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ZG(H) Series Sand and Gravel Pump



ZG(H) series sand and gravel pump is a single-stage, single suction, cantilever, horizontal, centrifugal slurry pump, mainly used for conveying strong abrasive particles that are too big for general slurry pump to transport, such as granular coal, metal smelting slag and root crops, as well as for dredger, river dredging, mining and other fields. The pump is especially suitable for large flow quantity, high concentration, high head working conditions, and for transporting high temperature strong abrasive slurry owing to its excellent cavitation resistance and abrasion resistance.

Parameter

Caliber	40-200mm
Maximum flow quantity	5600m ³ /h
Maximum head	78m
Speed	400-1400r/min

Power	60-1400kw
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For details, please refer to the bottom clear water performance table.

Structural features

- 1. The high strength bracket and the simple bearing assembly adopt bolt fastening, which is easy to install and dismount, as well as to adjust the impeller clearance.**
- 2. The outlet can be installed at any angle, so it is easy for maintenance.**
- 3. Packing seal and auxiliary impeller seal are optional for customers according to different needs.**
- 4. The pump body, impeller, front and rear guard plates and other flow parts are made of high Cr abrasion-resistant alloy material, to ensure the long service life.**
- 5. The design of single pump shell and wide runner ensures the smooth passing of large particles, and strong anti-cavitation and anti-abrasion ability.**

Application

Gravel pump has superior performance than common pumps in dredging, sand mining, barge loading and mineral processing etc. Compared with slurry pump, Gravel Pump can transfer big particle size sand with the wide channel,(max solid 254mm)

- 1. Sand sucking pump are designed for continuously handling the most difficult higher abrasive slurries which contain too big solids to be pumped by a common pump.**
- 2. Suitable for dredging, mining and metal smelting blast slag delivery, etc**
- 3. Dredge suck in the sand reclamation**
- 4. Absorb the sand in the river, lake and sea.**
- 5. Absorb the silt and sand in the reservoir, electric power plant .**
- 6. Absorb the slurry of stone processing plant.**

7.Delivery of slurry with strong abrasion high concentration for metallurgy, mines, coal

Model	Maximum motor power (KW)	Clear water performance					
		Flow quantity Q(m³/h)	Head H(m)	Speed n(r/min)	Efficiency η%	net positive suction head NPSH(m)	Minimum dimension of flow section (mm)
6/4D-ZG	60	300	45	1400	58	4	82
8/6E-ZG	120	500	37	1400	60	3.5	127
10/8F-ZG	260	950	43	1000	65	8	178
10/8S-ZG	560	950	43	1000	65	8	178
12/10G-ZG	600	1530	52	850	65	9	220
14/12G-ZG	600	1700	65	700	73	5	241
18/16T-ZG	1200	3300	40	500	72	6.3	254
20/18H-ZG	1400	4300	39	400	66	8	330
24/20H-ZG	1400	5600	57	400	70	7	380
8/6S-ZGH	560	880	78	1100	71	4.8	140
10/8S-ZGH	560	1300	70	950	72	5	180
12/10G-ZGH	600	2220	67	700	73	8.2	210
16/14TU-ZGH	1200	3050	59	500	72	6.5	230

Model	A	B	C	D	E	F	G	E2	D2	G2	H	V	Y	I	M	N	P	Q	R	T	U	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		
6/4D-ZG	1006	492	432	213	38	75	289	/	/	/	54	330	164	65	203	260	330	343	33	16	/	305	152	8-ø19	260	254	102	4-ø19	210	4-ø22	460
8/6E-ZG	1286	622	546	257	54	83	365	/	/	/	75	392	222	80	295	352	457	405	29	54	/	368	203	8-ø19	324	305	152	8-ø19	260	4-ø29	1120
10/8F-ZG	1591	857	762	349	45	45	540	/	/	/	98	487	281	100	330	416	610	533	48	60	/	457	254	8-ø22	406	368	203	8-ø19	324	4-ø35	2250
10/8S-ZG	1720	920	760	/	/	/	/	70	640	780	90	378	280	120	330	416	450	533	48	/	102	457	254	8-ø22	406	368	203	8-ø19	324	4-ø35	2285
12/10G-ZG	2010	1207	851	/	/	/	/	64	749	876	152	473	356	140	368	522	851	665	48	238	/	527	305	12-ø22	470	457	254	8-ø22	406	4-ø41	4450
14/12G-ZG	2096	1207	851	/	/	/	/	64	749	876	152	502	356	140	424	610	851	787	48	121	/	552	356	8-ø22	495	527	305	12-ø22	470	4-ø41	5400
18/16T-ZG	2320	1150	900	/	/	/	/	80	880	1041	125	607	350	150	431	692	650	914	58	/	274	705	457	16-ø25	641	640	406	12-ø25	584	4-ø48	11370
10/8S-ZGH	1774	920	760	/	/	/	/	70	640	780	90	455	280	120	330	475	450	620	48	/	206	457	254	8-ø22	406	368	203	8-ø19	324	4-ø35	3188
12/10G-ZGH	2062	1219	851	/	/	/	/	64	749	876	152	496	356	140	400	605	851	800	60	40	/	533	305	8-ø29	476	483	254	8-ø25	432	4-ø41	4638
16/14TU-ZGH	2367	1460	1200	/	/	/	/	95	860	1050	150	649	350	150	448	765	900	1008	72	/	120	650	405	12-ø28	600	600	356	12-ø28	540	4-ø79	12247

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