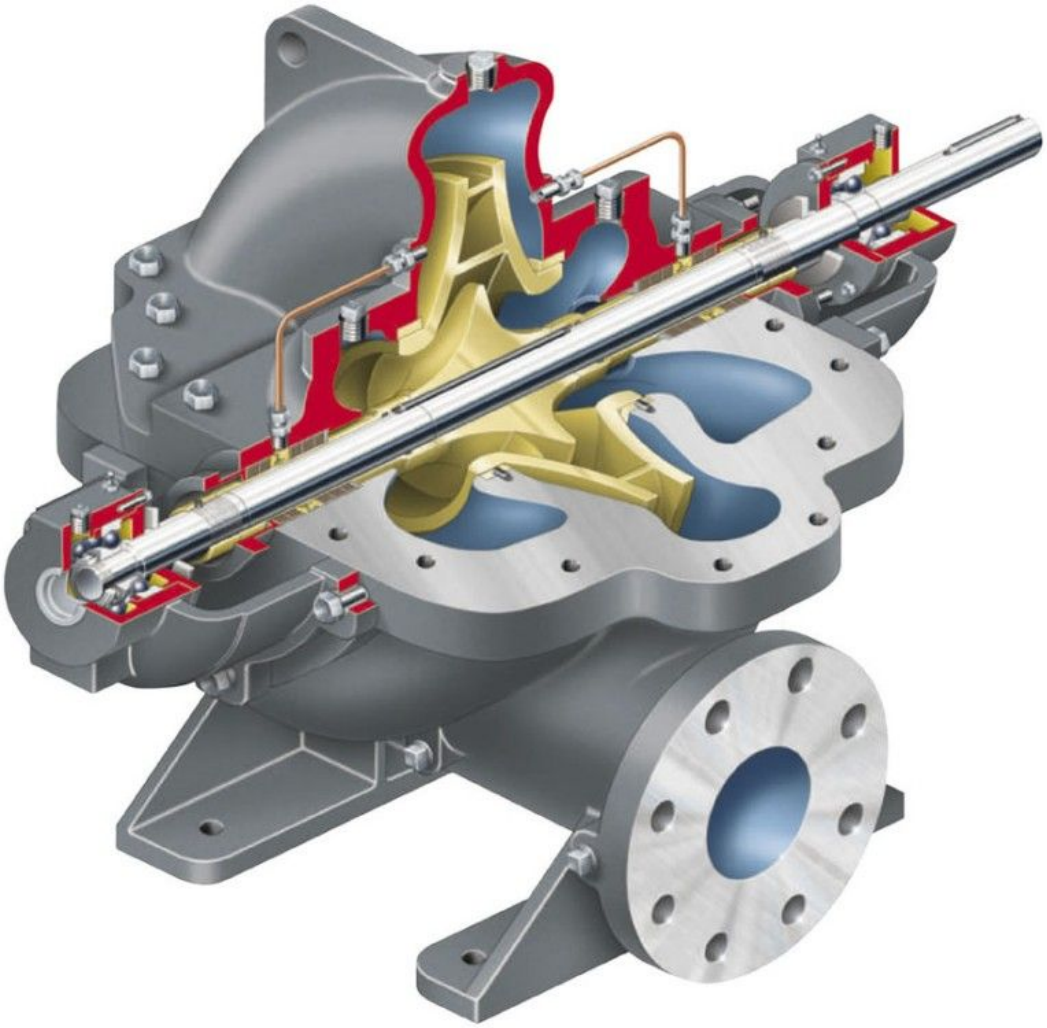
YANGZHOU XIANGXIN ELECTROMECHANICAL IMP.& EXP.CO.,LTD.

S TYPE SINGLE-STAGE DOUBLE-SUCTION HORIZONTAL SPLIT CENTRIFUGAL PUMP



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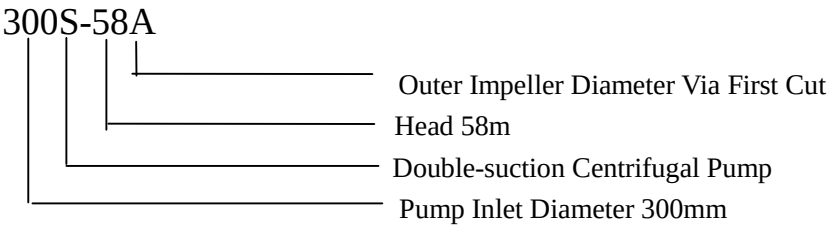
GENERAL

S type pump is a single-stage double-suction horizontal spilt centrifugal pump and used to transport pure water and the liquid of both physical and chemical nature similar to those of water, the maximum temperature of which must not be over 80° C, suitable for water supply and drainage in factories, mines, cities and electric stations, waterlogged land drainage and irrigation of farming land and carious hydraulic projects.

MODEL MEANING



ABOUT THE STRUCTURE

Both inlet and outlet of this pump are placed under the axial line, horizontally and vertical to the axial line, the pump casing is opened in the middle, so it is unnecessary to remove the water inlet and outlet pipelines and motor(or other prime movers). The pump moves CW viewing from the clutch to it. The pump moving CCW can also be made, but it should be specially noted at order.
The main parts are: pump casing(1), pump cover(2), impeller(3), shaft(4), dual-suction seal ring(5), muff(6), bearing(15) etc. All of them, except the axle which is made of quality carbon steel, are made of cast iron. The material may be replaced with others upon different media.
The impeller is static-balance calibrated, fixed with the muff and the muff nuts in both sides and its axial position can be adjusted via the nuts and axial force gets balanced by means of the symmetrical arrangement of its blades, there may be residual axial force which is borne by the bearing at the axle end.
The pump shaft is supported by two single column centripetal ball bearings,which are mounted inside of bearing body on both ends of the pump and lubricated with grease. The dual-suction seal ring is used to reduce the leak at the impeller.
The pump is driven directly by means of connecting to it via an elastic clutch.
The shaft seal is packing seal land, to cool and lubricate the seal cavity and prevent air from getting into the pump, there is a packing ring between the packing. A small volume of high-pressure water flows into the packing cavity via the tapered beard during the pump's working to act as a water seal.

ASSEMBLY&DISASSEMBLY

Assembly of the rotor's parts: in turn mount the impeller, muff, muff nut, packing sleeve, packing ring, packing gland, mechanical seal, mechanical seal bland, water retaining ring and bearing on the pump shaft, put on the dual-suction seal ring and then the clutch.
Check the outer circles of the impeller's seal and the muff on the rotor separately, the radial jumping of which should not be over the setting in the table below:

Nominal Diameter	<50	50-120	120-250	250-500	500-800	800-1250
Jumping Capacity	0.03	0.04	0.05	0.06	0.08	0.10

Mount the rotor on the pump casing and adjust the impeller to have its axial position in the middle of the dual-suction seal ring in both sides and then fixed, then fix the gland of the bearing's body with the fixing screws.
Put on the packing(in case of a packing seal), the paper pad on the middle opened face and the pump cover and tighten the threaded-tail conical pin first and then cover's nut. Mount the packing gland, but do not press the packing too tightly, otherwise the muff may get heated to leave a bigger power consumption; while not too loose, or a big leak of liquid and reduced pump efficiency may result in. If mechanical seal is used, adjust the stud on the gland to ensure no leak with it.
After assembly, move the pump shaft with hand, it should be smooth and uniform without touch.
Disassembly can be made with the steps contrary to above ones.

INSTALLATION

Check both pump and motor to see if any damages with them.
The installation height of the pump plus the hydraulic loss of the suck-in pipeline and its speed energy is just the NPSHa of the unit, which should bigger than NPSHr. The dimensions of the basis should be in line with those of installation of the pump unit.
Installation sequences:
(1) Place the pump on the concrete basis with built-in foot bolts, correct the levelness with the method adjusting the wedge cushion block and properly tighten the bolts to prevent them from displacement.
(2) Grout concrete between the basis and the pump foot.
(3) After the concrete gets solidified, tighten the foot bolts and check the pump's levelness again.
(4) Correct the concentricity between the axles of both pump and motor to have them in a straight line. The allowed tolerance of the non-concentricity of the outer circles of two clutches is 0.1mm and the one of the non-uniform end-face intervals along with the circumference is 0.3mm(another correction of which after both water inlet and outlet pipelines are connected and trail movement, the above requirements should also be met with).
(5) After finding out the rotating direction of the motor is identical to that of the pump, mount the link pin of the clutch.
Both water inlet and outlet pipelines should be supported by a separate stand and not by the pump body.

A good air tightness of the combined face between both pump and pipeline should be kept, especially the inlet pipeline, it must be guaranteed without air leak and without the possibility for air to be nested on the unit.
In general, a foot valve can be mounted if the pump is mounted above the water level of the water inlet so as to start the pump with priming, it can also use the way of vacuum pump water leading.
In general gate valve and check valve are required to be mounted in the water outlet pipeline of the pump(unnecessary for those of a head less than 20m), with the check valve mounted after the gate valve.
The above ways of installation mean the pump without a common foundation.

START、STOP AND RUN

1. Start and stop
（1）Before starting, move the rotor of the pump, which should be felt light, smooth and uniform.
（2）Close the water outlet valve, prime water into the pump(lead water by extracting with a vacuum pump in case of no foot valve). Ensure the pump full of water and no air nested inside of it.
（3）First close the plug of a vacuum or pressure meter, if so mounted on the pump, connected to the pump before starting the motor and then open it when the motor move in the normal speed; next, gradually open the water outlet gate valve and make it smaller in case of a large flowrater of bigger on the contrary.
（4）Uniformly tighten the pressing nut on the packing gland to have liquid leak in drops and pay attention to the temperature rise outside of the packing cavity.
（5）When to stop the pump, first close the plug of the vacuum or pressure meter and the gate valve on the water outlet pipeline, then cut off the power of the motor. Open the square screw plug on the lower side of the pump casing to let the residual water out to prevent frozen cracking in case of a lower ambient temperature.
（6）In a long time stop, remove the pump and dry the parts and coat rust-proof grease on the processed surface.
2. Running
（1）The maximum temperature of the pump's bearing must not be over 75° C.
（2）It is proper for the volume of the calcium-based grease lubricating the bearing to hold a space inside of the bearing body by 1/3-1/2.
（3）Properly press the packing gland in case of a little bit wear and replace it in case of too much wear.
（4）Take a periodic check of the elastic clutch and take care of the temperature rise with the motor's bearing.
（5）During running, stop it at once when noise or other abnormal sound is heard to find the cause and settle it.
（6）Do not raise the pump speed at will, but lowering it is allowed. For instance, with this type of pump, the rated rotating speed is n, flowrate is Q, head is H, axle power is N, lowered speed is n1, the flowrate, head and axle power after speed lowering are Q1, H1 and N1, respectively. Make

conversion by means of the following formula:

$$Q1=(n1/n)Q$$

$$H1=(n1/n)^2H$$

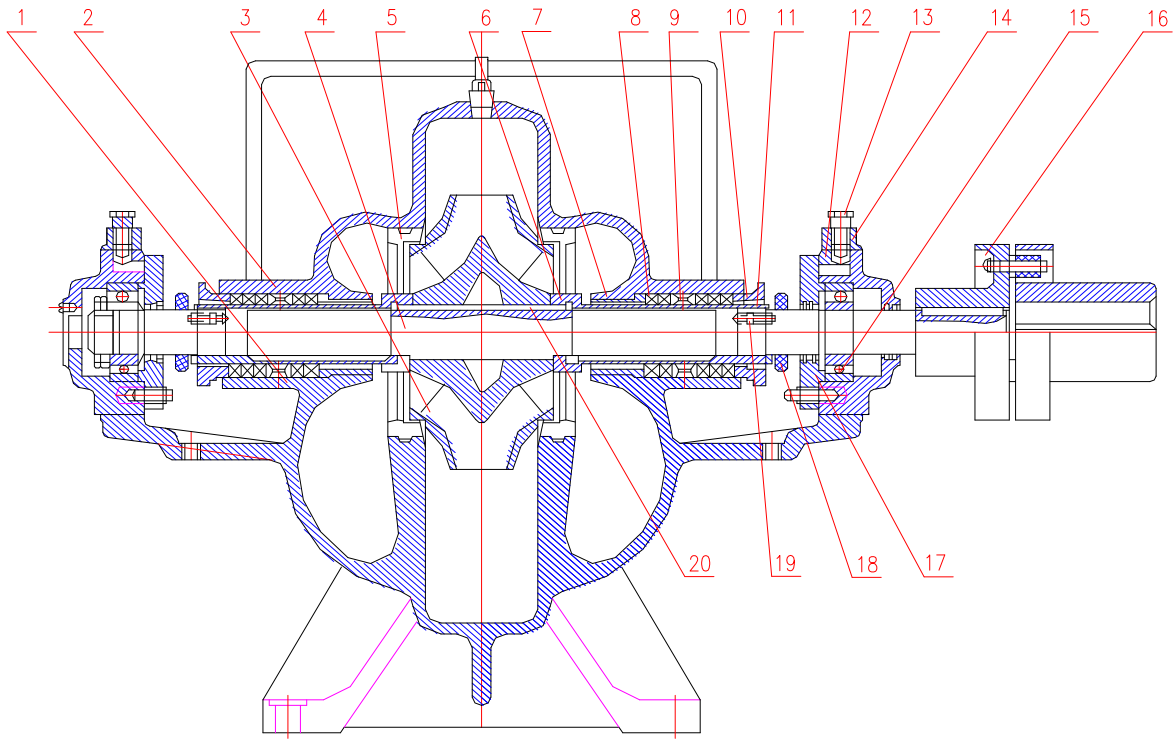
$$N1=(n1/n)^3N$$

TROUBESHOOTING

Failures	Causes	Troubleshooting
Pump not suck water, indicator of pressure and vacuum meters severely jumps.	1.Injected water insufficient. 2.Leak occurs with pipeline or meter.	1.Inject more water. 2.Tighten or block up the leak point.
Pump not suck water, high vacuum is shown on vacuum meter.	1.Foot valve not opened or blocked up. 2.Too big resistance with suction pipeline. 3.Too high water-suction height.	1.Correct or replace foot valve. 2.Rinse or replace pipeline. 3.Lower the height.
No water out of the pump, pressure is shown on pressure meter.	1.Too big resistance with water outlet pipeline. 2.Wrong rotating direction. 3.Impeller blocked up. 4.Rotating speed not enough.	1.Check or shorten pipeline. 2.Correct the direction of motor. 3.Clean impeller. 4.Check power voltage and raise the speed.
Flowrate insufficient or too low head.	1.Impeller or both water inlet and outlet pipelines blocked up. 2.Too much wear with dual-suction seal ring or impeller damaged. 3.Rotating speed is lower than the set value.	1.Clean impeller or pipelines. 2.Replace it. 3.Adjust it to the rated value.
Too large consumption of power by pump.	1.Too tightly pressed packing. 2.Friction between impeller and dual-suction seal ring. 3.Too large flowrate.	1.Loosen packing. 2.Check the cause to remove it. 3.Reduce the opening gate valve.
Abnormal sound inside of pump, no water goes upward into pump.	1.Too big resistance with suction pipeline. 2.Too high suction height. 3.Air is sucked into the water suck-in place. 4.Too high temperature with the liquid being sucked. 5.Steam loss occurs due to a too large flowrate.	1.Clean suction pipeline and foot valve. 2.Lower water suction head. 3.Check foot valve, lower suction head, block up the air leak place. 4.Lower liquid temperature. 5.Adjust outlet gate valve to make it run within the set range of performance.

Abnormal vibration with pump.	1.Steam loss occurs. 2.Impeller is unbalanced. 3.Pump and motor axles are not concentric. 4.Foot stud loose.	1.Adjust outlet gate valve to make it run within the set range of performance. 2.Take static correction for impeller. 3.Correct the concentric. 4.Tighten foot stud.
Bearing over heated.	1.Lack of oil inside bearing. 2.Pump and motor axles are not concentric.	1.Check and clean bearing body, lubricate it. 2. Correct the concentric.

PUMP STRUCTURE DRAWING



Number	Name	Number	Name
1	Pump casing	11	Muff nut
2	Pump cover	12	Bearing body
3	Impeller	13	Fixing screw
4	Shaft	14	Bearing body gland
5	Dual-suction seal ring	15	Bearing
6	Muff	16	Clutch
7	Packing sleeve	17	End cap of bearing
8	Packing	18	Water retaining ring
9	Packing ring	19	Stud
10	Packing gland	20	Key

PUMP PERFORMANCE DATA

Model	Q		H	n	N（kw)		η	NPSHr	D	Weight（kg）
	m³/h	l/s	m	r/min	Pa	Motor	%	（m)	（mm）	Pump/Base
150S-100	160	44.5	100	2900	59.8	75	73	4.5		168/112
150S-78	160	44.5	78	2900	46	55	74	4.5	245	158/112
150S-78A	140	39	60	2900	31.9	45	72	4.5	223	158/95
150S-50	160	44.5	50	2900	27.6	37	79	4.5	206	147/112
150S-50A	140	39	39	2900	19.9	30	75	4.5	185	147/95
150S-50B	133	36.9	36	2900	18.6	22	70	4.5	170	147/80
200S-95	280	78	95	2900	94.4	125	77	4.5	282	240/-
200S-95A	268	74.5	87	2900	84.8	110	75	5	270	240/-
200S-95B	245	68	72	2900	64.9	75	74	5	250	240/-
200S-63	280	78	63	2900	59.9	75	81	5	235	187/135
200S-63A	245	68	48	2900	41.6	55	77	5	210	187/124
200S-42	280	78	42	2900	37.7	45	85	5	204	219/108
200S-42A	245	68	36	2900	30	37	80	5	193	219/108
250S-65	485	134.5	65	1450	108.5	135	79	3.8	450	518/-
250S-65A	420	116.5	48	1450	71.2	90	77	3.8	400	518/-
250S-39	485	134.5	39	1450	62	75	83	3.8	367	400/240
250S-39A	420	116.5	29	1450	42.5	55	78	3.8	328	400/233
250S-24	485	134.5	24	1450	36.9	45	86	3.8	285	370/201
250S-24A	420	116.5	20	1450	27.6	37	83	3.8	265	370/201
250S-14	485	134.5	14	1450	21.7	30	85	3.8	245	305/225
250S-14A	420	116.5	10	1450	14.1	18.5	81	3.8	214	305/215
300S-90	790	219	90	1450	242	320	80	4.8	530	840/-
300S-90A	756	210	78	1450	217	280	74	4.8	500	840/-
300S-90B	720	200	67	1450	180	220	73	4.8	470	840/-
300S-58	790	219	58	1450	148.2	185	84	4.8	445	599/-
300S-58A	735	204	50	1450	122	160	82	4.8	419	599/-
300S-58B	685	190	43	1450	100.3	132	80	4.8	394	599/-
300S-32	790	219	32	1450	79	90	87	4.8	348	709/-
300S-32A	700	194.5	26	1450	60	75	84	4.8	318	709/-
300S-19	790	219	19	1450	46.9	55	87	4.8	290	434/485
300S-19A	700	194.5	15	1450	34.8	45	82	4.8	260	434/490
300S-12	790	219	12	1450	31.1	37	83	4.8	251	413/243
300S-12A	700	194.5	10	1450	24.1	30	79	4.8	251	413/237
350S-125	1260	351	125	1450	531	680	81	5.5	655	1580/-
350S-125A	1181	328	112	1450	462	570	78	5.5	633	1580/-
350S-125B	1098	305	96	1450	373	500	77	5.5	615	1580/-
350S-75	1260	351	75	1450	304	360	85	5.5	503	1200/-

350S-75A	1170	325	65	1450	247	280	84	5.5	470	1200/-
350S-75B	1080	300	55	1450	197	220	82	5.5	443	1200/-
350S-44	1260	351	44	1450	177.6	220	87	5.5	406	1105/-
350S-44A	1116	314	36	1450	130	160	84	5.5	370	1105/-
350S-26	1260	350	26	1450	101.4	135	88	5.5	340	672/-
350S-26A	1130	314	21	1450	77.8	90	83	5.5	310	672/-
350S-16	1260	350	16	1450	63.8	75	86	5.5	290	632/-
350S-16A	1130	314	12	1450	45.6	55	81	5.5	250	632/-
500S-98	2020	561	98	970	678	800	79.5	6	860	-
500S-98A	1872	520	83	970	540	630	78.5	6	800	-
500S-98B	1746	485	74	970	452	560	78	6	745	-
500S-59	2020	561	59	970	392	450	83	6	675	-
500S-59A	1872	520	49	970	333	400	75	6	630	-
500S-59B	1746	485	40	970	258	315	74	6	585	-
500S-35	2020	561	35	970	219	280	88	6	530	-
500S-35A	1746	485	27	970	152	220	85	6	498	-
500S-22	2020	561	22	970	144.2	185	84	6	460	1722/-
500S-22A	1746	485	17	970	101	132	80	6	410	1722/-
500S-13	2020	561	13	970	86.2	115	83	6	390	-
600S-13	2020	561	13	970	86.2	110	83	6	390	-
600S-75	3170	880	75	970	761	850	85	8.7	782	-
600S-75A	2880	800	62	970	608.2	780	80	7.5	716	-
600S-47	3170	800	47	970	461	560	88	7.5	626	-
600S-32	3170	880	32	970	314	380	88	7.5	540	-
600S-32A	2880	800	27	970	246	280	86	7.5	500	-
600S-32B	2628	730	22	970	187.4	240	84	7.5	-	-
600S-22	3170	880	22	970	215.7	250	88	7	485	-
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	3870	1075	11	585	133.3	185	87	5	-	-
800S-32	5500	1528	32	730	538.5	630	89	7	740	6723/-
	4400	1222	20.5	585	279.1	315	88	4.5	680	6723/-
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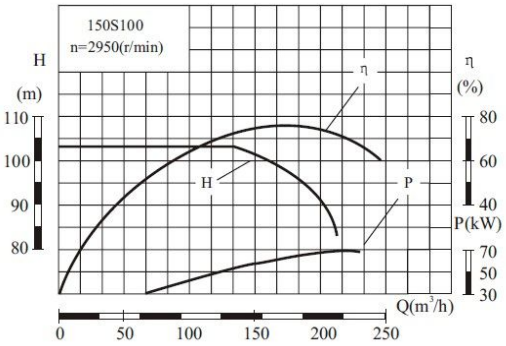
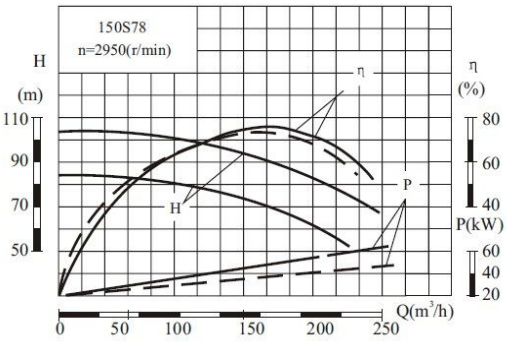
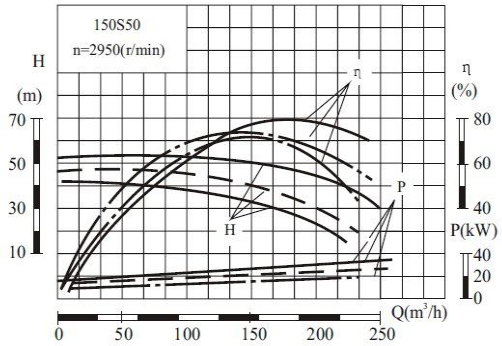
	4060	1128	25	585	314.1	355	88	6	-	-
800S-76	5500	1528	76	730	1293.6	1600	88	6	-	-
	4400	1222	49	585	674.9	800	87	4	-	-
800S-76A	5080	1411	65	730	1033.6	1250	87	6	-	-

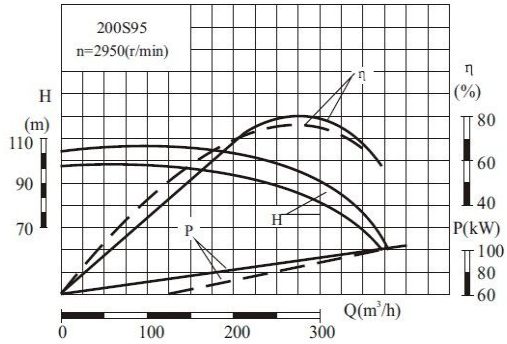
	4070	1130	42	585	541.3	630	86	4	-	-
800S-76B	4680	1300	55	730	824.7	1000	85	6	-	-
	3750	1042	35	585	425.5	500	84	4	-	-

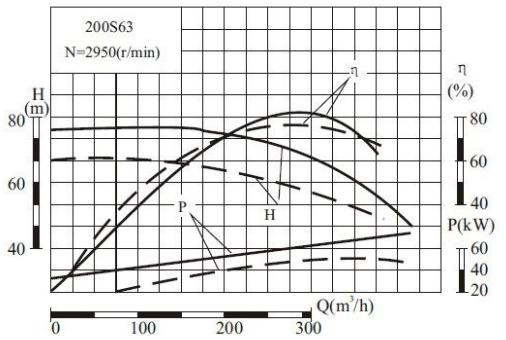
PUMP PERFORMANCE CURVE

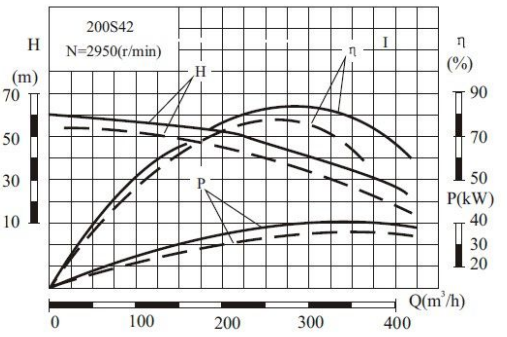


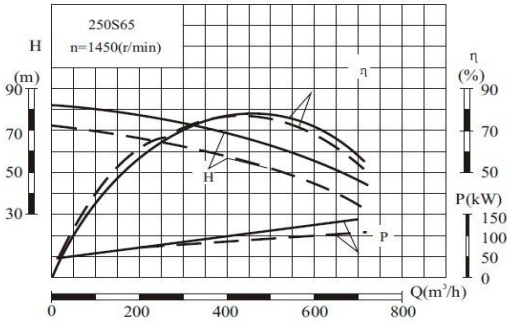


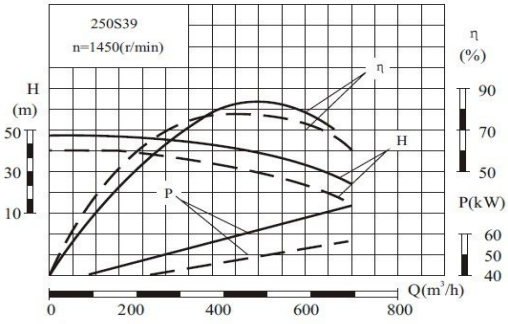


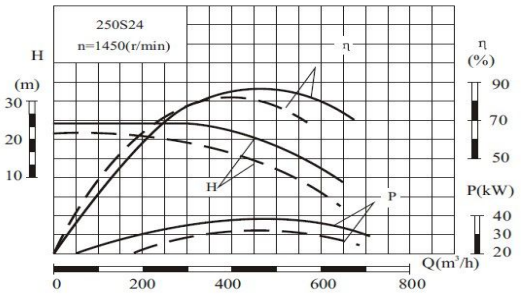











250S24
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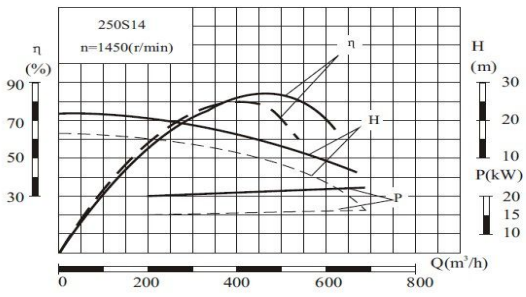
H (m)
η (%)
P(kW)
Q(m³/h)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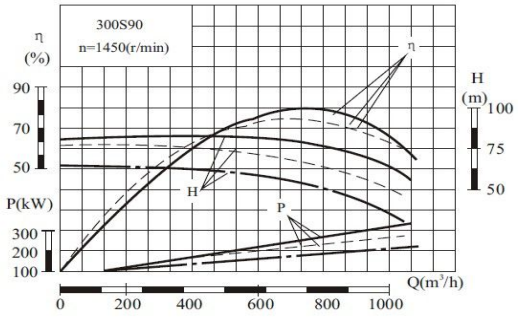
Q(m³/h)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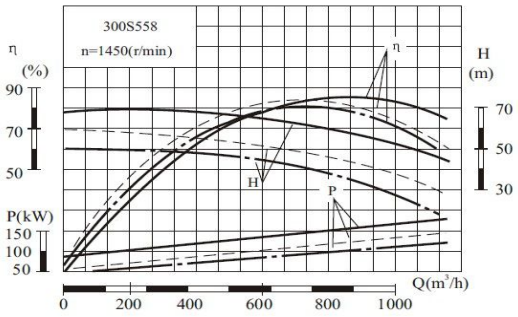
P(kW)
Q(m³/h)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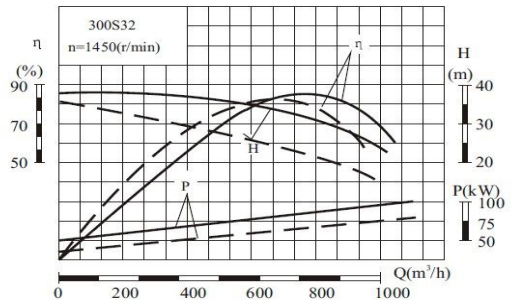
P(kW)
Q(m³/h)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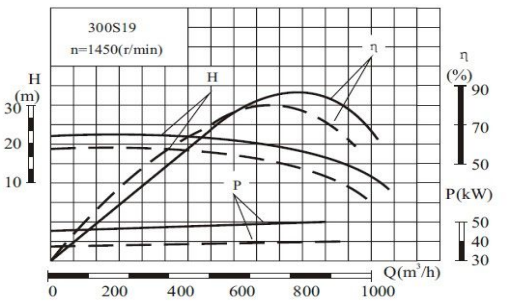
Q(m³/h)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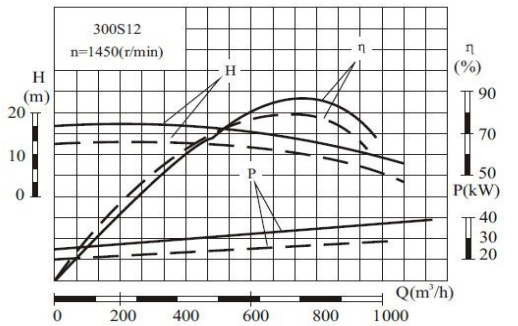
P(kW)
Q(m³/h)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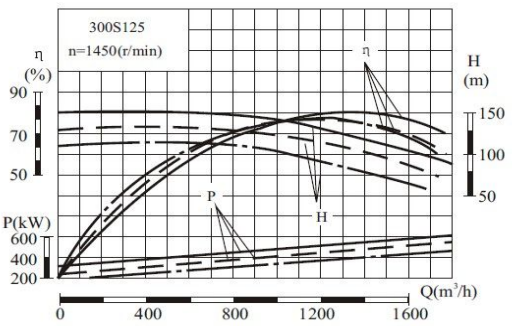
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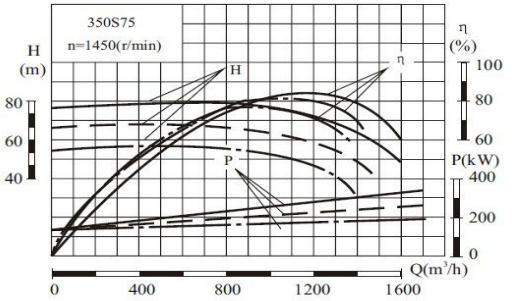
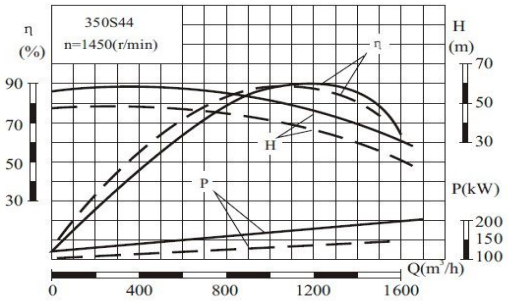
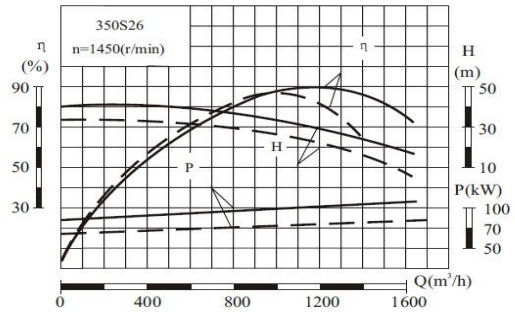
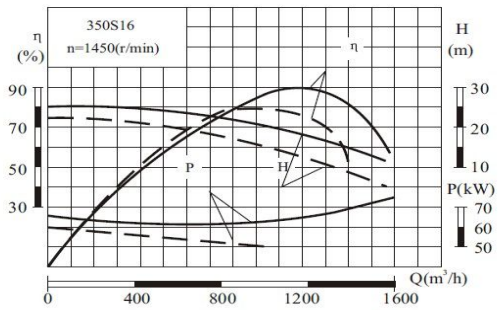
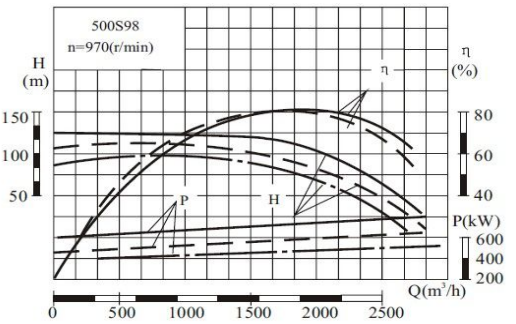
η (%)
H (m)
P(kW)
Q(m³/h)

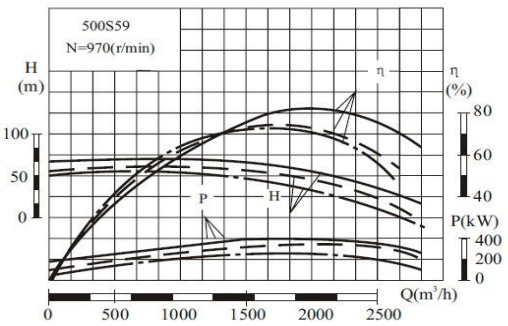

350S75
n=1450(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

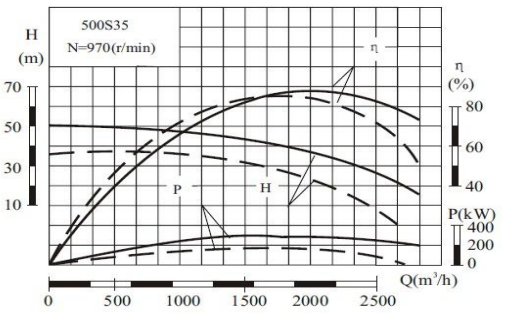

350S44
n=1450(r/min)
η (%)
H (m)
P(kW)
Q(m³/h)

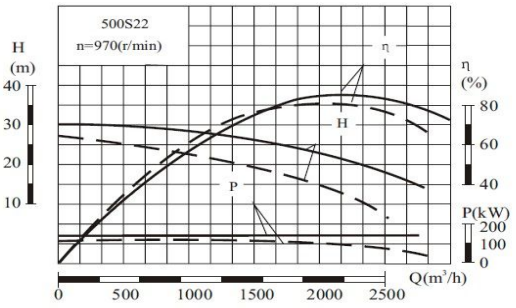

350S26
n=1450(r/min)
η (%)
H (m)
P(kW)
Q(m³/h)

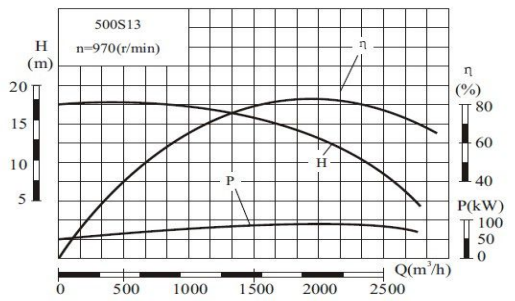

350S16
n=1450(r/min)
η (%)
H (m)
P(kW)
Q(m³/h)

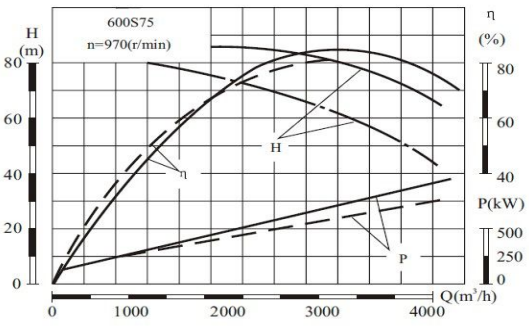

500S98
n=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

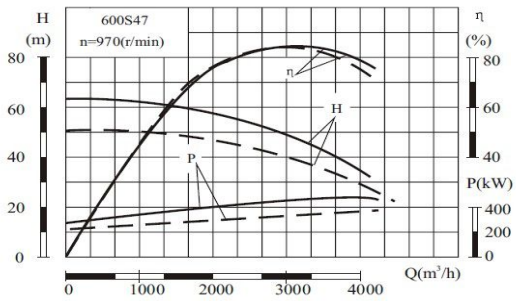

500S59
N=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

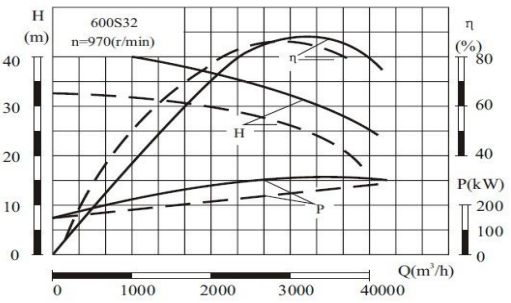

500S35
N=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

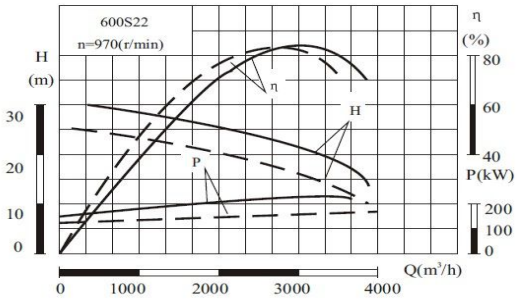

500S22
n=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

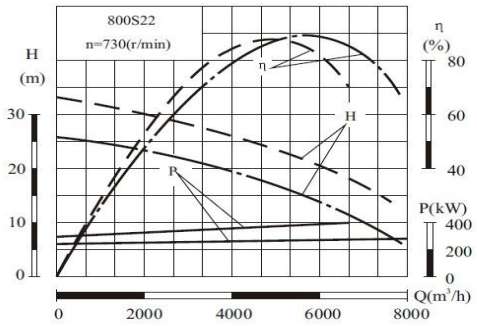

500S13
n=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

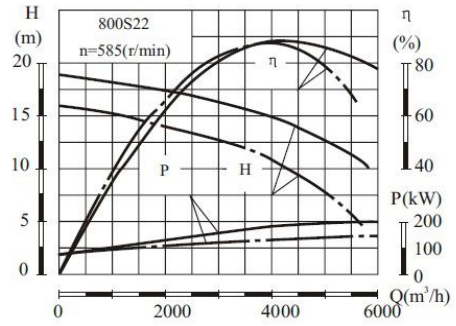

600S75
n=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

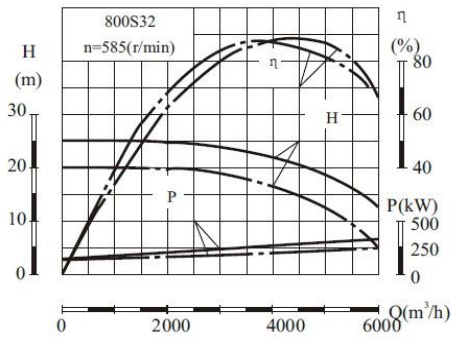

600S47
n=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

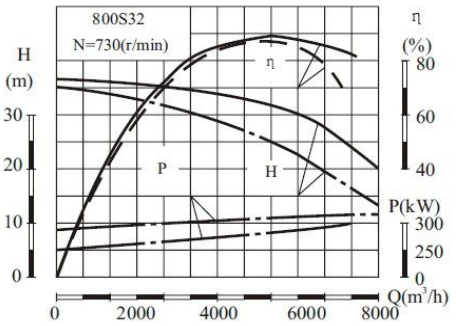

600S32
n=970(r/min)
H (m)
η (%)
P(kW)
Q(m³/h)

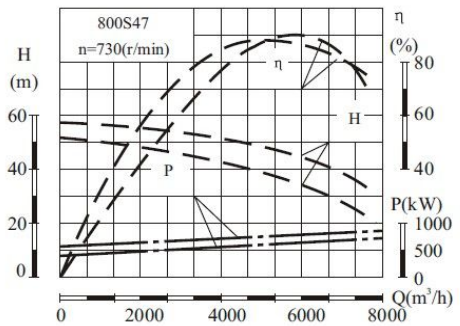

600S22
n=970(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)

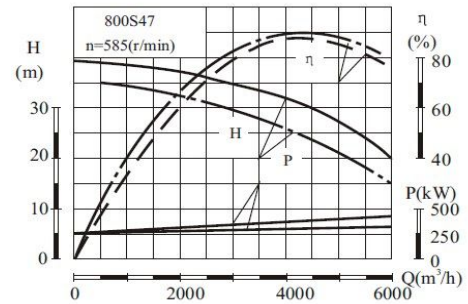

800S22
n=730(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)

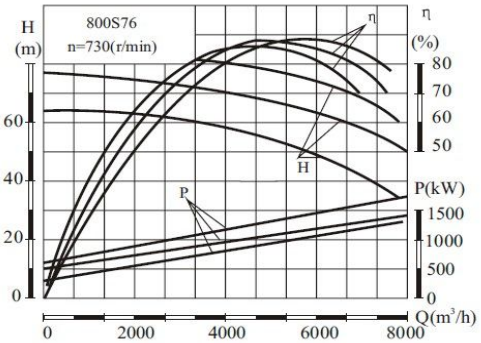

800S22
n=585(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)

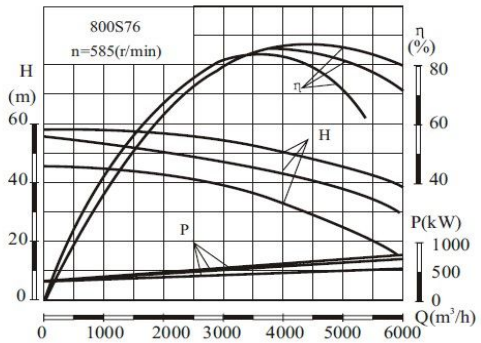

800S32
n=585(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)


800S32
N=730(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)

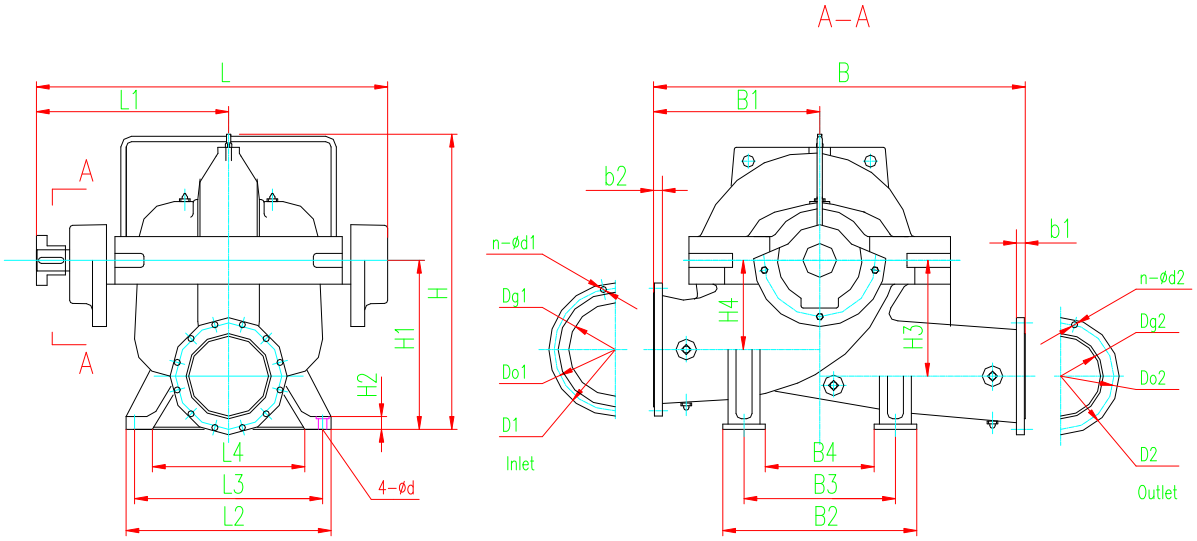

800S47
n=730(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)


800S47
n=585(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)


800S76
n=730(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)


800S76
n=585(r/min)
H
(m)
η
(%)
P(kW)
Q(m³/h)

PUMP OUTLINE DRAWING



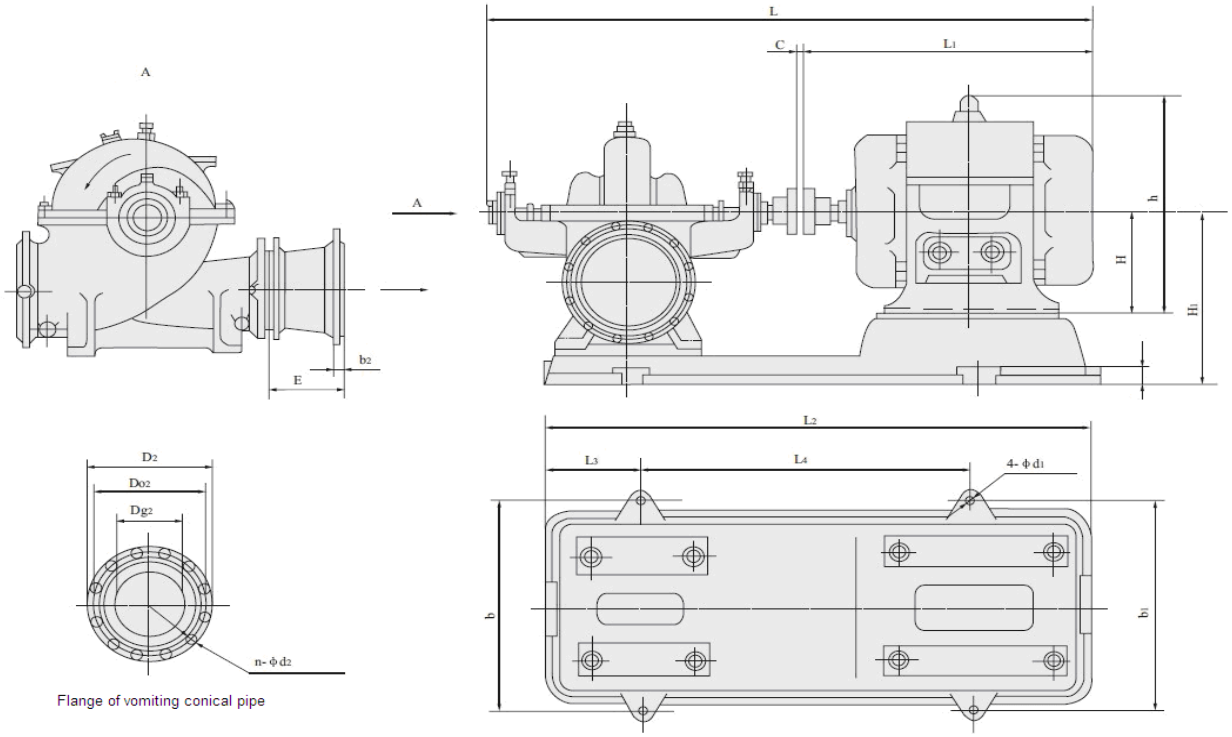
OUTLINE DIMENSION TABLE

Model	Pump outline dimension															
	L	L1	L2	L3	L4	B	B1	B2	B3	B4	H	H1	H2	H3	H4	4-Φd
150S-100	740.5	410	330	280	190	550	250	330	280	190	490	285	25	140	170	Φ18
150S-78	713.5	397									472.5				155	
150S-78A											472.5					
150S-50											455				140	
150S-50A											455					
150S-50B											455					
200S-95	850.5	475	330	280	190	680	330	330	280	190	555	355	25	170	170	Φ18
200S-95A																
200S-95B																
200S-63	743.5	409	330	280	190	620	300	330	280	190	549	355	25	170	170	Φ18
200S-63A																
200S-42	765	416	350	300	230	550	250	350	300	190	547	350	30	160	165	Φ23
200S-42A																
250S-65	1100.5	612	510	450	330	880	400	620	550	430	856	510	40	240	290	Φ27
250S-65A																
250S-39	983.5	552	410	350	230	890	440	510	450	330	750	450	30	200	260	Φ27
250S-39A																
250S-24	965	531	440	380	300	850	400	630	480	330	728	440	35	230	230	Φ25
250S-24A																

250S-14	908	490	400	350	280	750	350	400	350	280	671	400	35	200	240	Φ25
250S-14A																
300S-90	1185	660	500	380	240	1080	520	720	560	430	955	550	40	260	340	Φ25
300S-90A																
300S-90B																
300S-58	1139.5	630	510	450	330	1070	530	620	550	430	852	510	40	240	310	Φ27
300S-58A																
300S-58B																
300S-32	1210	662	640	520	330	1040	500	800	600	430	855	520	40	275	305	Φ25
300S-32A																
300S-19	978.5	537	510	450	330	900	400	620	550	430	808	510	40	250	260	Φ27
300S-19A																
300S-125	1430.5	801	580	500	360	1210	550	680	600	450	1080	620	50	330	410	Φ34
300S-125A																
300S-125B																
300S-75	1246.5	680	580	500	360	1250	600	680	600	450	1017	620	50	274	356	Φ34
300S-75A																
300S-75B																
350S-44	1290	713	720	600	400	1180	560	810	600	390	1134	620	50	320	383	Φ34
350S-44A																
350S-26	1170.5	642	580	500	360	1040	460	680	600	450	963	620	50	290	300	Φ34
350S-26A																
350S-16	1128.5	622	580	500	360	1168	584	680	600	450	970	620	50	310	310	Φ34
350S-16A																
500S-98	1639.5	912	760	580	420	1550	750	1020	800	580	1381	800	55	425	545	Φ41
500S-98A																
500S-98B																
500S-59	1639.5	907	760	580	420	1640	810	1020	800	580	1300	800	55	370	480	Φ41
500S-59A																
500S-59B																
500S-35	1363.5	756	760	580	420	1350	630	1020	800	580	1270	800	55	415	415	Φ41
500S-35A																
500S-22	1396.5	770	760	580	420	1460	640	1020	800	580	1266	800	55	410	410	Φ41
500S-22A																
500S-13	1397	770	740	600	400	1468	645	920	720	520	1246	780	55	410	410	Φ41
600S-75	1694.5	940	940	760	600	1900	940	1020	800	580	1550	950	55	425	555	Φ41
600S-75A																
600S-47						1595	745				1505			490	490	
600S-32	1609.5	882	940	760	600	1600	750	1020	800	580	1490	950	55	480	480	Φ41
600S-32A																
600S-32B																
600S-22	1466.5	805	940	760	600	1790	840	1020	800	580	1476	950	55	460	460	Φ41
600S-22A																

800S-76	2750	-	1200	1000	-	2285	1000	-	1350	-	2105	1200	10	720	850	Φ42
800S-47	2500	-	1200	1000	-	2200	875	1200	1000	-	2074	1200	10	720	720	Φ42
800S-32	2300	1220	1200	1000	-	2150	750	1200	1000	-	2044	1200	10	720	720	Φ42
800S-22	2100	-	1200	1000	-	2100	750	1200	1000	-	2014	1200	10	720	720	Φ42

INSTALLATION WITH FOUNDATION

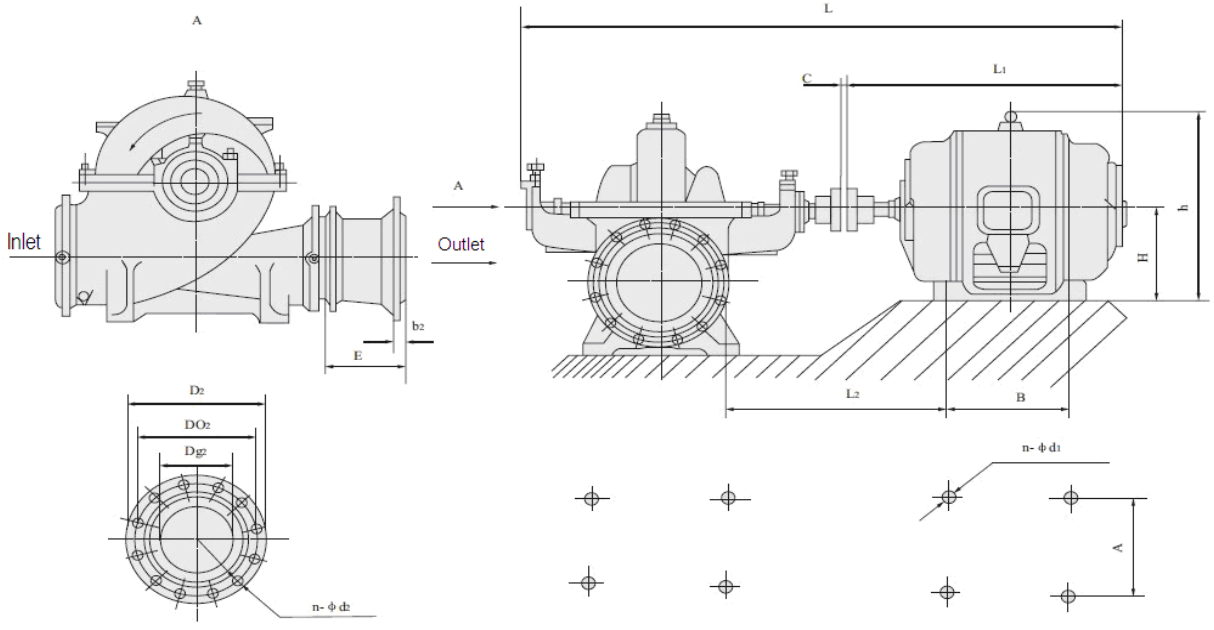


Flange of vomiting conical pipe

Pump	C	Motor			Motor dimension			Foundation dimension							E	H1	L	Flange dimension				
		Type	Kw	V	L1	h	H	L2	L3	L4	b	b1	h1	4-Φd1				Dg2	D2	Do2	b2	4-Φd2
50S-100	4	Y280S-2	75	380	1000	640	280	1456.5	221	927	465	695	40	Φ25	300	385	1744.5	150	280	240	24	8-Φ23
150S-78	4	Y250M-2	55	380	930	575	250	1382	221	884	465	635	40	Φ25	300	385	1648	150	280	240	24	8-Φ23
50S-78A		Y225M-2	45	380	815	530	225	1274	211	812	462	564	40	Φ25	300	385	1533					
150S-50	4	Y200L2-2	37	380	775	475	200	1213	215	800	462	550	40	Φ25	300	385	1493	150	280	240	24	8-Φ23
50S-50A		Y200L1-2	30																			
50S-50B		Y180M-2	22		670	430	180										1388					
200S-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
00S-63A		Y250M-2	55		930	575	250	1382	221	884	465	635					1677.5					
200S-42	4	Y225M-2	45	380	815	530	225	1312	210	879.5	437	544	40	Φ25	350	465	1562.5	200	335	295	26	8-Φ23
00S-42A		Y200L1-2	37		775	475	200	1279.5	216	823.5	451	522				455	1522.5					
200S-39	4	Y280S-4	75	380	1000	640	280	1665	258	1072	655	735	40	Φ25	300	570	1987.5	250	390	350	28	12-Φ23
00S-39A		Y250M-4	55		930	575	250	1586	257	1005	665	665					1917.5					
250S-24	4	Y225M-4	45	380	845	530	225	1510	267	979.5	765	612	40	Φ23	300	570	1787.5	250	390	350	28	12-Φ23

50S-24A		Y225S-4	37		820	530	225										1762.5					
250S-14	4	Y200L-4	30	380	775	475	200	1414.5	260	880	665	605	40	Φ23	300	570	1677.5	250	390	350	28	12-Φ23
50S-14A		Y180M-4	18.5		670	430	180	1308	245	840	620	530					1566.5					
300S-32	4	Y280M-4	90	380	1050	640	280	1768	283	1117.5	690	680	50	Φ30	300	640	2153.5	300	440	400	28	12-Φ23
00S-32A		Y280S-4	75		1000	640	280	1768									2103.5					
300S-19	4	Y250M-4	55	380	930	575	250	1632	305	1024	775	700	50	Φ30	300	630	1912.5	300	440	400	28	12-Φ23
00S-19A		Y225M-4	45		845	530	225	1565.5	305	1000	770	685					1827.5					
300S-12	4	Y225S-4	37	380	820	530	225	1565.5	305	1000	770	685	50	Φ30	300	630	1832.5	300	440	400	28	12-Φ23
00S-12A		Y200L-4	30		775	475	200	1527.5	305	951	770	605					1787.5					

NO FOUNDATION INSTALLATION



Flange of vomiting conical pipe

Pump	C	Motor			Motor dimension						E	L	L2	Flange dimension				
		Type	Kw	V	L1	H	h	B	A	n-Φd1				Dg2	D2	Do2	b2	4-Φd2
150S-100		Y280S-2	75		1000	280	640	368	457	4-Φ24								
150S-78	4	Y250M-2	55	380	930	250	575	349	406	4-Φ24	300	1647.5	569	150	280	240	24	8-Φ23
150S-78A		Y225M-2	45		815	225	530	311	356	4-Φ19		1532.5	520					
150S-50		Y200L2-2	37		775	200	475	305	318	4-Φ19		1492.5	504					
150S-50A	4	Y200L1-2	30	380							300			150	280	240	24	8-Φ23

150S-50B		Y180M-2	22		670	180	430	241	279	4-Φ15		1387.5	492					
200S-95	4	JK112-2	125	380	1360	375	855	590	620	4-Φ26	375	2214.5	724	200	335	295	26	8-Φ23
		Y315M-2	132		1310	315	865	457	508	4-Φ28		2164.5	695					
200S-95A	4	Y315S-2	110	380	1240	315	865	406	508	4-Φ28	375	2164.5	695	200	335	295	26	8-Φ23
200S-95B		Y280S-2	75		1000	280	640	368	457	4-Φ24		2094.5	695					
200S-63	4	Y280S-2	75	380	1000	280	640	368	457	4-Φ24	350	1747.5	603	200	335	295	26	8-Φ23
200S-63A		Y250M-2	55		930	250	575	349	406	4-Φ24		1677.5	581					
200S-42	4	Y225M-2	45	380	815	225	530	311	356	4-Φ19	350	1562.5	532	200	335	295	26	8-Φ23
200S-42A		Y200L2-2	37		775	200	475	305	318	4-Φ19		1522.5	516					
250S-65	4	JS115-4	135	380	1295	375	860	590	620	4-Φ26	500	2399.5	851	250	390	350	28	12-Φ23
		JR115-4	135		1735							2839.5						
		Y315M-4	132		1340	315	865	457	508	4-Φ28		2444.5	777					
250S-65A	4	Y280M-4	90	380	1050	280	640	419	457	4-Φ24	500	2454.5	721	250	390	350	28	12-Φ23
250S-39	4	Y280S-4	75	380	1000	280	640	368	457	4-Φ24	300	1987.5	711	250	390	350	28	12-Φ23
250S-39A		Y250M-4	55		930	250	575	349	406			1917.5	689					
250S-24	4	Y225M-4	45	380	845	225	530	311	356	4-Φ19	300	1787.5	635	250	390	350	28	12-Φ23
250S-24A		Y225S-4	37		820	225	530	286	356	4-Φ19		1762.5						
250S-14	4	Y200L-4	30	380	775	200	475	305	318	4-Φ19	300	1671.5	557	250	390	350	28	12-Φ23
250S-14A		Y180M-4	18.5		670	180	430	241	279	4-Φ15		1566.5	545					
300S-90	5	JS128-4	300	380	1380	450	1005	650	710	4-Φ32	500	2558.5	899	300	400	440	28	12-Φ23
		JR128-4			1840							3018.5						
		JS136-4		3000	1460	500	1125	760	790	4-Φ32		2638.5	869					
		JS136-4			1895							3073.5						
		JS138-4		6000	1560	500	1125	860	790	4-Φ32		2738.5						
		JR138-4			1995							3173.5						
		Y3554-4	315		1820	355	780	900	630	4-Φ28		2998.5	949					
300S-90A	5	JS127-4	260	380	1380	450	1005	650	710	4-Φ32	500	2558.5	899	300	400	440	28	12-Φ23
		JR127-4			1840							3018.5						
		JS137-4		6000	1560	500	1125	860	790			2738.5	869					
		JR137-4			1995							3137.5						
		Y3553-4	280		1820	355	780	900	630	4-Φ28		2998.5	949					
300S-90B	5	JS126-4	225	380	1280	450	1005	550	710	4-Φ32	500	2458.5	899	300	440	400	28	12-Φ23
		JR126-4			1740							2918.5						
		JS127-4	230	3000	1380	450	1005	650	710	4-Φ32		2558.5	899					
		JR127-4			1840							3018.5						
		JS136-4	220	6000	1560	500	1125	860	790	4-Φ32		2738.5	859					
		JR136-4			1995							3173.5						
		Y3551-4		6000	1820	355	780	900	630	4-Φ28		2998.5	949					
300S-58	4	JS117-4	180	380	1345	375	860	640	620	4-Φ26	300	2488.5	869	300	440	400	28	12-Φ23
		JR117-4			1785							2928.5						
		Y315L2-4	200		1340	315	865	508	508	4-Φ28		2483.5	795					
350S-58A	4	JS117-4	155	380	1295	375	860	590	620	4-Φ26	300	2438.5	869	300	440	400	28	12-Φ23
		JR116-4			1735							2878.5						

		Y315L1-4	160		1340	315	865	508	508	4-Φ28		2483.5	795					
300S-58B	4	JS115-4	135	380	1295	375	860	590	620	4-Φ26	300	2438.5	869	300	440	400	28	12-Φ23
		JR115-4			1735							2878.5						
		Y315M-4	132		1340	315	865	457	508	4-Φ28		2483.5	795					
300S-32	4	Y280M-4	90	380	1050	280	640	419	457	4-Φ24	300	2153.5	714	300	440	400	28	12-Φ23
300S-32A		Y280S-4	75		1000	280	640	368	457	4-Φ24		2103.5						
300S-19	4	Y250M-4	55	380	930	250	575	349	406	4-Φ24	300	1912.5	624	300	440	400	28	12-Φ23
300S-19A		Y225M-4	45		845	225	530	311	356	4-Φ19		1827.5	605					
300S-12	4	Y225S-4	37	380	820	225	530	286	356	4-Φ19	-	1832.5	620	-	-	-	-	-
300S-12A		Y200L-4	30		775	200	475	305	318	4-Φ19		1787.5	574					
350S-125	7	JSQ158-4	680	6000	1915	630	1300	1020	1100	4-Φ42	750	3352.5	1098	350	520	470	38	16-Φ25
		JRQ158-4			2360							3797.5						
		JSQ1410-4	680	3000	1880	560	1140	970	940	4-Φ42		3317.5	1123					
		JRQ1410-4			2320							3757.5						
		Y4502-4	710	6000	2080	450	935	1120	800	4-Φ35		3517.5	1123					
350S-125 A	7	JSQ148-4	570	3000	1780	560	1140	870	940	4-Φ42	750	3217.5	1123	350	520	470	38	16-Φ25
		JRQ148-4			2220							3657.5						
		Y4501-4	630	6000	2080	450	935	1120	800	4-Φ35		3517.5	1123					
350S-125 B	7	JSQ1410-4	500	6000	1880	560	1140	970	940	4-Φ42	750	3517.5	1123	350	520	470	38	16-Φ25
		JSQ1410-4			2320							3757.5						
		Y4004-4	500	6000	1940	400	835	1000	710	4-Φ35		3377.5	1103					
350S-75	5	JSQ147-4	360	6000	1780	560	1140	870	940	4-Φ42	500	3031.5	1000	350	500	460	30	16-Φ23
		JRQ147-4			2220							3471.5						
		JS137-4	350	3000	1560	500	1125	860	790	4-Φ32		2811.5	880					
		JR137-4			1995							3246.5						
		Y4001-4	355	6000	1940	400	835	1000	710	4-Φ35		3191.5	980					
350S-75A	5	JS128-4	300	380	1380	450	1005	650	710	4-Φ32	500	2631.5	910	350	500	460	30	16-Φ23
		JR128-4			1840							3091.5						
		JS136-4	300	3000	1460	500	1125	760	790	4-Φ32		2711.5	880					
		JR136-4			1895							3146.5						
		JS138-4	300	6000	1560	500	1125	860	790	4-Φ32		2811.5	880					
		JR138-4			1995							3246.5						
		Y3353-4	280	6000	1820	355	780	900	630	4-Φ28		3071.5	960					
350S-75B	5	JS126-4	225	380	1280	450	1005	550	710	4-Φ32	500	2531.5	910	350	500	460	30	16-Φ23
		JR126-4			1740							2991.5						
		JS127-4	230	3000	1380	450	1005	650	710	4-Φ32		2631.5	910					
		JR127-4			1840							3091.5						
		JS136-4	220	6000	1560	500	1125	860	790	4-Φ32		2811.5	870					
		JR136-4			1995							3246.5						
		Y3551-4	220	6000	1820	355	780	900	630	4-Φ28		3071.5	960					
		JS126-4	225	380	1280	450	1005	550	710	4-Φ32		2517.5	905					
		JR126-4			1740							2977.5						
		JS127-4	230	3000	1380	450	1005	650	710	4-Φ32		2617.5	905					

350S-44	5	JR127-4			1840						300	3077.5		350	500	460	30	16-Φ23
		JS136-4	220	6000	1560	500	1125	860	790	4-Φ32		2797.5	865					
		JR136-4			1995							3232.5						
		Y3551-4	220	6000	1820	355	780	900	630	4-Φ28		3057.5	955					
350S-44A	5	JS116-4	155	380	1295	375	860	590	620	4-Φ26	300	2532.5	890	350	500	460	30	16-Φ23
		JR116-4			1735							2972.5						
		Y315L1-4	160		1340	315	865	508	508	4-Φ28		2577.5	816					
350S-26	4	JS115-4	135	380	1295	375	860	590	620	4-Φ26	300	2469.5	856	350	500	460	30	16-Φ23
		JR115-4			1735							2909.5						
		Y315M-4	132		1340	315	865	457	508	4-Φ28		2514.5	782					
350S-26A		Y280M-4	90	380	1050	280	640	419	457	4-Φ24	300	2224.5	726	350	500	460	30	16-Φ23
350S-16	4	Y280S-4	75	380	1000	280	640	368	457	4-Φ24	-	2132.5	706	-	-	-	-	-
350S-16A		Y250M-4	55	380	930	250	575	349	406	4-Φ24		2062.5	684					
500S-98	7	JSQ1512-6	780	6000	1915	630	1300	1020	1100	4-Φ42	1000	3561.5	1169	500	670	620	34	20-Φ25
		JRQ1512-6			2360							4006.5						
		Y5002-6	800		2550	500	1040	1250	900	4-Φ42		4196.5	1354					
500S-98A	7	JSQ1510-6	650	6000	1915	630	1300	1020	1100	4-Φ42	1000	3561.5	1169	500	670	620	34	20-Φ25
		JRQ1510-6			2360							4006.5						
		JSQ158-6	680	3000	1915	630	1300	1020	1100	4-Φ42		3561.5	1169					
		JRQ158-6			2360							4006.5						
		Y4504-6	630	6000	2120	450	935	1120	800	4-Φ35		3766.5	1234					
500S-98B	7	JSQ158-6	550	6000	1915	630	1300	1020	1100	4-Φ42	1000	3561.5	1169	500	670	620	34	20-Φ25
		JRQ158-6			2360							4006.5						
		Y4503-6	560		2120	450	935	1120	800	4-Φ35		3766.5	1234					
500S-59	7	JSQ157-6	460	6000	1715	630	1300	820	1100	4-Φ42	800	3361.5	1159	500	670	620	34	20-Φ25
		JRQ157-6			2160							3806.5						
		Y4501-6	450	6000	2120	450	935	1120	800	4-Φ35		3766.5	1229					
500S-59A	7	JSQ1410-6	380	6000	1880	560	1140	970	940	4-Φ42	800	3526.5	1189	500	670	620	34	20-Φ25
		JRQ1410-6			2320							3966.5						
		Y4005-6	400	6000	1940	400	835	1000	710	4-Φ35		3586.5	1169					
500S-59B	7	JSQ148-6	310	6000	1780	560	1140	870	940	4-Φ42	800	3426.5	1189	500	670	620	34	20-Φ25
		JRQ148-6			2220							3866.5						
		Y4003-6	315	6000	1940	400	835	1000	710	4-Φ35		3586.5	1169					
500S-35	6	JS137-6	280	380	1520	500	1125	760	790	4-Φ32	800	2889.5	977	500	670	620	34	20-Φ25
		JR137-6			1955							3324.5						
		JS138-6	280	3000	1520	500	1125	760	790	4-Φ32		2889.5	977					
		JR138-6			1955							3324.5						
		Y4002-6	280	6000	1940	400	835	1000	710	4-Φ35		3309.5	1017					
500S-35A	6	JS128-6	215	380	1395	450	1005	650	710	4-Φ32	800	2764.5	962	500	670	620	34	20-Φ25
		JR128-6			1855							3224.5						
		JS136-6	220	3000	1420	500	1125	660	790	4-Φ32		2789.5	977					
		JR136-6			1895							3264.5						
		Y3553-6	220	6000	1820	355	780	900	630	4-Φ28		3189.5	997					

500S-22	6	JS127-6	130	380	1295	450	1005	550	710	4-Φ32	600	2696.5	975	500	670	620	34	20-Φ25
		JR125-6			1755							3156.5						
		Y315L2-2	132	380	1340	315	865	508	508	4-Φ28		2741.5	871					
500S-22A	6	JS125-6	130	380	1295	450	1005	550	710	4-Φ32	600	2696.5	975	500	670	620	34	20-Φ25
		JR125-6			1755							3156.5						
		Y315L2-2	132	380	1340	315	865	508	508	4-Φ28		2741.5	871					
500S-13	5	JS117-6	115	380	1295	375	860	590	620	4-Φ26	-	2608.5	889.5	-	-	-	-	-
		JR117-6			1735							3048.5						
		JS125-6	110	3000	1295	450	1005	550	710	4-Φ32		2608.5	919.5					
		JR125-6			1755							3068.5						
		Y315L1-6	110	380	1340	315	860	508	508	4-Φ28		2653.5	815.5					
600S-75	7	JSQ1510-6	850	3000	1915	630	1300	1020	1100	4-Φ42	600	3606.5	1107	500	670	620	34	20-Φ25
		JRQ1510-6			2360							4061.5						
		Y5003-6	900	6000	2550	500	1040	1250	900	4-Φ42		4251.5	1292					
600S-75A	7	JSQ1512-6	780	6000	1915	630	1300	1020	1100	4-Φ42	600	3616.5	1107	500	670	620	34	20-Φ25
		JRQ1512-6			2360							4061.5						
		Y5002-6	800	6000	2550	500	1040	1250	900	4-Φ42		4251.5	1292					
600S-47	7	JSQ158-6	550	6000	1915	630	1300	1020	1100	4-Φ42	600	3616.5	1107	500	670	620	34	20-Φ25
		JRQ158-6			2360							4061.5						
		Y4503-6	560	6000	2120	450	935	1120	800	4-Φ35		3821.5	1172					
600S-32	6	JSQ1410-6	380	6000	1880	560	1140	970	940	4-Φ42	-	3495.5	1073	-	-	-	-	-
		JRQ1410-6			2320							3935.5						
		Y4005-6	400	6000	1940	400	835	1000	710	4-Φ35		3555.5	1053					
600S-32A	6	JS137-6	280	380	1520	500	1125	760	790	4-Φ32	-	3135.5	1013	-	-	-	-	-
		JR137-6			1955							3570.5						
		JS138-6	280	3000	1520	500	1125	760	790	4-Φ32		3135.5	1013					
		JR138-6			1955							3570.5						
		Y4002-6	280	6000	1940	400	835	1000	710	4-Φ35		3555.5	1053					
600S-32B	6	JS136-6	240	380	1420	500	1125	660	790	4-Φ32	-	3035.5	1013	-	-	-	-	-
		JR136-6			1855							3470.5						
		JS128-6	215		1395	450	1005	650	710	4-Φ32		3010.5	988					
		JR128-6			1855							3470.5						
		JS136-6	220	3000	1420	500	1125	660	790	4-Φ32		3035.5	1013					
		JR136-6			1855							3470.5						
		JS137-6	250	3000	1520	500	1125	760	790	4-Φ32		3135.5	1013					
		JR137-6			1955							3570.5						
		Y3554-6	250	6000	1820	355	780	900	630	4-Φ32		3435.5	1033					
600S-22	6	JS137-6	250	3000	1520	500	1125	760	790	4-Φ32	-	2992.5	936	-	-	-	-	-
		JR137-6			1955							3427.5						
		JS136-6	240	380	1420	500	1125	660	790	4-Φ32		2892.5	936					
		JR136-6			1855							3327.5						
		Y3554-6	250	6000	1820	355	780	900	630	4-Φ32		3292.5	956					
		JS127-6	185	380	1395	450	1005	650	710	4-Φ32		2867.5	921					

600S-22A	6	JR127-6	190	3000	1855	450	1005	650	710	4-Φ32	-	3327.5	921	-	-	-	-	-
		JS128-6			1395							2867.5						
		JR128-6			1855							3327.5						
		Y3553-6	220	6000	1820	355	780	900	630	4-Φ28		3292.5	956					
800S-22	6	Y450-8	450	380	2080	450	1650	1120	800	4-Φ35	800	4190	1191	800	1015	950	42	24-Φ33
		Y450-10	250	380	2080	450	160	1120	800	4-Φ35		4190	1191					
800S-22A	6	Y450-8	315	380	2080	450	160	1120	800	4-Φ35	800	4190	1191	800	1015	950	42	24-Φ33
		Y355L-10	185		1590	355	990	630	610	4-Φ28		3700	1050					
		Y450-10	200		2080	450	160	1120	800	4-Φ35		4190	1191					
800S-32	7	Y500-8	630	6000	2220	500	1900	1250	900	4-Φ42	800	4530	1457	800	1015	950	42	24-Φ33
		Y450-10	315		2080	450	1650	1120	800	4-Φ35		4390	1337					
800S-32A	7	Y450-8	450	6000	2080	450	1650	1120	800	4-Φ35	800	4390	1337	800	1015	950	42	24-Φ33
		Y450-10	250		2080	450	1650	1120	800	4-Φ35		4390	1337					
800S-47	8	Y1000-8	1000	6000	2480	930	1690	1800	1400	4-Φ48	800	4990	1368	800	1015	950	42	24-Φ33
		Y500-10	450		2220	500	1900	1250	900	4-Φ42		4730	1593					
800S-47A	8	Y500-8	710	6000	2220	500	1900	1250	900	4-Φ42	800	4730	1593	800	1015	950	42	24-Φ33
		Y450-10	355		2080	450	1650	1120	800	4-Φ35		4590	1473					
800S-76	8	Y1600-8	1600	6000	2690	950	1860	1900	1750	4-Φ48	1000	5450	1598	800	1015	950	42	24-Φ33
		Y800-10	800		2380	930	1690	1700	1400	4-Φ48		5140	1518					
800S-76A	8	Y1250-8	1250	6000	2540	930	1860	1800	1750	4-Φ48	1000	5300	1548	800	1015	950	42	24-Φ33
		Y500-10	630		2250	500	1900	1250	900	4-Φ42		4980	1743					
800S-76B	8	Y1000-8	1000	6000	2480	930	1690	1800	1400	4-Φ48	1000	5240	1518	800	1015	950	42	24-Φ33
		Y500-10	500		2220	500	1900	1250	900	4-Φ42		4980	1743					

As we are constantly endeavouring to improve the performance of our equipment, the company reserves the right to make alteration from time to time and equipment differ from that detailed in this brochure.

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