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TSWA型卧式多级泵

TSWA HORIZONTAL MULTI-STAGE PUMPS

产品说明书 Product specification

TSWA型卧式多级泵产品简介 Brief Introduction of TSWA Horizontal Multi-Stage Pumps

▶ TSWA型卧式多级泵 TSWA Horizontal Multi-Stage Pumps

TSWA型
(配Y或Y2电机) 卧式多级离心泵
TSWA
(assorted motor is Y or Y2)
horizontal multi-stage centrifugal pump



▶ 特点 Features

- 本型泵为卧式、单吸、多级、节段式结构，结构紧凑、合理 Horizontal, single-suction multi-stage, sectional, compact and small structure;
- 采用优秀水力模型，效率高、能耗少 The hydraulic model is excellent, so it features high-efficiency and energy saved;
- 采用低转速电机、良好的叶轮平衡及水力平衡轴向力使机组具有噪音低、震动小、运行平稳的特点 Motor's speed is low, the balance of impeller is good, the axial force is balanced by water power, so the pump features light tremor, low noise and smooth operation;
- 轴封为填料密封，结构简单价格便宜，且维修方便快捷 Shaft seal is stuffing seal, so the price is low, and easy to maintain;
- 如需减震降噪，可采用加装隔震垫或隔震器的安装方式 You need lighter tremor, isolating-vibrator or isolating-pad and connection board can be fixed;

▶ 用途 Applications

- 高层建筑给排水 Water supply in buildings;
- 工厂、矿山给排水 Water supply for factories and mines;
- 工艺循环增压 Boosting and circulating in technology processes;
- 建筑物消防用水 Fire-fighting water supply in buildings;
- 远距离输送 Transfer liquid from far away;
- 其它场合清洁液体的输送 Transfer clean liquid in other situation;

▶ 工作条件 Operating Conditions

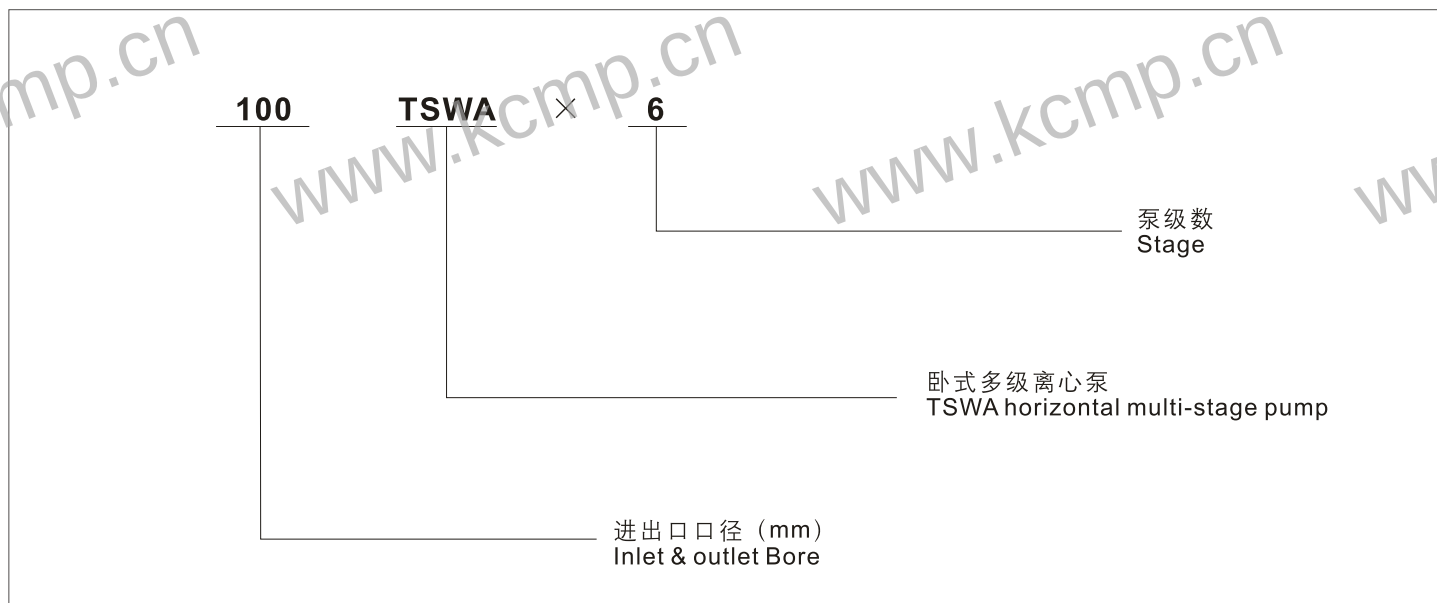
- 流量范围 Capacity range: 15-190m³/h;
- 扬程范围 Head range: 16-290m;
- 转速 Speed: 1450r/min;
- 系统最高工作压力 System Max. working pressure: 3.0MPa;
- 介质温度 Liquid temperature: -15℃~+80℃;
- 环境温度 Ambient temperature: 不高于(Max.)+40℃;
- 电机防护等级 Motor's degree of protection: IP44、IP54;
- 电机绝缘等级 Motor's class of insulation: B、F级;
- 旋转方向 Direction of rotation: 由叶轮进口看逆时针旋转 Anticlockwise, viewed from the impeller inlet;
由电机方向看顺时针旋转 Clockwise, viewed from the motor.

▶ 供货范围 Scope of Supply

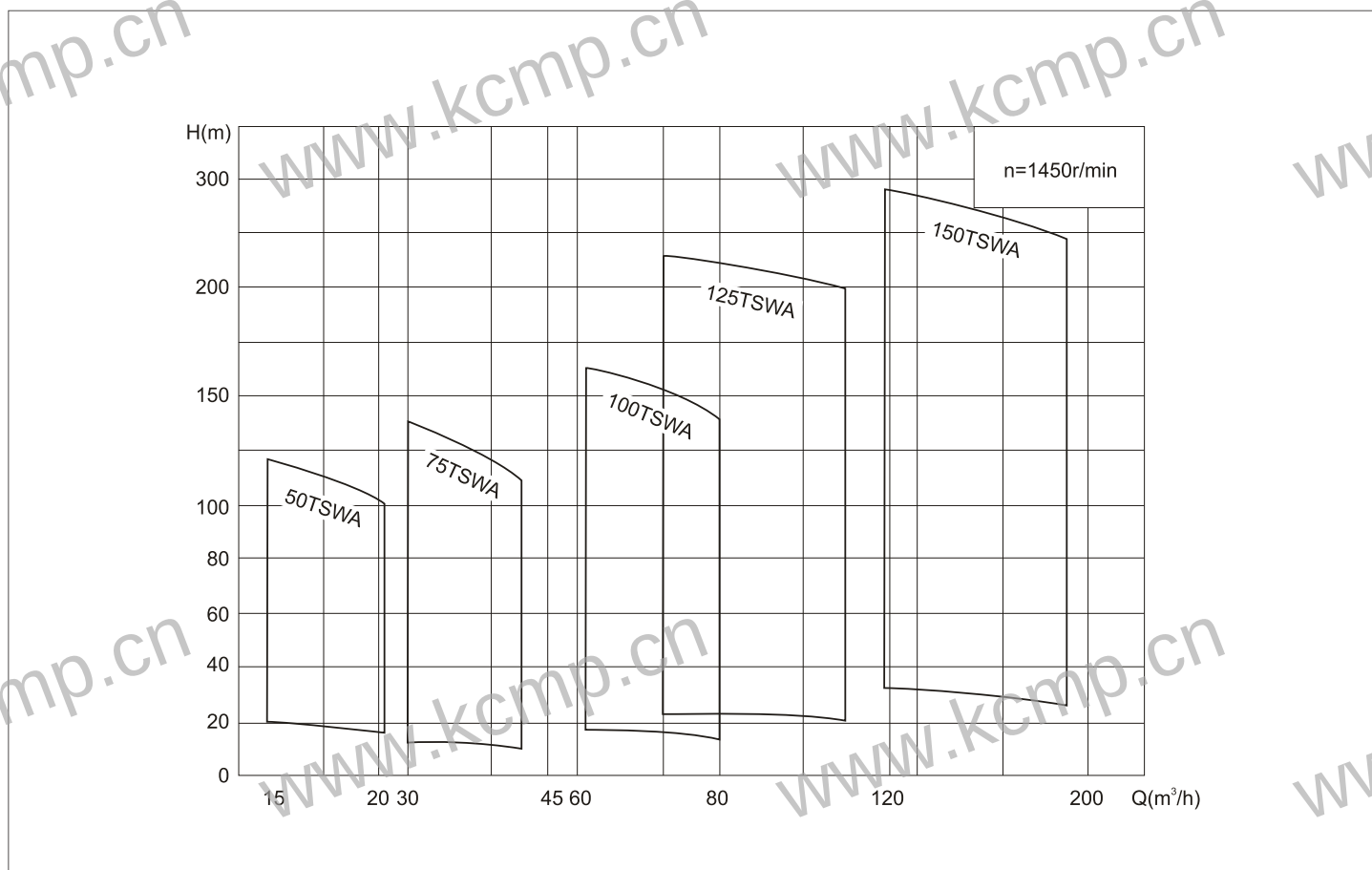
- 水泵、包装及使用说明书。水泵的联结板、隔振垫、隔振器及金属波纹管可作为附件供货。（附件需另计价）
Pump, packing and their operation instruction available accessories: isolating-vibrator, isolating-pad, metal ripple pipe and connection board. (The price of accessories are charged additionally)

TSWA型泵型号意义及型谱图 Designation and Hydraulic Coverage of TSWA Pumps

型号意义 Designation



型谱图 Hydraulic coverage

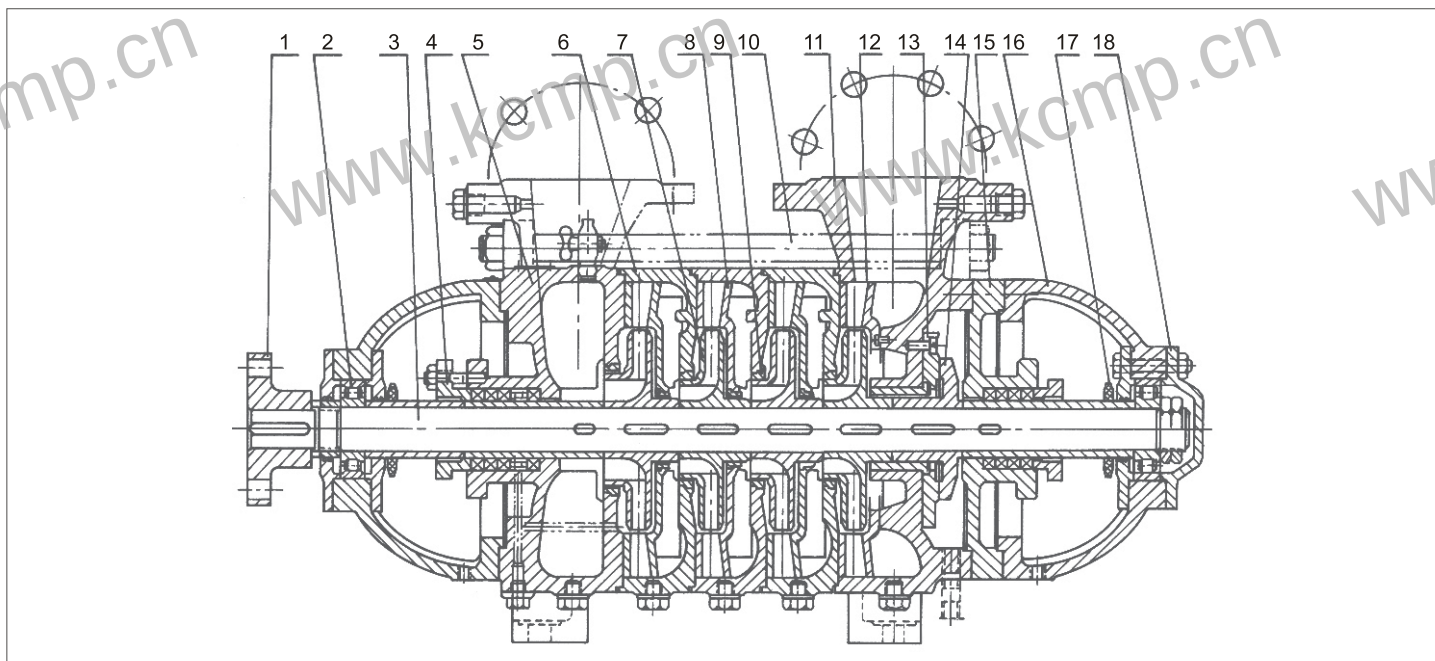


■ 注：特殊温度、压力、强腐蚀性等订货时应另行提出，以便提供更为可靠之产品

Note: special temperature, pressure and strong corrosion should be made clear separately when placing an order, in order that we can offer you more credible products.

TSWA型泵结构图及材料表 Structural Drawing and Materials Table of TSWA Pumps

结构图 Structural Drawing



材料表 Materials Table

序号 Number	名称 Name	材料 Material	序号 Number	名称 Name	材料 Material	序号 Number	名称 Name	材料 Material
1	联轴器 Coupling	弹性柱销 Flexible roller	7	叶轮 Impeller	HT200	13	平衡板 Balance board	HT200
2	轴承 Bearing	滚动轴承 Ball bearing	8	导叶 Guide vane	HT200	14	平衡盘 Balance plate	HT200
3	轴 Shaft	45	9	密封环 Wear ring	HT200	15	填料函体 Stuffing box	HT200
4	填料压盖 Packing gland	HT200	10	拉紧螺栓 Connection bolt	35	16	轴承体 Bearing support	HT200
5	进水段 Suction	HT200	11	出水段 Outlet part	HT200	17	挡水圈 Deflector	橡胶
6	中段 Motor	HT200	12	出水导叶 Discharge guide vane	HT200	18	轴承压盖 Bearing gland	HT200

Tswa型泵安装与联结 TSWA Pump Installation and Connection

- 一般情况下机组在出厂时已正确联结并紧固在共用的铸铁底座上 The whole sets have been connected and fixed common castiron pedestal generally;
- 为减小震动与噪音可在底座与基础之间加装防震垫或减震器 Isolating-vibrator or isolating-pad can be fixed between pedestal and foundation in order to reduce noise and tremor;
- 可将已正确联结的机组直接安装到已浇筑好的混凝土基础上 The whole sets that have been connected can be directly mounted mold concrete foundation;
- 无共用底座的泵机组可先在基础上校正后再将其紧固 If the pump sets have no common pedestal, user can mount them after revised on the foundation.

建议 Suggestion

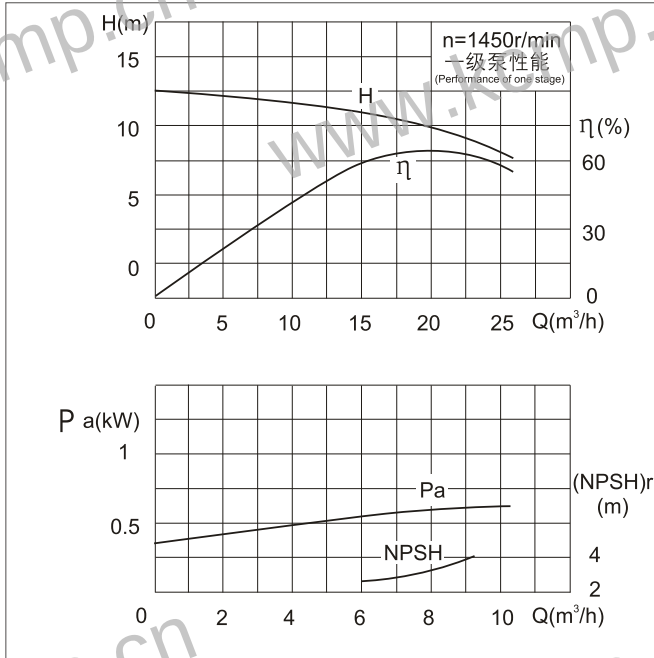
- 在泵的进出口安装压力表以判断机组工作工况 Fix a pressure gauge to judge the work condition of the pump at the pump inlet and outlet;
- 在进水口安装底阀以保持系统存水 Fix a foot valve to keep water in the system at the pump inlet;
- 在出水口安装止回阀以防止水锤对机组造成损害 Fix a check valve to prevent water hammer damaging the pump set at the pump outlet.

TSWA型泵性能曲线图、性能参数表及安装尺寸图表

Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of TSWA Pumps

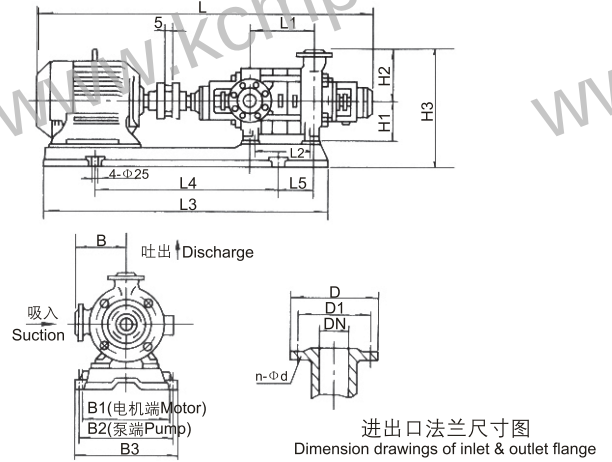
性能曲线表

Performance Curve



安装尺寸图及安装尺寸表

Installation Dimensions Drawing and Table



B	H1	H2	进出口法兰 Inlet & outlet flange			
			D	D1	DN	n-Φd
210	190	210	Φ 160	Φ 125	Φ 50	4-Φ 18

性能参数表

Performance Parameters

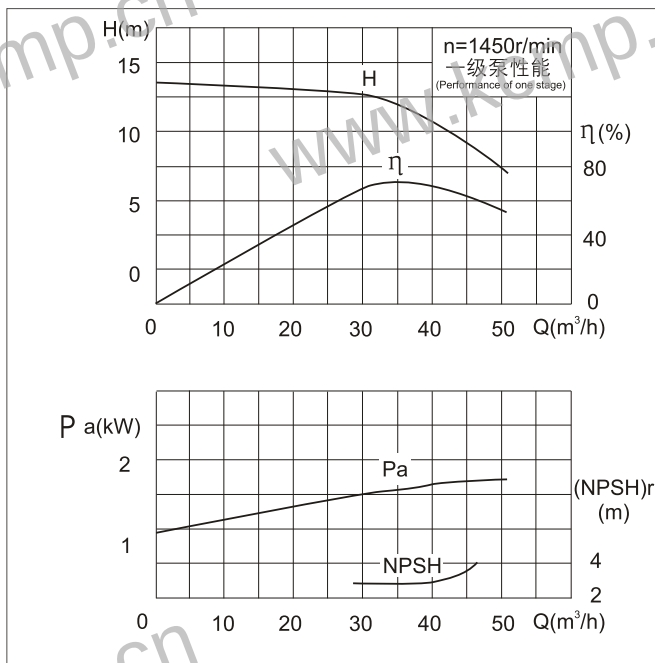
Type	Stage	Capacity	Head	Efficiency	Motor power	Speed	外形及安装尺寸 Outline and Installation Dimensions									
泵型号	级数	流量	扬程	效率	电机功率	转速	L	L1	L2	L3	L4	L5	H3	B1	B2	B3
50TSWA	2	15 18 22	20 18.4 16.8	64 66 65	2.2	1450	1087	160	145	901	600	33	480	335	430	510
	3	15 18 22	30 27.6 25.2	64 66 65	3	1450	1152	225	210	901	600	98	480	335	430	510
	4	15 18 22	40 36.8 33.6	64 66 65	4	1450	1237	290	275	974	640	128	480	375	430	510
	5	15 18 22	50 46 42	64 66 65	5.5	1450	1377	355	340	1153	740	132	490	430	430	510
	6	15 18 22	60 55.2 50.4	64 66 65	5.5	1450	1442	420	405	1153	740	197	490	430	430	510
	7	15 18 22	70 64.4 58.8	64 66 65	7.5	1450	1547	485	470	1321	840	197	490	430	430	510
	8	15 18 22	80 73.6 67.2	64 66 65	7.5	1450	1612	550	535	1321	840	262	490	430	430	510
	9	15 18 22	90 82.8 75.6	64 66 65	7.5	1450	1677	615	600	1386	860	297	490	430	430	510
	10	15 18 22	100 92 84	64 66 65	11	1450	1827	680	665	1593	900	362	490	430	430	510
	11	15 18 22	110 101.2 92.4	64 66 65	11	1450	1892	745	730	1593	900	427	490	430	430	510
	12	15 18 22	120 110.4 100.8	64 66 65	11	1450	1957	810	795	1658	920	462	490	430	430	510

TSWA型泵性能曲线图、性能参数表及安装尺寸图表

Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of TSWA Pumps

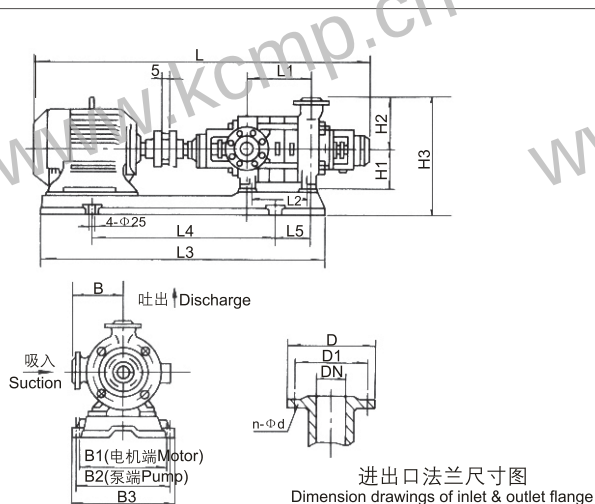
性能曲线表

Performance Curve



安装尺寸图及安装尺寸表

Installation Dimensions Drawing and Table



B	H1	H2	进出口法兰 Inlet & outlet flange			
250	205	250	D	D1	DN	n-Φd
			Φ 195	Φ 160	Φ 80	4-Φ 18

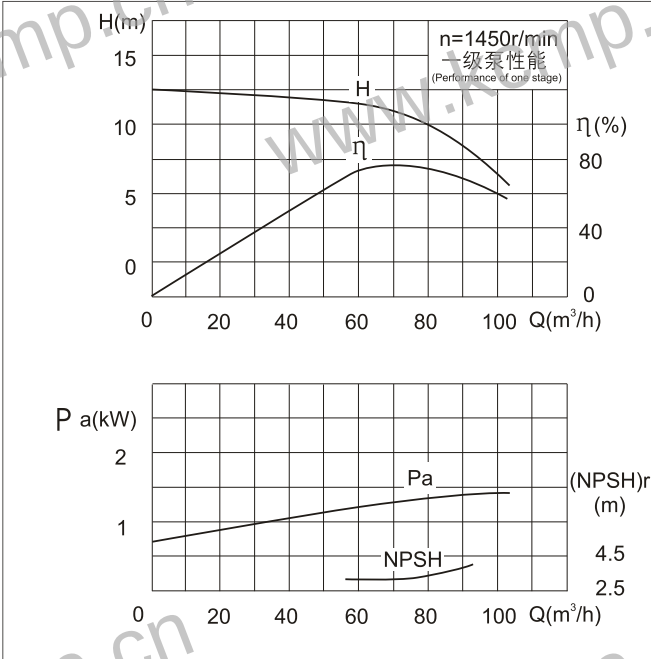
性能参数表

Performance Parameters

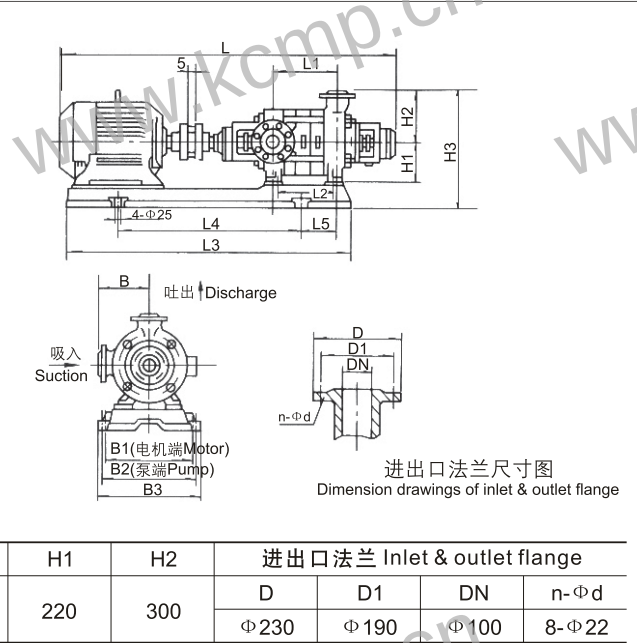
Type	Stage	Capacity	Head	Efficiency	Motor power	Speed	外形及安装尺寸 Outline and Installation Dimensions									
泵型号	级数	流量	扬程	效率	电机功率	转速	L	L1	L2	L3	L4	L5	H3	B1	B2	B3
75TSWA	2	30 36 42	25 23 20	68 70 68	5.5	1450	1241	177	180	1046	690	89	535	410	475	555
	3	30 36 42	37.5 34.5 30	68 70 68	7.5	1450	1361	257	260	1046	690	128	545	410	475	555
	4	30 36 42	50 46 40	68 70 68	11	1450	1526	337	340	1284	830	171	545	475	475	555
	5	30 36 42	62.5 57.5 50	68 70 68	11	1450	1606	417	420	1284	830	211	545	475	475	555
	6	30 36 42	75 69 60	68 70 68	15	1450	1731	497	500	1488	980	245	545	475	475	555
	7	30 36 42	87.5 80.5 70	68 70 68	15	1450	1811	577	580	1488	980	245	545	475	475	555
	8	30 36 42	100 92 80	68 70 68	18.5	1450	1916	657	660	1653	1150	239	560	480	480	560
	9	30 36 42	112.5 103.5 90	68 70 68	18.5	1450	1996	737	740	1653	1150	239	560	480	480	560
	10	30 36 42	125 115 100	68 70 68	22	1450	2116	817	820	1854	1250	261	560	480	480	560
	11	30 36 42	137.5 126.5 110	68 70 68	22	1450	2196	897	900	1854	1250	341	560	480	480	560

TSWA型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of TSWA Pumps

性能曲线表
Performance Curve



安装尺寸图及安装尺寸表
Installation Dimensions Drawing and Table

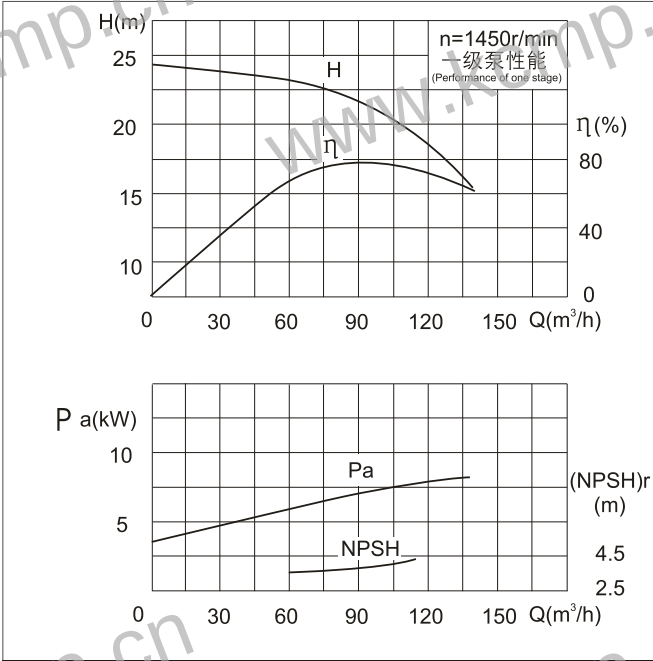


性能参数表 Performance Parameters

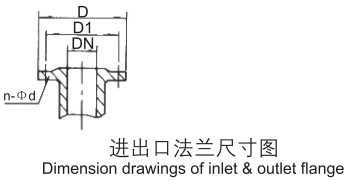
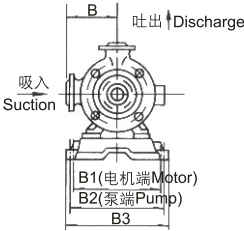
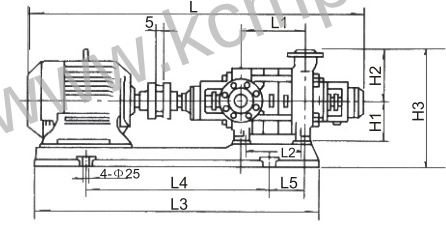
Type	Stage	Capacity Q (m³/h)	Head (m)	Efficiency (%)	Motor power kW	r/min speed	外形及安装尺寸 Outline and Installation Dimensions									
泵型号	级数	流量	扬程	效率	电机功率	转速	L	L1	L2	L3	L4	L5	H3	B1	B2	B3
100TSWA	2	62 68 80	32.4 31.2 28	71.5 73 71	11	1450	1575	255	200	1323	900	100	610	505	505	585
	3	62 68 80	48.6 46.8 42	71.5 73 71	15	1450	1720	355	300	1323	900	149	610	505	505	585
	4	62 68 80	64.8 62.4 56	71.5 73 71	22	1450	1885	455	400	1463	975	200	610	505	505	585
	5	62 68 80	81 78 70	71.5 73 71	30	1450	2050	555	500	1701	1240	202	620	525	525	605
	6	62 68 80	97.2 93.6 84	71.5 73 71	30	1450	2150	655	600	1701	1240	157	630	525	525	605
	7	62 68 80	113.4 109.2 98	71.5 73 71	37	1450	2295	755	700	1959	1450	198	640	565	565	645
	8	62 68 80	129.6 124.8 112	71.5 73 71	45	1450	2420	855	800	1959	1450	199	630	565	565	645
	9	62 68 80	145.8 140.4 126	71.5 73 71	45	1450	2520	955	900	2059	1550	199	640	565	565	645
	10	62 68 80	162 156 140	71.5 73 71	55	1450	2710	1055	1000	2228	1650	253	640	600	600	680

TSWA型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of TSWA Pumps

性能曲线表
Performance Curve



安装尺寸图及安装尺寸表
Installation Dimensions Drawing and Table



B	H1	H2	进出口法兰 Inlet & outlet flange			
			D	D1	DN	n-φd
350	260	350	Φ270	Φ220	Φ125	8-Φ26

性能参数表 Performance Parameters

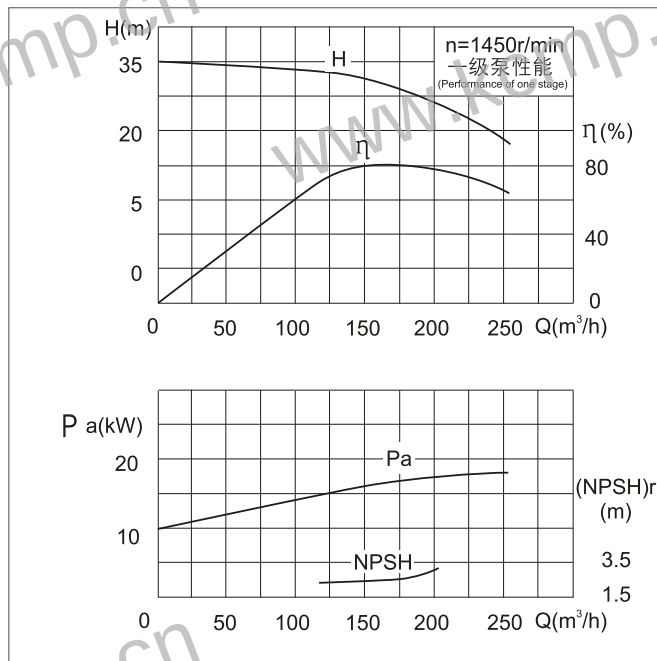
Type 泵型号	Stage 级数	Q Capacity 流量	Head (m) 扬程	Efficiency 效率	Motor power 电机功率	r/min 转速	外形及安装尺寸 Outline and Installation Dimensions									
							L	L1	L2	L3	L4	L5	H3	B1	B2	B3
125TSWA	2	72 90 108	46 43.2 40	70 74 75.5	22	1450	1827	325	225	1387	975	109	700	495	565	645
	3	72 90 108	69 64.8 60	70 74 75.5	30	1450	2017	450	350	1549	1060	176	700	565	565	645
	4	72 90 108	92 86.4 80	70 74 75.5	45	1450	2212	575	475	1728	1170	225	710	565	565	645
	5	72 90 108	115 108 100	70 74 75.5	55	1450	2422	700	600	1924	1270	299	725	620	620	700
	6	72 90 108	138 129.6 120	70 74 75.5	75	1450	2617	825	725	2243	1430	262	755	675	570	755
	7	72 90 108	161 151.2 140	70 74 75.5	75	1450	2742	950	850	2243	1430	422	755	675	570	755
	8	72 90 108	184 172.8 160	70 74 75.5	90	1450	2917	1075	975	2419	1520	483	755	675	570	755
	9	72 90 108	207 194.4 180	70 74 75.5	90	1450	3042	1200	1100	2544	1580	548	755	675	570	755
	10	72 90 108	230 216 200	70 74 75.5	90	1450	3167	1325	1225	2669	1600	633	755	675	570	755

TSWA型泵性能曲线图、性能参数表及安装尺寸图表

Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of TSWA Pumps

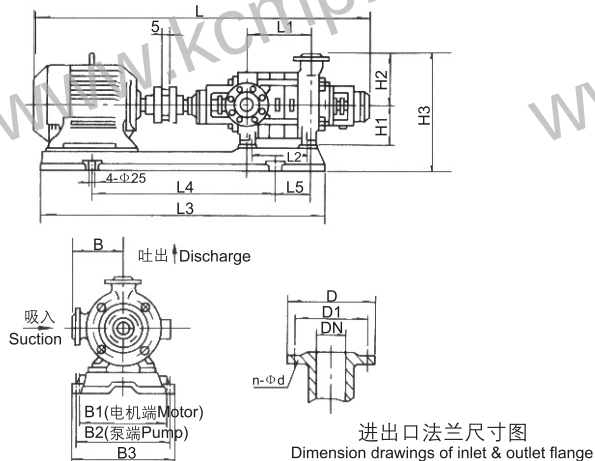
性能曲线表

Performance Curve



安装尺寸图及安装尺寸表

Installation Dimensions Drawing and Table



B	H1	H2	进出口法兰 Inlet & outlet flange			
350	280	350	D	D1	DN	n-Φd
			Φ300	Φ250	Φ150	8-Φ26

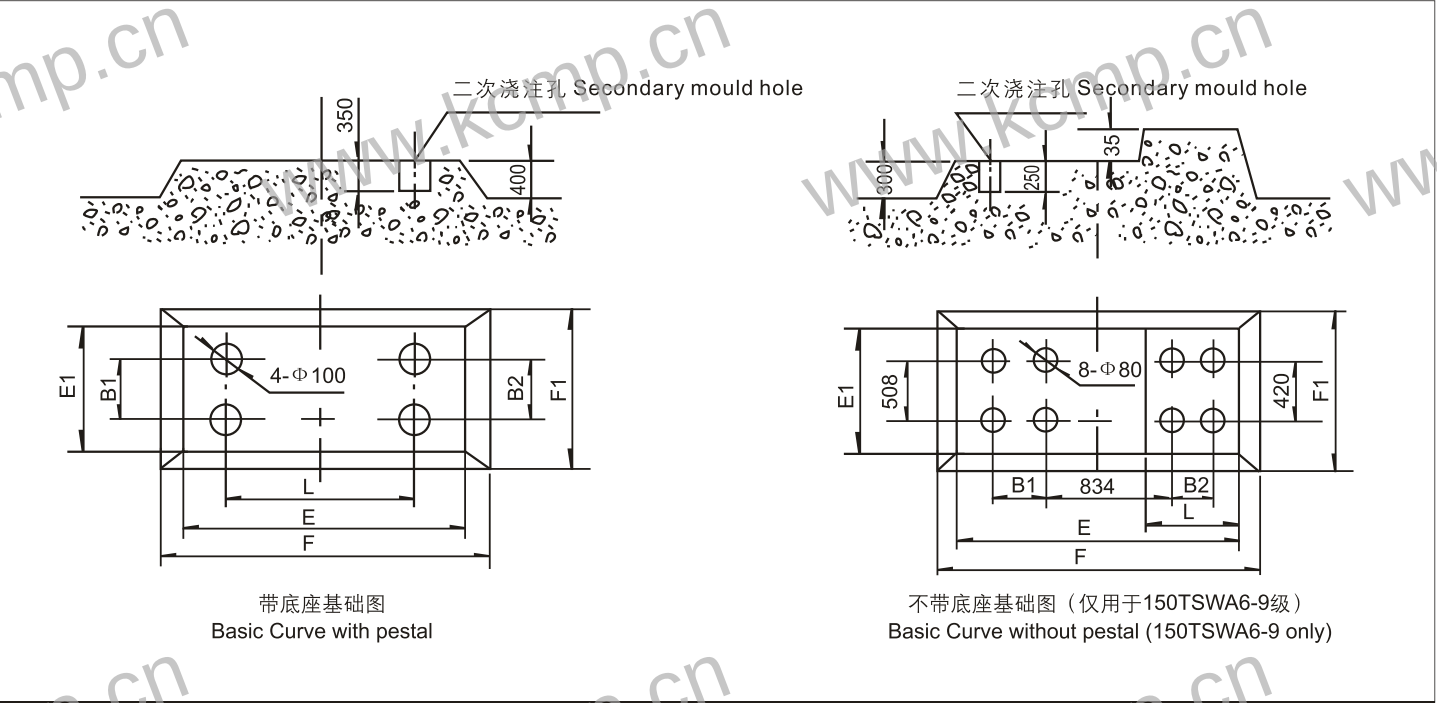
性能参数表

Performance Parameters

Type	Stage	Capacity	Head	Efficiency	Motor power	Speed	外形及安装尺寸 Outline and Installation Dimensions									
泵型号	级数	流量	扬程	效率	电机功率	转速	L	L1	L2	L3	L4	L5	H3	B1	B2	B3
150TSWA	2	119 155 191	65 60 54.9	72.6 77 78.8	45	1450	1964	315	237	1437	1000	80	720	575	605	685
	3	119 155 191	97.5 90 82.4	72.6 77 78.8	75	1450	2234	430	352	1735	1165	148	735	675	610	755
	4	119 155 191	30 120 109	72.6 77 78.8	90	1450	2399	545	467	1922	1260	215	745	675	610	755
	5	119 155 191	162 150 137	72.6 77 78.8	110	1450	2664	660	582	2129	1470	212	875	765	620	845
	6	119 155 191	195 180 164	72.6 77 78.8	132	1450	2829	775	697	-	-	-	-	-	-	-
	7	119 155 191	227 210 192	72.6 77 78.8	132	1450	2944	890	812	-	-	-	-	-	-	-
	8	119 155 191	260 240 219	72.6 77 78.8	160	1450	3019	1005	927	-	-	-	-	-	-	-
	9	119 155 191	292 270 247	72.6 77 78.8	200	1450	3224	1120	1042	-	-	-	-	-	-	-

TSWA型泵基础尺寸图及基础尺寸表 Basic Dimensions Drawing and Table of TSWA Pumps

基础尺寸图 Basic Dimensions Drawing



基础尺寸表 Basic Dimensions

Type	Stage	基础尺寸表 Basic dimension							Type	Stage	基础尺寸表 Basic dimension						
泵型号	级数	L	B1	B2	E	F	E1	F1	泵型号	级数	L	B1	B2	E	F	E1	F1
50TSWA	2	600	335	430	1100	1150	700	750	100TSWA	5	1240	525	525	1900	1950	800	850
	3	600	335	430	1100	1150	700	750		6	1240	525	525	1900	1950	800	850
	4	640	375	430	1170	1220	700	750		7	1450	565	565	2106	2210	850	900
	5	740	430	430	1350	1400	700	750		8	1450	565	565	2160	2210	850	900
	6	740	430	430	1350	1400	700	750		9	1550	565	565	2260	2310	850	900
	7	840	430	430	1520	1570	700	750		10	1650	600	600	2450	2500	900	950
	8	840	430	430	1520	1570	700	750		2	975	495	565	1600	1650	850	900
	9	860	430	430	1600	1650	700	750		3	1060	565	565	2750	1800	850	900
	10	900	430	430	1800	1850	700	750		4	1170	565	565	1950	2000	850	900
	11	900	430	430	1800	1850	700	750	125TSWA	5	1270	620	620	2150	2200	900	950
	12	920	430	430	1900	1950	700	750		6	1430	675	570	2450	2500	950	1000
75TSWA	2	690	410	475	1250	1300	750	800		7	1430	675	570	2450	2500	950	1000
	3	690	410	475	1250	1300	750	800		8	1520	675	570	2650	2700	950	1000
	4	830	475	475	1500	1550	750	800		9	1580	675	570	2750	2800	950	1000
	5	830	475	475	1500	1550	750	800		10	1600	675	570	2900	2950	950	1000
	6	980	475	475	1700	1750	750	800	150TSWA	2	1000	575	605	1650	1700	900	950
	7	980	475	475	1700	1750	750	800		3	1165	675	610	1950	2000	950	1000
	8	1150	480	480	1850	1900	750	800		4	1260	675	610	2150	2200	950	1000
	9	1150	480	480	1850	1900	750	800		5	1470	765	620	2350	2400	1050	1100
	10	1250	480	480	2050	2100	750	800		6	1150	457	697	2450	2500	1050	1100
	11	1250	480	480	2050	2100	750	800		7	1250	457	812	2550	2600	1050	1100
100TSWA	2	900	505	505	1520	1570	800	850		8	1350	508	927	2700	2750	1050	1100
	3	900	505	505	1520	1570	800	850		9	1550	508	1042	2800	2850	1050	1100
	4	975	505	505	1660	1710	800	850									

我们的目标与售后服务质量承诺 Our Target and After-Sale Service Quality Commitment

我们的目标 Our Target

- | | |
|------------------|---|
| • 售出不是终结 | Sale-off is not destination |
| • 服务才是开始 | Service just starts |
| • 以客户需求为基准 | Take customers' demands as criterion |
| • 从产品咨询到售后维修保养 | From product inquiry to after-sale maintenance |
| • 凯程以服务公约贯彻始终 | KCMP implements service convention all the time |
| • 产品三包只是我们的最低标准 | " Three guarantees " for products is only our lowest standard |
| • 我们推荐的是客户的百分百满意 | Customers' 100% satisfaction is what we recommend |
| • 如果客户有特殊要求 | If customers have special requirements |
| • 我们可以为您量身定做指定产品 | We are able to make special products according to your requirements |

售后服务质量承诺 After-Sale Service Quality Commitment

随着国家市场经济的深入发展，市场的竞争日趋激烈，用户对产品的要求也越来越高，并且对售后服务方面的要求也越来越多，为此我公司质量管理部门为适应市场发展的要求专门设立售后服务组、配备了多名专职服务人员负责处理我公司产品售后服务事宜。为此我公司完全可以做到：

As national market economy is developing further, competition in market is becoming more and more intense every day, and users' demands on products are becoming higher and higher, and there are more and more users' requirements on after-sale service. Therefore, according to requirements on market development, quality management department of our company especially set up an after-sale service team comprising several full-time service personnel in charge of handling affairs during product after-sale service of our company. Our company is completely capable of achieving following points:

- 1、产品配发检验合格证书和适量的使用说明书，以确保用户能正确安装使用我公司产品。

Quality certificate and proper operational manual is attached with each product to ensure that users are able to install and operate our products correctly.

- 2、我公司保证出厂的产品均按照有关国家标准生产和检验，不合格的产品绝不出厂。保证严格履行、兑现产品三包，严格执行国家工业产品售后服务有关规定，对出厂产品自发货日起的十二个月，在产品说明书规定的正常操作条件下，我公司将负责保质期内产品质量完好。用户对我公司产品提出质量异议，公司保证在接到用户提出异议后，24小时内作出处理意见。若需现场解决的，保证派出专业技术服务人员，并做到质量问题不解决服务人员不撤离。对每件用户反馈的产品质量问题及处理结果我公司予以存档。

Our company guarantees that all delivered products are produced and inspected according to related national standards, and disqualified products are forbidden for delivery. We strictly execute and realize " Three guarantees " for products, and implement all related national after-sale service regulations for industrial products. Within 12 months from delivery date of products, our company is responsible for guaranteeing quality of products if products work in the normal operating conditions stipulated in operational manuals. When a user brings forward any objections to quality of our products, our company guarantees to provide handling suggestions within 24 hours. When the problems need be solved on the spot, we guarantees to send professional technical personnel to the spot, and they will not leave until quality problems are solved. Our company will keep each quality problem fed back by users and its handling result in the archives.



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