

Submersible Powerful Agitator Pumps

NHS Series

#Durability / #MotorCoolingFeature / #Agitation&JetFlow



NHS-650A-JC



NHS-650A-A

- Water, containing sand, pebbles, gravels, and sediments, is well transferred by NHS series pumps.
- There are two types of pumps: agitator type and jet flow agitation type. It is possible to achieve powerful and effective dewatering by NHS series pumps.
- Sub-code -C/AC/JC is equipped with a cooling jacket as the standard. The series pumps are durable to be operated continuously at the water level even just below the position of the motor.

*For the sub-code information, please refer to Example 3 on page 3.

Applications

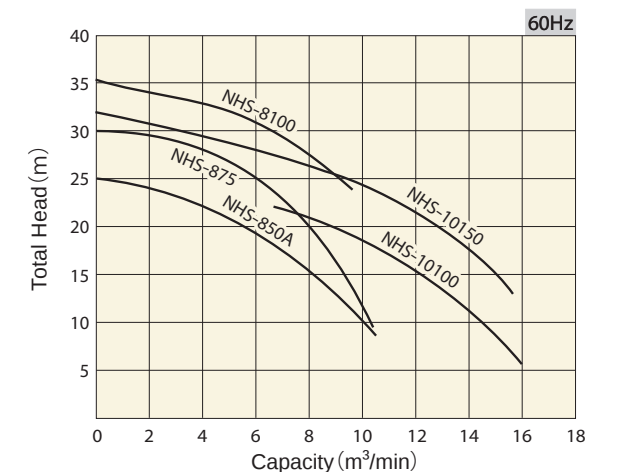
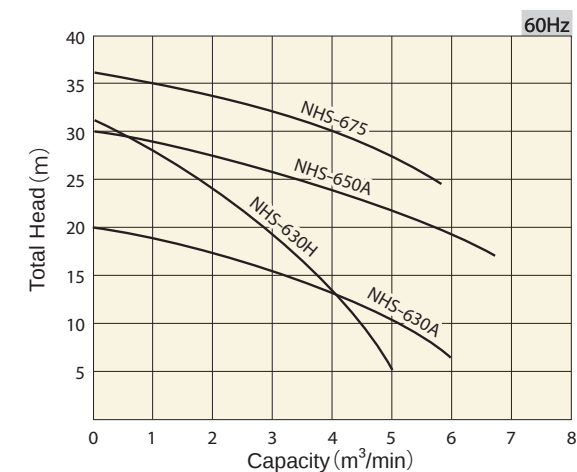
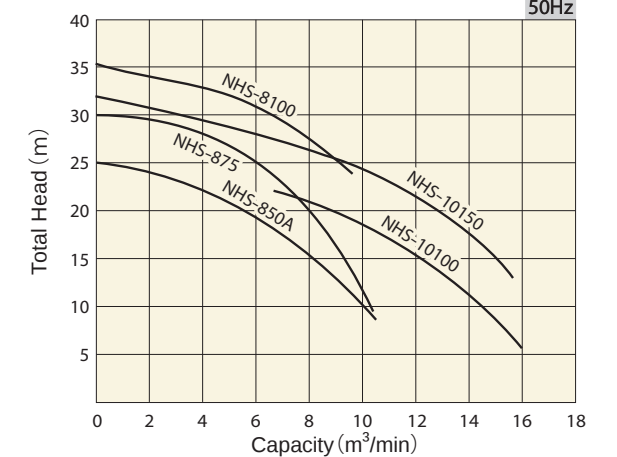
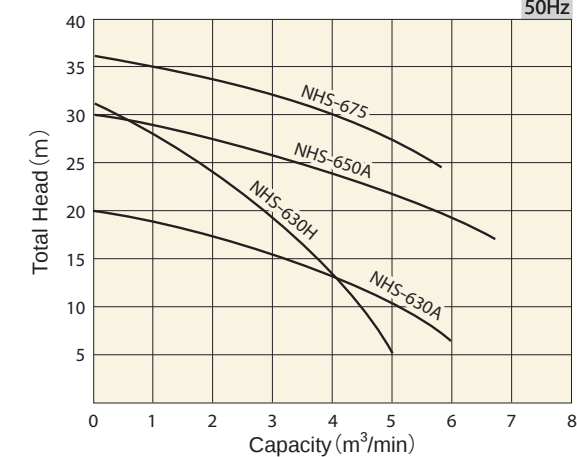
- Dewatering on construction sites
- Pumping sands, gravels and rocks notably in dredging industry
- Collection of sands, pebbles, and gravels in water
- Removal of mill scales and sediments in water
- Dredging work on marine and river construction sites
- Drainage of water with solids
- Pumping in high depths and special foundations
- Drainage of muddy water, sands, gravels in mines
- Removal of water or slurry out of trenches, agitation and pumping water

Main Specifications

Discharge Diameter (mm)		150	150	150	200	150	200	200	250	250
Pump Models		NHS-630H	NHS-630A	NHS-650A	NHS-850A	NHS-675	NHS-875	NHS-8100	NHS-10100	NHS-10150
Motor Output (kW)		22	22	37	37	55	55	75	75	110
Medium	Type	Spring Water / Muddy Water								
	Temperature	Max 40 Degrees Celsius								
Pump	Shaft Seal	Double Type Mechanical Seal								
	Shaft Bearing	Sealed Ball Bearing	Duplex Ball Bearing							
	Impeller	High Chrome								
	Casing	*FCD								
	Type/Pole	Dry Type Induction Motor / 4pole	Dry Type Induction Motor / 6pole						Dry Type Induction Motor / 6pole(50HZ) 8pole(60Hz)	
Motor	Insulation Class	F								
	Protector	Miniature Thermal Protector + Infiltrative Water Detector								
	Frame	*FC								
	Shaft	Stainless Steel								
Discharge Type		Flange								
Agitator		●	●	●	●	●	●	●	●	●
Jet Flow		●	●	●	●	●	●	●	●	●
Cooling Jacket		●	●	●	●	●	●	●	●	●

*FCD : Ductile Cast Iron / FC : Cast Iron

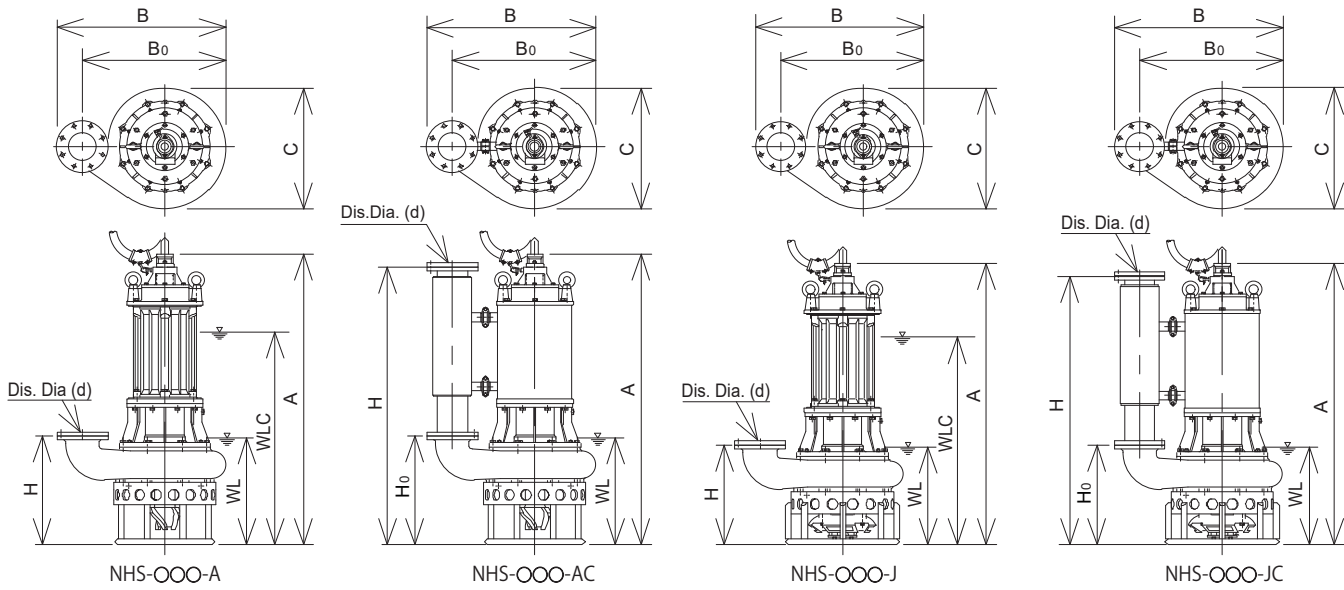
Performance Curve



Specifications

Discharge Diameter (mm)	Pump Models	Motor Output (kW)	Total Head (m)	Capacity (m³/min)	Starting	Max Solid Through (mm)	Weight (kg) *Without Cable	Cable Cable (m)
150	NHS-630H -C -A -AC	22	18	3.2	DOL	40	430	10
							535	
							435	
							540	
150	NHS-630A -A -AC -J -JC	22	15	3.2	DOL	60	590	10
							680	
							620	
							710	
150	NHS-650A -A -AC -J -JC	37	25	3.2	Star Delta	60	740	10
							855	
							785	
							930	
200	NHS-850A -A -AC -J -JC	37	19	6	Star Delta	60	785	10
							945	
							815	
							975	
150	NHS-675 J JC	55	31	3.2	Star Delta	60	870	10
200	NHS-875 J JC	55	25	6	Star Delta	60	915	10
200	NHS-8100 J JC	75	31	6	Star Delta	60	1,075	10
200	NHS-8100 J JC	75	31	6	Star Delta	60	2,200	10
250	NHS-10100 J JC	75	15	12	Star Delta	80	2,360	10
250	NHS-10100 J JC	75	15	12	Star Delta	80	2,700	10
250	NHS-10150 J JC	110	22	12	Star Delta	80	2,900	10
250	NHS-10150 J JC	110	22	12	Star Delta	80	3,500	10
250	NHS-10150 J JC	110	22	12	Star Delta	80	3,700	10

*-A Agitator -AC Agitator + Cooling Jacket
-C Cooling Jacket -JC Jet Flow + Cooling Jacket
-J Jet Flow

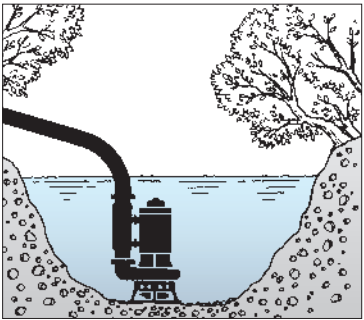


◆ External Diagrams (mm)

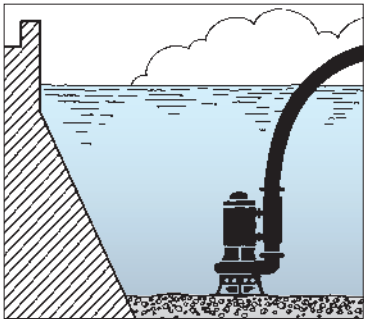
Pump Models	d	H	H ₀	A	B	B ₀	C	WL	WLC
NHS-630H	150	410	—	1,053	764	624	525	350	800
	-C	150	1,040	410	1,053	764	525	350	—
	-A	150	410	—	1,053	764	525	350	800
	-AC	150	1,040	410	1,053	764	525	350	—
NHS-630A	150	507	—	1,331	842	702	624	500	1,000
	-A	150	507	—	1,331	842	624	500	—
	-AC	150	1,308	507	1,331	842	624	500	—
	-J	150	507	—	1,331	845	705	500	1,000
NHS-650A	150	1,308	507	1,331	845	705	640	500	—
	-JC	150	1,308	507	1,331	845	705	500	—
	-A	150	600	—	1,602	931	791	669	590
	-AC	150	1,531	600	1,602	931	791	669	590
NHS-850A	150	550	—	1,552	931	791	669	540	1,050
	-JC	150	1,481	550	1,552	931	791	669	540
	-A	200	600	—	1,602	1,052	887	788	590
	-AC	200	1,531	600	1,602	1,052	887	788	590
NHS-875	200	550	—	1,552	1,052	887	788	540	1,050
	-JC	200	1,481	550	1,552	1,052	887	788	540
	-A	150	550	—	1,725	931	791	669	540
	-JC	150	1,701	550	1,725	931	791	669	540
NHS-8100	200	550	—	1,725	1,052	887	788	540	1,240
	-JC	200	1,701	1,541	1,725	1,052	887	788	540
	-A	200	655	—	1,930	1,192	1,027	913	645
	-JC	200	1,886	655	1,930	1,192	1,027	913	645
NHS-10100	250	760	—	2,020	1,241	1,041	941	730	1,505
	-JC	250	1,976	760	2,020	1,241	1,041	941	730
	-A	250	760	—	2,020	1,241	1,041	941	730
	-JC	250	1,976	760	1,965	1,231	1,041	941	750

WL : Pump Starting Level WLC : Lowest Level at Continuous Running

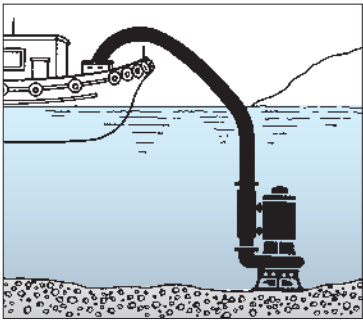
◆ Application Example



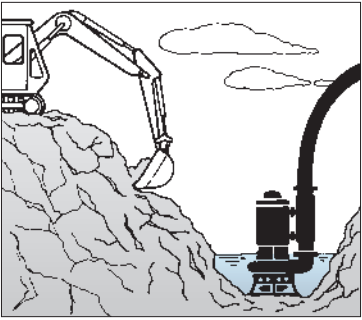
Sediments transferring in a tank, pond, river, or mining etc.



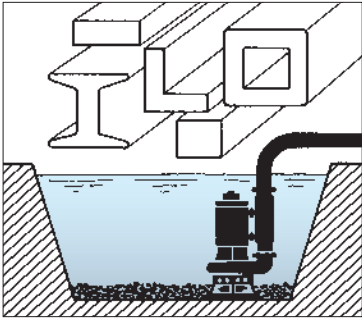
Pumping of sediments, sands, and scraps in a dam or river.



Pumping of sands and sediments at a port or drydock.



Transferring of mud or sands at a construction site.



Scale removing at an ironworks, or steelworks.

For Quarry Applications



NHS-650A-A