

保定工业水泵制造有限公司

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# 我国最新一代渣浆泵产品

Up-to-date Generation Slurry Pump in China

为了满足电力、冶金、煤炭等行业发展的需要，针对煤炭磨渣及粉浆输送工种的难点，我公司遵照国际最新标准，广泛吸收国外先进技术和经验，结合我国国情，研制成功最新一代渣浆泵产品。其主要特点如下：

- 采用最新CAD设计方法，水力性能优良，效率高，使用寿命长
- 采用最新材料制造，性能优异，产损比最佳
- 采用最新轴封材料，密封可靠，使用寿命长，维护简单
- 可拆卸设计，拆卸了轴封不需拆卸工作叶轮，大大方便了现场维护。
- 采用轴封材料，密封可靠，密封可靠，使用寿命长，维护简单。
- 采用最新材料制造，性能优异，产损比最佳
- 采用最新材料，用于潜水作业及特殊作业，使用寿命长，维护简单。
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渣浆泵在电力、冶金、煤炭等行业应用广泛，主要用于：电厂、冶金、煤炭、化工、建材、有色、轻工、环保等行业。渣浆泵在电力行业应用广泛，主要用于：电厂、冶金、煤炭、化工、建材、有色、轻工、环保等行业。

In order to meet the needs of power, metallurgy, coal and other industries, our company has developed the latest generation slurry pump with large capacity, high efficiency, and long service life. The main features are as follows:

- CAD method design, superior hydraulic performance, high efficiency and long service life.
- Wide range of non-slagging and good performance of wear parts.
- Removable design, disassembly without need to disassemble the impeller, greatly facilitating maintenance.
- Reliability design, excellent performance, long service life.

The slurry pump is widely used in power, metallurgy, coal, chemical, building materials, non-ferrous metal, light industry, environmental protection and other industries.

- The materials of wear parts have the good performance of anti-wearing and self-cleaning.
- The pump can be disassembled without need to disassemble the impeller, greatly facilitating maintenance.
- The pump can be operated in water with small amount of solid particles. The performance is superior to other pumps.

The slurry pump has the advantages of high efficiency, high efficiency, and long service life. It is widely used in power, metallurgy, coal, chemical, building materials, non-ferrous metal, light industry, environmental protection and other industries.

渣浆泵在电力、冶金、煤炭等行业应用广泛，主要用于：电厂、冶金、煤炭、化工、建材、有色、轻工、环保等行业。



1200 800 300 200

- 电动机 (Motor)
- 联轴器 (Coupling)
- 轴 (Shaft)
- 叶轮 (Impeller)
- 轴封 (Shaft Seal)
- 轴承 (Bearing)
- 机壳 (Casing)



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ZGB(P)系列渣浆泵为卧式、单级、单吸、悬臂、双泵壳、离心式渣浆泵。

相同口径的ZGB和ZGBP型渣浆泵的过流部件可以互换,外形尺寸也完全相同。

当渣浆泵为二级或二级以上时,建议采用有高压轴封水的机械密封。单级或串联一级采用付叶轮加填料组合式密封。

各种轴封形式的轴封水压,流量如下:

1.轴封水压

对于单级(或串联一级)采用填料加付叶轮组合式密封,轴封水压一般为

The dimensions are one and the same. For the drive part of the series ZGB(P) slurry pump, the horizontal split frame with oil lubrication and two sets of water cooling systems inside and outside has been adopted. If necessary, cooling water can be supplied. The prepared joint for cooling water and pressure of the cooling water can be seen in table 1.

Two kinds of shaft seal--expeller seal combined with packing and mechanical seal have been used for series ZGB(P) slurry pump.

The mechanical seal supplied with high pressure sealing water is recommended when the slurry pump is operated in series(two stages and above two stages), and the expeller seal combined with packing is used in single-stage pump.

The water pressure and amount of all kinds of the shaft seal is as follows:

1) Sealing water pressure

For single-stage pump with the expeller seal combined with packing, the water pressure of the

表1 轴封水压数据表 (Table 1 Sealing Water Parameters)

泵型号 Pump type	托架 Frame	轴封水量(l/s) Sealing water	轴封水接口 Sealing water joint	托架冷却水接口 Cooling water joint on frame	托架冷却水压 Cooling water pressure
ZGB	500	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500A	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500B	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500C	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500D	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500E	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500F	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500G	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500H	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500I	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500J	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500K	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500L	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500M	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500N	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500O	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500P	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500Q	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500R	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500S	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500T	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500U	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500V	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500W	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500X	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500Y	1.2	10"	3/4" x 3/4"	0.05-0.2MPa
ZGB	500Z	1.2	10"	3/4" x 3/4"	0.05-0.2MPa

# ZGB(P)型渣浆泵型谱及性能参数

Performance Chart & Parameters of Type ZGB(P) Pump

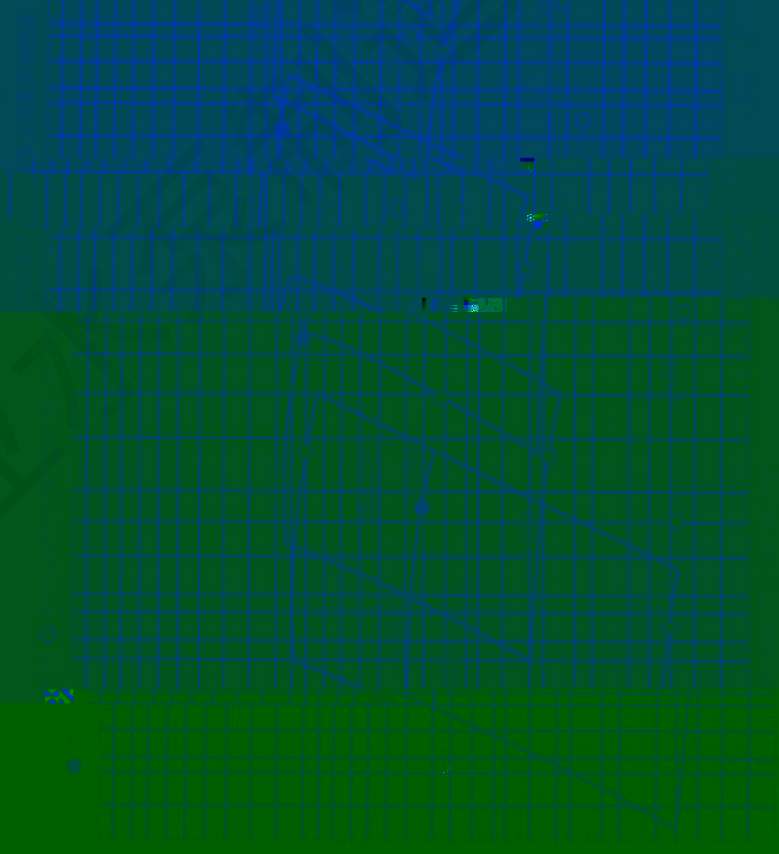
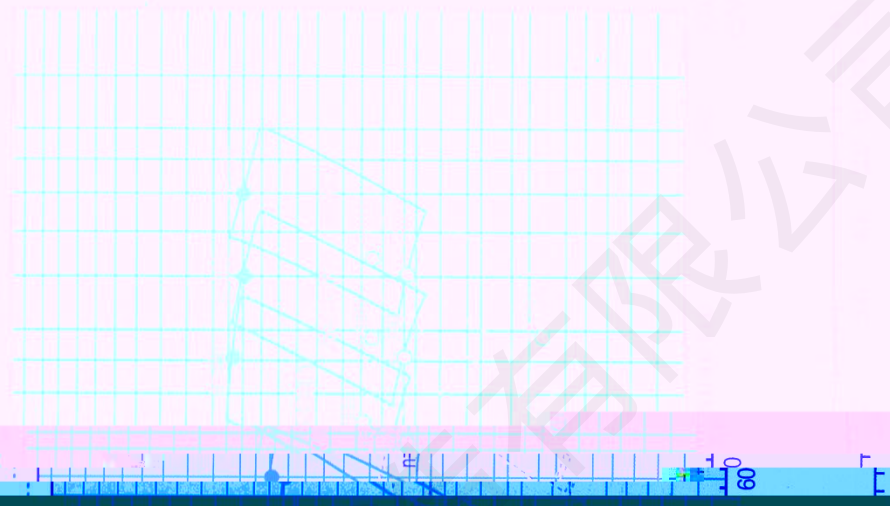
型谱

渣浆泵

ZGB(P)型渣浆泵

型谱图

SELECTION CHART FOR TYPE ZGB





# ZGB(P)型渣浆泵性能参数

## ZGB(P) Pump Performance Parameters

性能参数表 PERFORMANCE DATA

泵型号 PUMP TYPE	清水性能(CLEAR WATER PERFORMANCE)					轴功率 POWER ON SHAFT Pa (kw)	配套电机型号 功率/电压 MOTOR TYPE POWER/VOLT	叶轮直径 IMPELLER DIA. (mm)	泵重量 PELLER DIA. (mm)	排出口直径 吸入口直径 OUTLET INLET (mm)
	转速 SPEED n (r/min)	流量 CAPACITY Q (ls)	扬程 HEAD H (m)	效率 EFF. η (%)	汽蚀 余量 NPSH (m)					
100ZGB(P)	1480	189	74.4	57.4	2.1	66.7	Y315S-4,110KW/380V	450	3000	100/152
		315	71.4	74.4	3.1	82.3	Y315M4-4,132KW/380V			
		378	68.9	77.9	4.9	91	Y315M2-4,160KW/380V			
100ZGB(P)	980	125.28	32.6	57.4	1.1	19.4	Y225M-6,30KW/380V	450	3000	100/152
		208.44	31.3	74.4	1.7	23.9	Y250M-6,37KW/380V			
		250.2								

# ZGB(P) 型渣浆泵性能参数

## ZGB(P) Pump Performance Parameters

性能参数表 PERFORMANCE DATA

泵型 Model	清水性能 (CLEAN WATER PERFORMANCE)					轴功率 POWER IN SHAF	配套电机型号 电机功率 MOTOR TYPE POWER WATT	额定电压 VOLTAGE V	电流量 CURRENT A	出口管径 出口管径 OUTLET DIAMETER
	转速 SPEED RPM	流量 CAPACITY M <sup>3</sup> /H	扬程 HEAD M	效率 EFF.	汽蚀 NPSH M					
ZGB100-100-100	1450	100	100	70	1.5	1.5	1000	1000	100	100
ZGB150-150-150	1450	150	150	70	2.5	2.5	1000	1000	150	150
ZGB200-200-200	1450	200	200	70	4.0	4.0	1000	1000	200	200
ZGB250-250-250	1450	250	250	70	6.0	6.0	1000	1000	250	250
ZGB300-300-300	1450	300	300	70	8.5	8.5	1000	1000	300	300
ZGB350-350-350	1450	350	350	70	11.0	11.0	1000	1000	350	350
ZGB400-400-400	1450	400	400	70	14.0	14.0	1000	1000	400	400
ZGB450-450-450	1450	450	450	70	17.0	17.0	1000	1000	450	450
ZGB500-500-500	1450	500	500	70	20.0	20.0	1000	1000	500	500
ZGB600-600-600	1450	600	600	70	28.0	28.0	1000	1000	600	600
ZGB700-700-700	1450	700	700	70	36.0	36.0	1000	1000	700	700
ZGB800-800-800	1450	800	800	70	44.0	44.0	1000	1000	800	800
ZGB900-900-900	1450	900	900	70	52.0	52.0	1000	1000	900	900

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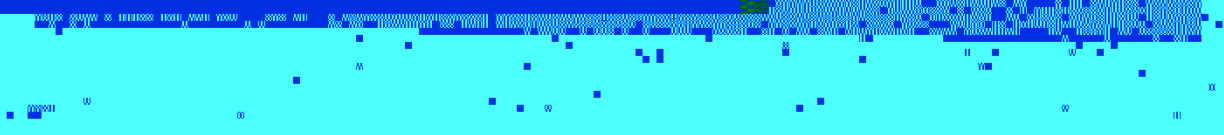
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# ZGB(P)型渣浆泵性能参数

ZGB(P) Pump Performance Parameters

渣浆泵性能参数表

11.7

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# ZGB (P) 型渣浆泵结构及主要零件

## Construction & Main Parts of Type ZGB(P) Pump

图1. ZGB 型渣浆泵  
Type ZGB Slurry Pump

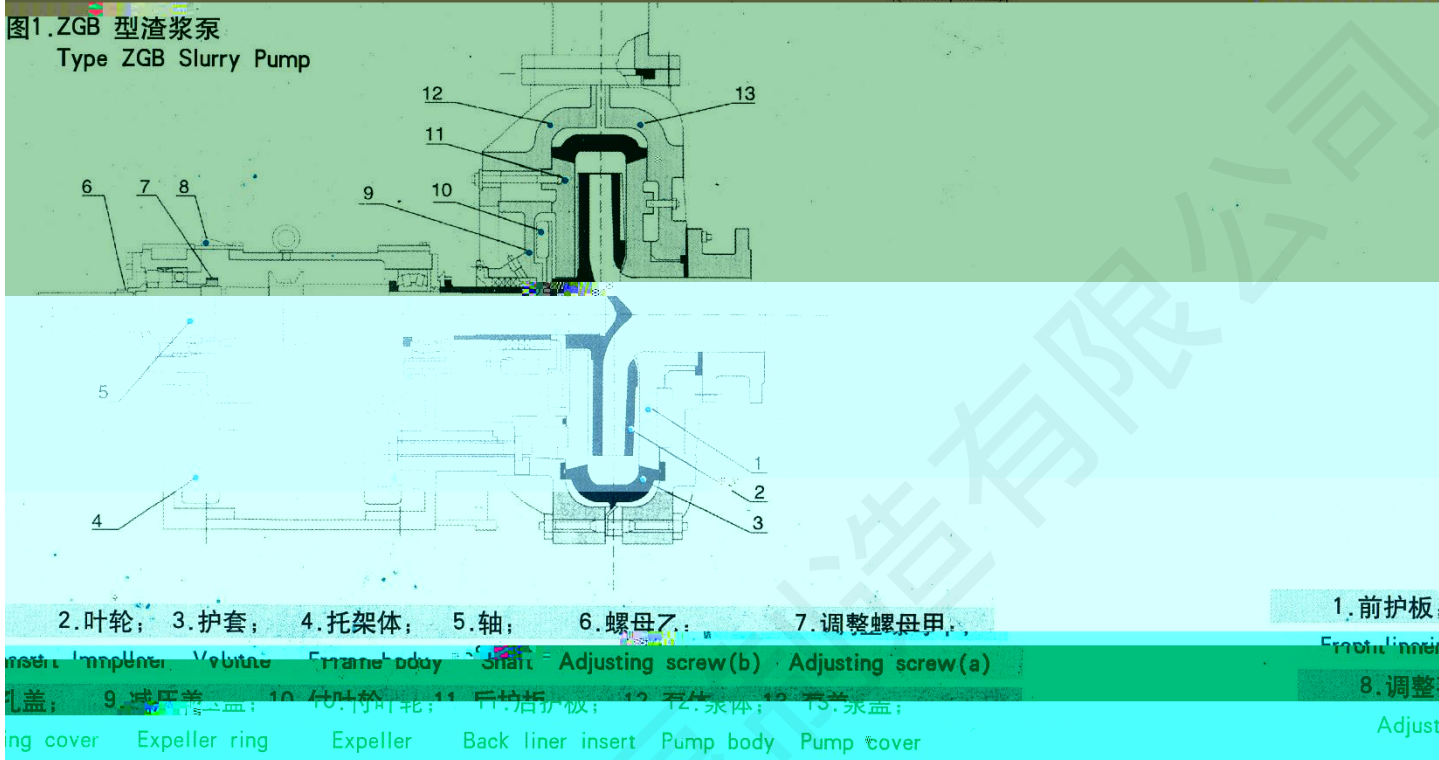
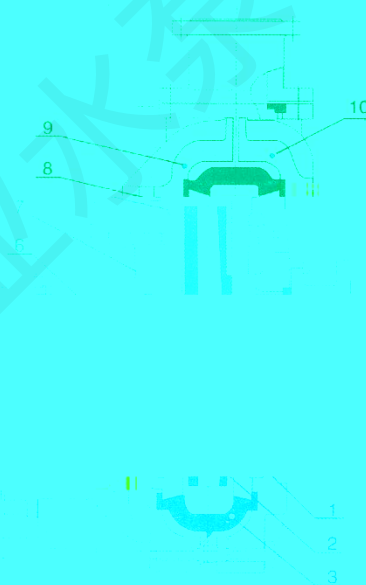


图2. ZGBP 型渣浆泵  
Type ZGBP Slurry Pump



1. 前护板; 2. 叶轮; 3. 护套; 4. 托架体; 5. 轴;  
Front linerinsert Impeller Volute Frame body Shaft  
6. 机械密封; 7. 密封箱; 8. 后护板; 9. 泵体; 10. 泵盖;  
Mechanical seal Sealing box Back liner insert Pump body Pump cover



### 订货须知

- 1、请说明是否串联使用和串联级数。如无说明，本厂将按ZGB型供货。
- 2、请注明轴封型式。若无说明，本厂将按付叶轮加填料组合式密封供货。
- 3、电机的防护等级一般为IP23，频率为50Hz。如有特殊要求，请予说明。
- 4、ZGB型只允许应用于一、二级，ZGBP型用于三、四级。

### NOTICES FOR ORDERING

- 1)When ordering,it should be stated whether the pumps are used in series operation and the stage number in series.Otherwise,type ZGB will be supplied.
- 2)When ordering,the type of the shaft seal should be stated.Otherwise,the expeller seal combined with packing will be supplied.
- 3)Generally,the protecting grade of the matched motor is IP23 and the frequency is 50HZ.It should be stated for the special requirement.
- 4)Type ZGB pump is only used for one or two stages and ZGB(P) pump for three or four stages in series operation.