



CRIMAR INDUSTRIAL

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Series WN Dredging Pump



Explanation of Type:

Sample, 500WND:

500: Diameter of Discharge

WN: Dredging Pump

D: Low Head

Features:

1. Structure suitable for dredging ship:

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The structure of 200WN-500WN type pumps are single-casing, single-stage, single-suction, cantilever and horizontal. According to the connection with the gear box, two structures can be offered: self-carrying bracket and pump-box assembly. The lubrication for the bracket is grease or thin oil.

The structure of 600WN-1000WN type pumps are double-casing, single-stage, single suction, cantilever and horizontal. It has self-carrying bracket. Lubrication is forced thin oil lubricating. The double-casing design can ensure the liner can work till it is worn out, and if the liner crack, water can not enter into the pump.

2. Easy to Disassembly and Installation, Convenient Maintenance:

WN type pump adopts front-disassembly structure in favor of easy disassembly and maintenance. Also it is equipped with special disassembly tools for each different part according to each part’s features.

The standard trapezoidal quadruple thread is adopted to connect the impeller and shaft, which not only transmits strong torque but also is easy to disassembly.

3. Good Performance on NPSH:

The good NPSH performance of WN type pump ensures the strong suction ability as well as deeper dredging depth and denser dredging concentration.

4. Good Wear-resistant Performance, Long Service Time of Wet Parts:

Wet parts of this kind of dredging pump-impeller, liner and front & back liner plate are adapted anti-wear cast iron alloy whose hardness is more than 58HRC, who has both strong anti-attack feature and higher resistance wear and resistance abrasion features. The hardness of A31 material that is researched and tested successfully by Kingda can research 70HRC.

5. Reliable Shaft Sealing Without Leakage:

The shaft of 200-500WN dredging pump uses the mechanical sealing or stuffing sealing or mechanical-stuffing compound sealing.

The shaft of 600-1000 WN dredging pump adopts spiral sleeve L (shape) rubber sealing device that consists of three L sealing ring and one special thread shaft sleeve.

Technical Parameter Table

Type	Flow Capacity (m3/h)	Head (m)	Speed r/min	Efficiency %	NPSHR m	Suction Diameter (mm)	Discharge Diameter (mm)	Max Diameter of Grain (mm)
200WND	600-800	20-40	700-900	60-65	<4.5	250	200	178
200WN	750-1000	40-65	700-850	70-72	<4	250	200	180
250WND	950-1100	20-40	500-700	65-70	<4	300	250	220
250WN	1100-1300	40-65	500-650	70-74	<4	350	250	144
300WND	1500-1800	20-40	400-600	65-68	<4	350	300	241
300WN	1800-2200	40-65	400-550	74-78	<4	450	300	241
350WN	2600-3000	40-65	400-550	74-78	<4.5	450	350	245

400WN	2800-3200	20-40	400-550	74-78	<4.5	450	400	250
450WN	3200-3850	40-67	350-500	76-80	<4.5	600	450	354
500WND	3600-4200	20-40	220-320	72-75	<4.8	600	500	330
500WN	4500-5500	40-65	350-450	78-80	<4.8	650	500	250
600WN	5000-9000	55-80	280-420	81-85	<6	660	600	220
700WN	8000-12000	60-85	280-380	83-85	<6	760	700	280
900WN	12000-19000	50-75	280-330	85-87	<6	960	900	320
1000WN	16000-25000	23-76	181-290	85-87	<6	1200	1000	350

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