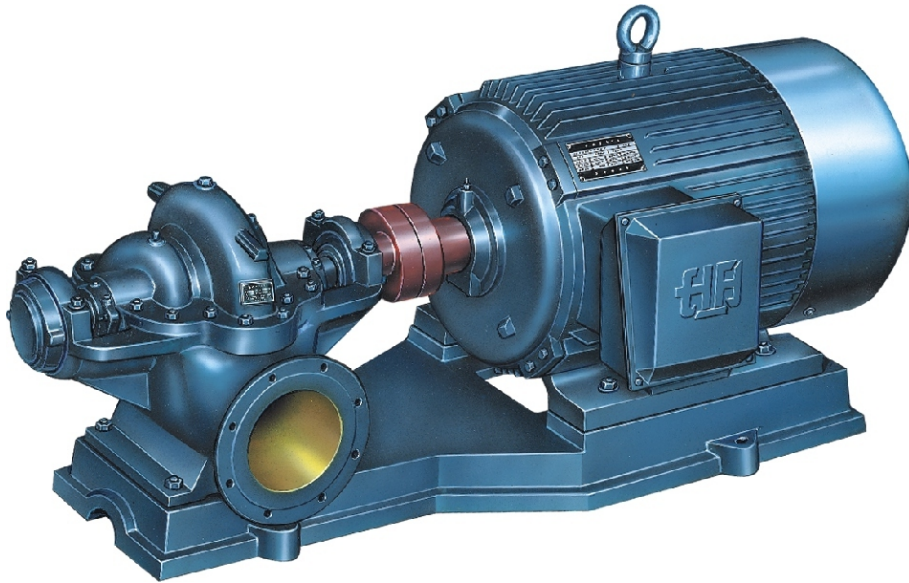


# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



HS Series is a kind of single stage double suction horizontal centrally-split centrifugal pump. It is used to transport clear water or the liquids with physical and chemical properties similar clear water. The temperature can be no more than 80°C. It is applicable to water supply and drainage in factory, mine, city, power station, agriculture irrigation and all kinds of hydraulic engineering.

150 100 HS 78 A

External Diameter of  
Impeller's first time cut

Head: 78m

Horizontal Double Stages  
Split Casing Centrifugal Pump

Outlet Diameter: 100mm

Inlet Diameter: 150mm



**THONG FATT JAYA MACHINERY HARDWARE SDN. BHD.**

**同發機械五金有限公司** (176024-V)

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# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Structural Illustration

Both inlet and outlet of HS series are below the pump's axial central line. They are perpendicular with axial line and horizontally placed in the middle of pump casing. There is no removal of inlet, discharge pipeline and electric motor (or some other motors). The pump rotates clockwise from the direction of the shaft coupling. The pump which rotates anticlockwise can also be manufactured according to the requirements, but it should be raised specially while ordering.

HS series pump is mainly made up of pump casing (1), pump cover(2), impeller(3), shaft(4) and double suction seal ring(5), spindle sleeve(6) and bearing(15), etc. Except that the material for the bearing is first grade carbon copper, the remained are all made of cast iron. (refer to the structural illustration of pump)

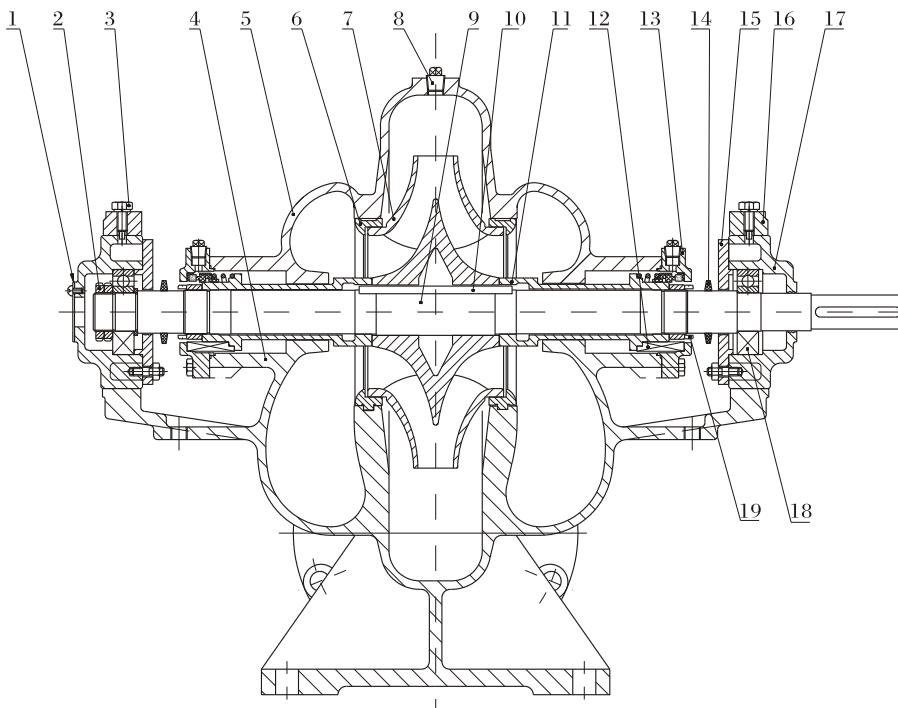
The pump casing and pump cover compose an impeller's working room. The installation vacuum gauge and pipeline bolt hole on the pressure gauge are designed for the inlet and outlet flange. After the static balance test on the impeller, it is fixed with the spindle sleeve and sleeve nut on both sides. The axial location can be addition-usted through the sleeve nut. The impeller's axial force make use of the symmetric layout of its vane to keep in balance. Maybe a little residual axial force is borne by the bearing at the shaft end.

The pump is supported by two single-filed centripetal ball bearings. The bearing is installed inside the bearing body at both sides of the pump casing, and lubricated with solid lubricant. The double suction seal ring is used to reduce the amount of leakage of water at the pump impeller.

Pump is directly connected with the electric motor through elastic shaft coupling. (If it is a must to transmit with rubber-belt, a pedestal should be mounted in addition.

The shaft seal adopts packing seal. In order to cool down the lubricant seal chamber and also to prevent air from leaking into the pump, a water seal ring is mounted among the stuffing. While pump is running, slight amount of high-pressure water passes through the concave groove on the centrally-split surface of pump cover into the packing chamber, which function as water seal.

## Structural Diagram

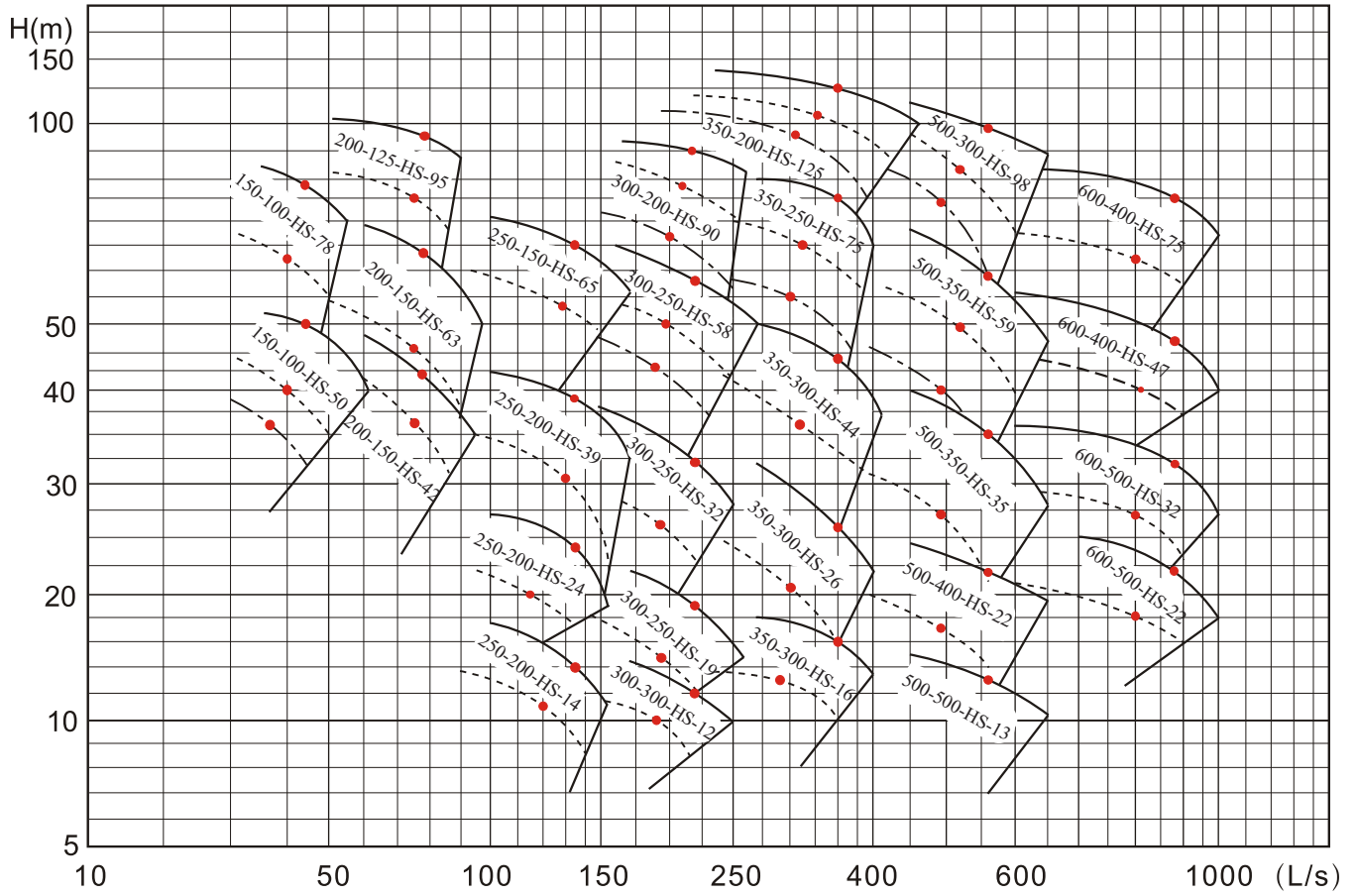


- 1 End Cover
- 2 Round Nut
- 3 Check Screw
- 4 Casing
- 5 Pump Cover
- 6 Double Suction Seal Ring
- 7 Impeller
- 8 Pipe Plug
- 9 Shaft
- 10 Key
- 11 Mechanical (or Packing) Seal Shaft Sleeve
- 12 Mechanical (or Packing) Seal
- 13 Mechanical (or Packing) Seal
- 14 Deflector
- 15 Bearing Gland
- 16 Bearing Body Gland
- 17 Bearing Body
- 18 Bearing
- 19 Shaft Sleeve Nut

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



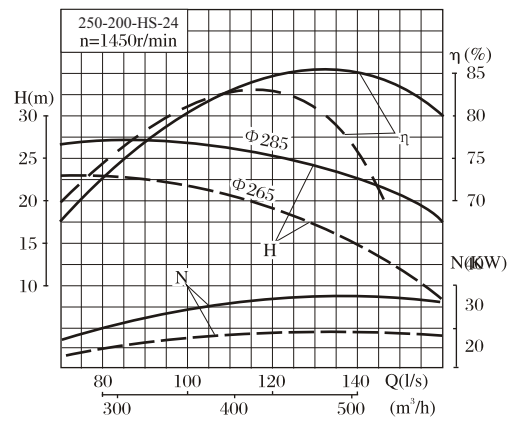
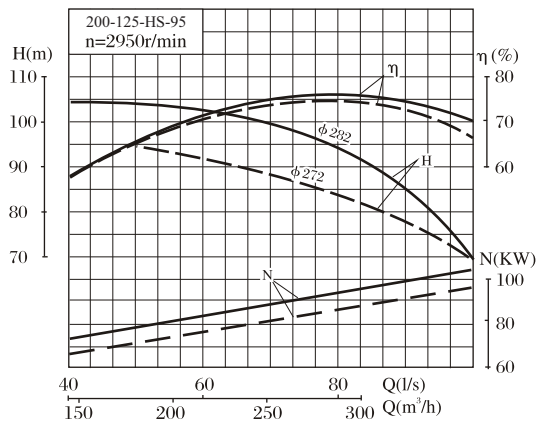
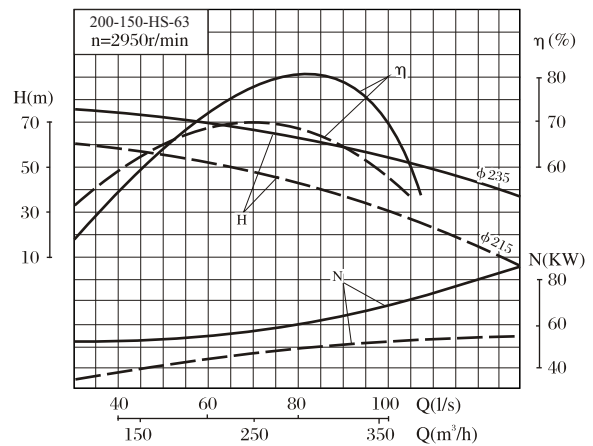
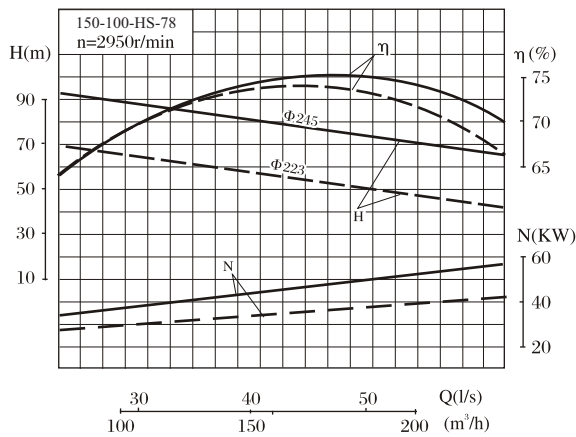
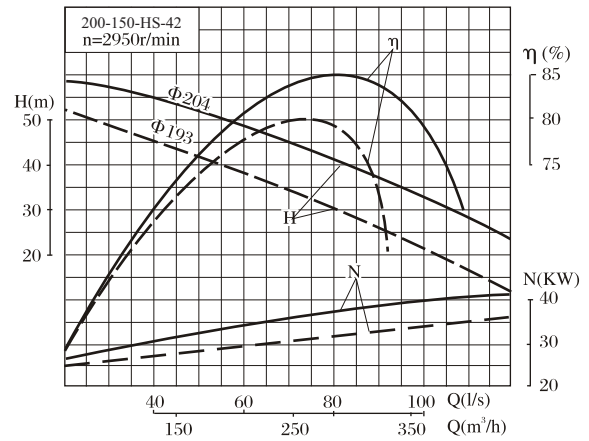
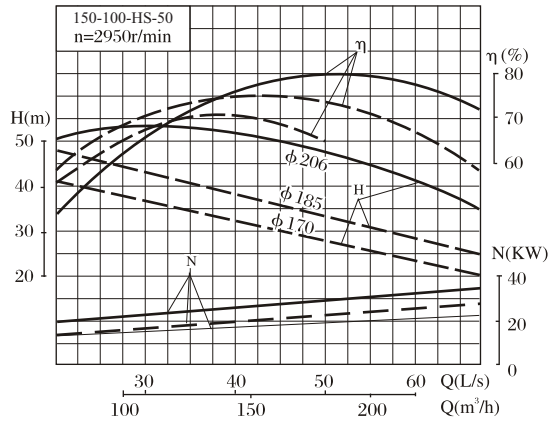
## Selection Chart



# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



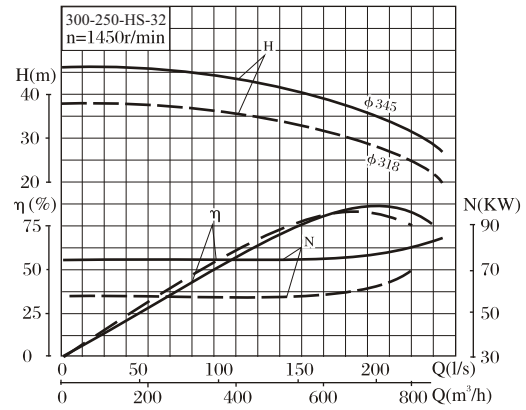
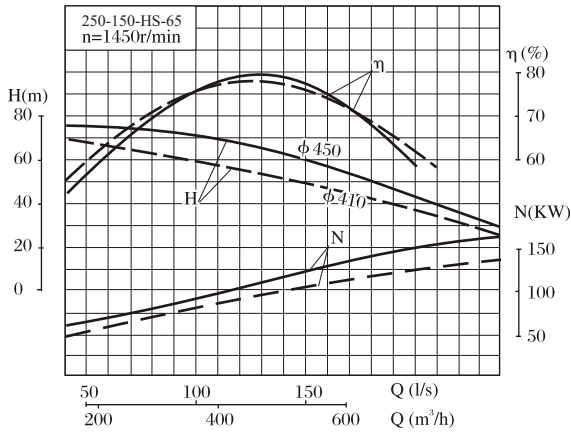
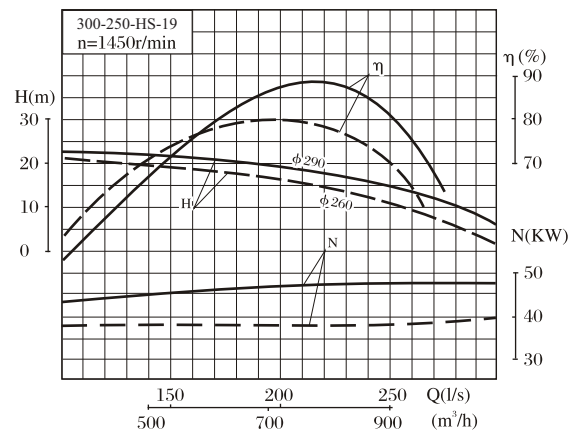
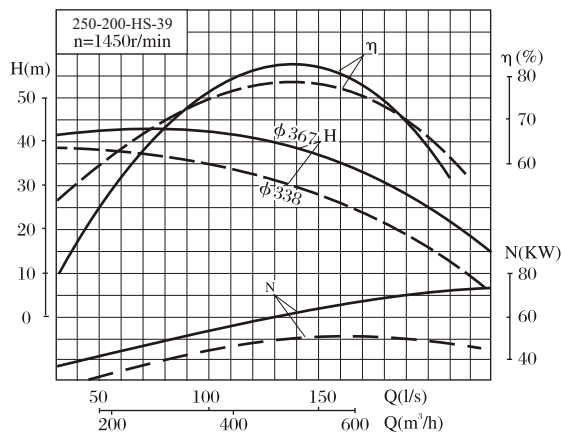
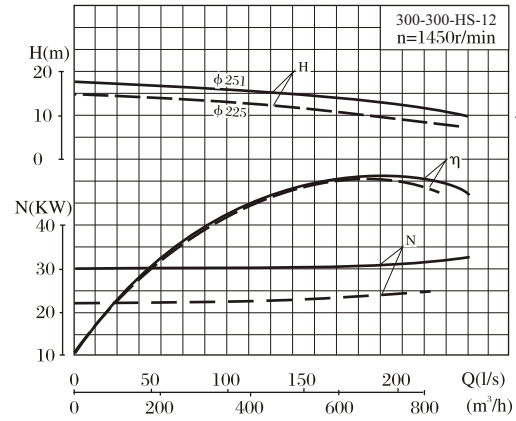
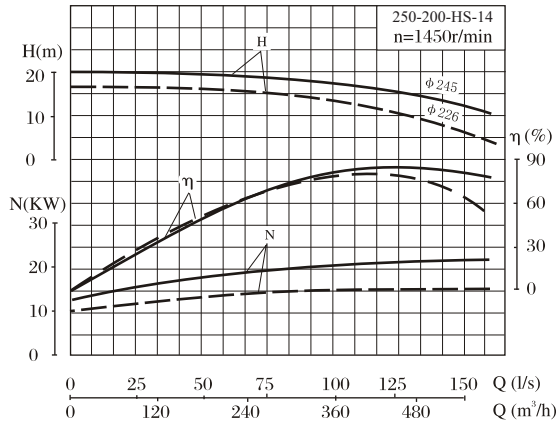
## Performance Curve



# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



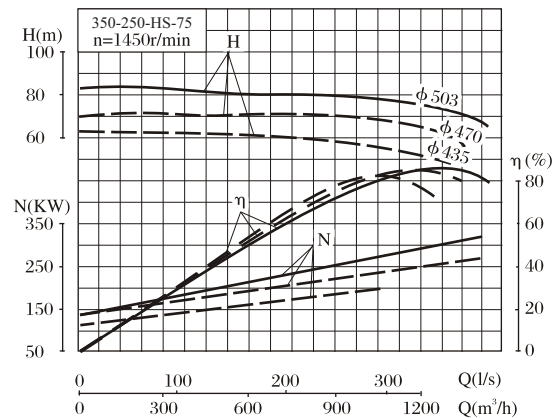
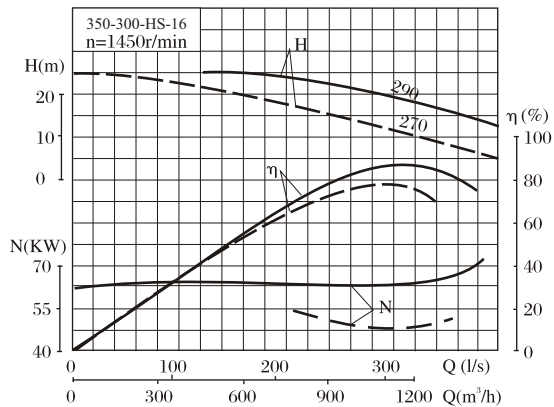
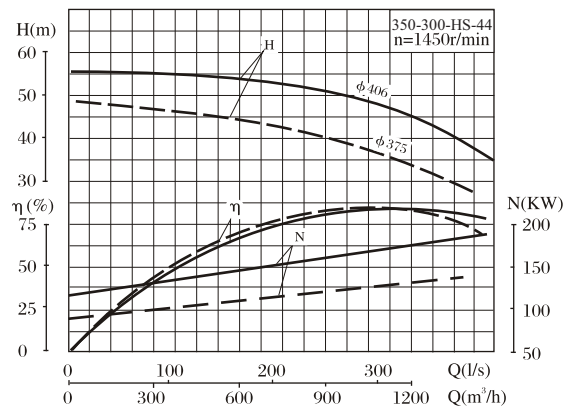
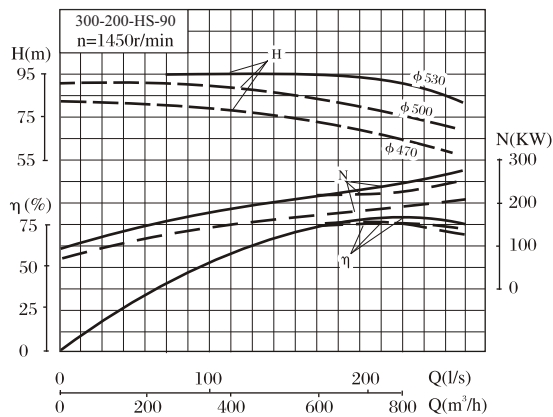
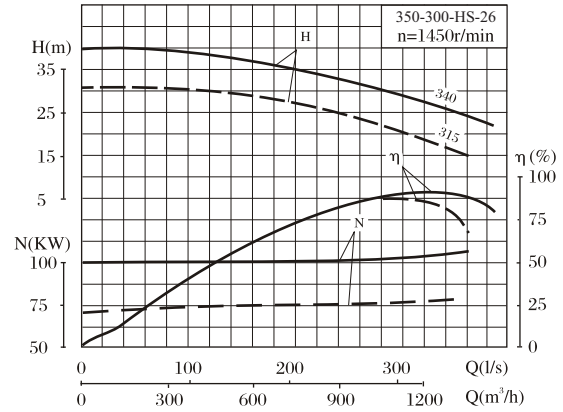
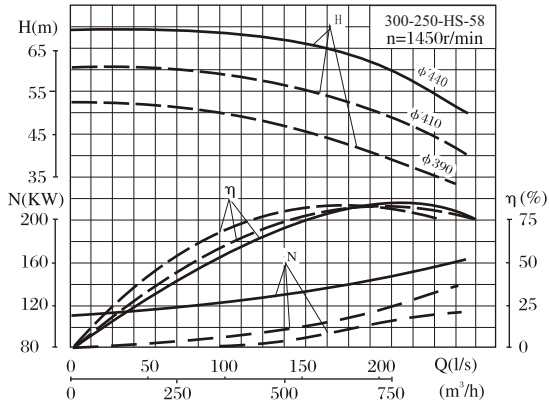
## Performance Curve



# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



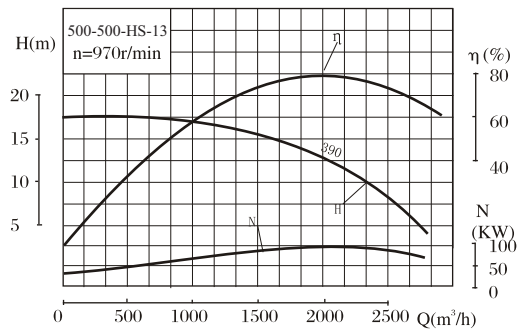
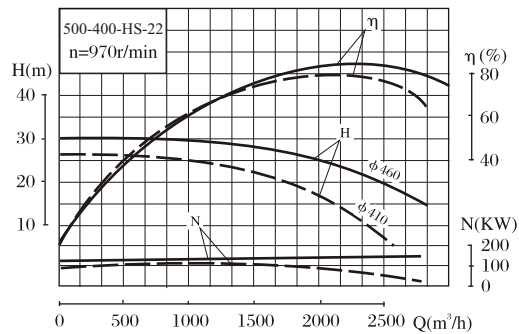
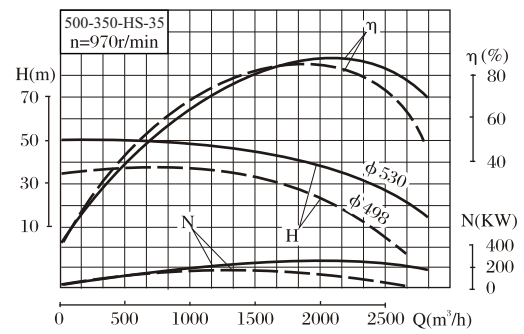
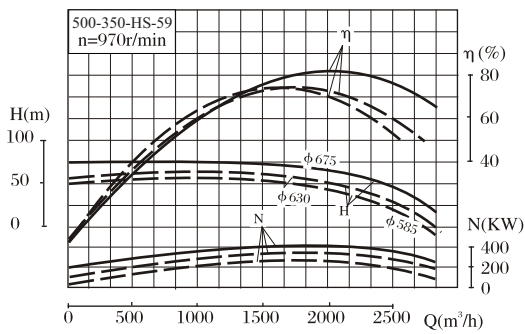
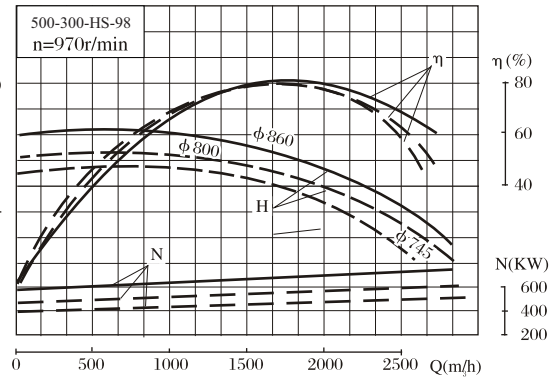
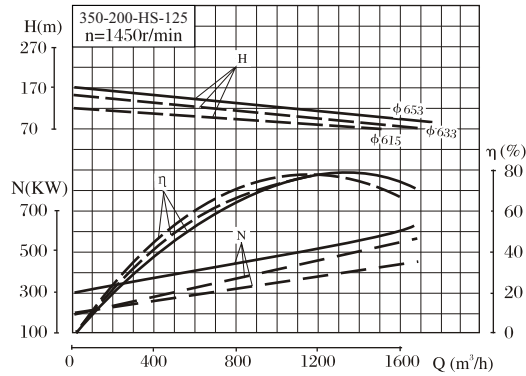
## Performance Curve



# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



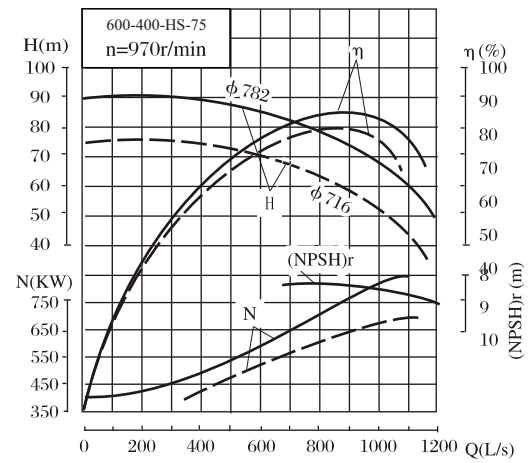
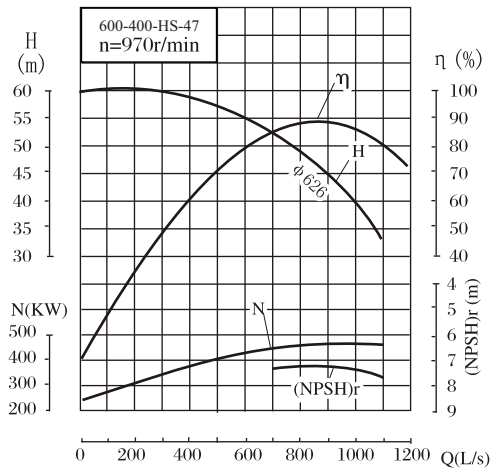
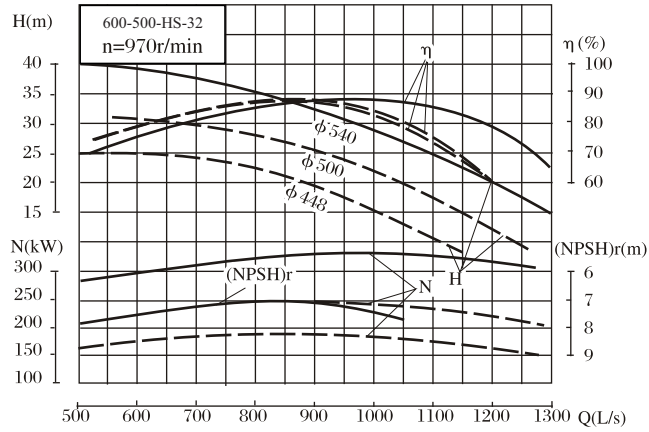
## Performance Curve



# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Performance Curve





# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Specification

Pump Type	Capacity Q		Head H (m)	Rotation n (rpm)	Power N (kW)		Efficiency $\eta$ (%)	NPSHr (m)	Impeller Diameter D (mm)	Weight Pump/Base (kg)
	(m <sup>3</sup> /h)	(L/s)			Shaft Power	Motor Power				
150-100-HS-78	151.2 192.0 237.6	42.0 53.3 66.0	121 112.3 100.8	3540	69.2 79.4 89.4	90	72.0 74.0 73.0	8.5	245	158/112
150-100-HS-78A	134.4 172.8 216	37.3 48.0 60.0	96.48 89.28 79.2		52.0 58.4 66.6	75	68.0 72.0 70.0		223	158/95
150-100-HS-50	156 192.0 264	43.3 53.3 73.3	74.88 72 57.6	3540	43.7 47.7 53.7	55	72.9 79.0 77.2	7.6	206	147/112
150-100-HS-50A	134.4 172.8 216	37.3 48.0 60.0	63.36 57.6 50.4		32.0 36.2 42.4	45	72.5 75.0 70.0		185	147/95
150-100-HS-50B	129.6 159.6 192	36.0 44.3 53.3	54.72 51.84 46.08		29.7 32.2 33.5	37	65.0 70.0 72.0		170	147/80
200-125-HS-95	219.6 336.0 388.8	61.0 93.3 108.0	148.3 136.8 125.3	3540	143.2 158.5 172.8	180	62.0 79.0 76.8	7.6	282	240/-
200-125-HS-95A	201.6 324.0 372	56.0 90.0 103.3	118.1 108 97.92		95.4 127.1 134.1	160	68.0 75.0 74.0		270	240/-
200-125-HS-95B	187.2 294.0 344.4	52.0 81.7 95.7	100.8 103.7 83.52		79.1 113.8 110.4	132	65.0 73.0 71.0		250	240/-
200-150-HS-63	259.2 336.0 421.2	72.0 93.3 117.0	99.36 90.72 72	3540	95.2 102.5 117.2	132	73.7 81.0 70.5	7.8	235	187/135
200-150-HS-63A	216.0 324.0 388.8	60.0 90.0 108.0	78.48 66.24 54.0		71.1 83.5 88.0	90	65.0 70.0 65.0		215	187/124
200-150-HS-42	259.2 336.0 410.4	72.0 93.3 114.0	69.12 60.48 50.4	3540	60.3 65.1 69.6	75	81.0 85.0 81.0	7.8	200	219/108
200-150-HS-42A	237.6 324.0 372	66.0 90.0 103.3	61.92 51.84 44.6		52.8 57.2 59.5	75	76.0 80.0 76.0		188	219/108
250-150-HS-65	432 582.0 734.4	120.0 161.7 204.0	102.2 93.6 80.64	1740	160.5 187.9 224.1	250	75.0 79.0 72.0	9.6	450	518/-
250-150-HS-65A	405.6 554.4 642	112.7 154.0 178.3	86.4 76.32 70.56		127.3 145.9 164.6	180	75.0 79.0 75.0		410	518/-
250-200-HS-39	432 582.0 734.4	120.0 161.7 204.0	61.2 56.16 46.8	1740	96.1 112.7 130.1	132	75.0 79.0 72.0	9.6	367	400/240
250-200-HS-39A	388.8 561.6 691.2	108.0 156.0 192.0	51.12 43.92 36		72.2 85.1 90.4	90	75.0 79.0 75.0		338	400/233

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Specification

Pump Type	Capacity Q		Head H (m)	Rotation n (rpm)	Power N (kW)		Efficiency $\eta$ (%)	NPSHr (m)	Impeller Diameter D (mm)	Weight Pump/Base (kg)
	(m <sup>3</sup> /h)	(L/s)			Shaft Power	Motor Power				
250-200-HS-24	360	100.0	27.0	1450	33.1	45	80	6.7	285	370/201
	485	134.7	24.0		36.9		86			
	576	160.0	19.0		36.3		82			
250-200-HS-24A	342	95.0	22.2	1450	25.8	37	80	6.7	265	370/201
	414	115.0	20.0		27.2		83			
	482	134.0	17.4		28.6		80			
250-200-HS-14	360	100.0	17.5	1450	21.4	30	80	6.7	245	305/225
	485	134.5	14.0		21.7		85			
	576	160.0	11.0		22.1		78			
250-200-HS-14A	320	89.0	13.7	1450	25.4	22	78	6.7	226	305/215
	430	120.0	11.0		15.8		81			
	504	140.0	8.6		15.8		75			
300-200-HS-90	590	164.0	93.0	1450	202.0	315	74	5.8	531	840/-
	790	219.0	90.0		242.0		80			
	936	260.0	82.0		279.0		75			
300-200-HS-90A	576	160.0	86.0	1450	190.0	280	71	5.8	500	840/-
	756	210.0	78.0		217.0		74			
	918	255.0	70.0		247.0		71			
300-200-HS-90B	546	150.0	72.0	1450	151.0	220	70	5.8	470	840/-
	720	200.0	67.0		180.0		73			
	900	250.0	57.0		200.0		70			
300-250-HS-58	576	160.0	65.0	1450	136.0	185	75	5.8	440	599/-
	790	219.0	58.0		148.5		84			
	972	270.0	50.0		165.5		80			
300-250-HS-58A	529	147.0	55.0	1450	99.2	160	80	5.8	410	599/-
	735	204.0	50.0		122.0		82			
	893	328.0	42.0		131.0		78			
300-250-HS-58B	504	140.0	47.2	1450	88.8	132	73	5.8	390	599/-
	685	190.0	43.0		100.2		80			
	835	232.0	37.0		108.0		78			
300-250-HS-32	612	170.0	38.0	1450	76.2	90	83	5.8	348	709/-
	790	219.0	32.0		79.0		87			
	900	250.0	28.0		86.0		80			
300-250-HS-32A	537	149.0	29.5	1450	53.9	75	80	5.8	318	709/-
	700	194.4	26.0		58.9		84			
	790	249.4	22.8		62.9		78			
300-250-HS-19	612	170.0	22.0	1450	45.9	55	80	5.8	290	434/285
	790	219.0	19.0		46.9		87			
	935	260.0	14.0		47.6		75			
300-250-HS-19A	485	134.7	18.5	1450	34.4	45	71	5.8	260	434/290
	700	194.4	15.0		34.9		82			
	798	221.7	12.1		35.1		75			
300-300-HS-12	612	170.0	14.5	1450	30.2	37	80	5.8	251	433/243
	790	219.0	12.0		31.1		83			
	900	250.0	10.0		33.1		74			
300-300-HS-12A	515	143.1	11.5	1450	22.1	30	73	5.8	222	413/237
	684	190.0	10.0		22.6		79			
	781	216.9	8.5		23.8		76			

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Specification

Pump Type	Capacity Q		Head H (m)	Rotation n (rpm)	Power N (kW)		Efficiency $\eta$ (%)	NPSHr (m)	Impeller Diameter D (mm)	Weight Pump/Base (kg)
	(m <sup>3</sup> /h)	(L/s)			Shaft Power	Motor Power				
350-200-HS-125	850 1260 1660	236.0 350.0 461.0	140.0 125.0 100.0	1450	462.0 531.0 623.0	710	70.0 81.0 72.5	5.3	655	1580/-
350-200-HS-125A	787 1181 1538	219.0 328.0 427.0	120.0 112.0 86.0		367.0 462.0 515.0	560	70.0 78.0 70.0		620	1580/-
350-200-HS-125B	697 1098 1363	194.0 305.0 379.0	108.0 96.0 77.0		293.0 373.0 394.0	500	70.0 77.0 72.5		575	1580/-
350S <sub>1</sub> -125	845	235.0	56.0	970	161.0	220	80.0	5.5	655	1580/-
350-250-HS-75	972 1260 1440	270.0 350.0 400.0	80.0 75.0 65.0	1450	271.0 304.0 349.0	355	78.0 85.0 80.0	5.3	503	1200/-
350-250-HS-75A	900 1170 1332	250.0 325.0 370.0	70.0 65.0 56.0		220.0 247.0 257.0	280	78.0 84.0 79.0		470	1200/-
350-250-HS-75B	813 1080 1202	226.0 300.0 334.0	57.0 55.0 45.5		168.0 197.0 195.0	220	75.0 82.0 77.0		435	1200/-
350S <sub>1</sub> -75	845	235.0	34.0	970	92.0	110	84.0	5.5	503	1200/-
350-300-HS-44	972 1260 1476	270.0 350.0 410.0	50.0 44.0 37.0	1450	164.0 177.6 189.0	220	81.0 87.0 79.0	5.3	406	1105/-
350-300-HS-44A	876 1116 1332	243.3 310.0 370.0	42.0 36.0 31.0		125.2 130.0 140.5	160	80.0 84.0 80.0		375	1105/-
350S <sub>1</sub> -44	845	235.0	20.0	970	63.0	75	85.0	5.5	406	1105/-
350-300-HS-26	972 1260 1440	270.0 350.0 400.0	32.0 26.0 22.0	1450	99.7 101.5 105.0	132	85.0 88.0 82.0	5.3	340	672/-
350-300-HS-26A	843 1088 1264	234.2 302.2 351.1	24.7 20.4 15.7		70.9 72.8 74.0	90	80.0 83.0 73.0		315	672/-
350S <sub>1</sub> -26	845	235.0	12.0	970	31.0	37	85.0	5.5	340	672/-
350-300-HS-16	972 1260 1440	270.0 350.0 400.0	20.0 16.0 13.4	1450	64.0 63.8 71.0	75	83.0 86.0 74.0	5.3	290	632/-
350-300-HS-16A	800 1044 1260	222.2 290.0 350.0	13.7 13.0 10.0		40.3 47.4 49.0	55	74.0 78.0 70.0		270	632/-

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Specification

Pump Type	Capacity Q		Head H (m)	Rotation n (rpm)	Power N (kW)		Efficiency $\eta$ (%)	NPSHr (m)	Impeller Diameter D (mm)	Weight Pump/Base (kg)
	(m <sup>3</sup> /h)	(L/s)			Shaft Power	Motor Power				
500-300-HS-98	1620 2020 2340	450 561 650	114.4 98.0 79.0	970	644.8 678.0 680.5	800	78.0 79.5 74.0	4.0	860	
500-300-HS-98A	1500 1872 2170	417 520 603	96.0 83.0 67.0		509.3 540.0 542.4	630	77.0 78.5 73.0		800	
500-300-HS-98B	1400 1746 2020	389 485 561	86.0 74.0 59.0		431.4 452.0 432.0	560	76.0 78.0 75.0		745	
500-350-HS-59	1620 2020 2340	450 561 650	68.0 59.0 47.0	970	379.7 392.0 374.4	450	79.0 83.0 80.0	4.5	665	
500-350-HS-59A	1500 1872 2170	417 520 603	57.0 49.0 39.0		315.0 333.0 320.0	400	74.0 75.0 72.0		620	
500-350-HS-59B	1400 1746 2020	389 485 561	46.0 40.0 32.0		340.2 257.0 247.9	315	73.0 74.0 71.0		575	
500-350-HS-35	1620 2020 2340	450 561 650	40.0 35.0 28.0	970	207.6 219.0 209.9	280	85.0 88.0 85.0	4.8	530	
500-350-HS-35A	1400 1746 2020	289 485 561	31.0 27.0 21.0		144.0 151.0 137.5	220	82.0 85.0 84.0		498	
500-400-HS-22	1620 2020 2340	450 561 650	24.5 22.0 19.4	970	140.4 144.1 145.4	185	72.0 84.0 85.0	5.2	465	
500-400-HS-22A	1400 1746 2020	389 485 561	20.0 17.0 14.0		103.0 101.0 93.9	132	74.0 80.0 82.0		427	
500-500-HS-13	1620 2020 2340	450 561 650	15.0 13.0 10.4	970	83.8 86.2 82.8	110	79.0 83.0 80.0	5.7	390	
600-400-HS-75	2160 3170 3600	600 881 1000	84.0 75.0 67.0	970	588.0 761.0 852.0	900	84.0 85.0 77.0	6.0	782	4300/-
600-400-HS-75A	1980 2880 3240	550 800 900	74.0 62.0 60.0		532.0 608.0 725.0	800	75.0 80.0 73.0		716	4300/-
600-400-HS-47	2160 3170 3600	600 881 1000	56.0 47.0 40.0	970	412.0 461.0 461.0	560	80.0 88.0 85.0	6.5	626	3850/-
600-400-HS-47A	1980 2920 3240	550 811 900	46.0 40.0 37.0		318.0 365.5 384.0	450	78.0 87.0 85.0			3850/-
600-500-HS-32	2160 3170 3600	600 811 1000	36.0 32.0 27.0	970	278.6 314.0 315.0	355	76.0 88.0 84.0	7.0	540	2500/-

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



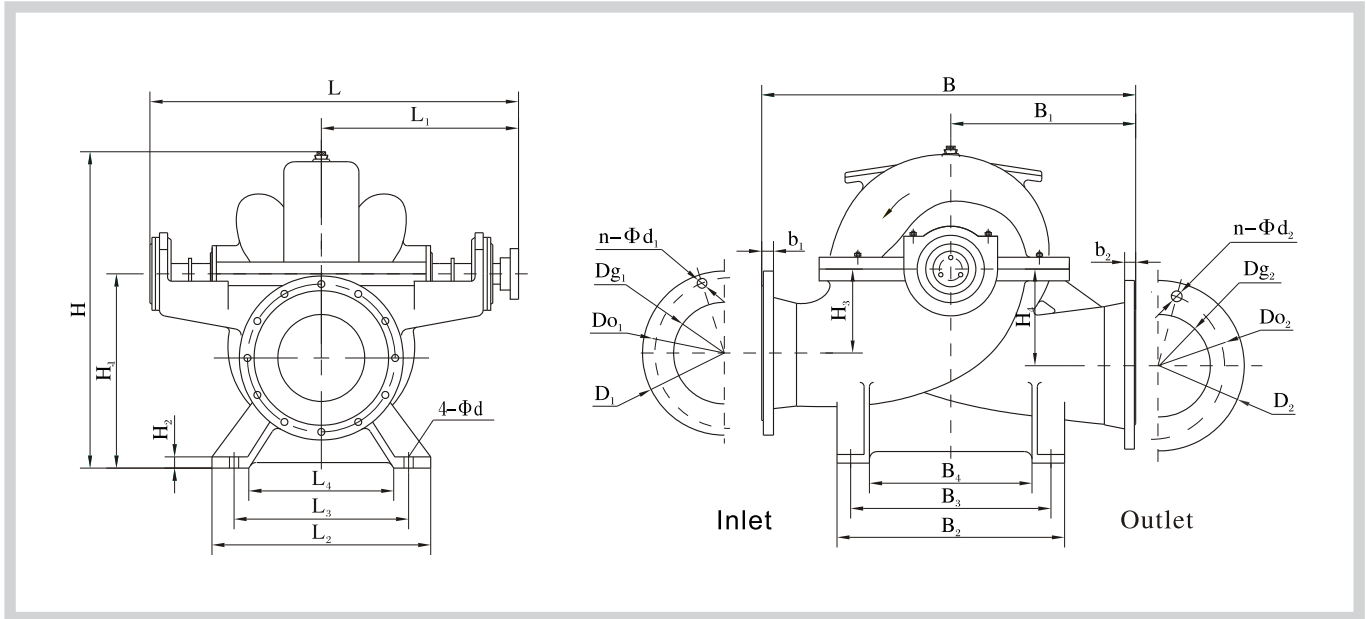
## Specification

Pump Type	Capacity Q		Head H (m)	Rotation n (rpm)	Power N (kW)		Efficiency $\eta$ (%)	NPSHr (m)	Impeller Diameter D (mm)	Weight Pump/Base (kg)
	(m <sup>3</sup> /h)	(L/s)			Shaft Power	Motor Power				
600-500-HS-32A	1800	500	30	970	240.0	280	72.0	7.0	500	2500/-
	2880	800	27		246.0		86.0			
	3240	900	23		241.0		84.0			
600-500-HS-32B	2628	730	22		187.0	240	84.0		448	2500/-
600-500-HS-22	2520	700	25	970	209.2	250	82.0	7.0	485	2500/-
	3170	881	22		215.8		88.0			
	3600	1000	18		215.2		82.0			
600-500-HS-22A	2160	600	21	970	152.5	185	81.0	7.0	485	2500/-
	2880	800	18		162.2		87.0			
	3240	900	16		168.1		84.0			

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Dimension of HS Series



## Outline Sheet of HS Series Pump

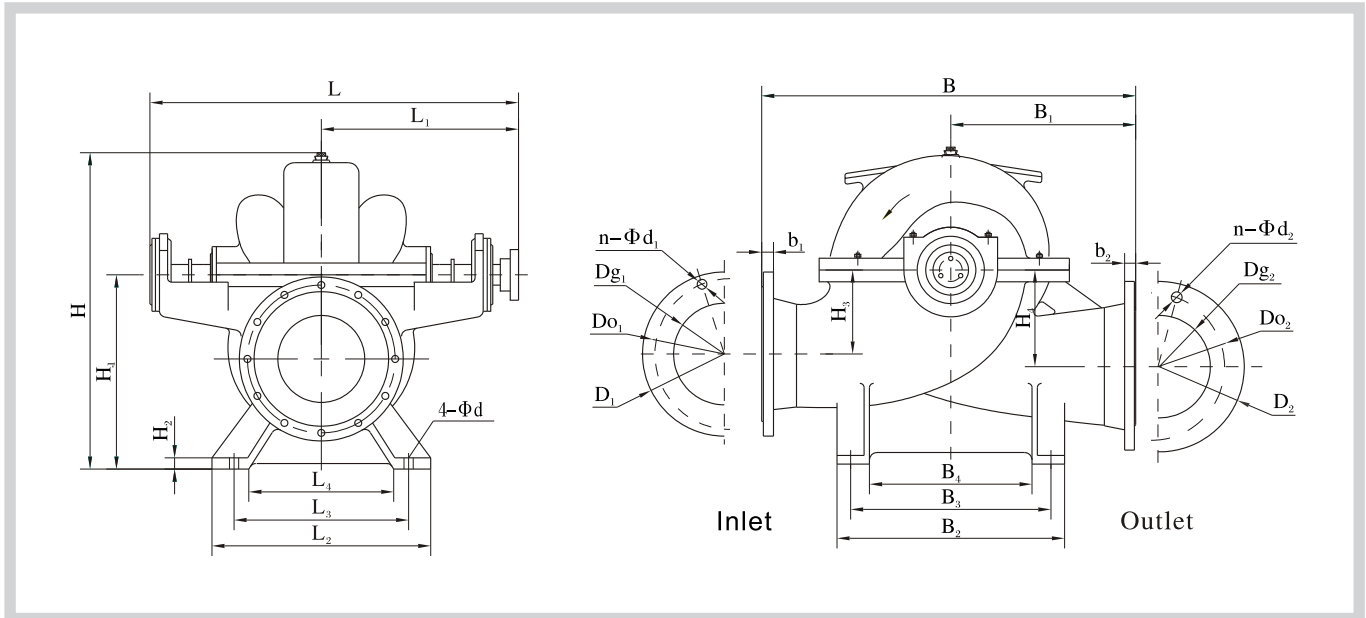
Unit: mm

Pump Type	Outline Dimension															Inlet Flange Dimension					Outlet Flange Dimension					
	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	4-Φd	Dg <sub>1</sub>	Do <sub>1</sub>	D <sub>1</sub>	b <sub>1</sub>	n-Φd <sub>1</sub>	Dg <sub>2</sub>	Do <sub>2</sub>	D <sub>2</sub>	b <sub>2</sub>	n-Φd <sub>2</sub>
300-200-HS-90																										
300-200-HS-90A	1168.5	644	510	450	330	1046	470	650	550	430	878	510	40	268	325	Φ27	300	400	445	28	12-Φ23	200	295	335	26	8-Φ23
300-200-HS-90B																										
300-250-HS-58																										
300-250-HS-58A	1108.5	615	510	450	330	1070	530	650	550	430	830	510	40	250	310	Φ27	300	400	440	28	12-Φ23	250	350	390	28	12-Φ23
300-250-HS-58B																										
300-250-HS-32																										
300-250-HS-32A	1102.5	614	520	450	330	880	410	610	550	430	824	510	40	260	270	Φ27	300	400	440	28	12-Φ23	250	350	390	28	12-Φ23
300-250-HS-19																										
300-250-HS-19A	978.5	537	510	450	330	900	400	620	550	430	803	510	40	250	260	Φ27	300	400	440	28	12-Φ23	250	350	390	28	12-Φ23
300-300-HS-12																										
300-300-HS-12A	1008.5	552	510	450	330	1000	500	620	550	430	820	510	40	265	265	Φ27	300	400	440	28	12-Φ23	300	400	440	28	12-Φ23
350-200-HS-125																										
350-200-HS-125A	1431.5	809	600	500	360	1210	550	720	600	450	1080	620	50	330	410	Φ34	350	460	500	30	16-Φ23	200	295	335	26	12-Φ23
350-200-HS-125B																										
350-250-HS-75																										
350-250-HS-75A	1270.5	710	580	500	360	1250	600	680	600	450	1017	620	50	274	356	Φ34	350	460	500	30	16-Φ23	250	350	390	28	12-Φ23
350-250-HS-75B																										
350-300-HS-44																										
350-300-HS-44A	1230.5	675	580	500	360	1080	510	700	600	450	980	620	50	300	300	Φ34	350	460	500	30	16-Φ23	300	400	440	28	12-Φ23
350-300-HS-26																										
350-300-HS-26A	1171.5	643	600	500	360	1040	460	680	600	450	963	620	50	290	300	Φ34	350	460	500	30	16-Φ23	300	400	440	28	12-Φ23

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Dimension of HS Series



## Outline Sheet of HS Series Pump

Unit: mm

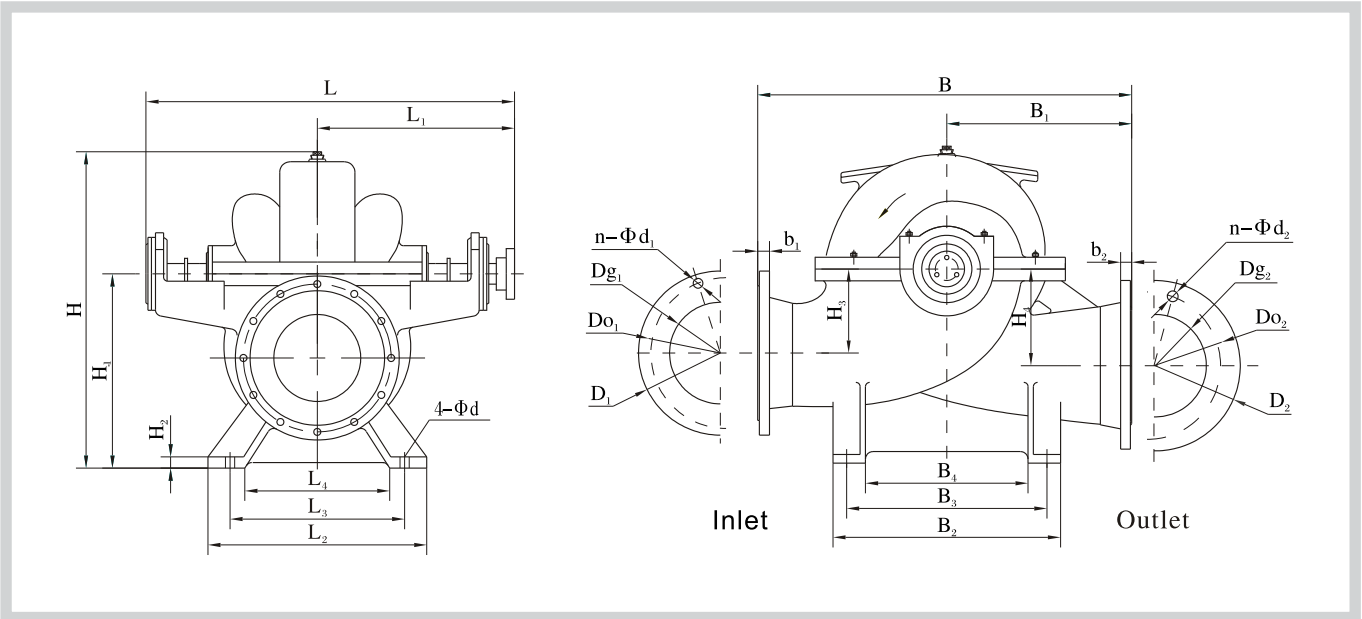
Pump Type	Outline Dimension														Inlet Flange Dimension					Outlet Flange Dimension								
	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	4-Φd	Dg <sub>1</sub>	Do <sub>1</sub>	D <sub>1</sub>	b <sub>1</sub>	n-Φd <sub>1</sub>	Dg <sub>2</sub>	Do <sub>2</sub>	D <sub>2</sub>	b <sub>2</sub>	n-Φd <sub>2</sub>		
150-100-HS-78											472.5																	
150-100-HS-78A											472.5				155													
150-100-HS-50	713.5	397	330	280	200	550	250	350	280	—	457.5	285	25	140		Φ 18	150	240	280	24	8-Φ23	100	180	215	22	8-Φ18		
150-100-HS-50A											457.5				140													
150-100-HS-50B											457.5																	
200-125-HS-95											555																	
200-125-HS-95A	852.5	485	330	280	190	680	330	350	280	—	555	355	25	170	170	Φ 18	200	295	335	26	8-Φ23	125	210	245	24	8-Φ18		
200-125-HS-95B											555																	
200-150-HS-63											549																	
200-150-HS-63A	743.5	409	330	280	190	620	300	350	280	—	549	355	25	170	170	Φ 18	200	295	335	26	8-Φ23	150	240	280	24	8-Φ23		
200-150-HS-42											549																	
200-150-HS-42A	743.5	409	330	280	190	620	300	350	280	—	549	355	25	170	170	Φ 18	200	295	335	26	8-Φ23	150	240	280	24	8-Φ23		
250-150-HS-65											796																	
250-150-HS-65A	1056.5	591	410	350	230	880	400	510	400	—	796	450	30	240	290	Φ 27	250	350	390	28	12-Φ23	150	240	280	24	8-Φ23		
250-200-HS-39											750																	
250-200-HS-39A	983.5	552	410	350	230	890	440	550	450	—	750	450	30	200	260	Φ 27	250	350	390	28	12-Φ23	200	295	335	26	8-Φ23		
250-200-HS-24											738																	
250-200-HS-24A	963.5	542	410	350	230	850	400	550	450	—	738	450	30	230	230	Φ 27	250	350	390	28	12-Φ23	200	295	335	26	8-Φ23		
250-200-HS-14											709																	
250-200-HS-14A	892.5	485	410	350	230	745	330	550	450	—	709	450	30	210	215	Φ 27	250	350	390	28	12-Φ23	200	295	335	26	8-Φ23		

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



## Dimension of HS Series

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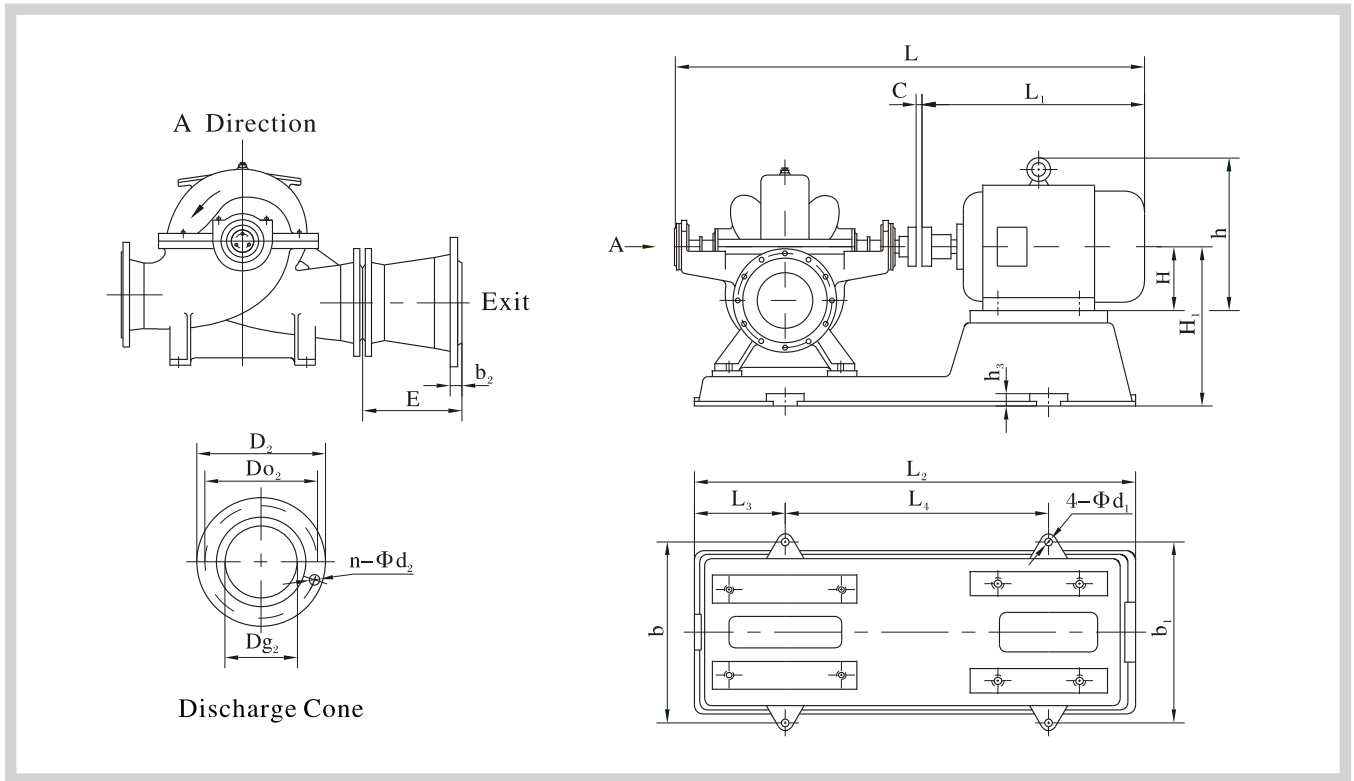
## Outline Sheet of HS Series Pump

Unit: mm

Pump Type	Outline Dimension															Inlet Flange Dimension					Outlet Flange Dimension					
	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	4-Φd	Dg <sub>1</sub>	Do <sub>1</sub>	D <sub>1</sub>	b <sub>1</sub>	n-Φd <sub>1</sub>	Dg <sub>2</sub>	Do <sub>2</sub>	D <sub>2</sub>	b <sub>2</sub>	n-Φd <sub>2</sub>
350-300-HS-16	1120.5	614	600	500	360	1168	584	700	600	450	970	620	50	310	310	Φ34	350	460	500	30	16-Φ23	350	460	500	30	16-Φ23
350-300-HS-16A																										
500-300-HS-98																										
500-300-HS-98A	1639.5	912	760	580	420	1550	750	1020	800	580	1381	800	55	425	545	4-Φ42	500	620	670	34	20-Φ26	300	400	440	28	12-Φ23
500-300-HS-98B																										
500-350-HS-59																										
500-350-HS-59A	1637.5	905	760	580	420	1640	810	1020	800	580	1300	800	55	370	480	4-Φ41	500	620	670	34	20-Φ26	350	460	505	30	16-Φ23
500-350-HS-59B																										
500-350-HS-35																										
500-350-HS-35A	1373.5	766	760	580	420	1350	630	1020	800	580	1270	800	55	415	415	4-Φ41	500	620	670	34	20-Φ26	350	460	505	30	16-Φ23
500-400-HS-22																										
500-400-HS-22A	1376.5	750	760	580	420	1460	640	1020	800	580	1266	800	55	410	410	4-Φ41	500	620	670	34	20-Φ26	400	515	565	32	16-Φ26
500-500-HS-13	1311.5	717.5	760	580	420	1550	775	1020	800	580	1251	800	55	410	410	4-Φ41	500	620	670	34	20-Φ26	500	620	670	34	20-Φ25
600-400-HS-75																										
600-400-HS-75A	1694.5	940	940	760	600	1900	940	1020	800	580	1550	950	55	425	555	4-Φ41	600	725	780	36	20-Φ30	400	515	565	32	16-Φ26
600-400-HS-47	1694.5	940	940	760	600	1595	745	1020	800	580	1505	950	55	490	490	4-Φ41	600	725	780	36	20-Φ30	400	515	565	32	16-Φ26
600-500-HS-32																										
600-500-HS-32A	1609.5	882	940	760	600	1600	750	1020	800	580	1490	950	55	480	480	4-Φ41	600	725	780	36	20-Φ30	500	620	670	34	20-Φ26
600-500-HS-32B																										
600-500-HS-22																										
600-500-HS-22A	1471.5	810	940	760	600	1790	840	1020	800	580	1476	950	55	460	460	4-Φ41	600	725	780	36	20-Φ30	500	620	670	34	20-Φ26



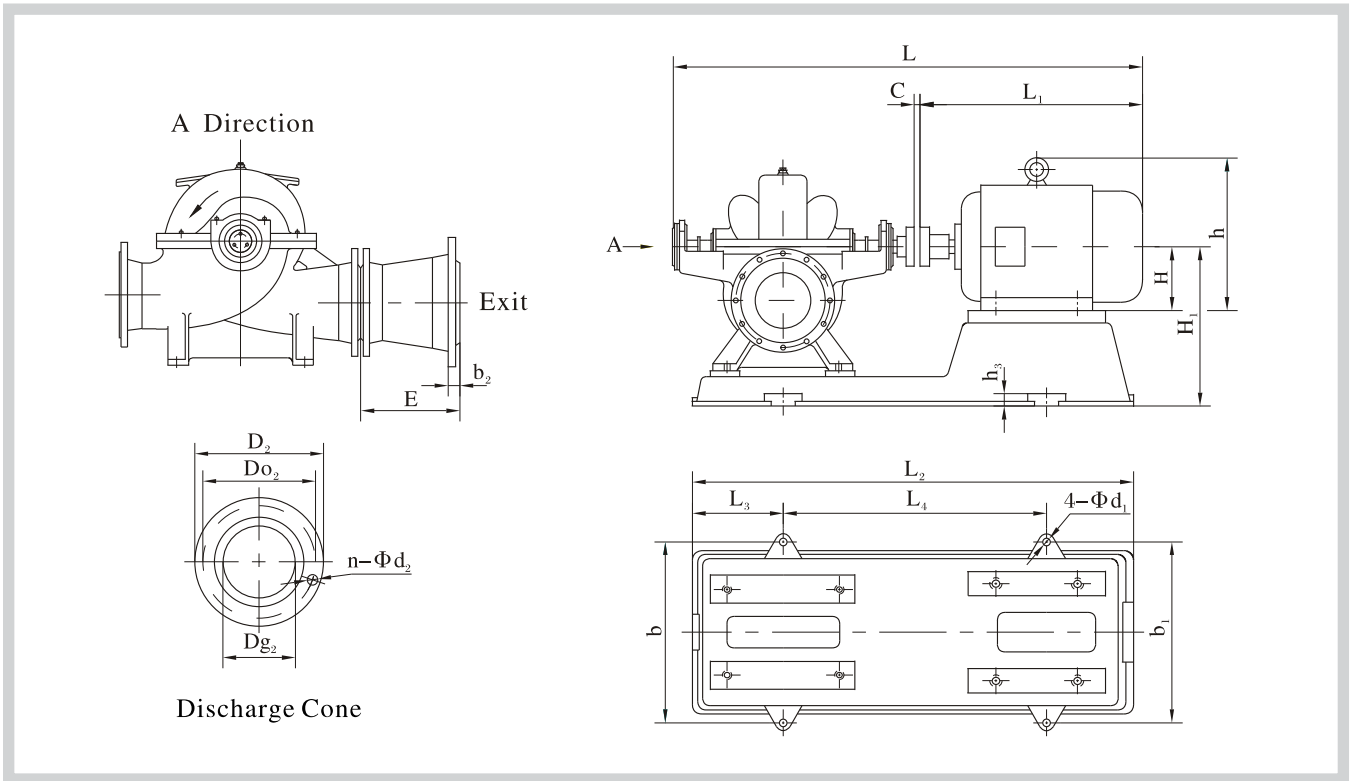
# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



Outline Dimension Sheet of HS Series (with base) (mm)

Pump Type	C	Electric Motor			Motor Dimension			Base Dimension							E	H <sub>1</sub>	L	Discharge Cone Dimension				
		Model	Power (kW)	Voltage (V)	L <sub>1</sub>	h	H	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	b	b <sub>1</sub>	h <sub>3</sub>	4-Φd <sub>1</sub>				Dg <sub>2</sub>	D <sub>2</sub>	D <sub>O2</sub>	b <sub>2</sub>	n-Φd <sub>2</sub>
150-100-HS-78	4	Y250M-2	55	380	930	575	250	1382	221	884	462	635	40	Φ25	300	385	1648.5	150	280	240	24	8-Φ23
150-100-HS-78A		Y250M-2	45		815	530	225	1274	211	812	462	564	40									
150-100-HS-50	4	Y200L <sub>2</sub> -2	37	380	775	475	200	1241	215	800	462	550	40	Φ25	300	385	1492	150	280	240	24	8-Φ23
150-100-HS-50A		Y200L <sub>1</sub> -2	30		775	475	200	1241	215	800	462	550	40				1492					
150-100-HS-50B		Y180M-2	22		670	430	180	1150	200	780	462	550	40				1387					
200-150-HS-63	4	Y280S-2	75	380	1000	640	280	1456.5	211	927	465	695	40	Φ25	350	455	1747.5	200	335	295	26	8-Φ23
200-150-HS-63A		Y250M-2	55		930	575	250	1382	221	884	465	635	40				1677.5					
200-150-HS-42	4	Y225M-2	45	380	815	530	225	1312	210	880	437	544	40	Φ25	350	455	1562.5	200	335	295	24	8-Φ23
200-150-HS-42A		Y200L <sub>1</sub> -2	37		775	475	200	1279.5	216	824	437	522	40				1522.5					
250-200-HS-39	4	Y280S-4	75	380	1000	640	280	1665	258	1072	655	735	40	Φ30	300	570	1987.5	250	390	350	28	12-Φ23
250-200-HS-39A		Y250M-4	55		930	575	250	1586	258	1005	665	665	40				1917.5					

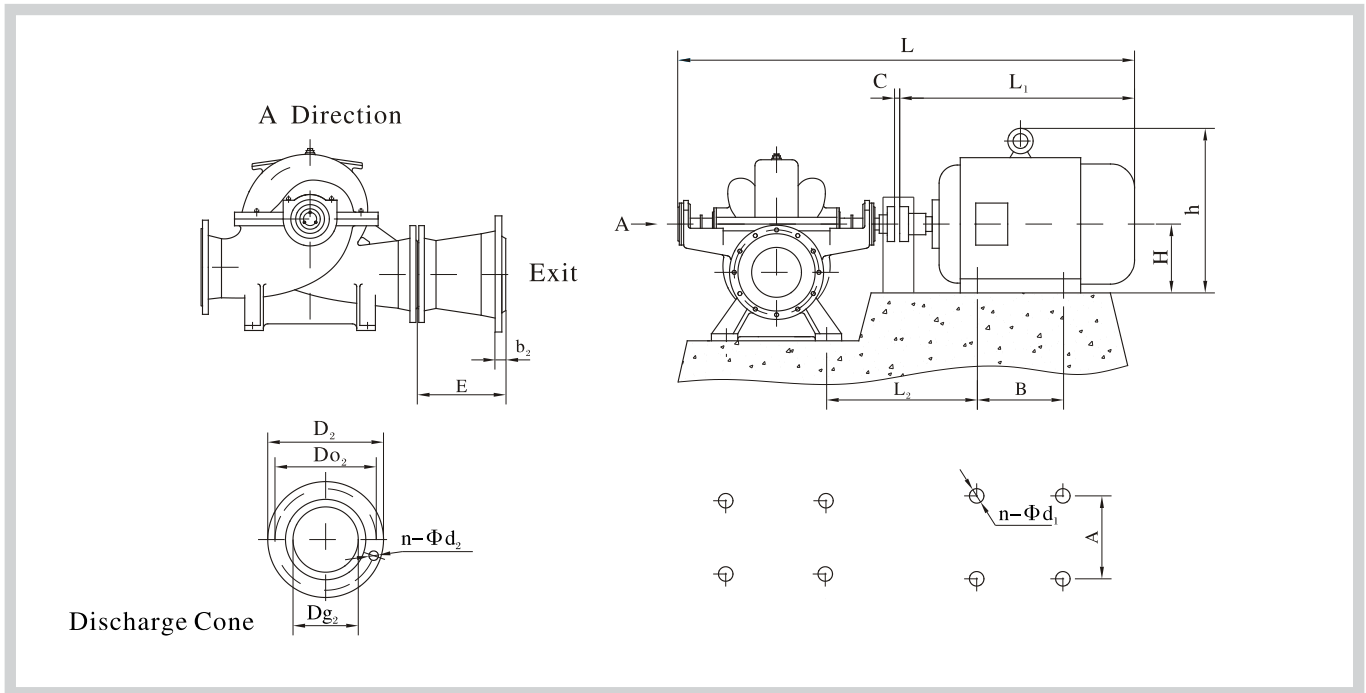
# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



Outline Dimension Sheet of HS Series (with base) (mm)

Pump Type	C	Electric Motor			Motor Dimension			Base Dimension						E	$H_1$	L	Discharge Cone Dimension					
		Model	Power (kW)	Voltage (V)	$L_1$	h	H	$L_2$	$L_3$	$L_4$	b	$b_1$	$h_3$				$4-\Phi d_1$	$D_{G_2}$	$D_2$	$D_{O_2}$	$b_2$	$n-\Phi d_2$
250-200-HS-24	4	Y225M-4	45	380	845	530	225	1496	241	950	652	652	40	$\Phi 24$	300	570	1812.5	250	390	350	28	12- $\Phi 23$
250-200-HS-24A		Y225S-4	37		820	530	225															
250-200-HS-14	4	Y200L-4	30	380	775	475	200	1402.5	260	880	665	605	40	$\Phi 23$	300	570	1671.5	250	390	350	28	12- $\Phi 23$
250-200-HS-14A		Y180M-4	22		670	430	180															
300-250-HS-32	4	Y315S-4	110	380	1200	760	315	1878	300	1200	690	735	50	$\Phi 30$	300	630	2306.5	300	440	400	28	12- $\Phi 23$
300-250-HS-32A		Y280S-4	75		1000	640	280															
300-250-HS-19	4	Y250M-4	55	380	930	575	250	1598	305	1024	770	700	50	$\Phi 30$	300	630	1912.5	300	440	400	28	12- $\Phi 23$
300-250-HS-19A		Y225M-4	45		845	530	225															
300-300-HS-12	4	Y225S-4	37	380	820	530	225	1565.5	305	1000	770	685	50	$\Phi 30$	—	630	1832.5	—	—	—	—	/
300-300-HS-12A		Y200L-4	30		775	475	200															

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



Outline Dimension Sheet of HS Series (without base) (mm)

Pump Type	C	Electric Motor			Motor Dimension						E	L	L <sub>2</sub>	Discharge Cone Dimension				
		Model	Power (kW)	Voltage (V)	L <sub>1</sub>	H	h	B	A	4-Φd <sub>1</sub>				Dg <sub>2</sub>	D <sub>2</sub>	Do <sub>2</sub>	b <sub>2</sub>	n-Φd <sub>2</sub>
150-100-HS-78	4	Y250M-2	55	380	930	250	575	349	406	4-Φ24	300	1648	569	150	280	240	24	8-Φ23
150-100-HS-78A		Y225M-2	45		815	225	530	311	356	4-Φ19		1532.5	520					
150-100-HS-50	4	Y200L <sub>2</sub> -2	37	380	775	200	475	305	318	4-Φ19	300	1492.5	504	150	280	240	24	8-Φ23
150-100-HS-50A		Y200L <sub>1</sub> -2	30		775	200	475	305	318	4-Φ19		1492.5	504					
150-100-HS-50B		Y180M-2	22		670	180	430	241	279	4-Φ15		1387.5	492					
200-125-HS-95	4	Y315S-2	110	380	1200	315	760	406	508	4-Φ28	375	2056.5	705	200	335	295	26	8-Φ23
200-125-HS-95A		Y280M-2	90		1050	280	640	419	457	4-Φ24		1906.5	679					
200-125-HS-95B		Y280S-2	75		1000	280	640	368	457	4-Φ24		1856.5	679					
200-150-HS-63	4	Y280S-2	75	380	1000	280	640	368	457	4-Φ24	350	1747.5	603	200	335	295	26	8-Φ23
200-150-HS-63A		Y250M-2	55		930	250	565	349	406	4-Φ24		1677.5	581					
200-150-HS-42	4	Y225M-2	45	380	815	225	530	311	356	4-Φ19	350	1562.5	563	200	335	295	26	8-Φ23
200-150-HS-42A		Y200L <sub>2</sub> -2	37		775	200	475	305	318	4-Φ19		1522.5	516					
250-150-HS-65	4	Y315M <sub>1</sub> -4	132	380	1250	315	760	475	508	4-Φ28	500	2310.5	806	250	390	350	28	12-Φ23
250-150-HS-65A		Y315S-4	110		1200			406				2260.5						
250-200-HS-39	4	Y280S-4	75	380	1000	280	640	368	457	4-Φ24	300	1987.5	711	250	390	350	28	12-Φ23
250-200-HS-39A		Y250M-4	55		930	250	575	349	406	4-Φ24		1917.5	689					

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



Outline Dimension Sheet of HS Series (without base) (mm)

Pump Type	C	Electric Motor			Motor Dimension						E	L	L <sub>2</sub>	Discharge Cone Dimension					
		Model	Power (kW)	Voltage (V)	L <sub>1</sub>	H	h	B	A	4-Φd <sub>1</sub>				Dg <sub>2</sub>	D <sub>2</sub>	Do <sub>2</sub>	b <sub>2</sub>	n-Φd <sub>2</sub>	
250-200-HS-24	4	Y225M-4	45	380	845	225	530	311	356	4-Φ19	300	1812.5	660	250	390	350	28	12-Φ23	
250-200-HS-24A		Y225S-4	37		820	225	530	286	356	4-Φ19		1787.5							660
250-200-HS-14	4	Y200L-4	30	380	775	200	475	305	318	4-Φ19	300	1671.5	557	250	390	350	28	12-Φ23	
250-200-HS-14A		Y180L-4	22		710	180	430	279	279	4-Φ15		1606.5							545
300-200-HS-90	5	Y355L <sub>2</sub> -4	315	380	1570	355	1035	630	610	4-Φ28	500	2743.5	848	300	440	400	28	12-Φ23	
300-200-HS-90A		Y355L <sub>1</sub> -4	280	380	1570	355	1035	630	610	4-Φ28		2743.5							848
300-200-HS-90B		Y355M <sub>1</sub> -4	220	380	1570	355	1035	560	610	4-Φ28		2743.5							848
300-250-HS-58	4	YKK355-4	185	6000	2640	355	1330	900	630	4-Φ28	300	3752.5	919	300	440	400	28	12-Φ23	
300-250-HS-58A		Y315M <sub>2</sub> -4	160	380	1250	315	760	457	508	4-Φ28		2362.5							780
300-250-HS-58B		Y315M <sub>1</sub> -4	132	380	1200	315	760	457	508	4-Φ28		2362.5							780
300-250-HS-32	4	Y315S-4	110	380	1200	315	760	406	508	4-Φ28	300	2306.5	779	300	440	400	28	12-Φ23	
300-250-HS-32A		Y280S-4	75	380	1000	280	640	368	457	4-Φ24		2106.5							723
300-250-HS-19	4	Y250M-4	55	380	930	250	575	349	406	4-Φ24	300	1912.5	624	300	440	400	28	12-Φ23	
300-250-HS-19A		Y225M-4	45	380	845	225	530	311	356	4-Φ19		1827.5							605
300-300-HS-12	4	Y225S-4	37	380	820	225	530	286	356	4-Φ19	—	1832.5	620	—	—	—	—	—	
300-300-HS-12A		Y200L-4	30	380	775	200	475	305	318	4-Φ19		1787.5							574
350-200-HS-125	7	JSQ JRQ -158-4	680	6000	1900 2315	630	1280	1020	1100	4-Φ42	750	3356.5 3771.5	1124	350	500	460	30	16-Φ23	
		JS JR -1410-4	680	3000	1880 2325	560	1270	970	940	4-Φ42		3318.5 3743.5							1131
		JS JR -158-4	680	6000	1780 2205	685	1435	1020	1100	4-Φ42		3353.5 3763.5							1106
350-200-HS-125A	7	JSQ JRQ -148-4	570	6000	1765 2200	560	1130	870	940	4-Φ42	300	3221.5 3656.5	1149	350	500	460	30	16-Φ23	
		JS JR -148-4	570	3000	1780 2205	560	1270	870	940	4-Φ42		3218.5 3643.5							1131
		JS JR -1410-4	570	6000	1880 2305	560	1270	970	940	4-Φ42		3318.5 3743.5							1131
350-200-HS-125B	7	JSQ JRQ -1410-4	500	6000	1865 2300	560	1130	970	940	4-Φ42	300	3321.5 3576.5	1149	350	500	460	30	16-Φ23	
		JS JR -147-4	500	3000	1780 2205	560	1270	870	940	4-Φ42		3218.5 3643.5							1131
		JS JR -1410-4	500	6000	1880 2305	560	1270	970	940	4-Φ42		3318.5 3743.5							1131
350-250-HS-75	5	YKK400-4	355	6000	2810	400	1510	1000	710	4-Φ35	500	4085.3	1030	350	500	460	30	16-Φ23	
350-250-HS-75A		Y315L <sub>1</sub> -4	280	380	1570	355	1035	630	610	4-Φ28		2845.5							889
350-250-HS-75B		Y355M <sub>1</sub> -4	220	380	1570	355	1035	560	610	4-Φ28		2845.5							889
350-300-HS-44	5	Y355M <sub>1</sub> -4	220	380	1570	355	1035	560	610	4-Φ28	300	2805.5	854	350	500	460	30	16-Φ23	
350-300-HS-44A		Y315M <sub>1</sub> -4	160	380	1250	315	760	457	508	4-Φ28		2485.5							816
350-300-HS-26	4	Y315M <sub>1</sub> -4	132	380	1250	315	760	457	508	4-Φ28	300	2425.5	783	350	500	460	30	16-Φ23	
350-300-HS-26A		Y280M-4	90	380	1050	280	640	419	457	4-Φ24		2225.5							727
350-300-HS-16	4	Y280S-4	75	380	1000	280	640	368	457	4-Φ24	—	2124.5	698	—	—	—	—	—	
350-300-HS-16A		Y250M-4	55	380	930	250	575	349	406	4-Φ24		2054.5							676
350S <sub>1</sub> -125	7	JS JR -126-6	255	380	1295 1740	450	1005	550	710	4-Φ32	750	2733.5 3178.5	1041	350	500	460	30	16-Φ23	
350S <sub>1</sub> -75	5	JS JR -126-6	112	380	1295 1735	375	875	590	620	4-Φ26	500	2571.5 3011.5	875	350	500	460	30	16-Φ23	

# SINGLE STAGE DOUBLE SUCTION HORIZONTAL SPLIT CASING PUMP



Outline Dimension Sheet of HS Series (without base) (mm)

Pump Type	C	Electric Motor			Motor Dimension						E	L	L <sub>2</sub>	Discharge Cone Dimension				
		Model	Power (kW)	Voltage (V)	L <sub>1</sub>	H	h	B	A	4-Φd <sub>1</sub>				Dg <sub>2</sub>	D <sub>2</sub>	Do <sub>2</sub>	b <sub>2</sub>	n-Φd <sub>2</sub>
350S <sub>1</sub> -44	5	Y315S-6	75	380	1200	315	760	406	508	4-Φ28	300	2743.5	816	350	500	460	30	16-Φ23
350S <sub>1</sub> -26	4	Y250M-6	37	380	930	250	575	349	406	4-Φ24	300	2104.5	705	350	500	460	30	16-Φ23
500-300-HS-98	7	YKK500-6	800	6000	3570	500	1930	1250	900	4-Φ42	1000	5216.5	1354	500	670	620	34	20-Φ26
500-300-HS-98A			630															
500-300-HS-98B			560															
500-350-HS-59	7	YKK450-6	450	6000	3100	450	1700	1120	800	4-Φ35	800	4780.5	1227	500	670	620	34	20-Φ26
500-350-HS-59A			400															
500-350-HS-59B		YKK400-6	315															
500-350-HS-35	5	YKK400-6	280	6000	2810	400	1510	1000	710	4-Φ35	800	4189.5	1027	500	670	620	34	20-Φ26
500-350-HS-35A		Y355L <sub>1</sub> -6	220	380	1570	355	1035	630	610	4-Φ35		2949.5	906					
500-400-HS-22	4	JS <sub>JR</sub> -127-6	185	380	1410 1855	450	1005	650	710	4-Φ32	600	2811.5 3256.5	975	500	670	620	34	20-Φ25
		JS <sub>JR</sub> -128-6	190	3000	1410 1855						300	2811.5 3256.5						
500-400-HS-22A	5	JS <sub>JR</sub> -126-6	130	380	1310 1755	450	1005	550	710	4-Φ32	600	2711.5 3156.5	975	500	670	620	34	20-Φ25
		JS <sub>JR</sub> -126-6	135	3000	1310 1755							2711.5 3156.5						
500-500-HS-13	5	JS <sub>JR</sub> -117-6	115	380	1295 1735	375	875	590	62	4-Φ26	—	2611.5 3051.5	892.5	—	—	—	—	—
		JS <sub>JR</sub> -125-6	110	3000	1310 1755							2626.5 3071.5						
600-400-HS-75	7	JSQ <sub>JRQ</sub> -1510-6	850	3000	1900 2315	630	1280	1020	1100	4-Φ42	600	3601.5 4016.5	1107	500	670	620	34	20-Φ25
		JS <sub>JR</sub> -1510-6	850	3000	1915 2325							3616.5 4026.5						
600-400-HS-75A	7	JSQ <sub>JRQ</sub> -1512-6	780	6000	1900 2315	630	1280	1020	1100	4-Φ42	600	3601.5 4016.5	1107	500	670	620	34	20-Φ25
		JS <sub>JR</sub> -1512-6	780	6000	1915 2325							3616.5 4026.5						
600-400-HS-47	7	JSQ <sub>JRQ</sub> -158-6	550	6000	1900 2325	630	1280	1020	1100	4-Φ42	600	3601.5 4016.5	1107	500	670	620	34	20-Φ25
		JS <sub>JR</sub> -158-6	550	6000	1815 2325							3616.5 4026.5						
600-500-HS-32	6	JS <sub>JR</sub> -1410-6	380	6000	1865 2300	560	1130	970	940	4-Φ42	—	3480.5 3915.5	1073	—	—	—	—	—
		JS <sub>JR</sub> -147-6	380	3000	1880 2305							3495.5 3920.5						
600-500-HS-32A	6	JS <sub>JR</sub> -137-6	280	380	1680 2105	560	1270	770	940	4-Φ42	—	3295.5 3720.5	1073	—	—	—	—	—
		JS <sub>JR</sub> -138-6	280	3000	1520 1955							3135.5 3570.5						
600-500-HS-32B	6	JS <sub>JR</sub> -136-6	240	380	1420 1855	500	1125	660	790	4-Φ32	—	3035.5 3470.5	1013	—	—	—	—	—
		JS <sub>JR</sub> -128-6	215	380	1410 1855							3025.5 3470.5						
		JS <sub>JR</sub> -136-6	220	3000	1420 1855							3035.5 3470.5						
		JS <sub>JR</sub> -137-6	250	3000	1420 1855							3135.5 3570.5						
600-500-HS-22	6	JS <sub>JR</sub> -137-6	250	3000	1520 1955	500	1125	760	790	4-Φ32	—	2977.5 3432.5	941	—	—	—	—	
		JS <sub>JR</sub> -136-6	240	380	1420 1855							2897.5 3332.5						
600-500-HS-22A	6	JS <sub>JR</sub> -127-6	185	380	1410 1855	450	1005	650	710	4-Φ32	—	2887.5 3332.5	926	—	—	—	—	
		JS <sub>JR</sub> -128-6	190	3000	1410 1855							2887.5 3332.5						