

Описание на центробежные насосы со спиральным рабочим колесом. Серия НМ

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HM

Horizontal Mixed-Flow Pump



NANFANG PUMP INDUSTRY CO., LTD.

Application

- Irrigation and drainage
- Industrial and urban drainage
- Sewage transport
- Drainage
- Lake desilting and drainage
- Sand river water transportation

Performance Range

- Capacity: Q Up to 6000m³/h (26420 gpm)
- Head: H Up to 30m (98 feet)
- Temperature: T Up to 80°C (176°F)
- Speed: n 2900/1850/1450/1360/1060rpm
980/870/780/740/590/490rpm

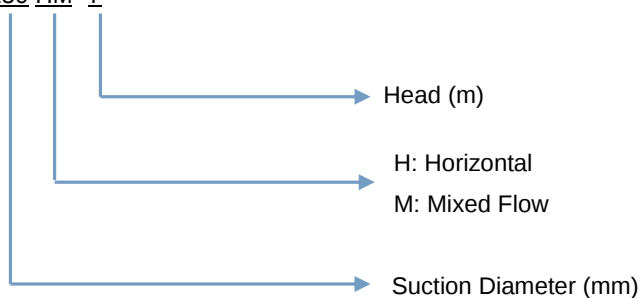


Standard Material

- Casing: Cast Iron/ Ductile Cast Iron/ Cast Steel/ Stainless Steel
- Shaft: Stainless Steel
- Impeller: Cast Iron/ Ductile Cast Iron/ Stainless Steel/Bronze
- Wear ring: Cast iron/ Ductile Cast Iron/ Stainless Steel

Designation

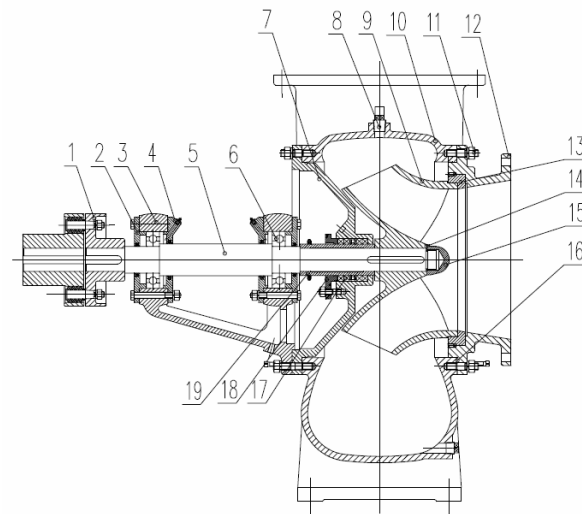
250 HM--7



Structure Design

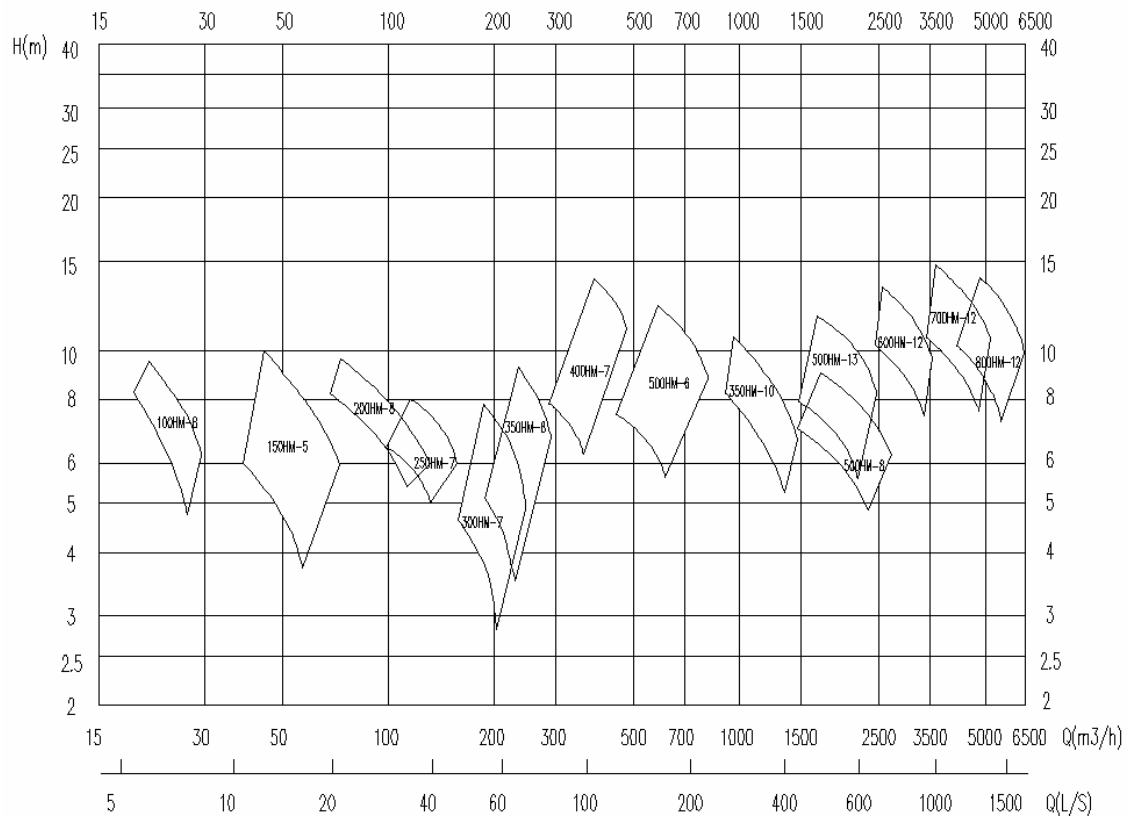
The mixed-flow pump is the horizontal, single stage, single suction overhung type volute pump. It is compact structure, easy assembly and maintenance. Upper casing has the seal ring and match the inlet surface of impeller, there is a suitable axial and radical clearance. The axial clearance can be adjusted by the gaskets which guarantee the pump efficiency. For the shaft sealing, packing seal is preferred and mechanical seal is optional. The pump shaft is supported by ball bearing; the bearing can stand the axial force and rotor weight. Both oil and grease lubrication can be used for this pump. HM pump not only can be driven by motor or diesel engine with direct coupling, but also by the belting or gear box if there is speed variation.

Sectional View

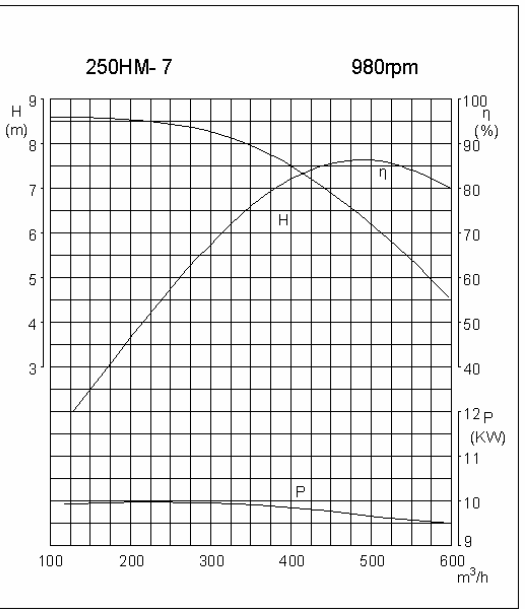
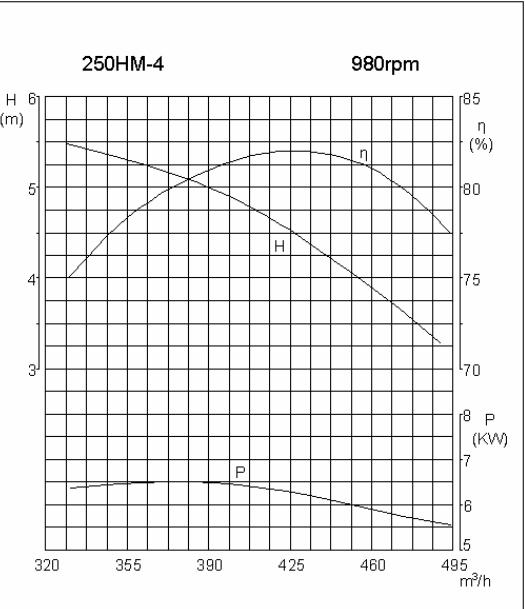
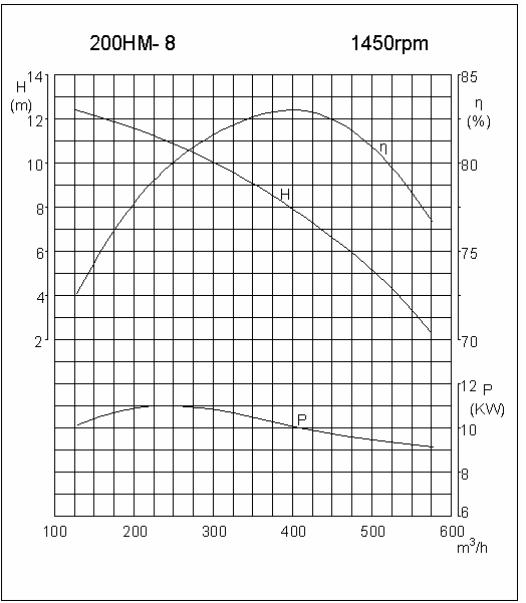
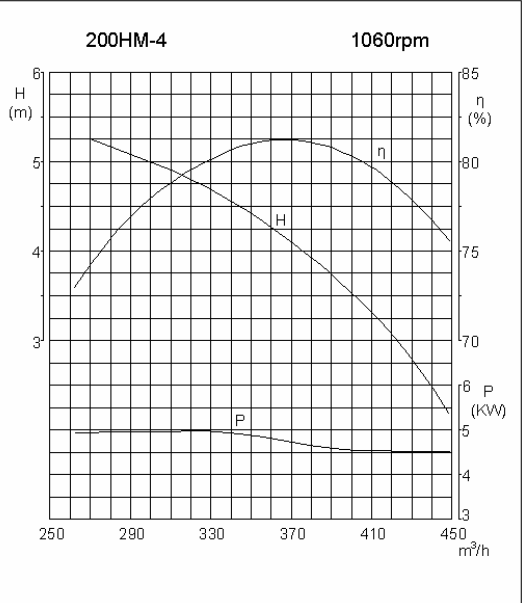
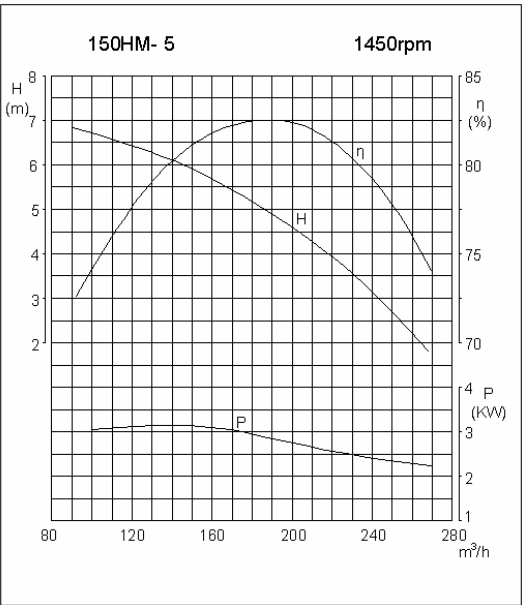
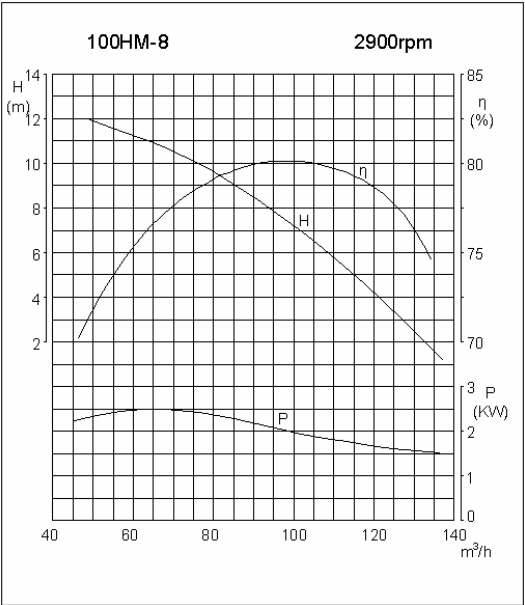


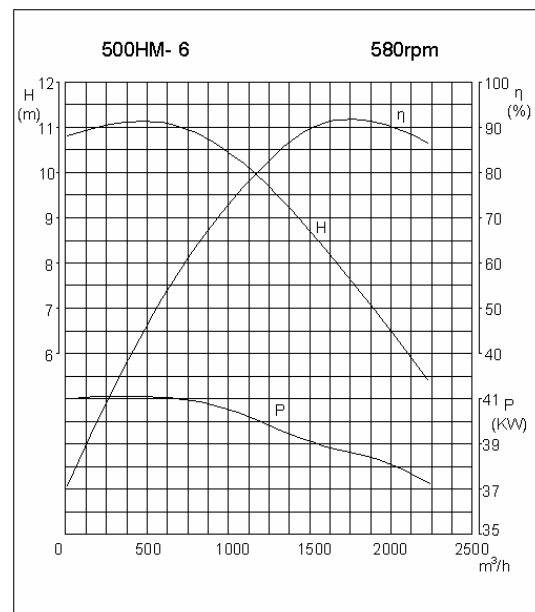
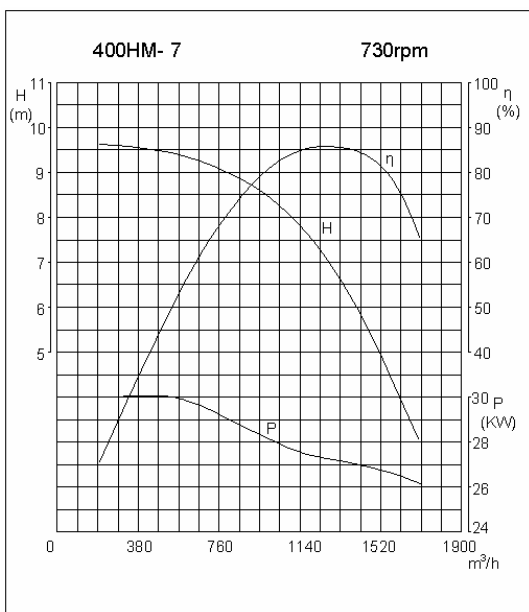
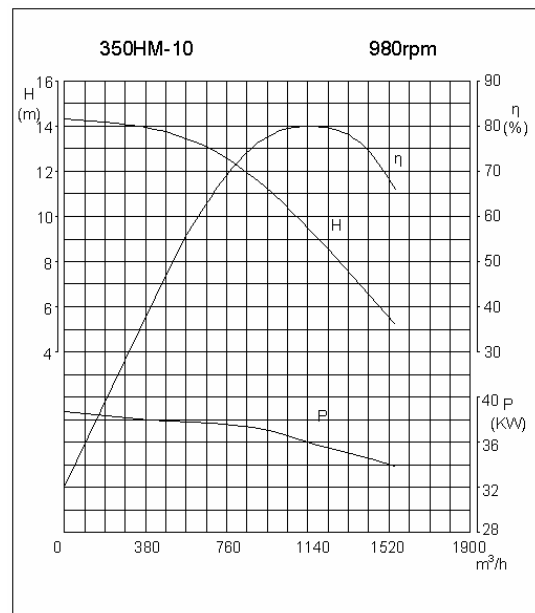
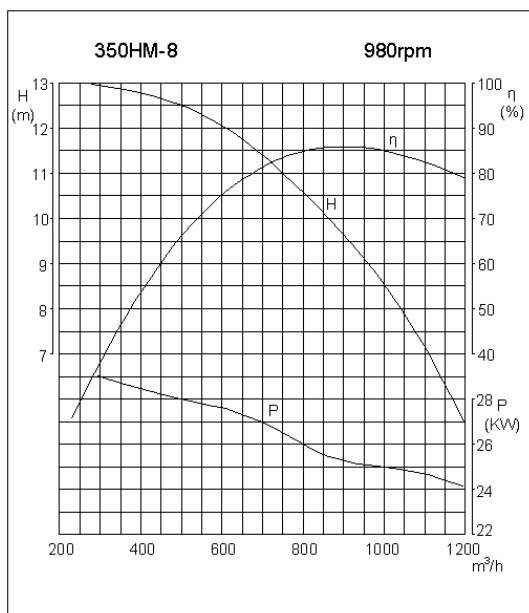
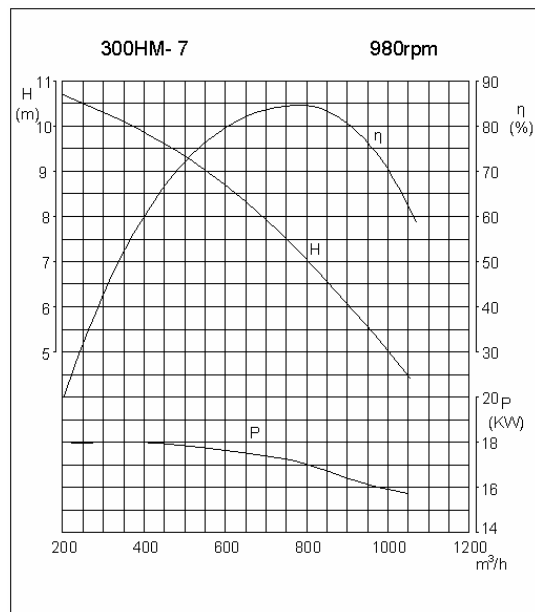
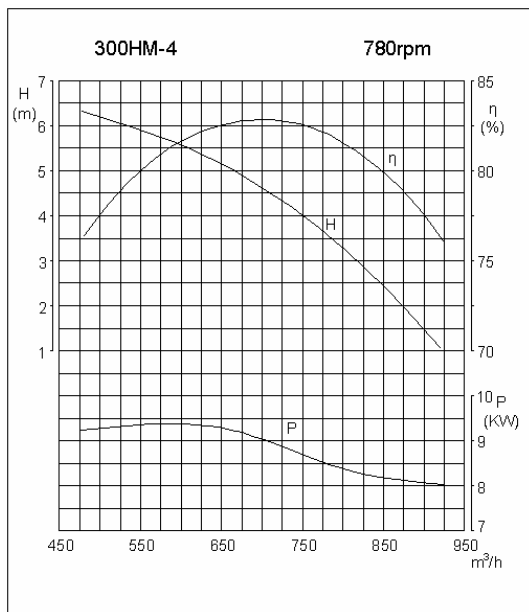
1	Coupling	8	Plug	15	Impeller nut
2	Outer Cover(Thrust Bearing)	9	Impeller	16	Gasket
3	Bearing Supporter	10	Pump Casing	17	Packing
4	Inner Cover(Thrust Bearing)	11	Bolt	18	Packing Gland
5	Shaft	12	Front gland	19	Packing Sleeve
6	Bearing	13	Wear ring		/
7	Pump Back Cover	14	Locking washer		/

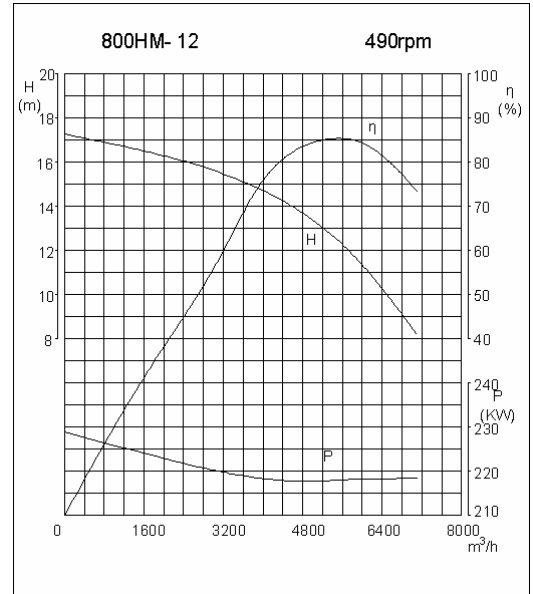
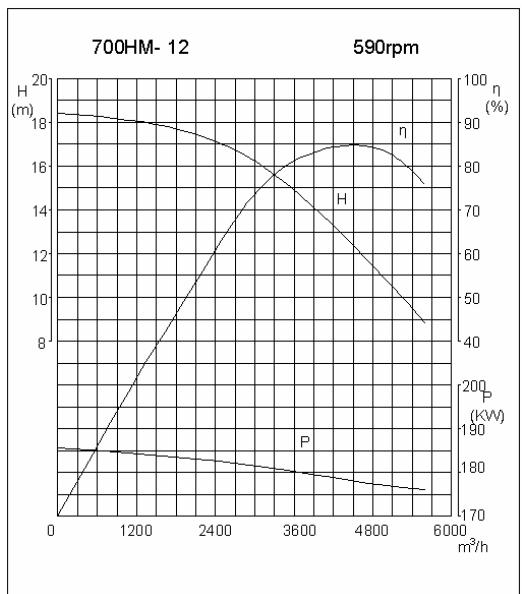
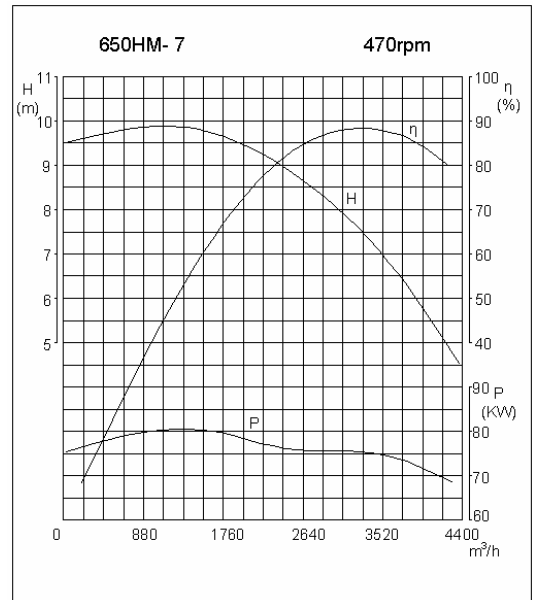
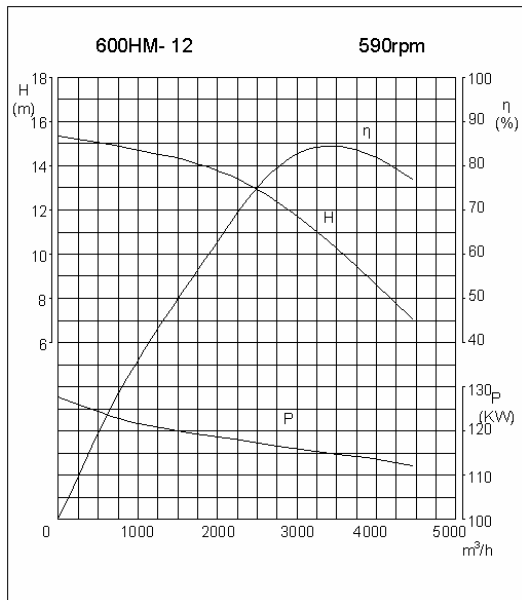
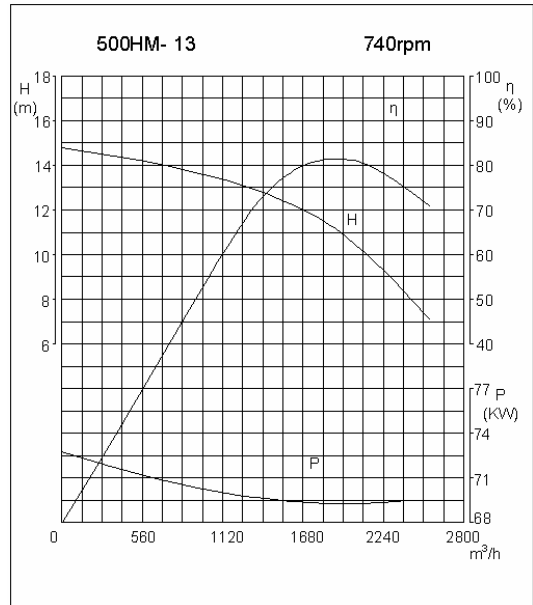
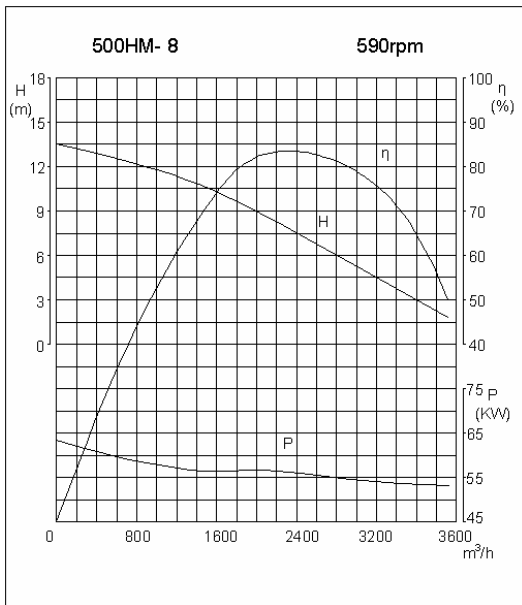
Performance Range



Performance Curve







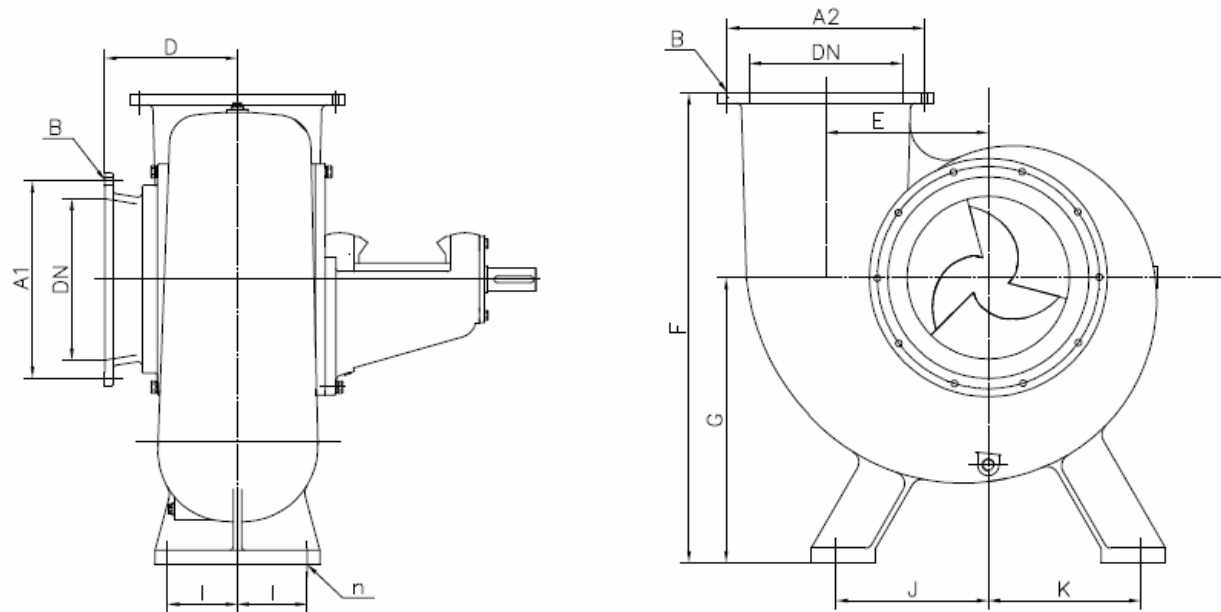
Performance Table (1/2)

Model	Speed (n)	Capacity (Q)		Head (H)	Eff. (η)	Power (P)	NPSHR	Weight
	(r/min)	(m3/h)	(L/s)	(m)	(%)	HP/kw	(m)	(kg)
100HM-8	2900	68	19	9.6	80	7/3	4.0	180
		90	25	8.0				
		108	30	6.0				
150HM-5	1450	137	38	6.1	80.5	5/4	3.0	200
		180	50	5.0				
		216	60	3.7				
	1850	175	49	10	80.5	12/7.5	3.5	
		230	64	8.2				
		276	76	6.1				
200HM-4	1060	300	83	5	81	8/5.5	4.0	250
		340	95	4				
		420	117	3				
200HM-8	1360	250	70	8.5	82	12/10	4.0	280
		340	95	7.1				
		405	112	5.3				
	1450	270	75	9.6	82	15/11	4.0	
		360	100	8.0				
		432	120	6.0				
250HM-4	980	400	111	4.8	82.5	12/7.5	4.0	300
		450	125	4.2				
		480	133	3.5				
250HM-7	870	355	98	6.4	83	12/11	4.0	320
		400	111	5.5				
		450	125	5.0				
	980	400	111	8.0	83	20/15	4.0	
		450	125	7.0				
		500	139	6.3				
300HM-4	780	650	180	5.4	83.5	15/11	4.0	370
		710	197	44				
		810	225	33				
300HM-7	740	508	141	4.5	84	12/11	4.0	400
		585	163	3.9				
		723	201	2.8				
	980	680	189	8.0	84	30/22	4.0	
		780	216	7.0				
		910	252	5.0				
300HM-8	1020	660	183	9.1	84.5	30/22	4.0	400
		780	216	8.0				
		920	256	6.5				

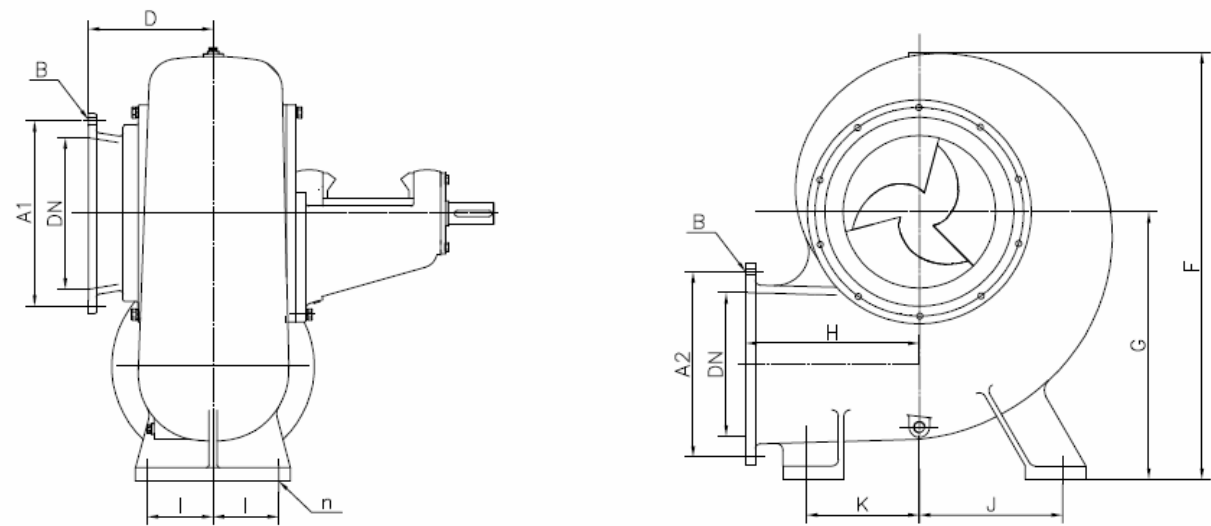
Performance Table (2/2)

Model	Speed (n)	Capacity (Q)		Head (H)	Eff. (η)	Power (P)	NPSHR	Weight
	(r/min)	(m³/h)	(L/s)	(m)	(%)	HP/kw	(m)	(kg)
350HM-8	740	670	186	5.2	85.5	20/15	4.5	500
		745	207	4.4				
		819	228	3.7				
	980	900	250	9.4	85.5	40/30	4.5	
		1000	278	8.0				
		1100	306	6.7				
350HM-10	980	1050	292	10.3	80	45	4.0	700
		1217	338	8.6				
		1397	388	6.9				
400HM-7	740	1080	300	7.8	86	40/30	5	1500
		1260	350	6.8				
		1368	380	6.2				
	980	1450	403	14.1	86	100/75	5.5	
		1692	470	12.3				
		1836	510	11.2				
500HM-6	580	1690	469	7.6	86	60/45	5.5	2000
		1980	550	6.2				
		2180	606	5.3				
	740	2127	591	12.0	86	120/95	6.0	
		2492	682	9.8				
		2744	762	8.4				
500HM-8	590	1910	531	8.6	83	75	4.5	2100
		2150	597	8.1				
		2400	667	7.6				
500HM-13	740	1650	458	12	82	90	4.5	1800
		1800	500	11.4				
		2030	564	10.1				
600HM-12	590	2592	720	12.8	84	110	5.0	2500
		3240	900	11				
		3888	1080	8.8				
650HM-7	490	1690	469	7.6	86	60/45	5.5	2300
		1980	550	6.2				
		2180	606	5.3				
	590	2127	591	12.0	86	120/95	6.0	
		2492	692	9.8				
		2744	762	8.4				
700HM-12	590	3800	1056	14.4	85	220	5.5	3200
		4200	1167	13.2				
		4500	1250	12.3				
800HM-12	490	5008	1391	13.4	86	280	5.5	4500
		5509	1530	12.3				
		5956	1654	11.3				

Bare Shaft Pump Dimensions



Type A: Vertical Discharge



Type B: Horizontal Discharge

Dimensions---Bare Shaft Pump

Model	A1 & A2	B	D	E	F	G	I	J	K	n	H	Type
100HM-8	Φ 1 60	4-Φ17.5	150	99	280	140	45	110	80	4-Φ14.5	/	A
150HM-5	Φ210	6-Φ13.5	170	148	400	195	78	154	92	4-Φ18.5	/	A
200HM-4 200HM-8	Φ270	6-Φ17.5	188	193.5	500	265	100	220	150	4-Φ18.5	/	A
250HM-4 250HM-7	Φ320	8-Φ18	250	323	583	295	123	262	164	4-Φ18	/	A
300HM-4 300HM-7	Φ380	8-Φ18	236	282	710	360	150	320	200	4-Φ23	/	A
350HM-8	Φ445	8-Φ23	290	290	780	400	150	320	200	4-Φ23	/	A
350HM-8	Φ445	8-Φ23	290	290	903	545	150	240	200	4-Φ23	380	B
350HM-10	Φ445	12-Φ23	280	337	850	470	175	330	270	4-Φ23	/	A
350HM-10	Φ445	12-Φ23	280	337	850	470	175	370	230	4-Φ23	380	B
400HM-7	Φ500	8-Φ23	305	370	1082	655	190	320	230	4-Φ30	450	B
500HM-6	Φ600	10-Φ23	332	400	1226	730	195	425	335	4-Φ30	565	B
500HM-8	Φ600	20-Φ23	400	514.5	1300	750	230	520	420	4-Φ30	/	A
500HM-13	Φ600	16-Φ23	579	453.5	1403	680	180	615	335	4-Φ40	/	A
600HM-12	Φ705	20-Φ26	480	575	1440	780	290	780	480	4-Φ40	/	A
700HM-12	Φ810	24-Φ26	530	634	1598	890	350	620	500	4-Φ40	/	A
800HM-12	Φ920	24-Φ30	613	738	1860	1030	385	720	590	4-Φ40	/	A

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