

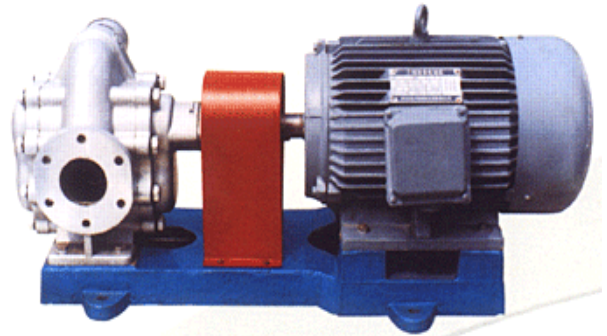


天津機電進出口有限公司



TIANJIN MACHINERY & ELECTRIC EQUIPMENT IMP. & EXP. CO., LTD.

KCB SERIAL GEAR PUMP



Add.: No. 333 Kim Nguu Str, Hai Ba Trung District,
Ha Noi, Viet Nam

Website: <http://muabanmaybom.com>
<http://thegioibomcongnghiep.com>
<http://manhbacson.com>

Email: muavabanmaybom@gmail.com
thegioibomcongnghiep@gmail.com

Tel: (043) 633 2176 / 634 2831
Mobile: 0913 525 006 / 0965 525 006
Fax: (043) 862 6429 / 634 2721



KCB SERIAL GEAR PUMP



KCB SERIES GEAR PUMP

● **FEATURES:**

It is used in hydraulic system to deliver non-corrosive lubricating oil at temperature 80°C or equivalent liquid with out solid particles and fibre and with the viscosity of 5-1500CST.

● **APPTION:**

It gives performance as tran-delvery pump or pressure booster pump in oil delivery system and it can perform as fuel pump for delivery, pressurization and injection in fuel-supply system, as well it can be used as hydraulic pump supplying hydraulic power in hydraulic driving system. Anyhow, it can be applied as lubricating pump in all industry fields.

1, FUNCTIONAL DATA

Model	Diameter of suction & discharge	Flow (l/min)		Discharge pressure (Mpa)	(NPSH) _r m	Efficiency (%)	Motor		
		m ³ /h	L/min				Power KW	Speed r/min	Model
KCB18.3	G3/4"	1.1	18.3	1.45	5	44	1.5	1400	Y90L-4
KCB33.3	G3/4"	2	33.3	1.45	5	44	2.2	1420	Y100L ₁ -4
KCB55	G1"	3.3	55	0.33	7	41	1.5	1400	Y90L-4
KCB83.3	G1 1/2"	5	83.3	0.33	7	43	2.2	1420	Y100L ₁ -4
KCB135	φ 50	8	135	0.33	5	46	2.2	940	Y112M-6
KCB200	φ 50	12	200	0.33	5	46	4	1440	Y112M-4
KCB300	φ 70	18	300	0.36	5	42	5.5	960	Y132M ₂ -6
KCB483.3	φ 70	29	483.3	0.36	5.5	42	11	1460	Y160M-4
KCB633	φ 100	38	633	0.28	6	43	11	970	Y160L-6
KCB960	φ 100	58	960	0.28	6.5	43	18.5	1470	Y180M-4

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MODEL	Diameter of suction & discharge	Flow		Discharge pressure (Mpa)	NPSHr (m)	Efficiency (%)	Motor		
		(m ³ /h)	(l/min)				Power (KW)	Speed (r/min)	Model
KCB1200	φ 150	72	1200	0.6	7	42	37	740	Y280S-8
KCB1600	φ 150	960	1600	0.6	7	42	45	980	Y280S-6
KCB1800	φ 200	108	1800	0.6	7.5	43	55	740	Y280S-8
KCB2500	φ 200	150	2500	0.6	7.5	43	75	990	Y315S-6
KCB2850	φ 250	171	2850	0.6	8	44	90	740	Y315L ₁ -8
KCB3800	φ 250	228	3800	0.6	8	44	110	989	Y315L ₁ -6
KCB4100	φ 250	245	4100	0.6	8	44	132	743	Y355M ₁ -8
KCB5400	φ 250	325	5400	0.6	8	44	160	989	Y355M ₁ -6
KCB5600	φ 350	330	5600	0.6	8	44	160	744	Y355M ₂ -8
KCB7000	φ 350	420	7000	0.6	8	44	185	744	Y355M ₁ -8
KCB9600	φ 350	570	9600	0.6	8	44	250	989	Y355L ₂ -B

When you place and order, please indicate:

- 1、 The temperature of delivery medium.
- 2、 The viscosity at the temperature.
- 3、 Corrosive state of delivery medium.(or the special demand to the material of pump)
- 4、 the entrance pressure and the exhaust exit pressure.
- 5、 The working flow of pump.
- 6、 Equipment demand.

2, DIMENSION OF INSTALLING

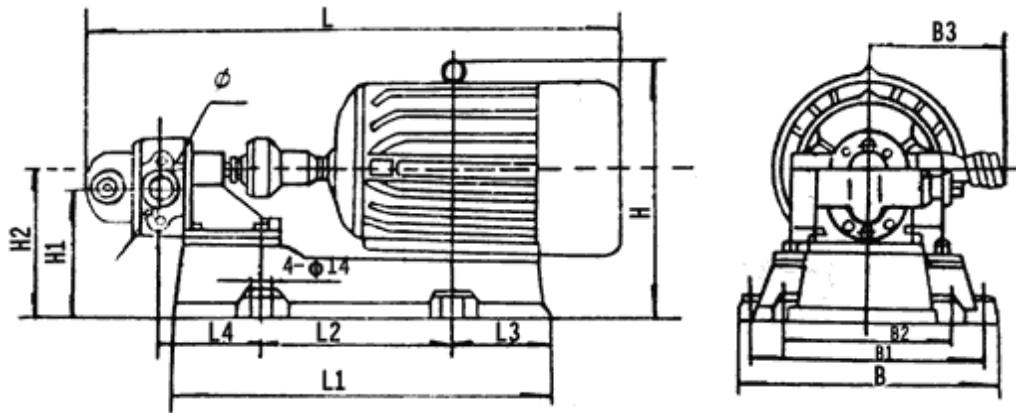
KCB18.3—83.3 DIMENSION OF INSTALLATION

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Equipped with Y series general Ac Motor.

Model	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3	φ
KCB-18.3/1.45 (2CY1.1/1.45)	566.5	391	239	86	75	230	109	130	259	225	190	155	G3/4
KCB-33.3/1.45 (2CY2 /1.45)	618	416	256	86	82	285	119	140	259	225	190	180	G3/4
KCB-55/0.33 (2CY3.3/0.33)	595	399	239	86	89.5	230	109	130	259	225	190	155	G1
KCB-83.3/0.33 (2CY5/0.33)	658	416	256	86	102	285	119	140	259	225	190	180	G11/2

Equipped with anti_explosion Ac Motor.

Model	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3
KCB-18.3/1.45 (2CY1.1/1.45)	591	391	239	86	75	395	109	130	259	225	190	225
KCB-33.3/1.45 (2CY2 /1.45)	650	416	256	94	82	420	119	140	279	245	190	225
KCB-55/0.33 (2CY3.3/0.33)	620	391	239	86	89.5	395	109	130	259	225	190	225
KCB-83.3/0.33 (2CY5/0.33)	690	416	256	94	102	420	119	140	279	245	190	225

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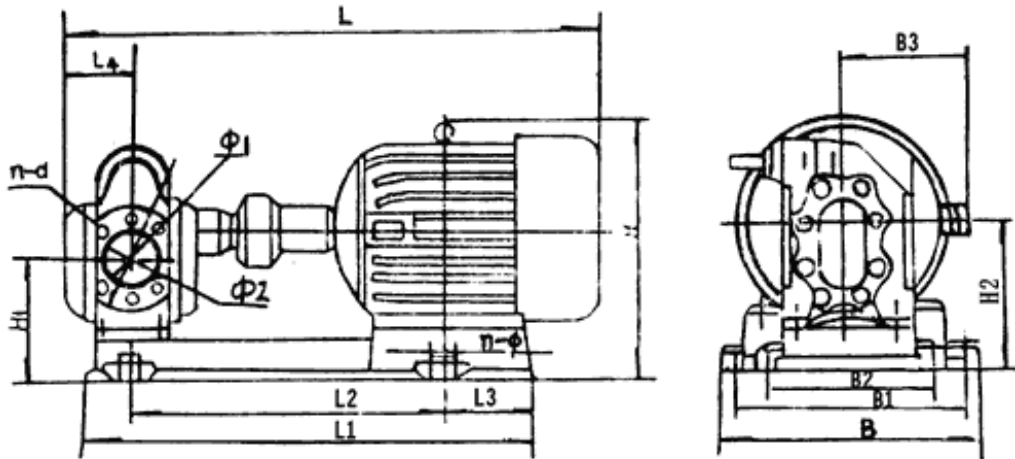


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Equipped with marine motor

Model	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3
KCB-18.3/1.45 (2CY1.1/1.45)	559	391	239	86	75	254	109	130	259	225	190	160
KCB-33.3/1.45 (2CY2 /1.45)	595	416	256	94	82	279	119	140	279	245	190	160
KCB-55/0.33 (2CY3.3/0.33)	588	391	239	86	89.5	254	109	130	259	225	190	160
KCB-83.3/0.33 (2CY5/0.33)	635	416	256	94	102	279	119	140	279	245	190	160

KCB 1 3 5 - 9 6 0 OIL PUMP'S OVERALL VIEW IS SHOWN AS FIG.3 INSTALLING DIMENSIONS



Equipped with Y series general Ac motor.

Model	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3	φ 1	φ 2	n-d	n-φ
KCB135/0.33 (2CY8/0.33)	709	577	419	100	90	356	168	202	326	290	240	190	110	50	4-M12	4-φ16
KCB-200 (2CY12/0.33)																
KCB-300 (2CY18/0.36)	883	715	502	80	124	423	198	240	390	340	280	210	123	70	6-M14	4-φ22
KCB-483.3 (2CY290.36)	971	795	565	80	124	465	198	240	450	400	290	255	123	70	6-M14	4-φ22
KCB-633 (2CY38/0.28)	1079	901	629	172	145	500	258	275	450	400	285	255	158	100	8-M14	4-φ22
KCB-960 (2CY58/0.28)	1099	900	635 (654)	165	145	525	258	275	470	420	285	285	158	100	8-M14	4-φ22

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TIANJIN MACHINERY & ELECTRIC EQUIPMENT IMP. & EXP. CO., LTD.

Equipped with anti-explosion Ac motor

Model	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3	φ 1	φ 2	n-d	n-φ
KCB135/0.33 (2CY8/0.33)	769	581	419	58	90	491	168	202	326	290	240	214	110	50	4-M12	4-φ16
KCB-200 (2CY12/0.33)																
KCB-300 (2CY18/0.36)	918	715	502	80	124	578	198	240	390	340	280	228	123	70	6-M14	4-φ22
KCB-483.3 (2CY290.36)	1021	795	565	80	124	610	198	240	450	400	290	228	128	70	6-M14	4-φ22
KCB-633 (2CY38/0.28)	1124	901	629	100	145	645	258	275	450	400	285	280	185	100	8-M14	4-φ22
KCB-960 (2CY58/0.28)	1159	901	635	100	145	660	258	275	470	420	285	280	158	100	3-M14	4-φ22

Equipped with marine motor

Model	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3	φ 1	φ 2	n-d	n-φ
KCB135/0.33 (2CY8/0.33)	762	581	419	58	90	350	168	202	326	290	240	214	110	50	4-M12	4-φ16
KCB-200 (2CY12/0.33)																
KCB-300 (2CY18/0.36)	837	715	502	80	124	421	198	240	390	340	280	228	123	70	6-M14	4-φ22
KCB-483.3 (2CY290.36)	963	795	565	80	124	460	198	240	450	400	290	228	123	70	6-M14	4-φ22
KCB-633 (2CY38/0.28)	1070	901	629	100	145	495	258	275	450	400	285	280	158	100	8-M14	4-φ22
KCB-960 (2CY58/0.28)	1092	900	635	100	145	513	258	275	450	420	285	280	158	100	8-M14	4-φ22

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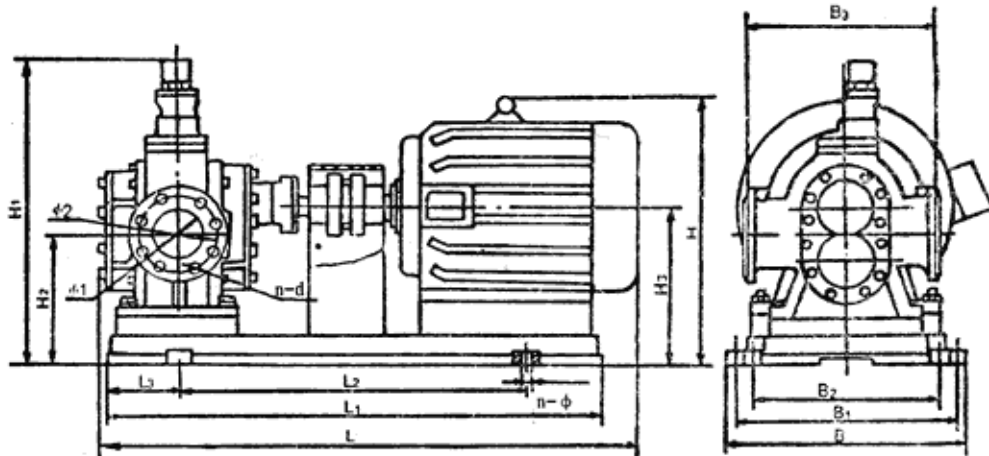
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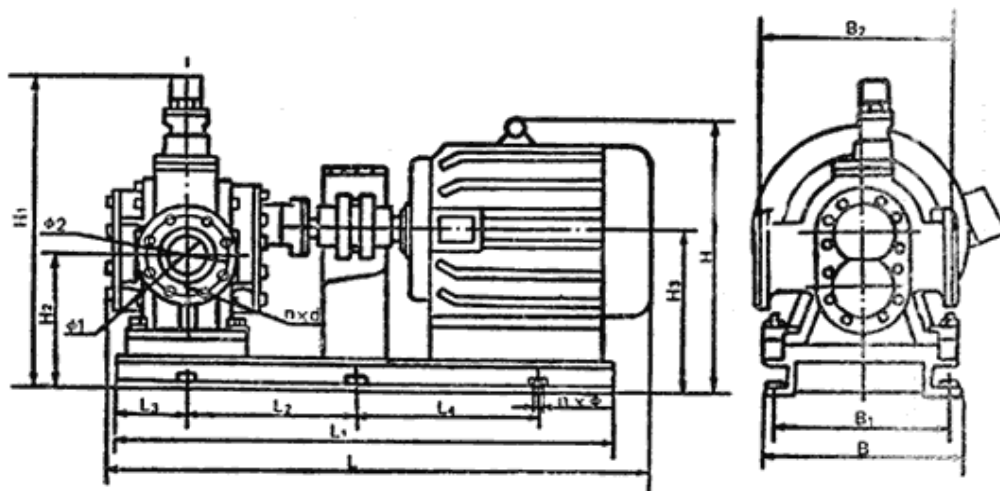
KCB 1 2 0 0 - 3 8 0 0 OIL PUMP'S OVERALL VIEW IS SHOWN AS FIG.3, INSTALLING DIMENSIONS



Equipped with Y series general Ac motor

Model	L	L1	L2	L3	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	n-d	n-φ
KCB1200/0.6	1771	1470	990	194	780	828	340	420	683	631	621	510	150	225	8-φ18	4-φ25
KCB1600/0.6																
KCB1800/0.6	2036	1704	1142	230	1020	1145	380	470	772	720	720	684	200	280	8-φ22	4-φ25
KCB2500/0.6	2294	1930	1250	270	1070	1035	419	520	810	750	750	640	250	335	12-φ18	4-φ30
KCB2850/0.6																
KCB4100/0.6	2524	2008	1340	270	1200	1035	419	520	1163	906	750	640	250	335	12-φ18	4-φ30
KCB5400/0.6																

KCB 1 2 0 0 - 3 8 0 0 OIL PUMP'S OVERALL VIEW IS SHOWN AS FIG.3, INSTALLING DIMENSIONS



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Equipped with Y series general Ac motor.

Model	L	L1	L2	L3	L4	H	H1	H2	H3	B	B1	B2	φ 1	φ 2	n-d	n-φ
KCB1200/0.6	1171	1470	495	195	495	840	928	440	520	520	450	510	150	225	8-φ18	6-φ30
KCB1600/0.6																
KCB1800/0.6	2106	1622	571	220	471	1170	1280	532	620	740	660	684	200	280	8-φ22	6-φ30
KCB2500/0.6																
KCB2850/0.6	2200	1850	625	240	625	1225	1193	574	675	750	670	640	250	335	12-φ18	6-φ30
KCB3800/0.6																
KCB4100/0.6	2200	1900	625	240	625	1225	1193	574	675	750	670	640	250	335	12-φ18	6-φ30
KCB5400/0.6																
KCB5600	2632	2090	723	245	723	1465	1440	671	785	760	690	740	350	445	12-φ23	6-φ32
KCB7000	2662	2090	723	245	723	1465	1440	671	785	760	690	740	350	445	12-φ23	6-φ32
KCB7600	2632	2090	723	245	723	1465	1440	671	785	760	690	740	350	445	12-φ23	6-φ32
KCB9600	2662	2090	723	245	723	1465	1440	671	785	760	690	740	350	445	12-φ23	6-φ32

3, PRODUCT MAINTENCE

Description of models of the pumps:

K	CB	18.3	14.5	1
Equipped with relief value	Gear Oil Pump	Flow (L/min)	MPa	Equipped with general A.C motor

POINTS FOR ATTENTION OPERATION

A. Installation

1. Before installation, it is required to check up whether the motor is affected by damp or there is damage to the dust-proof covers of pump's inlet or exit, which might lead to the dirt things into the cavity.

2. Clean the inner wall of tube by means of fresh water or steam before installing the tube.

During mounting the tube, pay attention to not adding the weight of the tube on the pump in

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order to avoid injuring of the pump.

3. Any leakage of air or liquid in the fittings of the tube is not allowed otherwise failure of absorption of oil may occur.

4. In order to prevent any grain impurities from ingressing into the pump, if necessary, mount a filter gauge at its absorbing port.

B. Inspection before starting the pump:

1. Check all the fasteners to make sure they are tightened.

2. Check the driving shaft to make sure it is rotating easily.

3. Make sure the valves on the pipeline of the inlet and outlet are open.

4. Make sure the pump rotates in accordance with the required direction. The standard motion is clockwise when you watch it from the extending shaft end.

C. Maintenance of the pump at work:

1. Pay attention to the reading on pressure gauge and vacuum gauge, and make sure they are in accordance with the specified technical specifications of the oil pump.

2. Take care of the gland and leakage of oil, if any, you should screw the gland cover according to the concrete leaking condition. (Too much tightening of the gland is not allowed in order to avoid overheating of the gland and rapid wearing of oil seal.)

3. When an abnormal noise or temperature rise too high is found during running of the pump.

Immediately stop the pump and make necessary inspection.

D Stop of the pump

1. Turn off the power supply.

2. Close the valve on the inlet and outlet tubes.

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※USUAL TROUBLE AND THE WAYS OF REMEDY

Phenomenon	Productive Reason	The Ways of Remedy
The pump doesn't discharge oil or the pump discharge little oil	<ol style="list-style-type: none"> 1.The height of suction is too high. It is beyond rated value. 2.The suction pipe leaks air. 3.The direction of rotation is wrong. 4.The suction pipe is blocked or the valve is closed. 5.The safety valve shut up or the safety valve wore away. 6.The temperature of liquid is too low; it makes viscosity of liquid increasing. 	<ol style="list-style-type: none"> 1.Increase the area of in taking oil 2.Check every connection you had better add asbestos sheet to seal them. 3.According to the direction indicated correct the direction of rotation. 4.Check the flow ability of oil in the suction pipe and check the valves all opened. 5.Dismount the safety valve and polish the hole with the fine abrasive sand. 6.Preheating the liquid, if you cannot manage, decrease the speed.
The sealing ring leaks oil.	<ol style="list-style-type: none"> 1.The sealing ring wore away. 2. The sealing ring is installed devoutly. 	<ol style="list-style-type: none"> 1.Tighten the nut properly, or replace the sealing ring. 2.Dismount the sealing ring and adjust it.
Noise and Vibration	<ol style="list-style-type: none"> 1.The intake pipe is blocked. Or the net of filter is stopped up. 2.The intake pipe inserted the oil box shallowly. 3.The air entered into the intake pipe. 4.The resistance of the discharge pipe is too strong. 5.Gears and bearings stand sides show serious wear. 6.The viscosity of the intake liquid is too high. 7.The value of (NPSH) exceeds the rated. 	<ol style="list-style-type: none"> 1.Clear the dirty thing. 2.The intake pipe. Should be inserted into oil box about 0.5 meters. 3.Check every connection and seal them. 4.Check whether the discharge pipe or valves are stopped up. 5.Kisassemble and maintain or change them. 6.Determine the viscosity and deal with is according the first paragraph. 7.Raise the oil level for absorption.