

# **GQJB series HIGH-EFFICIENCY submersible mixer**



## DESCRIPTION

GQJB series submersible mixer has improved and changed high efficiency and permanent magnet motor on basis of normal QJB submersible mixer, this motor could extend motor working time and lifetime. this high efficiency motor also could be up to European II energy efficiency standard, which could save energy of 15~30% compared with normal motor. it's very convenient that this high efficiency motor has the same dimension as normal one, so it's could replace it at any time

## MODEL DESCRIPTION

GQJB XX/YY - XX/YY - XX S/C

| | | | |\_\_S: SS, C:carbon steel

| | | |\_\_\_\_\_Speed

| | |\_\_\_\_\_Propeller dia/number

| |\_\_\_\_\_Motor power/pole

|\_\_\_\_\_Submersible mixer (G-high efficiency)

## APPLICATION

GQJB/QJB submersible mixer is applicable for the following process of urban running water and industrial waste water treatment in the environmental protection project

Mixing and uniforming the sewage, waster water and sludge water,

Thickening, and dewatering the sludge

Optimizing the heat transfer and cleaning the sump

Preventing the grain being condensed and deposited at the pool wall and pool bottom

Removing the suspended solid, and making the water flow

The mixer can work normally and continuously under following conditions:

1. The max medium temp. shall not exceed 40°C
2. PH value of medium is in the range 5~9
3. The liquid density shall not exceed 1150kg/m<sup>3</sup>
4. Long-term submersible operation, the submersible depth shall not exceed 20m

## PERFORMANCE & FEATURE

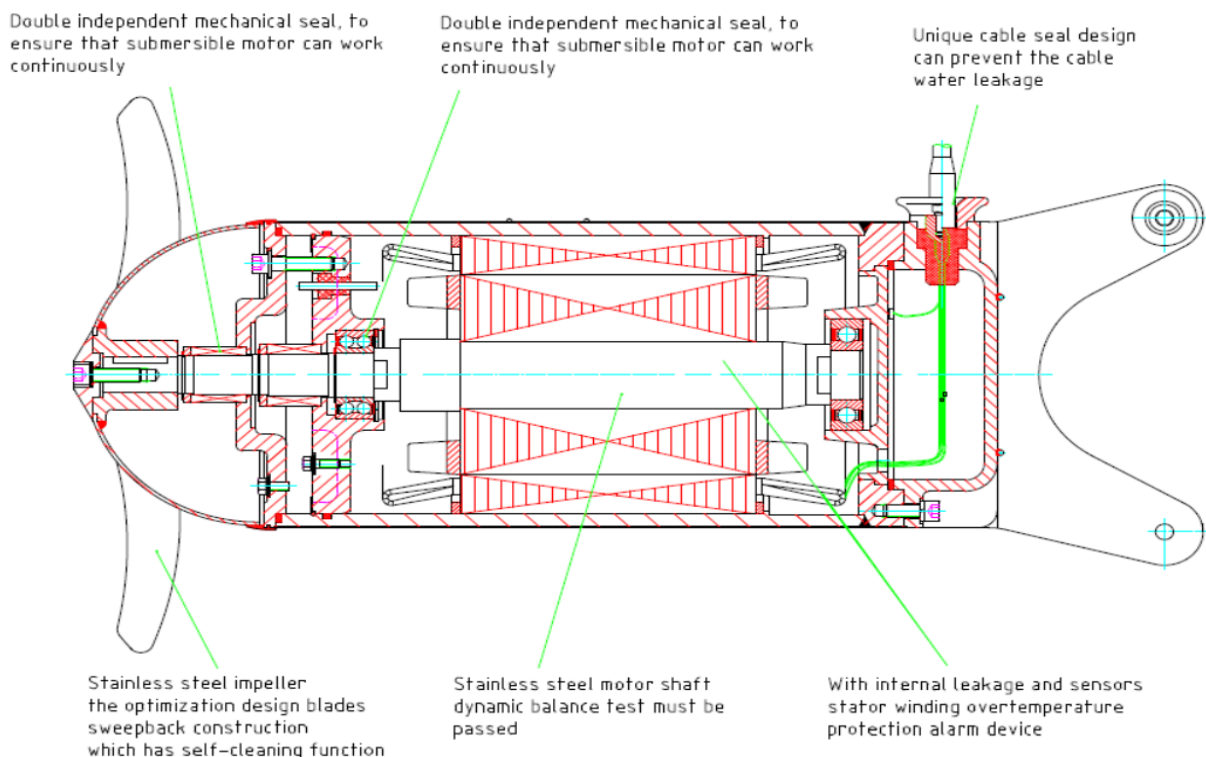
1. GQJB/QJB series mixer is featured with compact structure, simple operation and maintenance, convenient installation and overhaul and long service life, etc.
2. The impeller has the best hydraulic-design structure, high working efficiency, sweep-back blade has the self-cleaning function to avoid being wrapped and blocked by litter.
3. Through serving with the aeration system, it can reduce the energy consumption greatly, increase the oxygenation obviously, so as to prevent the deposition effectively.
4. The insulation class of motor winding is F, protection degree is IP68,

high quality bearing is adopted to make the motor work more reliably.

5. With double mechanical sealing, its material is tungsten carbide, All exposed fasteners are made of stainless steel.

## STRUCTURE OF MIXER

GQJB/QJB series mixer adopts the multi-pole permanent magnet(normal) motor, pressed and formed blade with perfect precision and high efficiency and the impeller available in different blade angles. It is featured with the compact structure, small volume, light weight, simple operation and maintenance, convenient and fast installation and long service life, etc. and, the shell is made of stainless steel. With nice look. It is the best upgraded product of early iron-cast mixer.



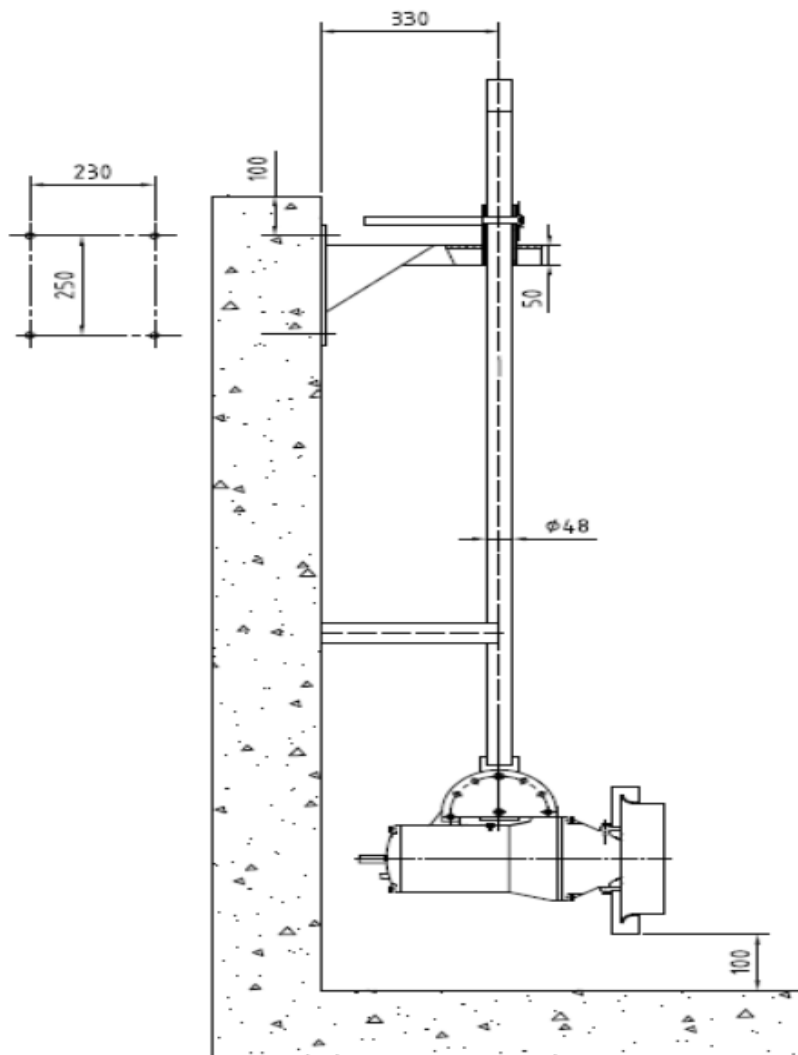
# PERFORMANCE DATA SHEET

Model	Power KW	Factor	Motor Eff %	Blade dia. mm	Current A	Axial thrust N	Weight Kg
QJB0.37/6-220/3-980S	0.37-6P	0.70	62	220	1.3	138	20
QJB0.75/6-220/3-980S	0.75-6P	0.72	64.5	220	2.4	154	20
QJB0.85/8-260/3-740 C/S*	0.85-8P	0.72	66	260	3.2	165	55
QJB1.5/6-260/3-980C/S*	1.5-6P	0.74	72	260	3.9	290	55
GQJB1.5/6-260/3-980C/S*		0.93	85		2.5	406	
QJB2.2/8-320/3-740C/S*	2.2-8P	0.71	73	320	5.9	582	110
GQJB2.2/8-320/3-740C/S*		0.93	86.4		4.5	815	
QJB4/6-320/3-980C/S*	4-6P	0.76	77	320	9.3	609	115
GQJB4/6-320/3-980C/S*		0.93	88.6		6.9	853	
QJB1.5/8-400/3-740S	1.5-8P	0.70	69	400	4.5	600	70
GQJB1.5/8-400/3-740S		0.93	85.4		2.7	840	
QJB2.5/8-400/3-740S	2.5-8P	0.72	74	400	7.3	800	70
GQJB2.5/8-400/3-740S		0.93	86.97		4.7	1120	
QJB3/8-400/3-740S	3-8P	0.73	75.5	400	8.0	850	70
GQJB3/8-400/3-740S		0.935	87.7		5.5	1190	
QJB4/6-400/3-980S	4-6P	0.76	77	400	9.6	1200	73
GQJB4/6-400/3-980S		0.941	89.2		7.1	1680	
QJB4/12-620/3-480S	4-12P	0.64	72	620	14.5	1100	184
GQJB4/12-620/3-480S		0.945	89.7		7.1	1540	
QJB5/12-620/3-480S	5-12P	0.66	75	620	18.0	1800	184
GQJB5/12-620/3-480S		0.956	90.5		8.8	2520	
QJB7.5/12-620/3-480S	7.5-12P	0.68	76	620	26.7	2600	229
GQJB7.5/12-620/3-480S		0.966	93.44		12.2	3640	
QJB10/12-620/3-480S	10-12P	0.69	78	620	29.3	2900	229
GQJB10/12-620/3-480S		0.996	92.92		16.4	4060	
QJB12/12-620/3-480S	12-12P	0.69	79	620	32.0	3100	250
GQJB12/12-620/3-480S		0.99	93.2		18.3	4340	

Model	Power KW	Factor	Motor Eff %	Blade dia. mm	Current A	Axial thrust N	Weight Kg
QJB15/12-620/3-480S	15-12P	0.68	80.0	620	42.8	4200	305
GQJB15/12-620/3-480S		0.98	93.54		24.8	5880	
QJB18.5/12-620/3-480S	18.5-12P	0.68	80.5	620	55.0	5300	315
GQJB18.5/12-620/3-480S		0.95	93.49		31.4	7420	
QJB22/12-620/3-480S	22-22P	0.69	81.5	620	65.0	6100	335
GQJB22/12-620/3-480S		0.92	92.4		37	8540	

Note: \* indicates the material of the casing is cast iron, others are stainless steel

## INSTALLATION SYSTEM



I type installation system only for QJB0.36/6, QJB0.75/6, QJB0.85/8, QJB1.5/6



