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ZWN(Q) Series Dredge Pump



The ZWN(Q) **dredge pump** is horizontal, single-stage, cantilevered structure which is designed to meet the requirement of the contractor demanding and comprehensive dredging requirement. The **horizontal froth pumps** have excellent wear resistance and high efficiency, easy to maintain and improve the output of the operation. As a **dredge pump supplier**, we offer the pump with discharge from 200mm to 500mm is single casing, and discharge from 600mm to 1000mm is double casing.

Pump Range:

Parameter

Caliber	300-1000mm
Maximum flow quantity	25000m ³ /h
Maximum head	78m
Speed	180-550r/min

For details, please refer to the bottom clear water performance table.

Typical Application:

- (1) Dredging
- (2) Coarse Sand
- (3) Oil Sand
- (4) Sugar
- (5) Paper & Pulp

Features

1. Available with only one impeller, the ZWN(Q) series **Heavy duty submersible dredging pumps** sucks up slurries containing sand and silt from one suction side. It is in essential a horizontal cantilever **dredging Pumps**.
2. The single-casing **dredging Pumps** comes with a discharge outlet that ranges from 300mm to 500mm in diameter, while the double-casing model has a discharge outlet with diameter somewhere between 600mm and 1000mm.
3. Options of shaft seal: packing seal, mechanical seal, a combination of the first two (for single-casing models), and helix L rubber seal (for double-casing pumps).

Advantages

1. The physical layout of this **dredge pump for mining** allows easy installation and use on the dredger. Simplified structure also delivers reliability.
2. For **dredging pumps** with large-diameter discharge outlets, we utilize a double-casing design that allows the internal liners to be completely worn out before replacement is needed. This design also prevents water from entering even when the liners are broken.

3. Front disassembly allows easy repair and maintenance.
4. The impeller is threaded onto the pump shaft via the 4-starts acme screw thread. This way of joint allows not only transmission of large torque but also easy installation and disassembly. The sleeve O-ring makes it easy for users to dismantle the impeller from the shaft.

Hydraulic

Modeling

1. A steep-curve pump is desirable for pumping sediments to a wide range of distances. The pump curve describes the relation between flow rate and head.
2. Advanced hydraulic model minimizes head loss, further ensuring high efficiency and low power consumption.
3. Reliable shaft seal allows the **dredge pump for mining** to be 100% leak-proof.
4. Optimal cavitation performance gives the single-suction **dredging pump** a great ability to draw up sediments from a deeper depth with higher solids concentration.
5. Specially designed vanes create wide flow passages which allow the dredger to scoop up gravel, sand, or high-plasticity clays continuously without causing clogging.
6. Wet-end parts are made from alloy cast iron of high wear resistance, which ensures the best service life possible.

Performance parameters

Model	Capacity (m3/h)	Head (m)	Speed n(r/min)	Efficiency (%)	NPSH r(m)	Inlet Diameter (mm)	Outlet Diameter (mm)	Maximum diameter of flow particle (mm)
300ZWN	1800~2200	40~65	400~550	74~78	<4	420	300	241
450ZWN	3200~4000	40~70	350~510	76~78	<4.5	600	450	240
500ZWN	4500~5500	40~75	350~460	78~80	<4.8	650	500	240
600ZWN	7000~9000	52~68	450~490	82~84	<4	700	600	250
600ZWNQ	7000~8000	23~30	360~400	82~84	<4	700	600	250
650ZWN	8000~9500	55~65	300~350	76~78	<4.5	700	650	260
650ZWNQ	8000~9500	20~27	300~350	80~85	<4.5	700	650	260
700ZWN	8000~11000	46~70	320~380	80~85	<3.5	760	700	280
700ZWNQ	8000~11000	17~24	240~280	81~84	<3.5	766	700	280
800ZWN	12500~14000	56~70	330~380	80~85	<4	800	750	300
800ZWNQ	12500~14000	24~35	230~260	80~85	<4	800	750	300
850ZWN	14000~18000	62~71	250~330	80~85	<4.5	900	850	330
900ZWN	15000~18000	30~72	226~292	75~80	<5	900	756	320
1000ZWN	20000~28000	21~80	181~290	76~88	<5	1200	1020	350

All dimensions are in millimeters (mm)

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