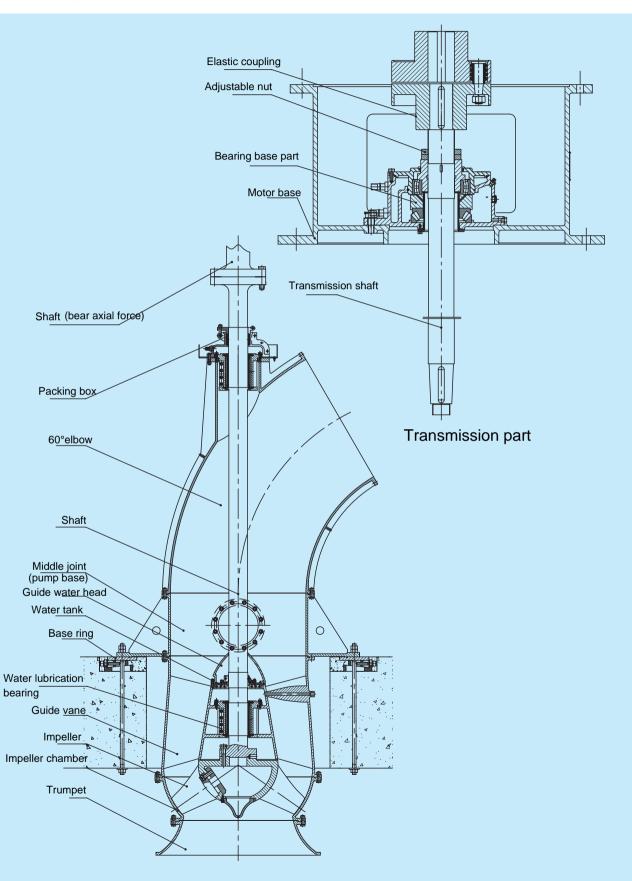
Diagram 1



Note: The diagram above is a typical ZLB structure diagram.



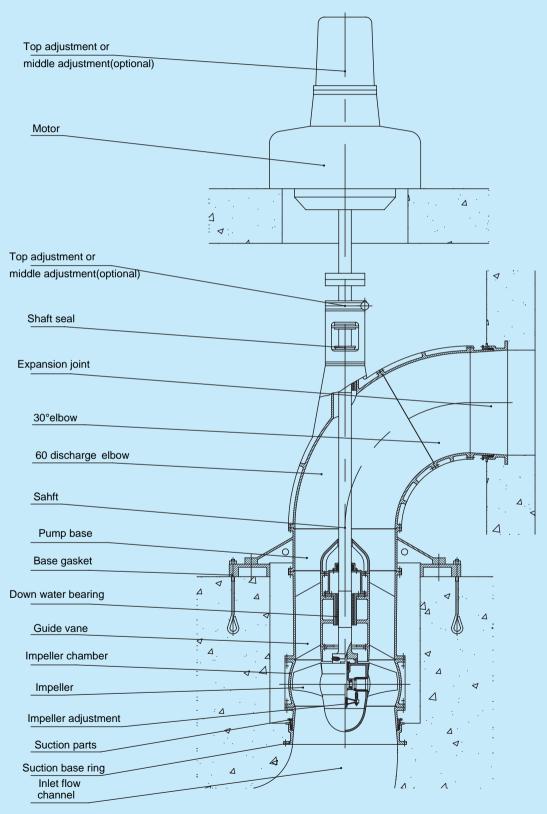
Diagram 1





Structure diagram 2(motor bears axial force)

ZLQ type structure diagram(pump discharge diameter >=1200mm) If there is no adjustment, it is partadjustable ZLB pump.



Note: It is ZLB(Q) typical structure diagram above.



6, Structure introduction

1, All-adjustable pump

For all-adjustable pump, pump blades can be adjusted without disassembling any parts: The mechanical adjustment is set between motor and pump or on the motor top. It can adjust the pump blades completely in cooperation with the impeller and pump shaft inner parts. The adjustable blade range: -20°----+4°ÿ Before starting the pump, adjust the blade angles between -18°---20°

- . The start torque is small and smooth. Can adjust the blade angles to be suitable for the work conditions after start.
- a) Top-placement type adjustment: The adjustment is set top of the special motor whose shaft is must hollow. The axial force is born by the motor floor.
- b) Middle-placement type adjustment: The adjustment is set between the pump and the motor whose shaft needn't be hollow.

We can also design and manufacture the pump controlled by hydraulic pressure according to customer's requests.

2, Other structure instroductions

- 1)In pump station, the pump body is under the pump floor and the motor and transmission parts are set on the motor floor. The motor and the pump are connected by specific transmission shaft.
- 2)The weight of the motor, transmission parts and pump rotor and the axial force is bore by the motor floor. The pump floor just bears the pump casing weight and the other force when the pump runs.
- 3)There are two types of pump installation forms, open (wet)type and closed(dry) type. The pump is hung into the hole through the motor hole, which is more convenient for check and maintenance.
- 4)The transmission shaft can be adjustable according to the different motor floor height. If the transmission shaft is too long, must equip the pump with middle support parts and the pump station must have corresponding support base.
- 5)There is transmission shaft adjustable nut for transmission parts. And it can adjust the pump impeller position and remove the installation height error.
- 6) The impeller is adjustable. Can adjust the blades angle after disassemble the impeller parts.
- 7) The stainless steel sleeve is set between the pump shaft and the water guide bearing which has good anti-rust performance.



- 8) Shaft seal: It is packing seal. The leakage water is collected and discharged by the drain pipe.
- 9)Water bearing lubrication: There is a shaft sleeve set outside of the pump shaft to protect the water bearing for the sewage with some particles. And there is a seal closed to the two shaft sleeve ends. The water pressure is 0.2MPa higher than the pump head. And the water enters from the top elbow water lubrication joint pipe and flows into the pump medium after lubricating and chilling the water bearing.
- 3, Specific bolt seal gasket: When it is closed (dry) type installation, the specific bolts seal gasket is set between the bolt and elbow flange contact surface. The specific bolt seal gasket is to prevent the pool water to leak to the pump floor through the bolt.

4, Base ring and gasket:

When it is trumpet suction type and closed (dry) pump floor installation, the base ring is needed. The base ring and pump floor base are buried in advance according to the requests. The seal gasket is set between the pump and the joint face to prevent the pool water leak into the pump floor. When it is flow channel suction type, the pump is connected with the base gasket and it is actually a dry type device. So must take the leakage problem into account when connecting the base ring with the suction entrance.

5, Others: the straight pipe, 30° elbow, expansion joint parts and others parts behind the pump outlet elbow are optional.

7, Main components material

1, Common supply: trumpet, guide vane, elbow, impeller base, motor base: HT200/Q235

Pump shaft, transmission shaft: 45# steel

blades: ZG270~500

water guide bearing: HT200+natural rubber shaft seal: oil-impregnated graphite packing

2, optional supply: Blades: bronze, SS, QT

Impeller base: bronce, SS, QT Pump shaft: 2Cr23, 40Cr

Water bearing: HT200+polyurethane rubber/Thordon

If the customer needs other material, it can be discussed.



8, Scope of supply

- 1, Main pump, transmission parts, motor(optional), specific tools
- 2, Make sure the closed installation: base ring
- 3, Make sure other customer supply requests

9, Order notes

- 1, It should be explicit: product models and names, performance(Q, H orblade angle, speed, NPSHr), motor, pump installation form, motor floor installation form, L(L1) length, medium.
- 2, Discussed attcahed components:anchor bolts, clap door, 30°elbow, straight pipe, diffuser, expansion joint, joint bolt and other request except from common supply material request.

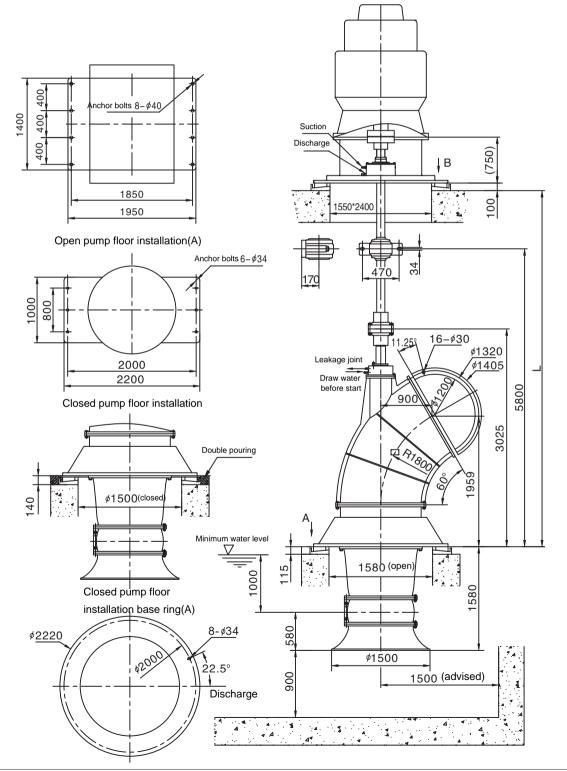
10, Performacne curve, outside installation diagram is behind

- 1, As different types of motor power levels are inconsistent in the actual matching motor power, due to motor series reasons, may cause a slight difference with the motor performance parameters of the motor matching table, and performance parameters of the table matching motor power is in accordance with The highest lift point configuration, if the actual maximum lift is lower, supporting power can be adjusted as appropriate
- 2, In the outside drawing ,more than 450 KW large motor motor base installation dimensions may be adjusted and some motors need to be designed again. So the outside installation diagram and dimensions are not supplied in this book. Contact with tech sector for the scheme.
- 3, ZLQ, HLQ performance curve is similar with the ZLB, HLB performance curve with the same configuration. (Note: performance curve and outside installation diagram are shown behind)
- 4, Select the suitable motor power acording to the maximum head and running angles.



1200ZLB(Q) outside installation diagram.

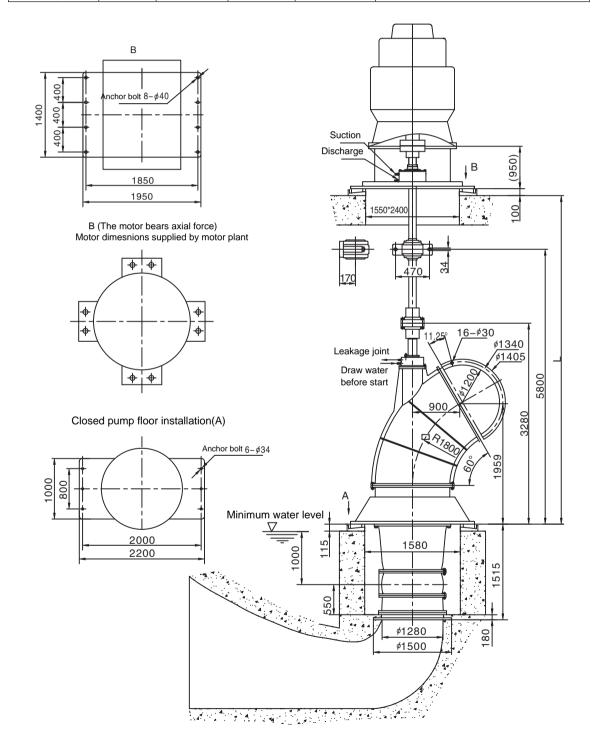
Model	Pump weight	Rotation part	Transmission part	Maximum axial force	e Introduction
1200ZLB(Q)-50	5200	1150	3000		1, L is generally 4000~9000 and middle
1200ZLB(Q)-60	5200	1150	3000	10000	bearing is needed if L is longer than 6000.
1200ZLB(Q)-70	5200	1150	3000	8750	2, Motor floor load = motor weight+
1200ZLB(Q)-70N	5200	1150	3000	8500	rotation part weight+ transmission
1200ZLB(Q)-85	5200	1150	3000	7900	part weight+ maximum axial force
1200ZLB(Q)-100	5200	1150	3000	6700	3, There are two types of pump.
1200ZLB(Q)-125	5200	1150	3000	5800	One has transmission parts and another has no.



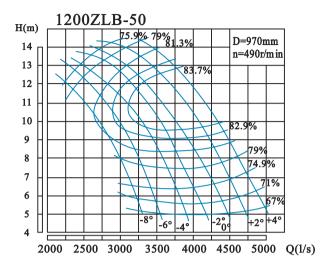


1200ZLB(Q) outside installation diagram 2

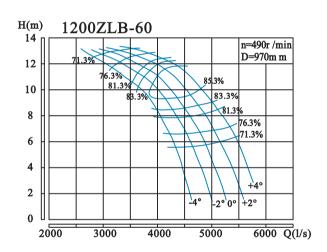
Model	Pump weight	Rotation part	Transmission part	Maximum axial forc	
1200ZLB(Q)-50	5200	1150	3000	11400	1, L is generally 4000~9000 and middle
1200ZLB(Q)-60	5200	1150	3000	10000	bearing is needed if L is longer than 6000.
1200ZLB(Q)-70	5200	1150	3000	8750	2, Motor floor load = motor weight+
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1200ZLB(Q)-125	5200	1150	3000	5800	One has transmission parts and another has no.



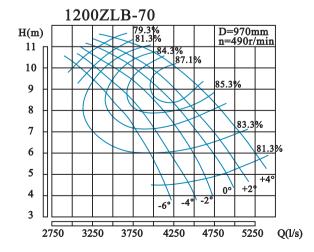




1200	ZLB	-50	性能多	数表]	PERFOR	MANCE I	DATA	
叶片	流 Capa	量 Q acity	扬程 H Head	转速 n Speed	功 Power	率 (kW)	效率 η Effici-	叶轮直径
安放角 Angle	(m³/h)	(l/s)	(m)	(r/min)	轴功率 Shaft	配用功率	ency (%)	Impeller
Augic	(111 /11)	(1)37	(1117	(1/IIIII)	Power	Power	(70)	(mm)
	12573	3492	5.57		268.7		71.0	
-6	10610	2947	10.18		353.5	400	83.2	
	8400	2333	12.83		386.4		75.9	
	13653	3792	5.47		286.3		71.0	
-4	11534	3204	10.50		390.5		84.4	
	8667	2408	13.43		417.4	450	75.9	
	14739	4094	5.47		309.1	430	71.0	
-2	11881	3300	10.81		414.2		84.4	
	9095	2526	13.80	490	450.3		75.9	970
	15917	4421	5.73	770	349.7		71.0	'''
0	13200	3667	10.86		461.3	500	84.6	
	10540	2928	13.61		494.2		79.0	
	16878	4688	5.86		379.2		71.0	
+2	13896	3860	11.13	1	499.0	560	84.4	
	11342	3151	14.06		549.7		79.0	
	17522	4867	6.36		426.9		71.0	
+4	14608	4058	11.45	1	539.4	630	84.4	
	11877	3299	14.33		586.3		79.0	

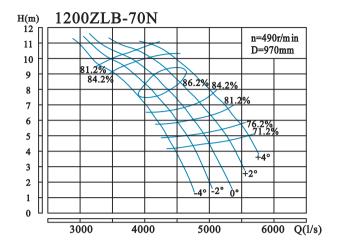


1200	ZLB	-60	性能参	数表 1	PERFOR	MANCE I	DATA	
	流	量 Q	扬程 H	转速 n	功率		效率η	叶轮
叶片	Capa	ecity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(l/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	14674	4076	7.80		390.5		79.8	
-4	13532	3759	9.86		437.1	500	83.1	
	12611	3503	10.63		460.9		79.2	
	15864	4407	7.61		414.7		79.2	
-2	14458	4016	9.98		465.0	560	84.5	
	12600	3500	11.59		510.2		77.9	
	16739	4650	7.63		439.5		79.1	
0	14921	4145	10.49	490	503.1	560	84.7	970
	13890	3858	11.51		532.3		81.8	
	17532	4870	8.22		500.5		78.3]
+2	15487	4302	11.09		550.3	630	85.0	
	13738	3816	12.31		587.0		78.5	
	18728	5202	7.99		518.1		78.6]
+4	16519	4588	11.14		590.6	710	84.8	
	14474	4021	12.55		632.2		78.2	

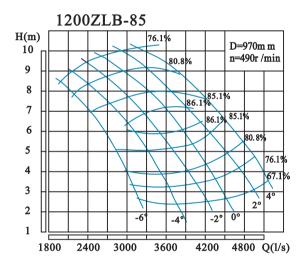


1200	ZLB	-70	性能参	数表 P	ERFORM	IANCE D	ATA	
	流	量 Q	扬程 H	转速n	功率		效率η	叶轮
叶片	Capacity		Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m^3/h)	(l/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	14804	4112	4.48		222.2		81.3	
-6	13159	3655	7.88		331.2	400	85.3	
	10898	3027	10.15		380.0		79.3	
	15832	4398	4.60		243.9		81.3	
-4	13488	3747	8.36		355.9		86.3	
	11309	3141	10.60		412.0	450	79.3	
	16655	4626	4.78	Î	266.6	450	81.3	1
-2	14187	3941	8.72	İ	390.4		86.3	1
	11555	3210	10.74	400	426.7		79.3	0.50
	17477	4855	5.13	490	300.7		81.3	970
0	14763	4101	9.10		419.2		87.3	1
	11843	3290	11.10		451.9		79.3	1
	18094	5026	5.37	İ	325.8	500	81.3	1
+2	15133	4204	9.19	İ	431.8		87.8	1
	11967	3324	11.22	İ	461.5		79.3	1
	18999	5277	5.85	1	372.5		81.3	1
+4	15709	4364	9.79	İ	480.0	560	87.3	1
'	12707	3530	11.46	İ	500.5	- , ,	79.3	1

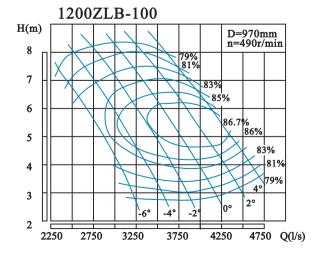




1200	ZLB	-70 1	性 性能	参数表	PERFO	DRMANCE	DATA	
叶片			扬程H	转速 n	功 Power	率 (kW)	效率巾	叶轮
安放角 Angle	(m³/h)	(l/s)	Head (m)	Speed (r/min)	轴功率 Shaft Power	配用功率 Motor Power	Effici- ency (%)	直径 Impeller diameter (mm)
	15195	4221	5.87		297.1	1000	81.7	(IIIII)
-4	13863	3851	7.82	ĺ	342.4	400	86.2	1
	11579	3216	9.79		389.7		79.2	
	16397	4555	5.62	1	314.3		79.8	1
-2	14734	4093	8.04		373.3	450	86.4	1
	12306	3418	10.11		421.7		80.3	
	17302	4806	5.78		342.1		79.5	
0	15113	4198	8.67	490	410.9	500	86.8	970
	12981	3606	10.36		457.0		80.1	
	18318	5088	6.00		374.9		79.7	
+2	15893	4415	8.99		450.2	560	86.4	
	13829	3841	10.61		496.6		80.4	
	19374	5382	6.24		417.6		78.8]
+4	16978	4716	9.17		493.7	560	85.8	
1	15254	4237	10.69	l	535.3		82.9	

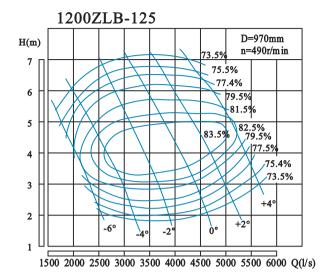


1200ZLB-85 性能参数表 PERFORMANCE DATA 流量Q 扬程 H 转速 n 功 率 效率η 叶轮 (kW) Effici-直 径 Capacity Head Speed 安放角 轴功率 配用功率 Impelle ency Angle (m^3/h) (l/s) (m) (r/min) Shaft Motor (%) diamete Power Power (mm) 11141 3095 3.33 76.1 133.0 10186 2829 5.06 165.2 85.1 7193 1998 8.54 219.9 76.1 148.7 216.2 255.6 12908 3586 3.22 76.1 280 11015 3060 6.20 86.1 9.06 7878 2188 76.1 14513 4031 173.2 76.1 12530 3480 6.09 241.4 315 86.1 294.7 203.3 76.1 76.1 8672 2409 9.49 970 4337 15612 3.64 271.5 13737 3816 6.32 355 87.1 9537 2649 336.4 76.1 16694 4637 4.18 250.0 76.1 313.5 377.7 +2400 14675 4076 6.75 86.1 10402 2890 10.14 76.1 298.4 76.1 14999 4166 366.6 450 85.1 11358 3155 10.13 412.0 76.1



1200	ZLB	-100	性創	参数表	PERF	DRMANCE	DATA	
	流	量 Q	扬程 H	转速 n	功	率	效率η	叶 轮
叶片	Capa	eity	Head	Speed	Power	(kW)	Effici-	直 径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(l/s)	(m)	(r/min)	Shaft	Motor	(%)	diamete
					Power	Power		(mm)
	11391	3164	3.28		125.8	81.0		
-6	10281	2856	4.81		158.6	220	85.0	
	8841	2456	6.92		206.0		81.0	
	12748	3541	3.10		133.1		81.0	
-4	11514	3198	4.89		178.4	250	86.1	
	9540	2650	7.52		241.4		81.0	
	13858	3850	3.04		141.9		81.0	
-2	12542	3484	5.01		197.7	280	86.7	1
	10281	2856	7.76	400	268.4		81.0	0.70
	14845	4124	3.13	490	156.2		81.0	970
0	13571	3770	5.03		213.8	315	87.0	1
	11103	3084	7.94		296.6		81.0	1
	15832	4398	3.46		184.4		81.0	1
+2	14393	3998	5.29		237.1		87.5	1
	12008	3336	7.98		322.2	255	81.0	1
	16696	4638	3.82		214.6	355	81.0	1
+4	15421	4284	5.31		256.0		87.2	1
-	13365	3712	7.58		340.9	İ	81.0	1



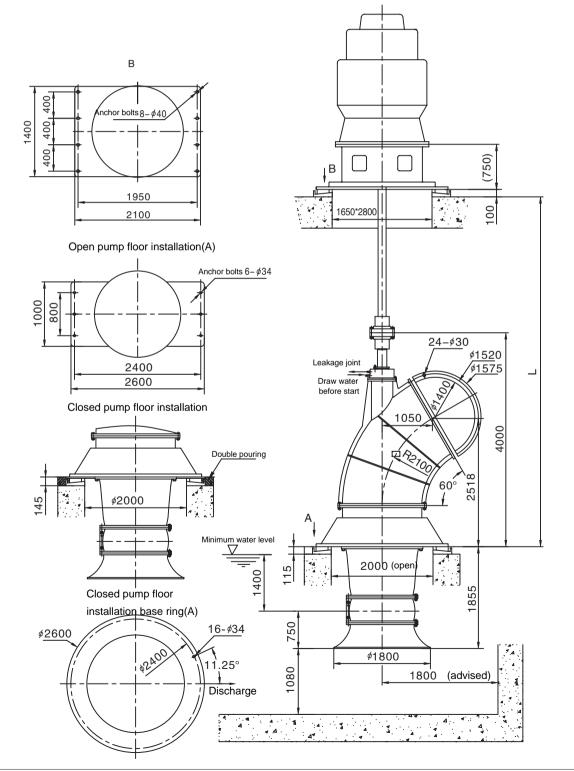


1200	1200ZLB-125		性能	性能参数表		PERFORMANCE		
	流	量 Q	扬程 H	转速 n	功	率	效率η	叶轮
叶片	Capa	eity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(1/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	11309	3141	1.97		80.3		75.5	
-4	10198	2833	3.62		119.6	185	84.0	
	7484	2079	5.97		161.1		75.5	
	14064	3907	1.91		96.9		75.5	
-2	12625	3507	3.75		152.6	250	84.4	
	9458	2627	6.69		228.0		75.5	
	16449	4569	2.27		134.5		75.5	
0	14886	4135	4.08	490	194.7	315	85.0	970
	11309	3141	6.92		282.3		75.5	
	18300	5083	2.57		169.4		75.5	
+2	16531	4592	4.27		227.9	355	84.4	
	13159	3655	6.92		328.5		75.5	
	19945	5540	3.34		240.4		75.5	
+4	18752	5209	5.01		307.6	400	83.2	
	15956	4432	6.75		388.1		75.5	



1400 ZLB(Q) outside installation diagram 1

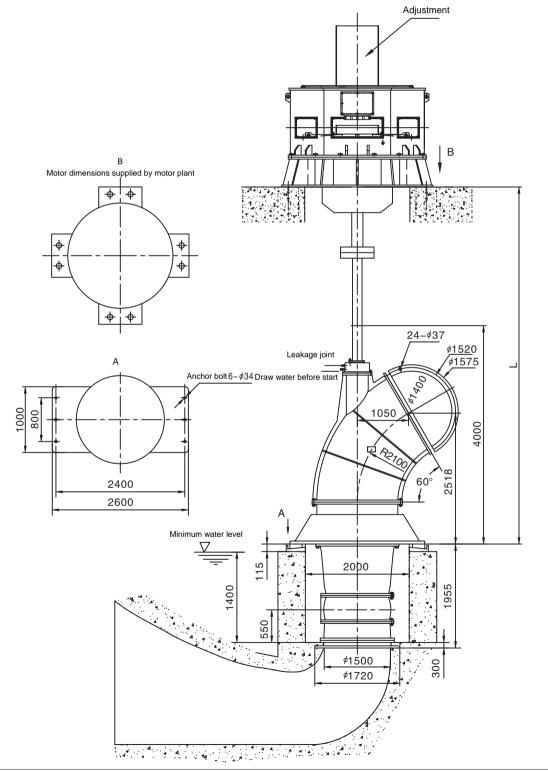
Model	Pump weight	Rotation part	Maximum axial force	Introduction
1400ZLB(Q)-50	7000	3000	15300	1, There are two types of pump.
1400ZLB(Q)-60	7000	3000	14000	One has transmission parts and another has no.
1400ZLB(Q)-70	7000	3000	12000	2, Biggest pump part weight 4200kg
1400ZLB(Q)-70N	7000	3000	11800	3, Longest pump part length 4700mm.
1400ZLB(Q)-85	7000	3000	10500	
1400ZLB(Q)-100	7000	3000	8900	
1400ZLB(Q)-125	7000	3000	7800	



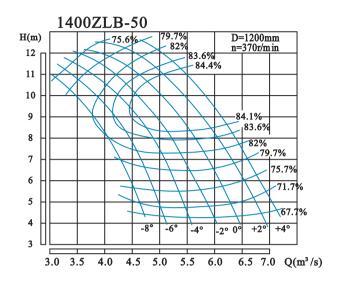


1400ZLB(Q)轴流泵外形安装图(二)

Model	Pump weight	Rotation part	Maximum axial force	Introduction
1400ZLB(Q)-50	7000	3000	15300	1, There are two types of pump.
1400ZLB(Q)-60	7000	3000	14000	One has transmission parts and another has no.
1400ZLB(Q)-70	7000	3000	12000	2, Biggest pump part weight 4200kg
1400ZLB(Q)-70N	7000	3000	11800	3, Longest pump part length 4700mm.
1400ZLB(Q)-85	7000	3000	10500	
1400ZLB(Q)-100	7000	3000	8900	
1400ZLB(Q)-125	7000	3000	7800	







1400ZLB-50 性能参数表 PERFORMANCE DATA 流量口 扬程 H 转速 n 功 效率η 叶轮 Power (kW) 叶片 Effici-直 径 Capacity Head Speed 安放角 轴功率 配用功率 Impeller Angle (m^3/h) (1/s) (m) (r/min) Shaft Motor (%) diamete Power Power (mm) 17975 4993 4.86 331.9 71.7 15169 4214 8.89 442.7 12009 3336 11.19 484.0 75.6 19519 5422 4.77 358.7 70.7 16489 488.9 84.1 4580 9.16 12391 522.8 3442 11.72 75.6 387.3 21073 5853 4.77 70.7 16986 4718 9.43 518.6 84.1 13003 3612 12.05 564.0 75.6 1200 22755 6321 5.00 438.1 70.7 18872 5242 9.48 571.1 85.3 15068 4186 619.0 78.7 5.11 19866 624.8 5518 9.72 84.1 12.27 78.7 16216 4504 688.4

534.9

675.3

734.2

800

70.7

84.1

78.7

25050

20885

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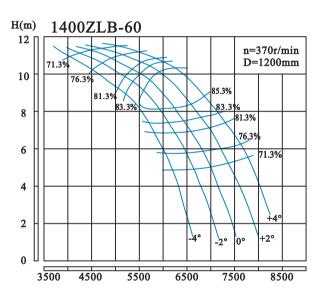
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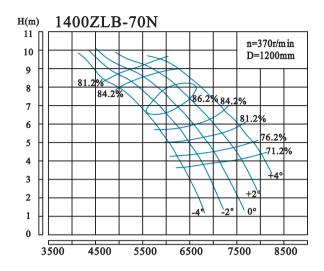


1400	ZLB	-60	性能参	数表 1	PERFOR	MANCE I	DATA	
叶片	流 Capa	量 Q neity	扬程 H Head	转速 n Speed	功 Power	•	效率 η Effici-	叶轮直径
安放角 Angle	(m ³ /h)	(1/s)	(m)	(r/min)	轴功率 Shaft Power	配用功率 Motor Power	ency (%)	Impeller diameter (mm)
	20979	5827	6.80		479.4		81.1	
-4	19346	5374	8.60		537.0	630	84.4	
	18030	5008	9.28		565.7		80.5	
	22681	6300	6.64		509.0		80.5	
-2	20670	5742	8.71		571.4	710	85.8	
	18013	5004	10.11		626.0		79.2	
	23932	6648	6.66		539.4		80.4	
0	21332	5926	9.16	370	618.1	710	86.0	1200
	19859	5516	10.04		653.6		83.1	
	25065	6962	7.17		614.3		79.6	
+2	22142	6150	9.68		676.1	800	86.3	
	19641	5456	10.75		720.4		79.8	
	26775	7437	6.97		635.9		79.9	
+4	23616	6560	9.72		725.7	800	86.1	
	20693	5748	10.95		775.8		79.5	

	140	0ZL	B-70	0				
H(m)		\rangle	79.9% 81	.9%			D=12 n=370	00mm Or/min
9	$\langle \times \rangle$	\gg	\otimes	85.9%				
		\bigcirc		X	87.5%	6		
8			1		X	86.9	9%	
7	\vdash		1	1	\		92	00/
6			7	+			83.	.9%
5				\rightarrow	\rightarrow			81.9%
4							$\langle \cdot \rangle$	+4°
3				$\overline{}$			0° +2°	
- II				-6°	-4°	-2°		
2 ⊔								
4.	.0 4.5	5 5.0	0 5.	5 6.	0 6.	5 7.	0 7.5	$Q(m^3/s)$

1400	ZLB	-70	性能参	数表 P	ERFORM	MANCE D	OATA	
	流	量 Q	扬程 H	转速 n	功率		效率η	叶轮
叶片	Capacity		Head	Speed	Power	(kW)	Effici-	直径
安放角				_	轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(l/s)	(m)	(r/min)	min) Shaft Moto	Motor	(%)	diameter
				Power Power			(mm)	
	21165	5879	3.91		275.1		81.9	
-6	18813	5226	6.88		410.4	500	85.9	
	15580	4328	8.86		470.5		79.9	
	22635	6287	4.01		302.1		81.9	
-4	19284	5357	7.29		441.0		86.9	
	16168	4491	9.25		510.1	560	79.9	
	23811	6614	4.17		330.1	500	81.9	
-2	20283	5634	7.61		483.7		86.9	
	16520	4589	9.38	370	528.3		79.9	1200
	24986	6941	4.48	3/0	372.4		81.9	1200
0	21106	5863	7.94		519.6		87.9	
	16932	4703	9.69		559.5		79.9	
	25868	7186	4.69		403.5		81.9	
+2	21635	6010	8.02		535.0	630	88.4	
	17108	4752	9.79		571.4		79.9	
	27162	7545	5.10		461.3		81.9	
+4	22458	6238	8.54		594.8		87.9]
	18167	5046	10.00		619.7		79.9	





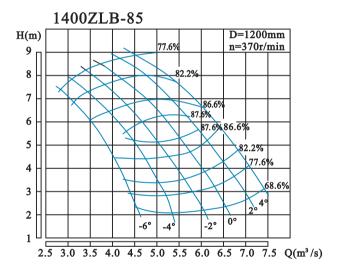
1400ZLB-70N 性能参数表 PERFORMANCE DATA 流量口 扬程 H 转速n 效率n 叶 轮 叶片 Power (kW) 直 径 Capacity Head Speed Effici-安放角 轴功率 配用功率 Impeller Angle (m^3/h) (1/s) (m) (r/min) Shaft Motor (%) diamete Power (mm) Power 21724 6034 5.12 81.7 19820 427.2 86.2 16553 4598 8.54 486.1 79.2 23443 392.1 79.8 6512 4.90 7.02 465.7 560 21065 5851 86.4 17593 4887 8.82 526.1 80.3 24735 6871 5.04 426.8 79.5 21606 6002 7.57 512.7 86.8 1200 18558 5155 9.04 570.1 80.1 26188 467.8 79.7 7275 5.23 22722 6312 7.84 561.7 630 86.4 19770 619.5 5492 80.4 9.26 27699 7694 5.45 521.0 78.8 24273 6742 8.00 616.0 85.8

667.9

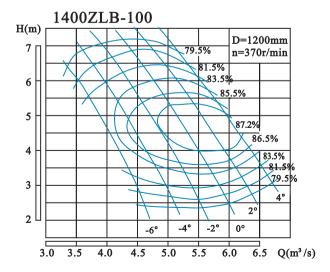
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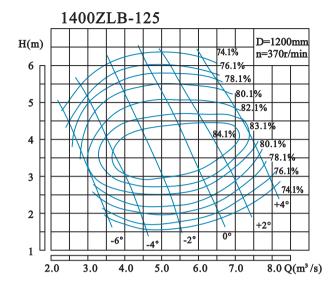


1400	1400ZLB-85			数表 P	ERFOR	MANCE I	DATA	
叶片	流 Capa	∄ Q neity	扬程 H Head	转速 n Speed	功 Power		效率η Effici-	叶 轮直 径
安放角 Angle	(m ³ /h)	(1/s)	(m)	抽功率 配用功率 Cr/min Shaft Motor		配用功率 Motor Power	ency (%)	Impeller diameter (mm)
	15928	4425	2.91		162.7		77.6	
-6	14562	4045	4.42		202.5	315	86.6	
	10284	2857	7.45		269.1		77.6	
	18454	5126	2.81		182.0		77.6	
-4	15748	4374	5.41		265.2	355	87.6	
	11263	3129	7.91		312.7		77.6	
	20748	5763	2.91		212.0		77.6	
-2	17913	4976	5.31		296.0	400	87.6	
	12397	3444	8.28	370	360.5		77.6	1200
	22320	6200	3.07	3/0	240.7		77.6	1200
0	19640	5456	5.51		333.0	450	88.6	
	13635	3787	8.60		411.6		77.6	
	23867	6630	3.65		305.8		77.6	
+2	20980	5828	5.89		384.4	500	87.6	1
	14872	4131	8.85		462.1		77.6	1
	25388	7052	4.10		365.1		77.6	1
+4	21444	5957	6.66		449.4	560	86.6	1
	16238	4510	8.84		504.0		77.6	



1400	ZLB	-100	性能	参数表	PERFO	RMANCE	DATA	
	流	量 Q	扬程 H	转速 n	功率		效率η	叶轮
叶片	Capa	ecity	Head	Speed	Power	(kW)	Effici-	直径
安放角) (1/s)			轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)		(m)	(r/min)	Shaft	Motor	(%)	diameter
_					Power	Power		(mm)
	16285	4524	2.86		155.8		81.5	
-6	14698	4083	4.20		196.5	280	85.5	
	12640	3511	6.04		255.1		81.5	
	18225	5063	2.71		164.9		81.5	
-4	16462	4573	4.27		221.0	315	86.6	
	13640	3789	6.56		299.0		81.5	
	19813	5504	2.66		175.8		81.5	1200
-2	17931	4981	4.38		244.9	355	87.2	
	14698	4083	6.77	370	332.4		81.5	
	21224	5896	2.73	3/0	193.5		81.5	1200
0	19401	5389	4.39		264.8		87.5	
	15874	4409	6.93		367.3	400	81.5	
	22635	6287	3.02		228.4	400	81.5	
+2	20577	5716	4.62		293.8		88.0	
	17167	4769	6.96		399.1		81.5	
	23869	6630	3.33	1 1	265.8	450	81.5	
+4	22047	6124	4.64		317.3		87.7	
	19107	5308	6.62		422.2		81.5	



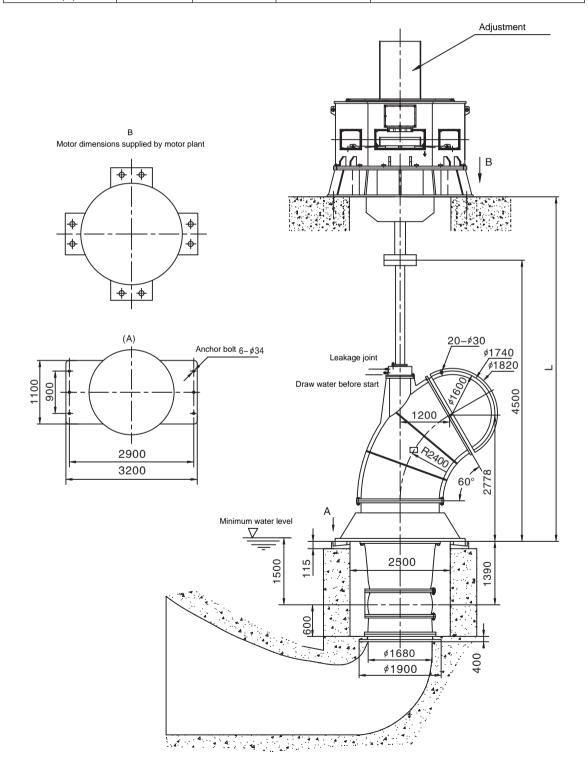


1400	ZLB	-125	性能	6参数表	PERFO	ORMANCE	DATA	
nl. II.		∄ Q	扬程H	转速n	功	率 (133)	效率η	叶轮
叶片	Capa	etty	Head	Speed	Power		Effici- ency	直径
安放角	. 3	(1/)			轴功率			Impeller
Angle	(m ³ /h)	(1/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	16168	4491	1.61		93.4		76.1	
-4	14580	4050	3.16		148.1	200	84.6	
	10700	2972	5.21		199.4		76.1	
	20107	5585	1.67		119.9		76.1	
-2	18049	5014	3.27		189.1	280	85.0	
	13522	3756	5.83		282.2		76.1	
	23517	6532	1.98		166.5		76.1	
0	21283	5912	3.56	370	241.1	355	85.6	1200
	16168	4491	6.04		349.5		76.1	
	26162	7267	2.24		209.6		76.1	
+2	23634	6565	3.73		282.3	400	85.0	
	18813	5226	6.04	[406.6		76.1	
	28514	7921	2.92	[297.5		76.1	
+4	26809	7447	4.38	[381.1	500	83.8	
	22635	6287	5.83		472.4		76.1	



1600ZLB(Q) outside installation diagram 1

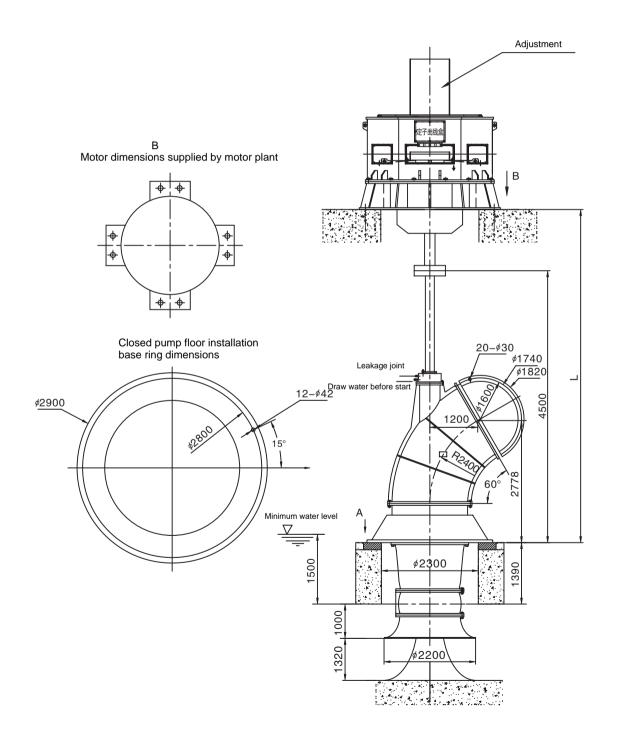
Model	Pump weight	Rotation part	Maximum axial force	Introduction
1600ZLB(Q)-50	16000	5000	21400	1,Motro dimensions is for reference only
1600ZLB(Q)-60	16000	5000	19000	2, Biggest pump part weight 6000kg
1600ZLB(Q)-70	16000	5000	16700	3, Longest pump part length 5000mm.
1600ZLB(Q)-70N	16000	5000	16000	g, zongost pamp part iongar occommi
1600ZLB(Q)-85	16000	5000	10900	
1600ZLB(Q)-100	16000	5000	9400	
1600ZLB(Q)-125	16000	5000	9200	



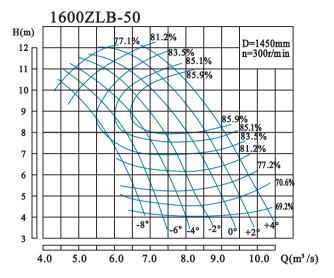


1600ZLB(Q) outside installation diagram 2

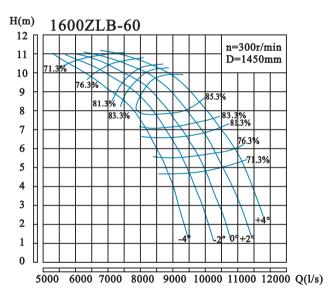
Model	Pump weight	Rotation part	Maximum axial force	Introduction
1600ZLB(Q)-50	16000	5000	21400	1,Motro dimensions is for reference only
1600ZLB(Q)-60	16000	5000	19000	2, Biggest pump part weight 6000kg
1600ZLB(Q)-70	16000	5000	16700	3, Longest pump part length 5000mm.
1600ZLB(Q)-70N	16000	5000	16000	g, zongost pamp part longar occommi
1600ZLB(Q)-85	16000	5000	10900	
1600ZLB(Q)-100	16000	5000	9400	
1600ZLB(Q)-125	16000	5000	9200	







1600	1600ZLB-50		性能	参数表	PERFO	RMANCE	DATA	
叶片	流 Capa	量 Q acity	扬程 H Head	转速 n Speed	功 Power	率 (kW)	效率η Effici-	叶轮直径
安放角 Angle	(m ³ /h)	(l/s)	(m)	(r/min)	轴功率 配用功率 Shaft Motor Power Power		ency (%)	Impeller diameter (mm)
	25712	7142	4.67		452.6		72.2	(11111)
-6	21699	6028	8.53		597.0		84.4	
	17178	4772	10.74		651.7	710	77.1	
	27921	7756	4.58		482.3	/10	72.2	
-4	23588	6552	8.79		659.5		85.6	
	17725	4924	11.25		703.8		77.1	
	30144	8373	4.58		520.7		72.2	
-2	24298	6749	9.05		699.6	800	85.6	
	18600	5167	11.56	300	759.4		77.1	1450
	32551	9042	4.80	300	589.0		72.2	1430
0	26996	7499	9.10		779.2	900	85.8	
	21555	5987	11.40		834.0		80.2	
	34518	9588	4.91		638.8		72.2	
+2	28418	7894	9.33		842.9		85.6	
	23196	6443	11.78		927.5	1000	80.2	
	35833	9954	5.32		719.2	1000	72.2	
+4	29876	8299	9.59		911.0		85.6	
	24290	6747	12.00		989.3		80.2	

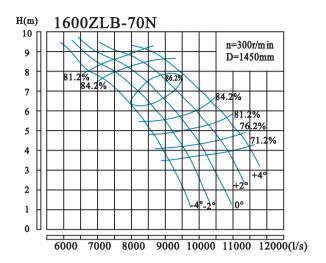


1600	ZLB	-60	性能	参数表	PERFO	RMANCE	DATA	
叶片	流 Capa	量 Q acity	扬程 H Head	转速 n Speed	功 Power	率 (kW)	效率 η Effici-	叶轮直径
安放角 Angle	(m³/h)	(1/s)	(m)	(r/min)	Power Power		ency (%)	Impeller diameter (mm)
	30009	8336	6.53		658.2		81.1	()
-4	27674	7687	8.26		737.3	900	84.4	
	25791	7164	8.91		776.7		80.5	
	32444	9012	6.37		698.9		80.5	
-2	29568	8213	8.36		784.5	1000	85.8	
	25767	7158	9.71		859.6		79.2	
	34234	9509	6.39		740.6		80.4	
0	30515	8476	8.79	300	848.7	1000	86.0	1450
	28407	7891	9.64		897.5		83.1	
	35854	9960	6.88		843.4		79.6	
+2	31673	8798	9.29		928.4	1200	86.3	
	28095	7804	10.31		989.1		79.8	
	38301	10639	6.69		873.1		79.9	
+4	33782	9384	9.33		996.4	1200	86.1	
	29601	8222	10.51		1065.3		79.5	

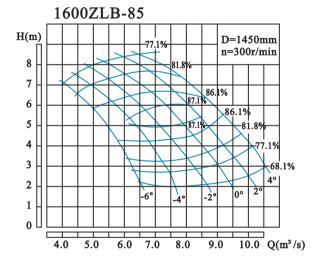
	10	500)Z]	LB	-7	0							
H(m) 10∏			,		80.3	3 % 2.3%					D= n=3	1450 300r/	mm m in
9	<u> </u>	X	\approx	\approx		86	5.3%	3.3%					\blacksquare
8		\nearrow	\swarrow	\nearrow	\otimes	\times	00						Щ
7						0		\bigcirc	87.3	%			
6		(1	/	$\langle \rangle$	$\langle \cdot \rangle$			84.3	%	
1				/	1			\sum	$\langle \cdot \rangle$			82.3	0/
5								1		7	\rightarrow		70
4 H						\rightarrow		~		(+2°	+4°	\vdash
3							\ -6°	-4°	-2°	ò°	-		
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	6.0)	7.	0	8.	0	9.	0	10.	.0	11.	1 0 O	(m³/s)

1600	ZLB	-70	性能多	多数表	PERFOR	RMANCE	DATA	
	流	₫ Q	扬程 H	转速n	功	率	效率η	叶轮
叶片	Capa	eity	Head	Speed	Power	(kW)	Effici-	直 径
安放角		(1/s)	(m)		轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)			(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	30276	8410	3.75		375.9		82.3	
-6	26912	7476	6.60		560.8		86.3	
	22287	6191	8.50		642.9	710	80.3	
	32379	8994	3.85		412.7	/10	82.3	
-4	27585	7662	7.00		602.7		87.3	
	23128	6424	8.88		696.9		80.3	
	34061	9461	4.00		451.1		82.3	
-2	29015	8060	7.30		661.1		87.3	
	23632	6564	9.00	300	721.8	800	80.3	1450
	35743	9928	4.30	300	508.9	000	82.3	1450
0	30192	8387	7.62		709.8		88.3	
	24221	6728	9.30		764.4		80.3	
	37004	10279	4.50		551.4		82.3	
+2	30949	8597	7.70		731.3		88.8	
	24473	6798	9.40		780.7	900	80.3	
	38854	10793	4.90		630.4	900	82.3	
+4	32126	8924	8.20		813.0		88.3	
	25987	7219	9.60		846.6		80.3	

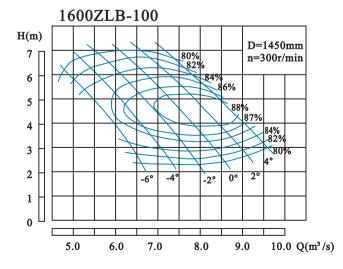




1600	ZLB	3-70N	▼ 性能	参数表	PERFO	DRMANCE	DATA	
	流	₫ Q	扬程 H	转速n	功	率	效率η	叶轮
叶片	Capa	acity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(l/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	31075	8632	4.91		508.9		81.7	
-4	28352	7875	6.55		586.5	710	86.2	
	23679	6578	8.20		667.5		79.2	
	33534	9315	4.70		538.3		79.8	
-2	30133	8370	6.74		639.5	800	86.4	
	25167	6991	8.47		722.4		80.3	
	35383	9829	4.84		586.1		79.5	
0	30907	8585	7.26	300	703.9	900	86.8	1450
	26547	7374	8.67		782.8		80.1	
	37462	10406	5.02		642.3		79.7	
+2	32503	9029	7.53		771.3	900	86.4	
	28281	7856	8.89		850.7		80.4	
	39622	11006	5.23		715.4		78.8	
+4	34722	9645	7.68		845.8	1000	85.8	
	31196	8666	8.96		917.0		82.9	

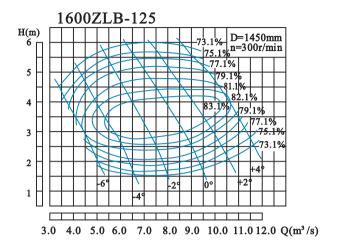


1600	ZLB	-85	性能	趁参数表	PERFO	DRMANCE	DATA	
	流	量 Q	扬程 H	转速n	功	率	效率η	叶轮
叶片	Capa	acity	Head	Speed	Power	(kW)	Effici-	直径
安放角				-	轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(1/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
_					Power	Power		(mm)
	22785	6329	2.79		224.9		77.1	
-6	20831	5786	4.24		279.7	400	86.1	
	14711	4086	7.15		371.8		77.1	
	26398	7333	2.70		251.5		77.1	
-4	22527	6258	5.20		366.2	450	87.1	
	16112	4476	7.59		432.2		77.1	
	29680	8244	2.79		292.9		77.1	
-2	25624	7118	5.10		408.7	560	87.1	
	17734	4926	7.95	200	498.2		77.1	1.450
	31929	8869	3.05	300	343.7		77.1	1450
0	28094	7804	5.29	ĺ	459.8	630	88.1	
	19504	5418	8.25	Ì	568.8		77.1	
	34141	9484	3.50	ĺ	422.7		77.1	
+2	30012	8337	5.65	Ì	530.8		87.1	
	21274	5909	8.49	Ì	638.7	710	77.1	
	36316	10088	3.93		504.5	710	77.1	
+4	30675	8521	6.39		620.6		86.1	
	23228	6452	8.48	1	696.5	1	77.1	1



1600	ZLB	-100	性能	能参数表	PERFO	ORMANCE	DATA	
	流	量 Q	扬程H	转速 n	功	率	效率η	叶 轮
叶片	Capa	ecity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(1/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
_					Power	Power		(mm)
	23296	6471	2.75		212.9		82.0	
-6	21025	5840	4.03		268.5	400	86.0	
	18082	5023	5.80		348.5		82.0	
	26071	7242	2.60		225.3		82.0	
-4	23548	6541	4.10		302.1	450	87.1	
	19511	5420	6.30		408.5	Ī	82.0]
	28342	7873	2.55		240.2		82.0]
-2	25651	7125	4.20		334.7	500	87.7]
	21025	5840	6.50	200	454.2	Ī	82.0	1.450
	30360	8433	2.62	300	264.3		82.0	1450
0	27753	7709	4.21	Î	362.0	560	88.0	1
	22707	6308	6.65	Î	501.8	1	82.0	1
	32379	8994	2.90	Ī	312.0		82.0	1
+2	29435	8176	4.43	Ī	401.5	1	88.5	1
	24557	6821	6.68	Ī	545.1	(20	82.0	1
	34145	9485	3.20	Ī	363.1	630	82.0	1
+4	31538	8760	4.45	Ī	433.6	1	88.2	1
	27333	7592	6.35	1	576.8	1	82.0	1





1600	ZLB	-125	性能	参数表	PERFO	RMANCE	DATA	
	流	量 Q	扬程 H	转速 n	功	率	效率η	叶轮
叶片	Capa	acity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(1/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	23128	6424	1.65		135.6		76.6	
-4	20857	5794	3.03		202.2	280	85.1	
	15306	4252	5.00		272.0		76.6	
	28762	7990	1.60		163.5		76.6	
-2	25819	7172	3.14		258.1	400	85.5	
	19343	5373	5.60		385.0		76.6	
	33640	9344	1.90		227.1		76.6	
0	30444	8457	3.42	300	329.1	500	86.1	1450
	23128	6424	5.80		476.7		76.6	
	37425	10396	2.15		285.9		76.6	
+2	33808	9391	3.58		385.4	560	85.5	
	26912	7476	5.80		554.7		76.6	
	40789	11330	2.80		405.9		76.6	
+4	38350	10653	4.20		520.1	710	84.3	
	32631	9064	5.65	Ī	655.2		76.6]



rotation part weight+ transmission

1200 HLB(Q) outside installation diagram 1

Model	Pump weight	Rotation part	Transmission part	laximum axial force	Introduction
1200HLB(Q)-40	9000	2100	6500	18600	1, L is generally 4000~9000 and middle
1200HLB(Q)-50	9000	2100	6500	13000	bearing is needed if L is longer than 7000.
1200HLB(Q)-60	9000	2100	6500	11800	2, Motor floor load = motor weight+

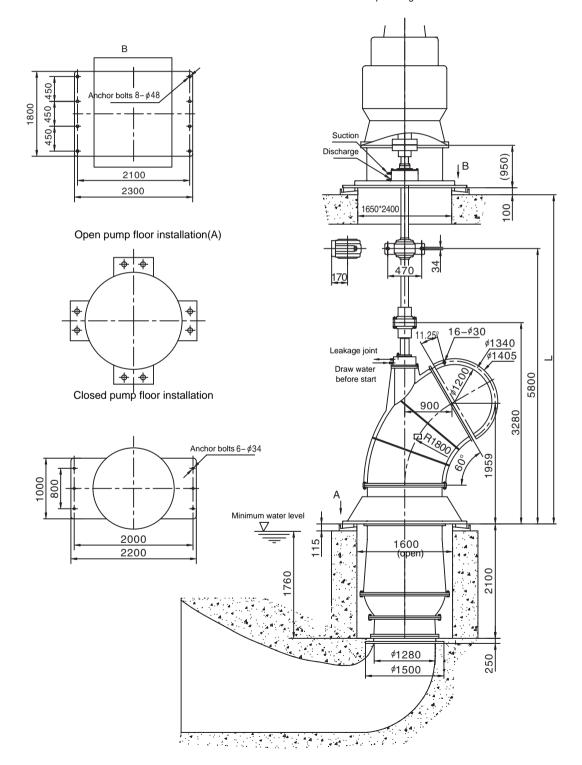
part weight+ maximum axial force В anchor bolts8 $-\phi48$ 1800 Suction Discharge 450 2100 100 2300 1650*2400 Open pump floor installation(A) Anchor bolts 6- Ø34 1<u>6−∮3</u>0 ø1320 Leakage joint 2000 ∌1375 Draw water 2200 before start Closed pump floor installation 900 Double pouring ø1600 Minimum water level 1600 (open) 2100 1760 Closed pump floor installation base ring(A) 12-ø34 ø2220 ¢1560 1200 Discharge 1800 (advised)



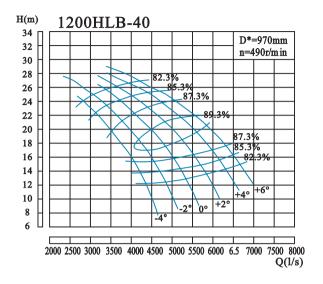
1200HLB(Q) outside installation diagram 2

Model	Pump weight	Rotation part	Transmission part	Maximum axial force	Introduction
1200HLB(Q)-40	9000	2100	6500	18600	1, L is generally 4000~9000 and middle
1200HLB(Q)-50	9000	2100	6500	13000	bearing is needed if L is longer than 7000.
1200HLB(Q)-60	9000	2100	6500	11800	2, Motor floor load = motor weight+

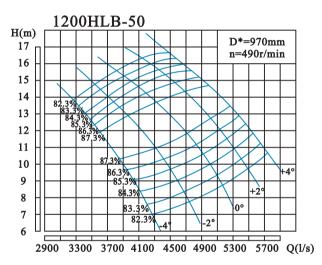
rotation part weight+ transmission part weight+ maximum axial force



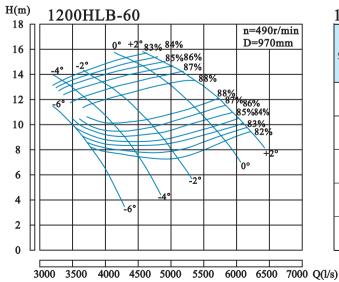








1200	HLE	3-50	性能	参数表	PERFO	RMANCE	DATA	
	流	量Q	扬程 H	转速n	功	率	效率η	叶轮
叶片	Capa	acity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(1/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	15298	4249	6.92		350.4		82.3	
-4	13159	3655	11.70		480.1	560	87.3	
	11720	3256	13.73		532.2		82.3	
	17066	4741	7.76		438.1		82.3	
-2	14393	3998	12.77		572.7	710	87.4	
	12666	3518	14.68		615.2		82.3	
	18546	5152	8.72		534.6		82.3	
0	15750	4375	13.49	490	662.2	800	87.3	970
	13858	3850	15.64		716.9		82.3	
	19739	5483	9.79		639.2		82.3	
+2	16860	4683	14.33		753.2		87.3	
	15010	4169	16.36		812.0	900	82.3	
	20685	5746	10.74		735.1	700	82.3	
+4	18094	5026	14.92		842.0		87.3	
	16038	4455	16.71		886.7		82.3	

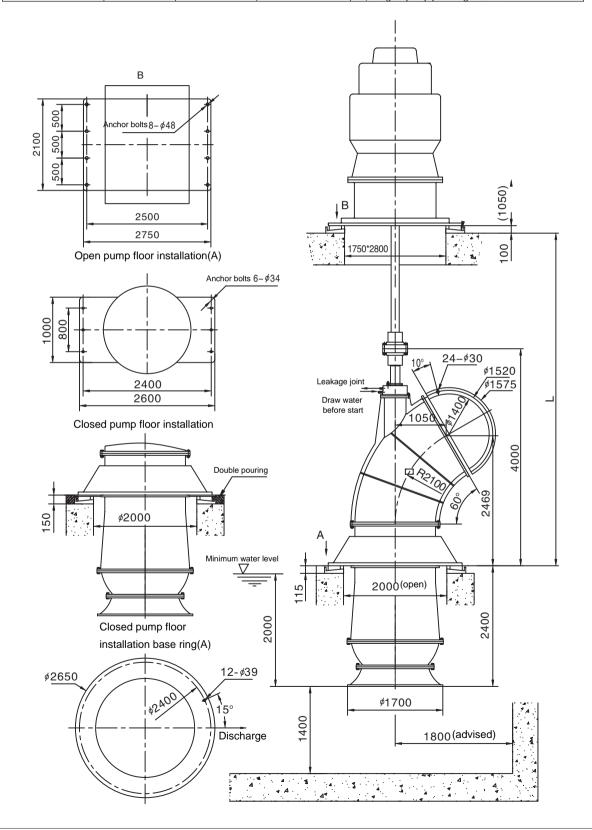


1200	HLE	3-60	性能	参数表	PERFO	RMANCE	DATA	
叶片	流 Capa	量 Q acity	扬程 H Head	转速 n Speed	功 Power	率 (kW)	效率 η Effici-	叶 轮 直 径
安放角 Angle	(m³/h)	(1/s)	(m)	(r/min)	轴功率 Shaft Power	配用功率 Motor Power	ency (%)	Impeller diameter (mm)
	13394	3720	8.58		376.6		83.1	
-6	12748	3541	9.75		396.8	450	85.3	
	11843	3290	11.49		430.1		86.1	
	16038	4455	7.86		412.7		83.1	
-4	14286	3968	10.83		473.2	560	89.0	
	12028	3341	13.53		533.0		83.1	
	18090	5025	7.89		467.6		83.1	
-2	15854	4404	11.50	490	558.1	710	88.9	970
	13262	3684	14.27		619.8		83.1	
	20751	5764	9.12		620.0		83.1	
0	17843	4956	13.25		726.5	800	88.6	
	15536	4316	15.34		780.8		83.1	
	22177	6160	9.78		710.4		83.1	
+2	19669	5464	13.23		801.2	900	88.4	
	16638	4622	15.70		855.7		83.1	ĺ



1400 HLB(Q) outside installation diagram 1

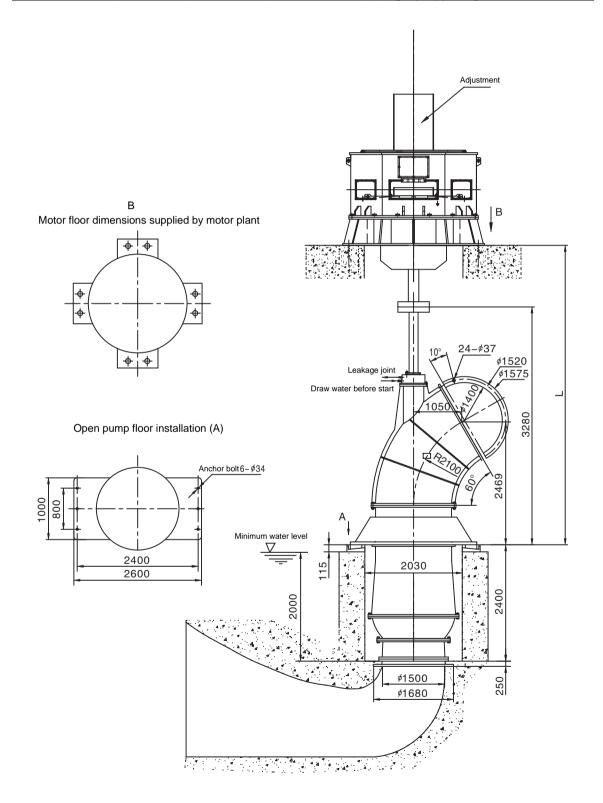
Model	Pump weight	Rotation part	Maximum axial force	Introduction
1400HLB(Q)-40	13000	3500	36000	1,Motro dimensions is for reference only
1400HLB(Q)-50	13000	3500	18000	2, Biggest pump part weight 7000kg
1400HLB(Q)-60	13000	3500	14800	3, Longest pump part length 5500mm.



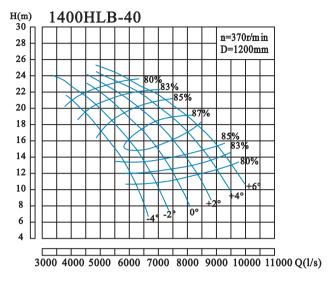


1400 HLB(Q) outside installation diagram 2

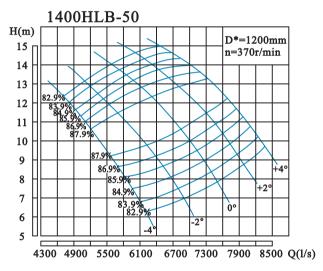
Model	Pump weight	Rotation part	Maximum axial force	Introduction
1400HLB(Q)-40	13000	3500	25000	1,Motro dimensions is for reference only
1400HLB(Q)-50	13000	3500	18000	2, Biggest pump part weight 7000kg
1400HLB(Q)-60	13000	3500	14800	3, Longest pump part length 5500mm.











1400	HLB	3-50	性能	参数表	PERFO	RMANCE	DATA	
	流	 ₽ Q	扬程H	转速n	功	率	效率η	叶轮
叶片	Capa	ecity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m ³ /h)	(l/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	22166	6157	6.21		451.8		82.9	
-4	19068	5297	10.49		619.3	710	87.9	
	16982	4717	12.31		686.3		82.9	
	24728	6869	6.96		564.8		82.9	
-2	20855	5793	11.45		738.7	800	88.0	
	18353	5098	13.16		793.3		82.9	
	26873	7465	7.81		689.4		82.9	
0	22822	6339	12.09	370	854.9	1000	87.9	1200
	20081	5578	14.02		924.4		82.9	
	28601	7945	8.78		824.2		82.9	
+2	24430	6786	12.84		971.6	1120	87.9	
	21749	6041	14.66		1047.1		82.9	
	29972	8326	9.63		947.9		82.9	
+4	26218	7283	13.38		1086.1	1250	87.9	
	23239	6455	14.98		1143.3		82.9	

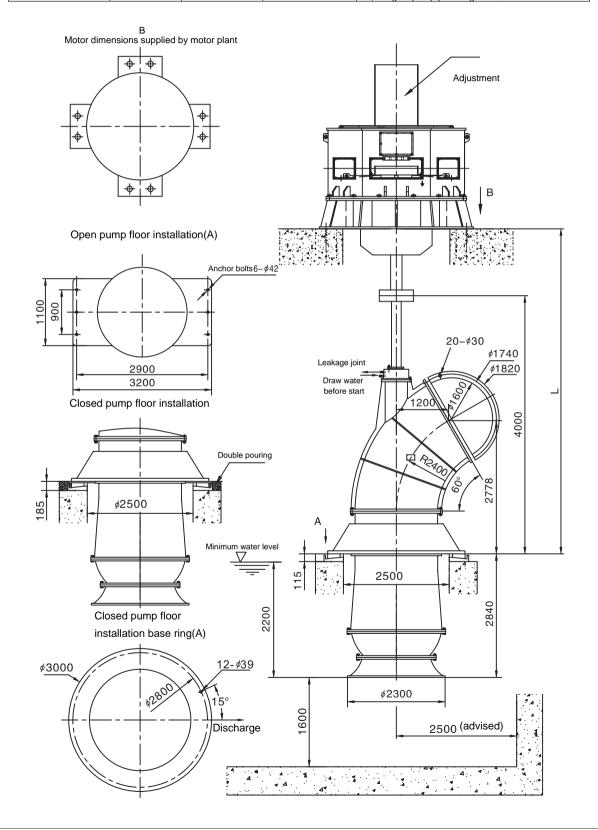
H(m)	1400	HLI	3-60	0								1	400]
16 14			0°	+2°	83.5	84.5	%			370r/: 1200			叶 片 安放角	Ī
	_4°	-2°		\mathbb{X}		85 50	86.5° 7.5% 88.5	% %					Angle	
12	-6							88.5	5% 87.				-6	
10			Z		X				86.5%	83.5 2.5%	%		-4	ļ
8 -		K		X		F		7		+2°			-2	
6 -							-2°		,0°					ļ
4				-6°		-4°							0	
2		+											+2	
0 🗆	000 4500	5000 5	500.6	1000 6	500.7	000.7	500.00	1	[000.0		0000	00%	
40	000 4500	2000 2	וס טטכ	ט טטט	OUU /	UUU /	אל טטכ	JUU 8	JUU 9	ע טטט	300 I	UUUL	v Q(I/s)	

1	400	HLB	-60	性能	参数表	PERFO	RMANCE	DATA	
ſ		流	∄ Q	扬程 H	转速 n	功	率	效率η	叶轮
١	叶片	Capa	ecity	Head	Speed	Power	(kW)	Effici-	直径
١	安放角					轴功率	配用功率	ency	Impeller
١	Angle	(m ³ /h)	(1/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
ı						Power	Power		(mm)
١		19148	5319	7.49		467.6		83.5	
١	-6	18225	5063	8.51		492.8	560	85.7	
Į		16932	4703	10.02		534.0		86.5	
١		22929	6369	6.86		512.4		83.5	
١	-4	20424	5673	9.45		587.7	710	89.4	
Į		17197	4777	11.80		661.8		83.5	
١		25862	7184	6.89		580.6		83.5	
١	-2	22665	6296	10.03	370	693.2	800	89.3	1200
Į		18960	5267	12.45		769.6		83.5	
١		29666	8241	7.96		769.8		83.5	
١	0	25510	7086	11.56		902.3	1000	89.0	
Į		22212	6170	13.39		969.4		83.5	
١		31706	8807	8.53		882.0		83.5	
١	+2	28120	7811	11.54		995.1	1200	88.8	
l		23787	6608	13.70		1062.4		83.5	



1600 HLB(Q) outside installation diagram 1

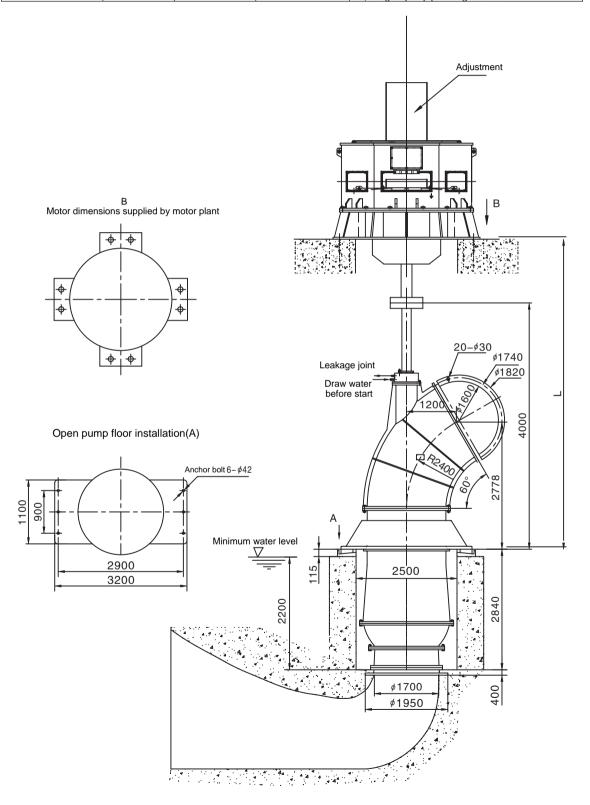
Model	Pump weight	Rotation part	Maximum axial force	Introduction
1600HLB(Q)-40	16000	5000	34000	1,Motro dimensions is for reference only
1600HLB(Q)-50	16000	5000	26000	2, Biggest pump part weight 8000kg
1600HLB(Q)-60	16000	5000	23000	3, Longest pump part length 6000mm.





1600HLB(Q) outside installation diagram 2

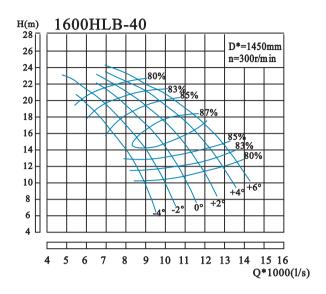
Model	Pump weight	Rotation part	Maximum axial force	Introduction
1600HLB(Q)-40	16000	5000	34000	1,Motro dimensions is for reference only
1600HLB(Q)-50	16000	5000	26000	2, Biggest pump part weight 8000kg
1600HLB(Q)-60	16000	5000	23000	3, Longest pump part length 6000mm.



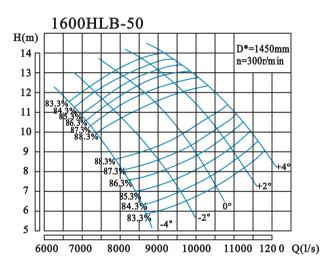
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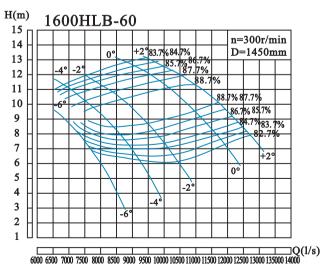








1600HLB-50			性能参数表		PERFORMANCE		DATA	
	流	量 Q	扬程 H	转速 n	功	率	效率η	叶轮
叶片	Capa	eity	Head	Speed	Power	(kW)	Effici-	直径
安放角					轴功率	配用功率	ency	Impeller
Angle	(m^3/h)	(l/s)	(m)	(r/min)	Shaft	Motor	(%)	diameter
					Power	Power		(mm)
	31285	8690	5.80		593.0		83.3	
-4	26912	7476	9.80		813.1	1000	88.3	
	23969	6658	11.50		900.8		83.3	
	34902	9695	6.50		741.4	1120	83.3	1450
-2	29435	8176	10.70		969.9		88.4	
	25903	7195	12.30		1041.2		83.3	
	37929	10536	7.30		904.8	1250	83.3	
0	32210	8947	11.30	300	1121.8		88.3	
	28342	7873	13.10		1213.3		83.3	
	40368	11213	8.20		1081.8		83.3	
+2	34481	9578	12.00		1275.6	1400	88.3	
	30697	8527	13.70	Ī	1374.3		83.3	
	42302	11751	9.00		1244.2		83.3	
+4	37004	10279	12.50		1426.0	1600	88.3	
	32799	9111	14.00	Ì	1500.6		83.3	1

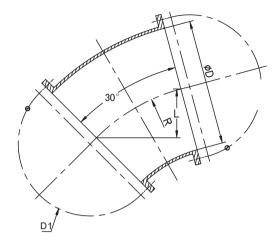


1600	HLE	3-60	性能多	多数表	PERFOR	RMANCE	DATA	
叶片	流量Q 叶片 Capacity		扬程 H 转速 n Head Speed		功 率 Power (kW)		效率 η Effici-	叶 轮 直 径
安放角 Angle	(m ³ /h)	(1/s)	(m)	(r/min)	轴功率	配用功率 Motor		Impeller diameter
Aligie	(m /n)	(1/8)	(III)	(1/111117)	Power	Power	(70)	(mm)
	27391	7609	7.19		642.1		83.5	
-6	26071	7242	8.17		676.6	800	85.7	
	24221	6728	9.62		733.3		86.5	
	32799	9111	6.58	300	703.6	1000	83.5	1450
-4	29216	8116	9.07		806.9		89.4	
	24599	6833	11.33		908.6		83.5	
	36996	10277	6.61		797.2	1250	83.5	
-2	32422	9006	9.63		951.8		89.3	
	27122	7534	11.95		1056.6		83.5	
	42437	11788	7.64		1057.0		83.5	
0	36491	10136	11.10		1238.9	1400	89.0	1
	31773	8826	12.85	Ī	1331.1		83.5	
	45355	12599	8.19		1211.0		83.5	
+2	40225	11174	11.08		1366.3	1600	88.8	
	34027	9452	13.15		1458.8		83.5	



11, 30°elbow and clap door

1, 30° elbow joint dimensions



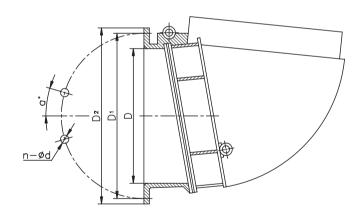
R=1. 0D

D	350	500	600	700	800	900	1000	1200	1400	1600	1800
R	350	500	600	700	800	900	1000	1200	1400	1600	1800
L	47	67	80	94	107	121	134	161	188	214	241

The flang dimensions is the same as the related pump flange dimensions

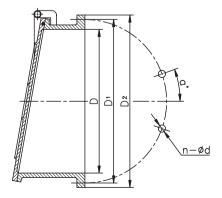
2, Clap door outside and joint dimensions

A, Floating pontoon clap door outside and joint dimensions sheet.



D	D ₁	D_2	n−Φd	a°	Weight (Kg)
300	395	440	12-⊕23	15	82
400	495	540	8-⊕23	22. 5	90
500	600	645	12-⊕23	15	101
600	705	755	12-Ф27	15	148
700	810	860	12-Ф27	15	180
800	920	980	12-⊕27	15	240
900	1020	1075	12-Ф27	15	315
1000	1120	1175	12-⊕30	15	405
1200	1320	1380	12-⊕30	15	448
1300	1430	1500	12-⊕30	15	665
1400	1520	1575	12-⊕30	15	891
1600	1760	1830	12-⊕36	15	Contact
1800	1970	2045	44-⊕30	4. 1	with us

B, Counter weight clap door outside and joint diemnsions sheet



D	D ₁	D ₂	n−Φd	a°	Weight (Kg)
300	395	440	12-⊕23	15	82
400	495	540	8-⊕23	22. 5	91
500	600	645	12-⊕23	15	97
600	705	755	12-Ф27	15	154
700	810	860	12-⊕27	15	188
800	920	980	12-⊕27	15	213
900	1020	1075	12-Ф27	15	282
1000	1120	1175	12-⊕30	15	330
1200	1320	1380	12-⊕30	15	388
1300	1430	1500	12-⊕30	15	649
1400	1520	1575	12-⊕30	15	856
1600	1760	1830	12-⊕36	15	Contact
1800	1970	2045	44-⊕30	4. 1	with us

有凯泉的地方就有水!





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