

ДРЕНАЖНЫЕ НАСОСЫ WN(D)



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ДРЕНАЖНЫЕ НАСОСЫ WN(D)



WN(D) series of dredge pump is a kind of new type dredging pump developed by our company using various advanced computer aided design software, aiming at the current situation of dilapidated, dredging and reclamation of rivers and lakes.

This serie of dredge pumps has features as follows:excellent performance, long life, high efficiency, reliable shaft seal, considerable economic benefits, and so on.Which allows it to completely meet the needs of customers, also pass the CCS China Classification Society ship inspection.

Performance and structural characteristics

1. The Good applicability of ship

The structure is simple and reliable

200WN ~ 500WN dredge pump using a whole single pump shell, single-stage single-suction structure, according to the connection with the gear box can provide two typical structure, that is, comes with bracket and pump box combined. Bracket-type lubrication comes with grease lubrication or thin oil lubrication.

600WN ~ 1000WN dredge pump using whole double pump shell, single-stage single-suction cantilever horizontal structure, comes with brackets, forced oil lubrication. The double pump casing can make sure that the volute t can be used until close to wear, and the pump chamber will not enter the water when the volute is broken.

Easy disassembly, easy maintenance

WN-type dredging pump used front demolition structure, easy disassembly, maintenance; at the same time offer special tools for disassembly of various components

Impeller and shaft use four-headed trapezoidal screw connection, can pass a strong torque, and easy disassembly at the same time, there is an impeller removal ring on sleeve to removal the impeller easily

2. Excellent dredging performance

Cavitation performance is good

WN-type dredging pump has a good cavitation performance to ensure bigger suction ability, while achieving greater dug depth and higher respirable concentrations.

Good pass capacity, wide applicability

WN-type impeller flow channel is width, can, continuously pump gravel or high plastic clay without clogging.

The performance curve drops abruptly

Make sure the pumping distance has adaptability.

The pump performance can be a variety of deployment

WN-type pump can change the impeller speed, or change the diameter of the pump impeller to achieve the same flow pump with head changes.

3. Good wear resistance, long using life wet parts

Impeller, volute , front and back liner (wear-resisting lining) using anti-wear alloy cast iron with hardness of not less than 58HRC, have strong impact resistance and of anti-wear properties; The company successfully developed A31 material, hardness can reach 70HRC.

In the product design process, the service life of all the parts is matched with each other, and the replacement period of wear-resistant parts is basically the same, which reduces the maintenance and replacement cost.

4. Water loss is small, high efficiency, low power consumption

Due to the use of advanced hydraulic models, the efficiency of the pump is high. WN-type pump efficiency is 2 to 3 percentage points higher than the average level. In this way, at the same using condition , you can get lower fuel consumption.

5. Shaft seal is reliable and no leakage

200WN ~ 500WN dredge pump shaft seal using mechanical seal ,packing seal or mechanical seal plus packing compound seal.

600WN ~ 1000WN dredge pump shaft seal using screw-type L-shaped rubber seal device, the seal device include three L-shaped ring and a special thread with the sleeve composition.

Slurry Pump



Casing

Casing halves of cast or ductile iron provide high operating pressure capabilities.



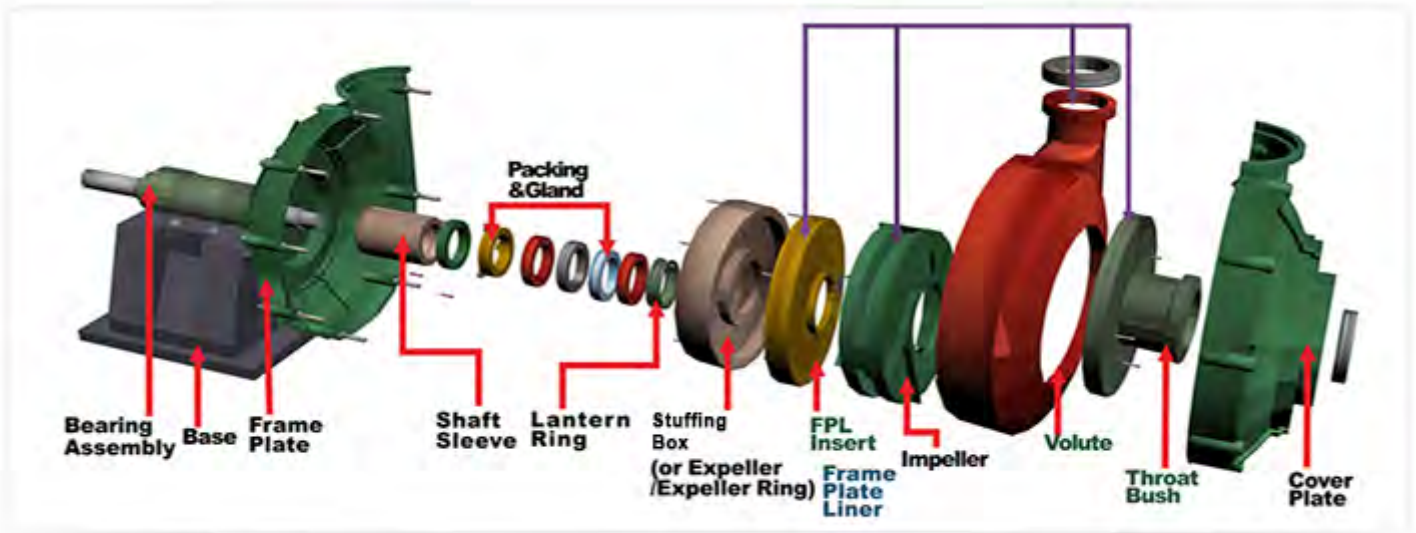
Wet Parts

Inner liner & Impeller material is A05, high-chromium alloy 27, excellent wear-resistance to strong abrasive.



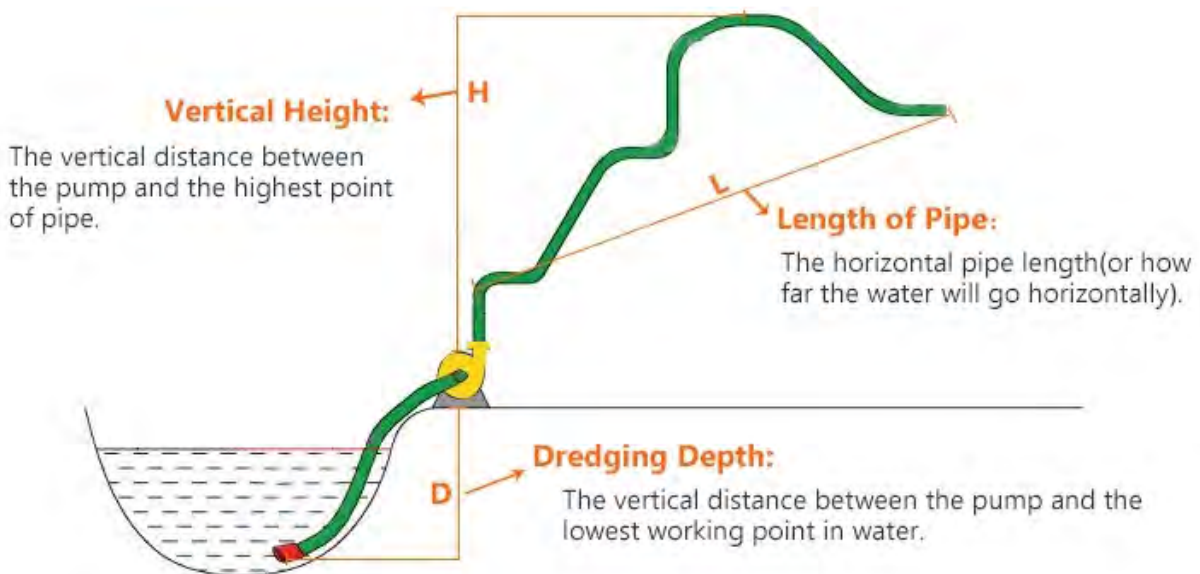
Multiple Driving System

DCZ driven, CR driven, CLZ driven, ZVZ driven, CV driven as per request.



Type	Capacity(m ³ /h)	Head(m)	Speed(r/min)	Efficiency(%)	NPSHr(m)	Max. Diameter of Flowed Partic(mm)
100WN	180-250	25-45	1000-1400	50-58	<3.5	82
150WND	400-550	20-40	1200-1400	58-60	<4	127
150WN	500-700	40-65	800-980	68-71	<3.5	140
200WND	600-800	20-40	700-900	60-65	< 4.5	178
200WN	750-1000	40-65	700-850	70-72	< 4	180
250WND	950-1100	20-40	500-700	65-70	< 4	220
250WN	1100-1300	40-65	500-650	70-74	< 4	144
300WND	1500-1800	20-40	400-600	65-68	< 4	241
300WN	1800-2200	40-65	400-550	74-78	< 4	241
350WN	2600-3000	40-65	400-550	74-78	< 4.5	245
400WN	2800-3200	20-40	400-550	74-78	< 4.5	250
450WN	3200-3850	40-67	350-500	76-80	< 4.5	354
500WND	3600-4200	20-40	220-320	72-75	< 4.8	330
500WN	4500-5500	40-65	350-450	78-80	< 4.8	250
600WN	5000-9000	55-80	280-420	81-85	< 6	220
700WN	8000-12000	60-85	280-380	83-85	< 6	280
850WN	12000-16000	23-35	180-250	84-87	< 6	350
1200WN	18000-22000	30-40	120-140	82-85	< 6	320

It can transfer the water with solids, particles such as **sand, quartz, cinder, iron slag, stone, limestone, etc.**, and the diameter of the particles can reach up to **135mm**.





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