



Ni-HARD

series submersible pumps

Versatile, really robust and definitely mobile



We move SOLIDS



MBH[®]
PUMPS



The Ni-HARD series submersible pumps for rugged usage

Slurry revival is an essential part of day-to-day operations in a wide range of industries, such as mining, ore dressing, sand contracting, ash handling and steel milling. The applications in these industries make heavy demands on slurry pumps, particularly in terms of the cost incurred when it comes to wear and tear, repairs and maintenance. In Ni-Hard series of pumps the wet end, indeed all wear parts, are made of Ni-hard which provides complete wear protection.

Unique Features

Pump end

- NI-Hard Wetted parts (extremely wear and corrosion resistant)
- Wear plate - Impeller adjustment system (for longterm clearance management)
- Open impeller for maximum solid passage
- Casted agitator that breaks down and re-suspends settled or compacted solids.

Motor speciality

- H class insulation
- Moisture sensors & over heating protection
- Reverse rotation & dry running protection
- Single phase preventer
- High torque for solid handling upto 40 mm

Capacities

- Maximum head : 50 m head
- Maximum flow : 420 m³/hour
- Maximum solid content by weight : 65%
- Maximum specific gravity : 2.8 kg/l
- Maximum particle size : 40 mm

Plan your monsoon ahead of time with MBH dewatering pumps. We have mobile multipurpose pumps that go to work at local utilities, residential area, industries, construction and tunneling, mining for any emergency dewatering.

Higher pump efficiency over time

State-of-the-art technology makes MBH NI-HARD series pumps extremely efficient & highly dependable. Innovative features such as the unique adjusting Impeller clearance system provides low cost of ownership.

Less downtime

The excellent Solid handling capability of our channel-impeller pumps guarantees maximum operating time and substantial reductions in maintenance costs caused by pump jamming or clogging.

Lifelong reliability

The NI-HARD series pumps are designed for continuous pumping under the most difficult operating conditions. The well-proven design is based on our long experience in the waste water and slurry related industries.

Application

- Fly Ash
- Dredging & Thick mud
- Lime Slurry
- Coal dust, coke pits
- Mine dewatering
- Sand and gravels excavation
- Ocean sand mining
- Silt removal
- Mill scale
- Coal washery



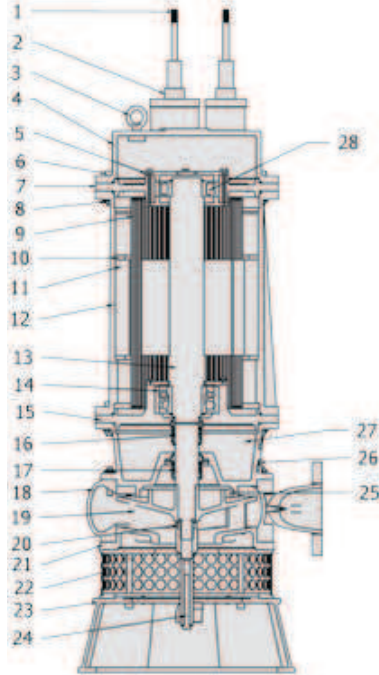
specifications and performance are subject to change without prior notice.

MBH[®] PUMPS

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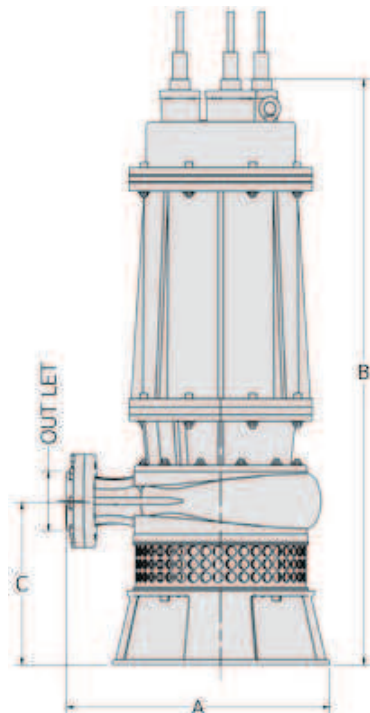
Cross Section



NO.	DESCRIPTION	MATERIAL
1	CABLE	PVC.INSU. SHEATHED
2	GLAND COVER	C.I. IS-210FG260
3	EYE BOLT	S.S.
4	TOP COVER	C.I. IS-210FG260
5	BEARING COVER	C.I. IS-210FG260
6	HEX BOLT	S.S.
7	TOP BRG, COVER	C.I. IS-210 FG260
8	HEX NUT	S.S.
9	WINDING	COPPER
10	END RING	M.S.
11	STATOR STAMPING	M-47
12	STATOR BODY	C.I. IS-210 FG260
13	ROTOR SHAFT	S.S. 410
14	BALL BEARING (D.E.)	STD. MAKE
15	OIL CHAMBER	C.I. IS-210 FG260

NO.	DESCRIPTION	MATERIAL
16	MECH. SEAL UPPER	CR./S.S.
17	MECH. SEAL LOWER	SIC/SIC.
18	VOLUTE	NI. HARD
19	IMPELLER	NI. HARD
20	IMPELLER NUT	S.S.
21	SPIRAL PALTE (WEAR PLATE)	NI. HARD
22	STRAINER	S.S.
23	PUMP STAND	M.S.
24	CUTTUR	S.S.
25	NECK RING	S.S.
26	OIL PLUG	S.S.
27	OIL	HYLUBE MILCY Gr, 40
28	BALL BEARING (N.D.E.)	STD. MAKE

GA Drawing



All Dimension are in mm

MODEL	DEL	HP	A	B	C	Outlet	Weight in KG.
4NSS10S4A Handy	100	10	500	1001	300	100	210
4NSS15S4A Junior	100	15	500	1066	300	100	230
4NSS20S4A Maximo	100	20	500	1107	300	100	325
4NSS30S4A Maximo XI	100	30	590	1312	370	100	355
4NSS40S4A Terminator	100	40	610	1330	375	100	590
4NSS40S4B Terminator H	100	40	610	1330	375	100	590
4NSS50S4A Commando	100	50	610	1330	375	100	625
4NSS60S4A Destroyer	100	60	610	1390	375	100	640
4NSS40S6A Terminator M	150	40	597	1445	380	150	590
4NSS50S6A Commando M	150	50	597	1445	380	150	625
4NSS60S6A Destroyer	150	60	597	1505	380	150	640
4NSS75S6A Destroyer XI	150	75	652	1452	392	150	650
4NSS85S6A Finisher	150	85	652	1486	392	150	725

MODEL IDENTIFICATION

Example : PUMP MODEL 4NSS10S4A

4	NS	S	10	S	4	A
No. of Poles	Slurry Pump	M.O.C of Pump - Ni HARD	HP	M.O.C of Impeller - Ni HARD	Outlet - 4"	Type

Performance Chart • 1440 RPM

MODEL	HP	Del. Size mm	HEAD IN METERS																									
			4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38								
4NSS10S4A Handy	10	100	124	111	99	90	78	65	46	28	0																	
4NSS15S4A Junior	15	100	138	126	114	102	96	90	78	60	51	33	0															
4NSS20S4A Maximo	20	100		154	144	132	120	111	107	97	81	66	56	39	15	0												
4NSS30S4A Maximo XI	30	100			161	159	156	150	141	123	102	81	36															
4NSS40S4A Terminator	40	100				177	174	179	171	166	161	153	144	129	107	89	60	30										
4NSS40S4B Terminator H	40	100							180	171	162	155	145	130	105	100	80	72	60	48	0							
4NSS50S4A Commando	50	100								192	189	189	186	184	180	174	168	159	132	114	96	66	33					
4NSS60S4A Destroyer	60	100										203	202	200	198	196	192	189	184	175	167	154	141	123	103	69	35	
4NSS40S6A Terminator M	40	150											295	257	224	193	157	123	85	49								
4NSS50S6A Commando M	50	150													294	257	228	207	189	132	90	82	48					
4NSS60S6A Destroyer	60	150														318	282	252	231	204	138	120	108	78	60			
4NSS75S6A Destroyer XI	70	150															330	300	288	255	240	192	180	132	102	75		
4NSS85S6A Finisher	85	150																360	348	336	330	315	270	234	165	132	93	60

SPECIFICATIONS

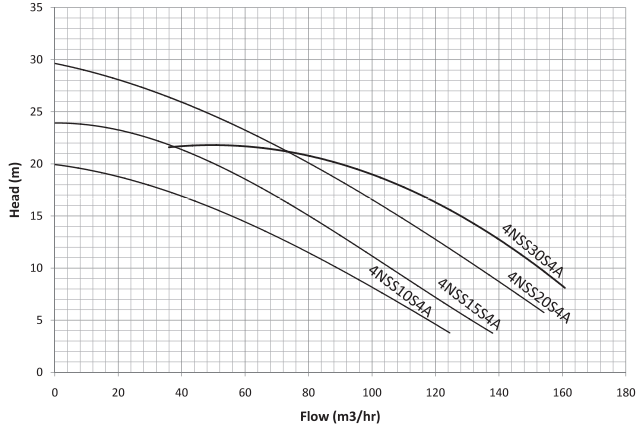
MODEL	4NSS10S4A	4NSS15S4A	4NSS20S4A	4NSS30S4A	4NSS40S4A	4NSS40S4B	4NSS40S6A
	Handy	Junior	Maximo	Maximo XL	Terminator	Terminator H	Terminator M
Power	7.5 kw / 10 HP	11 kw / 15 HP	15 kw / 20 HP	22 kw / 30 HP	30 kw / 40 HP	30 kw / 40 HP	30 kw / 40 HP
Speed	1450	1450	1450	1450	1450	1450	1450
Max solid content	50%	60%	60%	60%	60%	60%	60%
Max specific gravity kg/L	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Max particle size	34 mm	34 mm	34 mm	38 mm	38 mm	38 mm	38 mm
Max slurry temperature	90 c	90 c	90 c	90 c	90 c	90 c	90 c
Max flow m ³ /hr - Qmax	105 m ³ /hr	130 m ³ /hr	145 m ³ /hr	185 m ³ /hr	200 m ³ /hr	180 m ³ /hr	300 m ³ /hr
max head - Hmax	14 m	24 m	28 m	24 m	30 m	38 m	22 m
Max efficiency Duty point	8 m	18 m	20 m	20 m	18 m	26 m	16 m
Max submergence depth	28 m	28 m	28 m	28 m	28 m	28 m	28 m
Cable length	10 m	10 m	10 m	10 m	10 m	10 m	10 m

MODEL	4NSS50S4A	4NSS50S6A	4NSS60S4A	4NSS60S6A	4NSS70S6A	4NSS85S6A
	Commando	Commando M	Destroyer	Destroyer	Destroyer XL	Finisher
Power	37 kw / 50 HP	37 kw / 50 HP	44.5 kw / 60 HP	44.5 kw / 60 HP	52 kw / 70 HP	63 kw / 85 HP
Speed	1450	1450	1450	1450	1450	1450
Max solid content	60%	60%	60%	60%	60%	60%
Max specific gravity kg/L	2.4	2.4	2.4	2.4	2.4	2.4
Max particle size	38 mm	38 mm	45 mm	45 mm	45 mm	45 mm
Max slurry temperature	90 c	90 c	90 c	90 c	90 c	90 c
Max flow m ³ /hr - Qmax	200 m ³ /hr	192 m ³ /hr	205 m ³ /hr	320 m ³ /hr	330 m ³ /hr	359 m ³ /hr
max head - Hmax	24 m	32 m	28 m	30 m	30 m	32 m
Max efficiency Duty point	20 m	22 m	22 m	22 m	20 m	22 m
Max submergence depth	28 m	28 m	28 m	28 m	28 m	28 m
Cable length	10 m	10 m	10 m	10 m	10 m	10 m

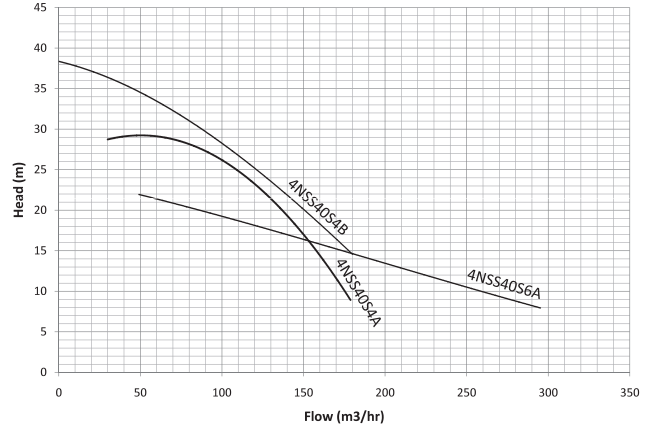
Ni-HARD Series Submersible Pumps

Performance Curves • 1440 RPM (400/440 V, 3 Phase, 50 Hz, A.C. Supply)

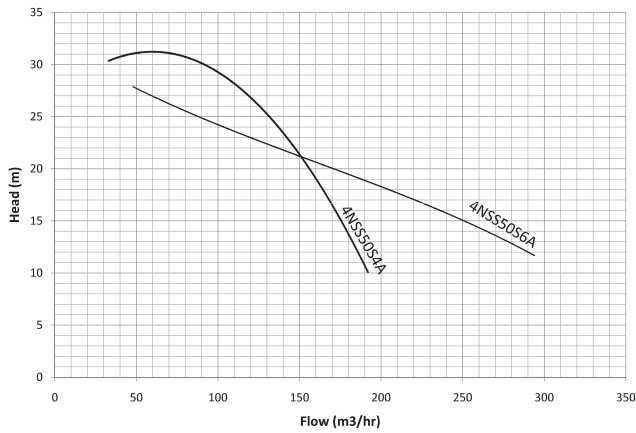
10 HP, 15 HP, 20 HP, 30 HP



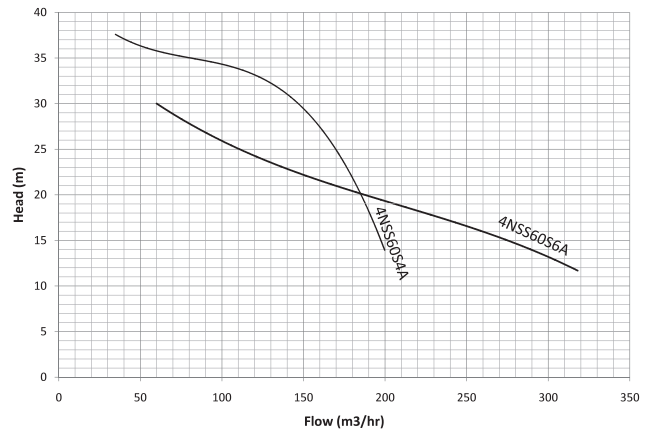
40 HP



50 HP



60 HP



70 HP, 85 HP

