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ZH Series High Head Slurry Pump



The **high head slurry pump ZH** is a cantilevered, horizontal, centrifugal slurry pump, which is specifically designed to combat the need to run conventional to generate high heads often required in many modern slurry pumping application single pump unit rather than series pumping can be adopted, at greatly reduced capital cost, while the Wear-Resistant Slurry Pump and High Head still offering optimum wear life and efficiency.

High Head Slurry Pump Range: Parameter

Caliber (inch)	1"-6"
Maximum flow quantity	1152m³/h
Maximum head	98m
Speed	450-2200r/min
Power	30-1200kw

High Head Slurry Pump Typical Application:

- (1) Mill Discharge
- (2) Coarse Sand
- (3) Tailings
- (4) Mineral Concentration
- (5) Heavy Media
- (6) Coal Washing
- (7) Phosphoric Acid
- (8) Process Chemical
- (9) Bottom/Fly Ash
- (10) Metal Smelting

High Head Slurry Pump Features

1. Our ZH Series high head centrifugal slurry pump has only one impeller that allows slurry to enter the chamber from the suction side. It is a centrifugal high head slurry pump designed to handle high pressure, high flow applications.
2. The interior of the double-sleeve design is a wet end made of wear-resistant high chrome.
3. Different types of impellers are designed to handle different flow patterns.
4. The shaft is sealed with a packing gland. Propeller dynamic sealing and other mechanical seal configurations are an option.
5. The ZH Series high head centrifugal slurry pump is designed to deliver high volume, low lift high speed pumps. It is suitable for low-abrasive, low-viscosity slurry pumping applications.
6. The discharge have 8 positions spaced at 45 degrees and can be selected to meet installation and application requirements.

High Head Slurry Pump Advantages

1. The double-sleeve design of our single-suction High Head Electric slurry pump allows for axial splitting. Made of ductile iron, the pump casing is able to withstand the main pressure generated in the pump chamber. The lining is made of wear-resistant material and does not stick to the outer casing for easy maintenance and replacement.
2. The High Head Electric slurry pump body is fixed to the mount by a plurality of bolts. The user can easily adjust the gap between the impeller and the suction pad from below the housing.
3. Packing gland seals, mechanical seals and drain seals prevent mud leakage during pumping.
4. The compact construction allows the pump to occupy a small footprint.

Hydraulic

Modeling

The wet end piece can be cast from hard metal. They maintain good hydraulic performance even when the pump is heavily worn. This helps the Filter Press

Feed Slurry Pump achieve optimum pumping efficiency levels for extended periods of time. The large diameter impeller design, combined with the narrow flow path, ensures that the slurry can be pumped to a higher than normal height.

Shaft

Seals

Packing

Seal

As one of the most commonly used seals for rotating shafts, the gland seals can be placed in a low or full flush arrangement that uses flushing water to prevent media from escaping from the pump casing. This seal is suitable for almost all pumping applications. In the case of corrosive solids or high temperatures, polytetrafluoroethylene or aramid fibers are used as the sealing material. In order to further improve the wear resistance of the shaft, ceramic coated bushings will be used.

Centrifugal

Seal-Expeller

The combination of impeller and ejector creates a seal that prevents leakage. This seal, together with the seal or lip seal used as a closure seal, can handle the sealing requirements of applications where full flush seals are not possible due to lack of water on site, or allow seal water to enter the pump chamber to dilute the slurry.

Mechanical

Seal

The ZH series high head centrifugal slurry pump adopts leakproof mechanical seal design, which is convenient for installation and replacement. Other types of mechanical seals are the choice of centrifugal pumps suitable for a variety of pumping applications.

We also use special ceramics and alloys for friction on high strength and hardness parts. The unique design and seamless fit between the mechanical seal and the sealed cavity provide excellent wear and impact properties, ensuring its effectiveness under the toughest conditions.

ZH clear water performance table

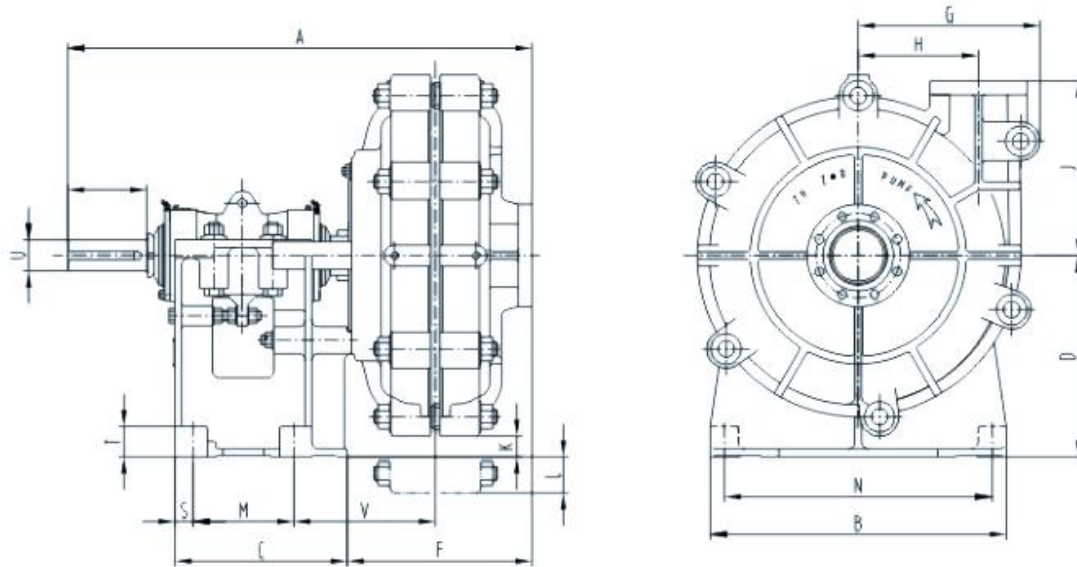
Model	Maximum motor power (KW)	Material		Clear water performance					
		Liner	Impeller	Capacity Q		Head	Speed	Efficiency	NPSH
				(m³/h)	(l/s)	(m)	(r/min)	η%	(m)
1.5/1C-ZH	30	M	M	16.2~34.2	4.5~9.5	25~92	1400~2200	20	2~5.5
3/2D-ZH	60	M	M	68.4~136.8	19~38	25~87	850~1400	47	3~7.5
4/3E-ZH	120	M	M	126~252	35~70	12~97	600~1400	50	2~5
6/4F-ZH	560	M	M	324~720	90~200	30~98	600~1000	64	3~8
8/6T-ZH	1200	M	M	576~1152	160~320	32~95	450~725	65	6~10

Among

them

For high density, strong abrasive slurry, the flow range is 40~80%;
For medium density, medium abrasive slurry, the flow range is 40~100%;
For low density, low abrasive slurry, the flow range is 40~120%.
For details, please refer to the bottom clear water performance table.

Outline drawing



Model	A	B	C	D	U	E	F	G	H	J	K	L	M	N	S	T	V	Suction flange				Discharge flange				The anchor hole	Weight (Kg)
																		O.D	I.D	HOLES	P.C.D	O.D	I.D	HOLES	P.C.D		
1.5/1C-ZH	759	406	311	254	42	121	306	270	194	254	/	11	175	356	32	48	252	152	38	4-ø17	114	152	25	4-ø17	114	4-ø19	318
3/2D-ZH	986	492	364	330	65	164	389	384	254	368	/	51	213	432	38	64	298	216	76	8-ø19	178	203	51	4-ø19	165	4-ø22	750
4/3E-ZH	1240	622	448	457	80	222	492	492	330	432	2	/	257	546	54	76	381	254	102	8-ø19	210	254	76	8-ø19	210	4-ø29	1250
6/4F-ZH	1556	857	635	610	100	279	584	616	413	546	26	/	349	762	95	98	470	337	152	8-ø22	292	305	102	8-ø22	260	4-ø35	2531
8/6T-ZH	2275	1150	1040	650	150	350	852	835	584	813	/	160	880	900	80	125	538	432	203	8-ø29	375	432	152	8-ø29	375	4-ø48	6586
6S-ZH	1700	920	780	450	120	280	622	625	415	615	/	155	640	760	70	90	382	380	152	8-ø27	320	420	150	8-ø27	360	4-ø35	3450

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