

面对复杂多变的工矿环境，凯程致力于
水工业流体技术和环保产业开发制造，
提供优质产品、技术和工程的全面系统解决方案。

Facing the complex and changable industrial environment,
KaiCheng is committed to studying industrial fluid technology
and developing environmental protection industry.
We devote ourself to providing high quality products,
technology and a whole set solutions in engineering.

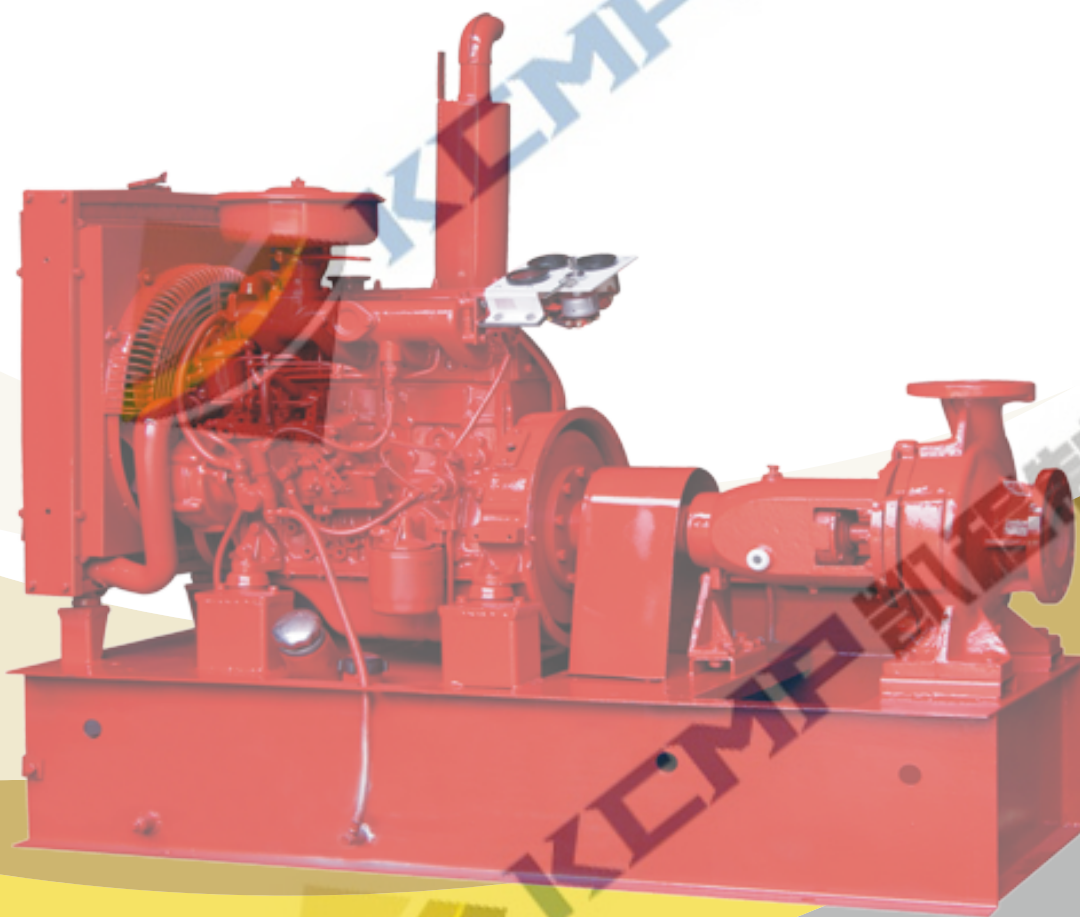
水工业流体输送专家

Experts in Water industry liquid transportation



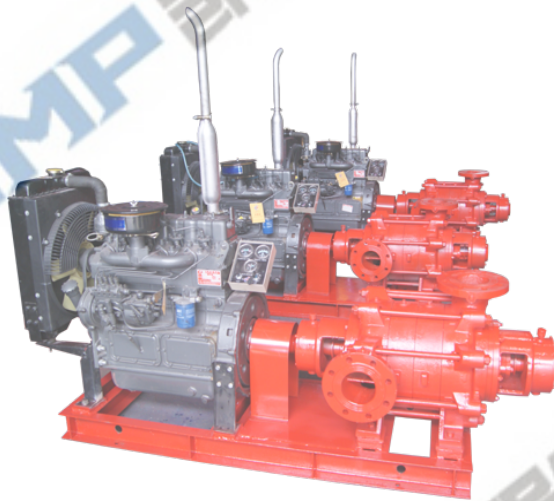
智能柴油机水泵 Intelligent Diesel Engine Pump

产品说明书 Product specification



智能柴油机水泵 Intelligent Diesel Engine Pump

概述 Summarize



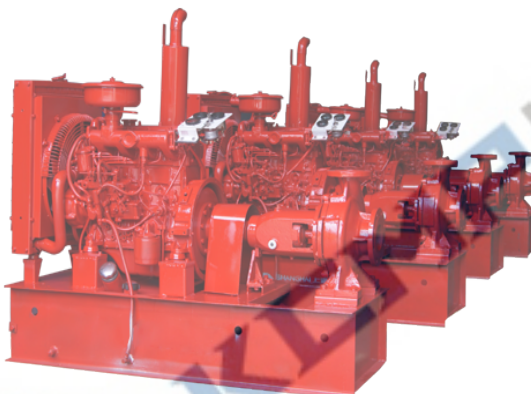
凯程泵业是一家常规泵、特殊泵、柴油机泵、拖车式柴油机泵组、移动泵站产品的专业制造单位。本公司具有强大的设计、生产、销售和服务队伍。生产历史悠久、质量体系完善，测试手段齐全，生产工艺先进。

Kaicheng Pump Company specialized in manufacturing conventional pump, special pump, diesel engine pump, trailer type diesel engine pump unit, mobile pump station etc. Our company has strong design, production, sales and service team. Production has a long history, perfect quality system, testing ways complete and advanced production technology.

公司致力于柴油机水泵研发及创新制造，提升柴油机泵智能控制。柴油机泵组以其自带动力的功能优势，在缺电区域应用发展到在消防给排水、排涝抢险、防汛抗旱、工企设备给水、市政应急等领域做为电动水泵替代或备份的关键设备。公司柴油机水泵配套能力强，形式多样。技术有保障、实用性强、不受电源及场地的影响，可移动作业，灵活多变，适应性强等特点。

Our company is committed to diesel engine pump research and development and innovation to improve pump diesel engine intelligent control. Diesel engine pump unit with its own functional advantage use in power shortage area to fire water supply and drainage, drainage emergency rescue, flood control and drought relief, industrial water supply equipment, the municipal emergency etc to be equipment for the electric pump replaced or backup. Our company diesel engine pump has strong ability of supporting, variety of forms, technology security, practical, not affected by power supply and ground, mobile operation, flexible, strong adaptability etc functions.

产品功能介绍 Product Function



①智能控制:专业的水泵控制器-用于智能控制柴油机水泵系统，实现发动机水泵系统的自动开机停机、数据测量、报警保护及“三遥”功能。控制器采用大屏幕液晶(LCD)图形显示器，可显示中文、英文及其他多种语言，操作简单，运行可靠。

①Intelligent Control: Professional pump controller use for intelligent control of diesel engine water pump system, to realize the engine pump system automatically starting and stopping, data measurement, alarm protection and the "three remote" functions. Controller using large screen liquid crystal(LCD) graphic display, it can shows Chinese, English and other languages, operation is simple, reliable operation.

智能柴油机水泵 Intelligent Diesel Engine Pump

智能水泵控制器具有控制GOV的功能，可以实现通过调速稳定出水压力的功能。控制器准确监测发动机的各种工作状态，具备故障自动保护功能，同时将故障状态显示在LCD上。控制器带有SAE J1939接口，可和具有J1939接口的多种电喷发动机ECU(ENGINE CONTROL UNIT)进行通信。

Intelligent water pump controller has the GOV function, it can realize the stability water pressure function through speed regulation. Controller accurate monitoring of engine working status, it has fault automatic protection function, meanwhile, the fault status is displayed on the LCD. Controller with SAE J1939 interface, it can communicate with variety of electric fuel injection engine ECU(ENGINE CONTROL UNIT)with J1939 interface.

智能水泵控制器采用32位微处理器技术，实现了多种参数的精密测量、定值调节以及定时、阈值整定等功能，绝大部分参数可从控制器前面板调整，所有参数可使用PC机通过USB接口调整，又可使用PC机通过RS485接口调整及监测。其结构紧凑、接线简单、可靠性高，可广泛应用于各类型发动机水泵控制系统。

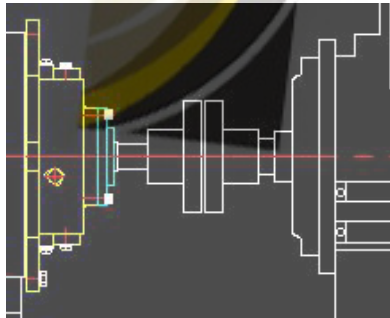
Intelligent pump controller uses the 32-bit microprocessor technology, it realize various parameters of precision measurement, the fixed value adjustment and timing, the threshold setting etc functions. Most of these parameters can be adjusted through controller panel, all the parameters can be adjusted through USB interface using PC, and can adjustment and monitoring by RS485 interface use PC. Its compact structure, simple connection, high reliability, it can be widely used in various types of engine water pump control system.



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②启动方式Start way:

手动控制：柴油机泵组由人工在仪表盘上通过开关按钮仪表来控制启动、运行监测、停止。

Manual Control: Diesel engine pump unit through dashboard instrument button switch by artificial to control the start-up, operation monitoring, stop.

自动控制：柴油机泵组在接收到消防/管网压力或者是液位等其他自动控制信号后，做出自动启停，运行监测的响应。

Automatic Control: Diesel engine pump unit will do automatic start-stop, monitoring the response of the operation after it receives fire/ pipeline pressure or liquid level and other automatic control signals.

远程控制：柴油机泵组所有参数使用PC机通过网络接口，实现发动机水泵系统的自动开机停机、数据测量、报警保护及“三遥”的遥监、遥控、遥调功能。

Remote Control: Diesel engine pump unit all parameters use PC machine by internet to realize the pump system functions, such as automatically boot downtime, data measurement, alarm, protection and remote monitoring, remote control and remote regulating.

智能柴油机水泵 Intelligent Diesel Engine Pump

③结构特点：柴油机泵组的柴油机和水泵只须采用弹性柱销式联轴器进行直连接（特殊要求可通过皮带轮连接），安装简易、体积小、可靠安全的特点。配置底座式油箱结构，利用总成机架研发创新的储备油箱，配套仪表及排气装置，有效保证供油启动。使机组美观实用，一体化标准。（图纸两张，特殊位置）。

③Structural Characteristics: Diesel engine pump of diesel engine and pump only need use elastic dowel pin coupling direct connection (special requirements can be connected through the pulley), easy to install, small volume, safe and reliable. Configuration base type fuel tank structure, using innovation of reserve tank in frame assembly with instrument and exhaust system, it to guarantee fuel supply start effectively. It makes pump unit beautiful and practical, integrated standards.

④配套选型灵活：柴油机泵组选用本公司及国外知名品牌水泵，根据需求可直接选用50HZ/60HZ标准转速的水泵进行配套。根据不同工况要求来选配：单级单吸离心泵、单级双吸中开泵、多级离心泵、多级高压离心泵、自吸式离心泵、强自吸式无堵塞排污泵、容积泵（隔膜泵、螺杆泵、转子泵）等。柴油机水泵选用国内名牌或进口品牌工程用发动机或者水泵专用发动机，可通过专门配套的调速系统使其在任意转速下恒速运行。根据水泵性能不同来选配：单缸、双缸、四缸、六缸、十二缸等多样式，多种转速，多种冷却方式的柴油机动力。

④Selection of Flexibility: Diesel engine pump unit to choose our company and the overseas well-known brand water pump, according to the requirements can be directly select 50 hz / 60 hz standard speed of water pump to form a complete set. According to the different working conditions require to choose pumps, such as single stage single suction centrifugal pump, single stage double suction middle open pump, multistage centrifugal pump, multistage high-pressure centrifugal pump, self-priming centrifugal pump, strong self-priming non-clog sewage pump, positive displacement pump (diaphragm pump, screw pump, rotor pump) etc. Diesel engine pump selection project special engine or pump engine with domestic brand or import brand, to make it constant speed operation in any speed through special matching speed control system. According to different water pump performance to matching: single cylinder, double cylinder, four cylinder, six cylinder, twelve cylinders etc variety cylinders, variety of speed, a variety of cooling diesel engine power.

⑤保护功能：柴油机泵组在待机情况下自动进行自检，当发现故障时会发出预警报、油压、转速、燃油消耗量等信号，直至停机。，也可以控制开机、停机、升速和降速，实现水泵机组的自动开机 / 停机水温及完善的故障显示保护等功能。

⑤Protection Function: Diesel engine pump unit will automatically self-inspection under the condition of standby, when found faults it will gives warning signal, oil pressure, speed, fuel consumption signals until the pump unit stop. It also can implement water pump unit automatic starting/stopping water temperature and Perfect failure protection etc function through control starting, stopping, up speed and slow down.

柴油机泵的运行条件 Diesel engine pump operating conditions

智能柴油机水泵机组可根据使用场所扬程、流量及输送液体的具体要求而选定，输送液体的流量范围为10-900L/s，压力范围为0.12-6MPa，柴油机转速围为990-1500-3000r/min。

Intelligent diesel engine pump unit can according to specific requirements to choose, such as capacity, head and transport liquid of use place. Capacity range is 10-900L/s, pressure range is 0.12-6MPa, speed range is 990-1500-3000 r/min.

运行的条件 Operation Condition:

1)海拔高度 Altitude Height: ≤2500米 meters

2)环境温度 Environment Temperature: -25~55℃

3)空气相对湿度 Air Relative Humidity: 9~95%

4)地震烈度 Seismic Intensity: 7度

5)流量范围 Capacity Range: 10-900(L/S)

6)扬程范围 Head Range: 12-600m

7)柴油机功率 Diesel Engine Power: 11-1100KW

8)水泵过流部件材质：铸铁、球墨铸铁、不锈钢、铸铜。Pump Wet Parts Material: Cast Iron, Nodular Cast Iron, Stainless Steel, Cast Copper.

9)水泵密封形式：填料密封、机械密封。Pump Seal Type: Packing Seal, Mechanical Seal.

智能柴油机水泵 Intelligent Diesel Engine Pump

柴油机泵的分类及用途 Diesel Engine Pump Classification and Usage

柴油机泵根据不同用途形成不同的专业分类, Diesel engine pump unit has different professional classification according to different usages.

其中For example:

消防类, 适用于消防栓系统、喷淋系统、喷洒降温系统、泡沫系统、水炮系统等消防给水;

Fire type, suitable for fire hydrant system, spray system, spray cooling system, foam system, water cannon system etc fire supply water.

工业应急类, 适用于化工、冶炼电力、食品制药设备冷却循环给水系统;

Industrial emergency class, suitable for chemical, smelting electric power, food and pharmaceutical equipment cooling circulating water supply system.

船用类, 适用于船舶和海上钻井平台给排水作业、高压水枪作业、消防系统给水设备;

Marine type, suitable for marine and water supply and drainage operation of offshore drilling platform, water cannon work, fire protection system water supply equipment.

移动挂车类, 适用于市政抢险排涝、流动应急泵站、污水泵站;

Mobile trailer type, suitable for the municipal emergency drainage, flow of emergency pump station, waste water pump station.

普及应用类, 市政/隧道应急排水系统、工/农业排灌系统、野外收集给水系统等。

Popularize and apply type, municipal/tunnel emergency drainage system, industrial/agricultural irrigation and drainage systems, the wild collecting water supply system etc.

可根据客户的要求来进行个性化设计选型。

According to the customers different requirements for personalized design selection.

智能柴油机水泵型号意义 The Meaning for Model of Intelligent Diesel Engine Pump



智能柴油机水泵 Intelligent Diesel Engine Pump

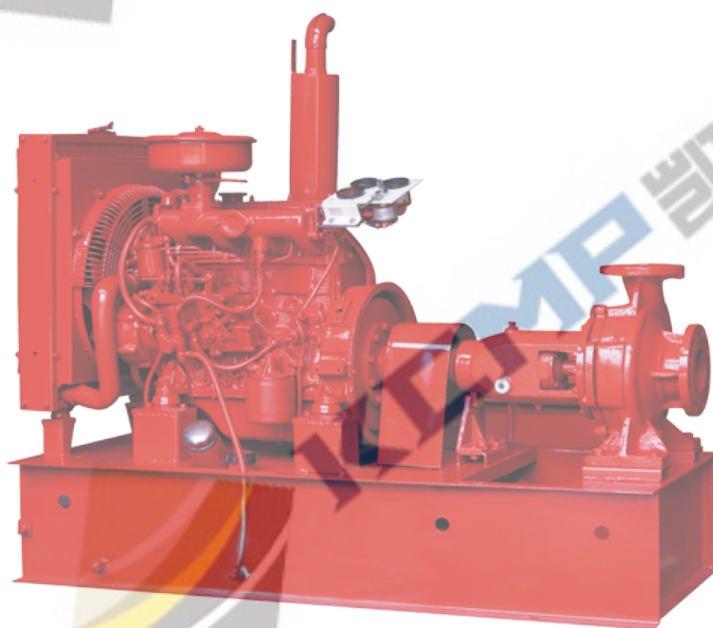
产品选型 Product Selection

本公司系列柴油机水泵可选配不同类型的水泵，选配10KW-1100KW国产及进口系列柴油发动机，以下性能表中仅列出基本机型。选型命名及性能表中仅为常规应用类型，如未列举或有特殊要求的请直接联系本公司，根据客户具体要求作出个性化选型服务，以实现流量扬程柴油机功率的灵活组合，使产品更节能，达到最佳性能。The intelligent diesel engine pumps can be equipped with different types of pumps, 10KW-1100KW domestic and imported series diesel engines. Listed below in the performance table are the basic types. Selection of naming and the performance table are conventional types, please contact with us directly, we can provide customer's with personalized selection service according to specific requirements, in order to achieve the flexible combination of flow, head and diesel engine power, more efficient with energy saving and the best performance.

①单级单吸离心泵 Single Stage Single Suction Centrifugal Pump

单级单吸离心泵（轴向吸入），是根据国际标准ISO2858所规定的性能和尺寸全国联合设计的节能泵，水力性能布局合理，有填料和机械密封两种，用户选择范围宽，检修方便；效率和吸程达到国际平均先进水平，适用于城市给排水、农业排灌、工业厂矿、化工、制药、饮料、卫生等，供输送防腐或物理及化学性质类似硝酸醋酸的其它液体之用。温度不高于100℃。流量：10-460m³/h，扬程：10-125m，转速1450-2900r/min。

Single stage self-suction centrifugal pump (axial suction) is according to the international standard ISO2858 being adopted by the performance and size, and designed by the national unity of the energy-saving pumps, it has packing seal and mechanical seal, hydraulic performance layout is reasonable, wide range and convenient maintenance. Efficiency and suction has reached the international advanced level on average, it is suitable for urban water, agricultural irrigation and drainage, industry mines, chemical, pharmacy, beverage, health, etc., used in delivering anti-corrosive and other liquid with physical or chemical properties similar to nitric acid and acetic acid. Temperature: ≤100℃, capacity: 10-460m³/h, head: 10-125m, speed: 1450-2900r/min.



智能柴油机水泵 Intelligent Diesel Engine Pump

IS单级单吸离心泵选型表 Single Stage Single Suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
50-32-200	12.5	3.47	50	0.5	2900	5.5	21
50-32-250	12.5	3.47	80	0.8	2900	11	21
50-32-250A	11.7	3.25	70	0.7	2900	7.5	21
50-32-250B	10.8	3.0	60	0.6	2900	5.5	21
65-40-200	25	6.9	50	0.5	2900	7.5	21
65-40-200A	23.4	6.5	44	0.44	2900	5.5	21
65-40-250	25	6.9	80	0.8	2900	15	21
	12.5	3.47	20	0.2	1450	2.2	11
65-40-250A	23.4	6.5	70	0.7	2900	11	21
65-40-250B	21	5.8	56	0.56	2900	7.5	21
65-40-315	12.5	3.47	32	0.32	1450	4	11
65-40-315A	23.9	6.5	114	1.14	2900	22	29
	11.9	3.3	28.5	0.28	1450	3	11
65-40-315B	22.7	6.3	103	1.03	2900	18.5	29
	10.8	3.0	24	0.24	1450	2.2	11
65-40-315C	21.4	5.8	82	0.82	2900	15	21
80-65-160	50	13.9	32	0.32	2900	7.5	21
80-50-200	50	13.9	50	0.5	2900	15	21
80-50-200A	46.8	13	44	0.44	2900	11	21
80-50-250	50	13.9	80	0.8	2900	22	29
	25	6.9	20	0.2	1450	4	11
80-50-250A	46.8	13	70	0.7	2900	18.5	29
80-50-250B	43.3	12	60	0.6	2900	15	21
80-50-315	25	6.9	32	0.32	1450	5.5	20
80-50-315A	47.7	13.2	114	1.14	2900	37	52
	23.8	6.5	28.5	0.28	1450	5.5	20
80-50-315B	45.4	12.5	103	1.03	2900	30	46
	22.7	6.3	25.8	0.25	1450	4	11
80-50-315C	42	11.6	88.5	0.88	2900	22	29
100-80-160	100	27.8	32	0.32	2900	15	21
100-80-160A	93.5	27	28	0.28	2900	11	21

智能柴油机水泵 Intelligent Diesel Engine Pump

IS单级单吸离心泵选型表 Single Stage Single Suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
100-65-200	100	27.8	50	0.5	2900	22	29
100-65-200A	93.5	26	44	0.44	2900	18.5	29
100-65-200B	86.6	24	41	0.41	2900	15	29
100-65-250	100	27.8	80	0.8	2900	37	52
	50	13.9	20	0.2	1450	5.5	20
100-65-250A	93.5	26	70	0.7	2900	30	46
	46.8	13	17.5	0.17	1450	4	11
100-65-250B	85.3	23.6	58.2	0.58	2900	22	29
100-65-315	50	13.9	32	0.32	1450	11	20
100-65-315A	95.5	26.5	114	1.14	2900	55	73
	47.7	13	28.5	0.28	1450	7.5	20
100-65-315B	90.8	25	103	1.03	2900	45	73
	45.4	12.6	25.7	0.25	1450	7.5	20
100-65-315C	85.8	23.8	92	0.92	2900	37	52
	42.9	12	23.5	0.23	1450	5.5	20
125-100-200	200	55	50	0.5	2900	45	73
	100	27.7	12.5	0.12	1450	7.5	20
125-100-200A	187	52	44	0.44	2900	37	46
125-100-200B	165	45.8	34.1	0.34	2900	22	29
125-100-250	100	27.7	20	0.2	1450	11	20
125-100-250A	187	52	70	0.7	2900	55	73
	93.5	26	17.5	0.17	1450	7.5	20
125-100-250B	173	48	60	0.6	2900	45	73
125-100-250C	160	44	49	0.49	2900	37	52
125-100-315	100	27.7	32	0.32	1450	18.5	30
125-100-315A	95.5	26.5	28.5	0.28	1450	15	20
125-100-315B	90.8	25	26.4	0.26	1450	15	20
125-100-400	100	27.7	50	0.5	1450	30	42
125-100-400A	93.6	26	44	0.44	1450	22	30
125-100-400B	88	24	38.4	0.38	1450	18.5	30
125-100-400C	82	22	33	0.33	1450	15	20

智能柴油机水泵 Intelligent Diesel Engine Pump

IS单级单吸离心泵选型表 Single Stage Single Suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
150-125-250	200	55	20	0.2	1450	18.5	30
150-125-250A	187	52	17	0.17	1450	15	20
150-125-315	200	55	32	0.32	1450	30	42
150-125-315A	187	52	28	0.28	1450	22	30
150-125-315B	173	48	25	0.25	1450	18.5	30
150-125-400	200	55	50	0.5	1450	45	84
150-125-400A	187	52	44	0.44	1450	37	50
150-125-400B	173	48	38	0.38	1450	30	42
200-150-250	400	111	20	0.2	1450	37	50
200-150-250A	374	103	17.5	0.17	1450	30	42
200-150-250B	346	95	15	0.15	1450	22	30
200-150-315	400	111	32	0.32	1450	55	84
200-150-315A	374	103	28	0.28	1450	45	84
200-150-315B	350	97	24	0.24	1450	37	50
200-150-315C	327	90	20.7	0.2	1450	30	42
200-150-400	400	111	50	0.5	1450	90	150
200-150-400A	380	105	44.5	0.44	1450	75	100
200-150-400B	340	95	38	0.38	1450	55	84
200-150-400C	324	90	30.8	0.3	1450	45	84

②单级双吸离心泵Single Stage Double Suction Centrifugal Pump

单级双吸离心泵,中开泵是新型节能卧式中开泵, 供输送清水或物理化学性质类似于水的其他液体, 根据用户需求, 通过改变泵结构及材质可用于输送多泥砂水或各类腐蚀性液体, 该系列泵适用于工厂、矿山、城市给排水、电站、农田排灌及各种水利工程。

单级双吸中开离心泵的入口和出口均在水泵的轴收线下方, 与轴线垂直成水平方向。维修方便, 无须拆卸进水、出口管路及高效节能, 应用范围广。泵通过弹性联轴器由柴油机直接传动。

流量: 120-3500m³/h, 扬程: 15-130m, 转速990-2900r/min。

Single stage double suction centrifugal pump is new type energy-saving horizontal axially split pump, it used in delivering water or other liquid with physical or chemical properties similar to water. And also can used in delivering water containing mud and sand ,or all kind of corrosive liquid through changing the structure and material according to requirements.

It is widely used in factory, mines, urban water, power station, farmland irrigation and all kinds of water conservancy projects. Its inlet and outlet are both below the axis line in horizontal direction. Convenient maintenance, high efficiency and energy saving and widely application. It turns directly by diesel engine through flexible coupling transmission.

Capacity: 120-3500m³/h, Head: 15-130m, Speed: 990-2900r/min.

智能柴油机水泵 Intelligent Diesel Engine Pump

单级双吸离心泵 Single Stage Double Suction Centrifugal Pump



型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
OS100-310	176.4	49	31.2	0.31	1450	19.1	28.7
A	172.6	47.9	26	0.26	1450	16.1	24.2
B	157.5	43.8	22.5	0.22	1450	13	19.5
C	142.8	39.7	18.5	0.18	1450	9.6	14.4
OS100-375	189	52.5	51	0.51	1450	39.1	58.7
A	170.6	47.4	44	0.44	1450	26.1	39.2
B	153	42.5	38	0.38	1450	26.1	39.2
C	141.6	39.3	29	0.29	1450	16.1	24.2
OS125-230	262.8	73	15	0.15	1450	16.1	24.2
A	262.8	73	12.5	0.12	1450	13	19.5
OS125-290	270	75.5	27	0.27	1450	26.1	39.2
A	243.7	67.7	22.0	0.22	1450	19.1	28.7
B	220.5	61.2	18.0	0.18	1450	16.1	24.2
C	195.8	54.4	14.2	0.14	1450	13	19.5
OS125-290	313.2	87.0	46.2	0.46	1450	65.2	97.8
A	282.8	78.6	39.0	0.39	1450	39.1	58.7
B	254.2	70.6	31.5	0.31	1450	32.2	48.3
C	221.9	61.6	24.0	0.24	1450	26.1	39.2
OS125-500	324	90	76	0.76	1450	95.7	143.6
A	280.8	78	67.5	0.67	1450	78.3	117.5
B	244.8	68	57	0.57	1450	65.2	97.8
C	216	60	48	0.48	1450	39.1	58.7

智能柴油机水泵 Intelligent Diesel Engine Pump

单级双吸离心泵 Single Stage Double Suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
OS150-290	443.5	123.2	21	0.21	1450	32.2	48.3
A	410.6	114	18	0.18	1450	26.1	39.2
B	367	101.9	15.5	0.15	1450	19.1	28.7
OS150-360	447.5	124.3	38	0.38	1450	65.2	97.8
A	404.2	112.3	31	0.31	1450	47.8	71.7
B	363	100.8	25.5	0.25	1450	32.2	48.3
C	324.7	90.2	20.5	0.20	1450	26.1	39.2
OS150-450	515.5	143.2	66	0.66	1450	114.8	172.2
A	468.4	130.1	54.5	0.54	1450	95.7	143.6
B	418.5	116.3	43.5	0.43	1450	65.2	97.8
C	375.4	104.3	35.5	0.35	1450	47.8	71.7
OS150-605	584	162.2	105	1.05	1450	217.4	326.1
A	536.2	148.9	91	0.91	1450	173.9	260.9
B	493.6	137.1	77	0.77	1450	139.1	208.7
C	450	125	62.5	0.62	1450	114.8	172.2
OS200-320	695.5	193.2	30	0.30	1450	65.2	97.8
A	641.2	178.1	25.5	0.25	1450	65.2	97.8
B	585	162.8	21.3	0.21	1450	47.8	71.7
C	530	147.2	17.5	0.17	1450	32.2	48.3
OS200-420	710	197.2	52	0.52	1450	114.8	172.2
A	641.9	178.3	42.5	0.42	1450	95.7	143.6
B	586.6	163	35.5	0.35	1450	78.3	117.5
C	525.6	146	28.5	0.28	1450	65.2	97.8
OS200-520	818	227.2	91	0.91	1450	243.5	365.3
A	750	208.3	76.5	0.76	1450	217.4	326.1
B	687.9	191.1	62.5	0.62	1450	160.9	241.4
C	630	175	47.5	0.47	1450	114.8	172.2
OS200-670 A	702	195	128	1.28	1450	308.7	463.1
B	669.8	186	107	1.07	1450	273.9	410.9
C	637.4	177	88	0.88	1450	217.4	326.1
OS250-370	1052	292.2	39	0.39	1450	139.1	208.7

智能柴油机水泵 Intelligent Diesel Engine Pump

单级双吸离心泵 Single Stage Double Suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
A	967.7	268.8	33.5	0.33	1450	114.8	172.2
B	915.3	254.3	28	0.28	1450	95.7	143.6
C	864	240	20	0.20	1450	65.2	97.8
OS250-480	1206	335	65	0.65	1450	243.5	365.3
A	1072	297.8	55	0.55	1450	191.3	287.0
B	975.2	270.9	45.5	0.45	1450	173.9	260.9
C	903.3	250.9	37.5	0.37	1450	139.1	208.7
OS250-600	1243	354.3	116	1.16	1450	487	730.5
A	1154	320.6	100	1.0	1450	391.3	587.0
B	1051	292	83	0.83	1450	273.9	410.9
C	990	275	67	0.67	1450	217.4	326.1
OS300-300	1127	313	24.5	0.24	1450	95.7	143.6
A	1020	283.3	19.8	0.19	1450	78.3	117.5
B	970	269.4	15.5	0.15	1450	65.2	97.8
OS300-435	1710	475	52.5	0.52	1450	273.9	410.9
A	1577	438	45	0.45	1450	243.5	365.3
B	1476	410	36.5	0.36	1450	173.9	260.9
C	1361	378	27.5	0.27	1450	139.1	208.7
OS300-560	1750	486.1	94	0.94	1450	547.8	821.7
A	1645	457	76	0.76	1450	391.3	587.0
B	1573	437	62	0.62	1450	308.7	463.1
C	1516	421	50	0.50	1450	139.1	208.7
OS350-360	1733	481.4	32	0.32	1450	0	0.0
A	1692	470	26.5	0.26	1450	173.9	260.9
B	1642	456	21	0.21	1450	139.1	208.7
C	1602	445	15	0.15	1450	114.8	172.2
OS350-430	2808	780	42	0.42	1450	95.7	143.6
A	2635	732	35	0.35	1450	391.3	587.0
B	2563	712	27.5	0.27	1450	308.7	463.1
C	2484	690	21.5	0.21	1450	243.5	365.3
OS350-510	2610	725	70	0.70	1450	191.3	287.0

智能柴油机水泵 Intelligent Diesel Engine Pump

单级双吸离心泵 Single Stage Double Suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
A	2430	675	60	0.60	1450	547.8	821.7
B	2232	620	50	0.50	1450	487	730.5
C	2070	575	38	0.38	1450	347.8	521.7
OS350-630	2160	600	126.2	1.26	1480	273.9	410.9
A	2000	556	116	1.16	1480	869.6	1304.4
B	1920	533.3	106	1.06	1480	782.6	1173.9
C	1830	508.3	95.6	0.95	1480	695.7	1043.6
D	1695	470.8	83	0.83	1480	617.4	926.1
OS400-560	2635	731.9	86	0.86	1450	695.7	1043.6
A	2520	700	79	0.79	1450	617.4	926.1
B	2418	671.6	71.8	0.71	1450	547.8	821.7
C	2312	642	64	0.64	1450	547.8	821.7
D	2236	621	57.8	0.57	1450	487	730.5
OS400-600	3177	882.4	113	1.13	1450	1087	1630.5
A	3007	835.3	103.6	1.03	1450	973.9	1460.9
B	2922	811.8	93	0.93	1450	869.6	1304.4
C	2732	758.8	83.7	0.83	1450	782.6	1173.9
D	2642	706	74	0.74	1450	695.7	1043.6
OS400-675	2232	620	69.2	0.98	985	487	730.5
A	2052	570	60	0.60	985	391.3	587.0
B	1872	520	52	0.52	985	347.8	521.7
C	1728	480	45	0.42	985	273.9	410.9
OS500-520	3218	893.8	26.5	0.26	985	243.5	365.3
A	3088	857.8	24.3	0.24	985	217.4	326.1
B	2965	823.3	19.5	0.19	985	191.3	287.0
C	2845	790.6	17	0.17	985	173.9	260.9
OS500-650	3510	975	47.5	0.47	990	547.8	821.7
A	3353	931	46	0.46	990	487	730.5
B	3173	881	42	0.42	990	434.8	652.2
C	3015	837.5	38	0.38	990	347.8	521.7
D	2768	768.8	33.2	0.33	990	273.9	410.9

智能柴油机水泵 Intelligent Diesel Engine Pump

单级双吸离心泵 Single Stage Double Suction Centrifugal Pump

型号 Type XBC/KBC	流量 Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
OS500-710	3852	1070	78	0.78	994	973.9	1460.9
A	3672	1020	64.4	0.64	994	782.6	1173.9
B	3470	964	59.4	0.59	994	695.7	1043.6
C	3204	890.6	55	0.55	994	617.4	926.1
D	3024	840	49.5	0.49	994	487	730.5

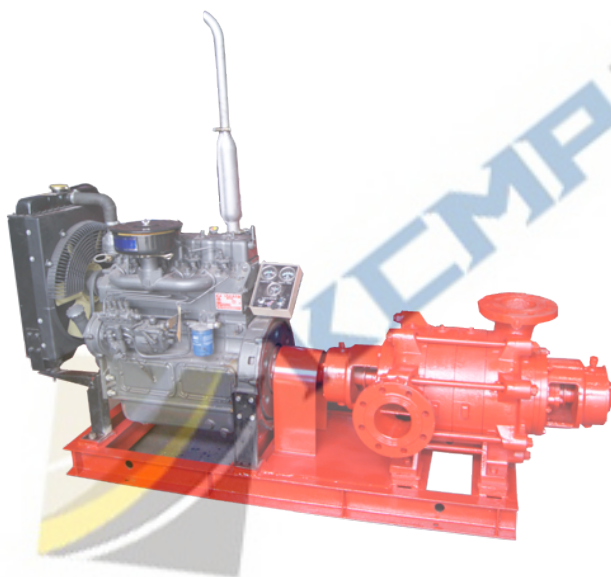
③多级离心泵 Multistage Centrifugal Pump

多级柴油机泵为多级分段式，其吸入口位于进水段上，成水平方向，吐出口在水段上垂直向上，其扬程可根据使用需要而增减水泵级数。该产品水力模型先进，效率高，性能范围广。泵运行平稳，噪音低。轴封采用软填料密封或机械密封，密封安全可靠、结构简单，维修方便快捷。轴为全封结构，确保了不与介质接触，不锈蚀，使用寿命长。

流量：12.5-450m³/h；扬程：50-600m；功率：11-850KW；转速：1450-2950r/min；
工作压力：≤5.0Mpa。

Multistage diesel engine pump is multistage and sectional. The inlet is in the horizontal direction with suction water line, and the outlet is in the vertical direction with discharge water line. Its delivery head can adjust the stage of pump according to the requirements. It has advantages of advanced hydraulic model, high efficiency, wide application, smooth operation, low noise. The shaft with soft packing seal or mechanical seal is safe and reliable, and convenient to maintain. The fully sealed structure ensures that the shaft will not contact with the medium to make it no rusty and have a long life.

Capacity: 12.5-450m³/h; Head: 50-600m; Power: 11-850KW; Speed: 1450-2950r/min; Pressure: ≤5.0Mpa.



智能柴油机水泵 Intelligent Diesel Engine Pump

D型多级离心泵产品选型 Multistage Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
D12-25×6	12.5	3.47	150	1.50	2900	11	21
D12-25×7	12.5	3.47	175	1.75	2900	15	21
D12-25×8	12.5	3.47	200	2.00	2900	15	21
D12-25×9	12.5	3.47	225	2.25	2900	18.5	29
D12-25×10	12.5	3.47	250	2.50	2900	18.5	29
D12-25×11	12.5	3.47	275	2.75	2900	22	29
D12-25×12	12.5	3.47	300	3.00	2900	22	29
D25-30×5	25	6.94	150	1.50	2900	22	29
D25-30×6	25	6.94	180	1.80	2900	30	46
D25-30×7	25	6.94	210	2.10	2900	30	46
D25-30×8	25	6.94	240	2.40	2900	37	46
D25-30×9	25	6.94	270	2.70	2900	37	46
D25-30×10	25	6.94	300	3.00	2900	45	73
D46-30×5	46	12.7	150	1.50	2900	37	46
D46-30×6	46	12.7	180	1.80	2900	37	46
D46-30×7	46	12.7	210	2.10	2900	45	73
D46-30×8	46	12.7	240	2.40	2900	55	73
D46-30×9	46	12.7	270	2.70	2900	55	73
D46-30×10	46	12.7	300	3.00	2900	75	113
D46-50×7	46	12.7	350	3.50	2900	75	113
D46-50×8	46	12.7	400	4.00	2900	90	135
D46-50×9	46	12.7	450	4.50	2900	110	165
D85-45×4	85	23.6	180	1.80	2900	75	113
D85-45×5	85	23.6	225	2.25	2900	90	135
D85-45×6	85	23.6	270	2.70	2900	110	165
D85-45×7	85	23.6	315	3.15	2900	132	165
D85-45×8	85	23.6	360	3.60	2900	132	165
D85-45×9	85	23.6	405	4.05	2900	160	240
D155-30×4	155	43	120	1.20	1450	90	135
D155-30×5	155	43	150	1.50	1450	110	171
D155-30×6	155	43	180	1.80	1450	132	171

智能柴油机水泵 Intelligent Diesel Engine Pump

D型多级离心泵产品选型 Multistage Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
D155-30×7	155	43	210	2.10	1450	160	206
D155-30×8	155	43	240	2.40	1450	185	227
D155-30×9	155	43	270	2.70	1450	185	227
D155-30×10	155	43	300	3.00	1450	220	263
D280-43×4	280	77.7	172	1.72	1450	220	263
D280-43×5	280	77.7	215	2.15	1450	300	425
D280-43×6	280	77.7	258	2.58	1450	300	425
D280-43×7	280	77.7	301	3.01	1450	350	450
D280-43×8	280	77.7	344	3.44	1450	410	510
D280-43×9	280	77.7	387	3.87	1450	430	550
D450-60×2	450	125	120	1.20	1450	220	263
D450-60×3	450	125	180	1.80	1450	360	450
D450-60×4	450	125	240	2.40	1450	500	610
D450-60×5	450	125	300	3.00	1450	680	750
D450-60×6	450	125	360	3.60	1450	680	750
D450-60×7	450	125	420	4.20	1450	850	1100
D450-60×8	450	125	480	4.80	1450	850	1100

TSWA型多级泵产品选型 TSWA Type Multistage Centrifugal Pump

型号 XBC/KBC	流量Q		扬程/压力		转速 r/min	轴功率 kw	柴油机 功率kw
	m ³ /h	L/s	m	MPa			
50TSWAx7	18	5	64.4	0.64	1450	7.5	20
50TSWAx8	18	5	73.6	0.73	1450	7.5	20
50TSWAx9	18	5	82.8	0.82	1450	7.5	20
50TSWAx10	18	5	92	0.92	1450	11	20
75TSWAx4	36	10	46	0.46	1450	11	20
75TSWAx5	36	10	57.5	0.57	1450	11	20
75TSWAx6	36	10	69	0.69	1450	15	20
75TSWAx7	36	10	80.5	0.80	1450	15	20
75TSWAx8	36	10	92	0.92	1450	18.5	30
75TSWAx9	36	10	103.5	1.03	1450	18.5	30

智能柴油机水泵 Intelligent Diesel Engine Pump

TSWA型多级泵产品选型 TSWA Type Multistage Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
100TSWAx3	69	19.2	46.8	0.46	1450	15	20
100TSWAx4	69	19.2	62.4	0.62	1450	22	30
100TSWAx5	69	19.2	78	0.78	1450	30	42
100TSWAx6	69	19.2	93.6	0.93	1450	30	42
100TSWAx7	69	19.2	109.2	1.09	1450	37	50
100TSWAx8	69	19.2	124.8	1.24	1450	45	84
100TSWAx9	69	19.2	140.4	1.40	1450	45	84
125TSWAx3	90	25	64.8	0.64	1450	30	42
125TSWAx4	90	25	86.4	0.86	1450	45	84
125TSWAx5	90	25	108	1.08	1450	55	84
125TSWAx6	90	25	129.6	1.29	1450	75	100
125TSWAx7	90	25	151.2	1.51	1450	75	100
125TSWAx8	90	25	172.8	1.72	1450	90	150
125TSWAx9	90	25	194.4	1.94	1450	90	150
150TSWAx2	155	43	60	0.60	1450	45	84
150TSWAx3	155	43	90	0.90	1450	75	100
150TSWAx4	155	43	120	1.20	1450	90	150
150TSWAx5	155	43	150	1.50	1450	110	171
150TSWAx6	155	43	180	1.80	1450	132	171
150TSWAx7	155	43	210	2.10	1450	160	206
150TSWAx8	155	43	240	2.40	1450	200	263
150TSWAx9	155	43	270	2.70	1450	200	263

④自吸式离心泵 Self-suction Centrifugal Pump

自吸式排污泵集自吸和排污一身，不需安底阀，不需灌引水，又可抽吸含有大颗粒固体直径为出口口径的30%和纤维长度为叶轮直径1.5倍的污物、沉淀物、废矿杂质、粪便处理及一切工程污水物和胶质液体，完全减轻工人的劳动强度，而且使用、移动、安装方便，极少维修，性能稳定。与同类产品相比，具有结构简单、自吸性能好、排污能力强、在排污泵系列产品中属国内首创。有铸铁材质、不锈钢材质。适用于环保水处理、市政排污工程、医药、宾馆、养殖、食品、造纸、石油化工、电力、矿业单位输送浆料及混合悬浮物。介质中杂质总重量不超过介质总重量的15%，介质比重不超过1240千克/立方米，介质温度-20℃~150℃，流量：8-800m³/h，扬程：10-80m，转速1450-2900r/min。

智能柴油机水泵 Intelligent Diesel Engine Pump

Self-suction sewage pump combines self-priming and non-block, it not only needn't to be fixed with base valve or pour in water but also can suck and discharge liquid containing large solid particles diameter to outlet 30% of the caliber and the fiber length is 1.5 times the impeller diameter dirt, impurities and all works of sewage and colloidal liquid.

Fully reduce the labor intensity of workers with advantages of convenient using, moving, installation, less maintenance and stable performance. Compared with similar products, it has features of simple structure, good self-suction performance and high sewage capability, and it belongs to the first creation in the country at sewage pump series.

Can be made from two materials of cast iron and stainless steel. So it is used in delivering environmental protection water treatment, municipal sewage project, pharmacy, hotel, breeding, foodstuff, paper making, chemical industry, power industry, mines slurry and mix suspension etc. The total weight of impurities in the medium can not exceed 15% of the total media weight. Medium specific weight not more than 1240kg/m³, medium temperature :-20℃~150℃.

Capacity: 8-800m³/h, Head: 10-80m, Speed: 1450-2900r/min.



自吸式离心泵产品选型 Self-suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
65ZW20-30	20	5.5	30	0.30	2900	5.5	21
65ZW30-30	30	8.3	30	0.30	2900	7.5	21
65ZW30-18	30	8.3	18	0.18	1450	4	11
65ZW25-40	25	6.9	40	0.40	2900	7.5	21
65ZW35-50	35	9.7	50	0.50	2900	15	21
80ZW40-16	40	11	16	0.16	1450	4	11
80ZW65-25	65	18	25	0.25	2900	11	21
80ZW80-35	80	22	35	0.35	2900	15	21
80ZW50-40	50	13.8	40	0.40	2900	15	21
80ZW50-60	50	13.8	60	0.60	2900	22	29
100ZW80-20	80	22	20	0.20	1450	7.5	20

智能柴油机水泵 Intelligent Diesel Engine Pump

自吸式离心泵产品选型 Self-suction Centrifugal Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
100ZW100-15	100	27.7	15	0.15	1450	7.5	20
100ZW100-20	100	27.7	20	0.20	1450	11	20
100ZW100-30	100	27.7	30	0.30	2900	22	29
100ZW100-40	100	27.7	40	0.40	2900	30	46
100ZW80-60	80	22	60	0.60	2900	37	52
100ZW80-80	80	22	80	0.80	2900	45	73
125ZW120-20	120	33.3	20	0.20	1450	15	20
125ZW180-15	180	50	15	0.15	1450	15	20
150ZW200-15	200	55.5	15	0.15	1450	15	20
150ZW180-20	180	50	20	0.20	1450	22	30
150ZW200-28	200	55.5	28	0.28	1450	30	42
150ZW180-38	180	50	38	0.38	1450	55	84
200ZW280-14	280	77.7	14	0.14	1450	22	30
200ZW300-18	300	83.3	18	0.18	1450	37	50
200ZW300-25	300	83.3	25	0.25	1450	45	56
200ZW280-28	280	77.7	28	0.28	1450	55	84
250ZW400-22	400	111	22	0.22	1450	55	84
300ZW800-14	800	222	14	0.14	1450	55	84

⑤强自吸式无堵塞排污泵 Strong Self-priming Non-clogging Sewage Pump

无堵塞自吸式排污泵是本公司最近研发的新产品，国际标准新型无堵塞自吸式排污泵，适用于市政污水和工业废水处理工程，以及各类废水污水分级处理和集中处理系统，有性能稳定，使用可靠，自吸速度快，吸入度高等优点。由于是后拉出结构，维修方便，节省日常维护，提高了效率。其开式叶轮结构，通过能力强。使用简单，泵首次启动需把泵体灌满。是最理想的新一代自吸污水泵产品，有自吸污水泵之王的称谓。流量:20m³/h-760m³/h，扬程:6.5m-40m，最大吸程8m，最大通过直径76mm。

Non-clogging self-priming sewage pump is a newly developed international standard product, which is suitable for municipal sewage and industrial waste water treatment projects, as well as the stage and centralized treatment systems for various types of waste water. The pump main advantages are stable and reliable performance, rapid self priming capacity and higher suction height and so on. Because of the back-pulled structure, the pump easy maintenance, saving daily maintenance and improve efficiency. The pump with strong transport ability because of the open type impeller. It can be easily operated, just filling up the pump body at the first start. It is the best of new generation pump and can be called the king of self priming water pump. Capacity: 20m³/h-760m³/h, Head: 6.5m-40m, Max suction head: 8m, Max diameter for particles: 76mm.

智能柴油机水泵 Intelligent Diesel Engine Pump

强自吸式无堵塞排污泵 Strong Self-priming Non-clogging Sewage Pump



强自吸式无堵塞排污泵选型表 Strong Self-priming Non-clogging Sewage Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率	柴油机功率	通过最大颗粒 物直径mm The maximum particle diameter	自吸高度 Suction height m
	m ³ /h	L/s	m	MPa		kw	Diesel engine power kw		
SP-2	40	11.1	27	0.27	2900	9.2	21	38	6.5
SP-3	55	15.3	11.5	0.11	1450	5.5	20	63	6.4
SP-4	100	27.8	13.5	0.13	1450	11	20	76	7.6
SP-6	250	69.4	17	0.17	1450	30	42	76	7.0
SP-8	300	83.3	12	0.12	950	22	30	76	5.2
SP-8	500	138.9	26	0.26	1450	75	100	76	7.0
SP-10	400	111	13	0.13	950	30	42	76	5.2
SP-10	600	167	31	0.31	1450	90	150	76	6.7

智能柴油机水泵 Intelligent Diesel Engine Pump

⑥容积泵（隔膜泵，螺杆泵，凸轮转子泵）Positive Displacement Pump(Diaphragm Pump, Screw Pump, CAM Rotor Pump)

柴油机隔膜泵 Diesel Engine Diaphragm Pump

柴油机隔膜泵采用柴油机传动动力，替代传统的电动及气动。安全可靠，在没有电力情况下，正常工作。由于近年来隔膜材质取得了突破性的进展，使该系列泵可取代部分离心泵泥浆泵和杂质泵。

隔膜泵不需灌引水、能自吸、通过性能好，大颗粒杂质、泥浆等均可毫不费力地通过；根据不同介质，隔膜分为氯丁橡胶、氟橡胶、丁腈橡胶、四氟乙烯等几种，完全可以满足不同用户的需要。过流部件也可根据用户要求，分为铸铁、不锈钢、铝合金。工作温度可达120℃，流量：6-30m³/h，扬程：3-50m。

Diesel engine diaphragm pump adopts diesel instead of traditional electric and pneumatic, so it is safe to work in case of no electricity. And this series of pump replaces part of centrifugal slurry pump and impurity pump because of the diaphragm material has been made breakthrough progress in recent years.

It is without irrigation water, good self suction and nice performance. The material of diaphragm divides into Neoprene, fluorine rubber, nitrile rubber and tetrafluoroethylene etc according to different medium so that it can totally meet customer's requirements, also the flow components can divide into cast iron, stainless steel and aluminum alloy. Temperature: ≤120℃, Capacity: 6-30m³/h, Head: 3-50m.



CBY柴油机隔膜泵选型表 CBY Type Diesel Engine Diaphragm Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
CBY-40	4.5	1.25	50	0.5	1450	2.2	11
CBY-50	6.5	1.80	50	0.5	1450	2.2	11
CBY-65	8	2.22	50	0.5	1450	2.2	11
CBY-80	16	4.44	50	0.5	1450	5.5	11
CBY-100	20	5.55	50	0.5	1450	5.5	11

智能柴油机水泵 Intelligent Diesel Engine Pump

⑥容积泵（隔膜泵，螺杆泵，凸轮转子泵）Positive Displacement Pump(Diaphragm Pump, Screw Pump, CAM Rotor Pump)

柴油机凸轮转子泵 Diesel Engine CAM Rotor Pump

凸轮转子泵是一种低转速、强自吸、高效率容积泵。其核心部分为转子系统，包括主、动轴和齿轮，凸轮叶轮构成。由泵头、减速机、联轴器、柴油机动力组成的无堵塞转子泵具有超强自吸能力强、无需灌泵、不需底阀、允许气—液—固混合输送、介质输送范围广；从低粘度如轻质汽柴油到高粘度如重油、原油等均可输送，特别在市政污水中输送含水率75%的浓缩污泥，应用范围广，运行平稳，可实现正反转，效率高，故障低，投资少，占地少。

流量范围15~600m³/h,压力范围 0.2~1.5MPa,最大自吸高度 8m,最大粘度106cp.

It is a kind of low speed, strong self-priming and high efficient positive displacement pump. The core part is rotor system which consists of main shaft, move shaft, gear and CAM impeller. The non-clogging rotor pump which is made of pump head, reduction box, coupling, diesel engine power has advantages of super strong self-priming, not need irrigation or foot valve, gas - liquid - solid mixed delivery available and widely medium delivery range from low viscosity like gasoline and diesel to high viscosity like heavy oil and raw oil. Especially in conveying water content 75% of the concentrated sludge in municipal sewage with positive and negative turning, widely application, stable operation, high efficiency, low failure, less land and investment.



HZB转子泵选型表 HZB Type Rotor Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
HZB50	11-18	3.0-5.0	40-80	0.4-0.8	1450	4-7.5	20
HZB65	20-40	5.5-11	40-90	0.4-0.9	1450	5.5-18.5	20-30
HZB80	45-65	12-18	30-120	0.3-1.2	1450	7.5-37	20-50
HZB100	70-90	19-25	30-80	0.3-0.8	1450	11-30	20-42
HZB125	110-150	30-41	40-120	0.4-1.2	1450	22-75	30-100
HZB150	145-220	40-61	30-120	0.3-1.2	1450	22-110	30-171
HZB200	220-300	61-83	30-90	0.3-0.9	1450	30-110	42-171
HZB250	330-400	91-111	30-120	0.3-1.2	1450	45-200	84-263
HZB300	435-600	120-166	30-100	0.3-1.0	1450	55-250	84-310

智能柴油机水泵 Intelligent Diesel Engine Pump

⑥容积泵（隔膜泵，螺杆泵，凸轮转子泵）Positive Displacement Pump(Diaphragm Pump, Screw Pump, CAM Rotor Pump)

柴油机螺杆泵 Diesel Engine Screw Pump

螺杆泵由于其优良的性能，近年来在国内的应用范围也在迅速扩大。它的最大特点是对介质的适应性强、流量平稳、压力脉动小、自吸能力高，输送高粘度流体和含有硬质悬浮颗粒或含有纤维介质，这是其它任何泵种所不能替代的。目前我单位的产品已自成一体，压力为0.4~1.2MPa,可满足广大用户对单螺杆泵的不同需求。单螺杆泵是按迥转啮合容积式原理工作的新型泵种，传动可采用联轴器直接连接柴油机传动，可通过柴油机变速。流量：5~100m³/h，压力0.6~1.2MPa。

The application scope of screw pump is expanding fast in recent yeas because of its good performance. The most important feature of its strong adaptability for medium, smooth flow , small pressure fluctuation, high self-priming function, transmitting high viscosity liquid and containing hard suspended particles or fiber medium, makes it irreplaceable to other pump.The product of our company becoming a system oneself can satisfy customers' different requirements,the pressure is 0.4~1.2MPa. Single screw pump is a new type pump which works by the turning meshing volumetric principle,and adopt the way of transmission by coupling connecting the diesel engine directly,speed change by the diesel engine.

Capacity: 5~100m³/h, Pressure: 0.6~1.2MPa.



G型螺杆泵选型表 G TypeDiesel Engine Screw Pump

型号Type XBC/KBC	流量Flow Q		扬程/压力 Lift/Pressure		转速 Speed r/min	轴功率 Shaft power kw	柴油机功率 Diesel engine power kw
	m ³ /h	L/s	m	MPa			
G35-1	8	2.22	60	0.6	990	3	11
G35-2	8	2.22	120	1.2	990	4	11
G40-1	12	3.33	60	0.6	990	4	11
G40-2	12	3.33	120	1.2	990	5.5	21
G50-1	20	5.55	60	0.6	990	5.5	21
G50-2	20	5.55	120	1.2	990	7.5	21
G60-1	30	8.33	60	0.6	990	11	21
G60-2	30	8.33	120	1.2	990	15	21
G70-1	45	12.5	60	0.6	990	11	21
G70-2	45	12.5	120	1.2	990	18.5	30
G85-1	56	15.5	60	0.6	990	15	21
G85-2	56	15.5	120	1.2	990	22	30

智能柴油机水泵 Intelligent Diesel Engine Pump

⑦ 柴油机消防应急成套设备 Diesel Engine Fire Fighting Whole Set of Emergency Equipment

柴油机自动消防应急成套设备，柴油机消防泵可与电动泵、稳压泵等组成自动消防供水系统，并可与消防控制中心实现联动。当柴油机消防泵组接到起动命令时，如果市电断电，则柴油机自动控制柜立即向泵组启动马达发出开启信号，启动马达，使柴油机怠速起动，然后逐渐调节油门，使柴油机加速，直至额定转速。控制系统会自动监控柴油机的运转情况，如柴油机的油压、油温、转速、水泵的出口压力等，通过自动监控来判定柴油机是否正常起动。如果起动失败则控制系统会发出重起信号，若三次起动均失败，则自控系统会发出失败报警。当柴油机消防泵组接到管网压力恢复或市电恢复正常的信号时，泵组会迅速降速并在怠速位置监视一段时间后自动停机。

Diesel engine automatic fire fighting whole set of emergency equipment, diesel engine fire fighting pump with electric motor pump, jockey pump and other pumps to make up automatic fire fighting water supply system, at the same time, it can achieve linkage with fire fighting control center. When diesel engine receive the start command, if mains power off, the diesel engine automatic control cabinet will send the start signal to the pump motor, then start the motor makes make the diesel engine idle speed start, then gradually adjust the accelerator, diesel engine speed up until the rated speed. Control system will control the Diesel engine operation conditions automatically, Such as engine oil pressure, oil temperature, speed, pump outlet pressure, etc, it through automatic control system to sure whether the diesel engine has start normally. the control system will send out the restart signal if starting failed, if start all failed three times, automatic control system will send out the failure alarm. when diesel engine fire pumping unit got the signal of pipe network pressure recovery or municipal electricity back to normal, pump unit will slow down the rotate speed instantly and in idle speed position monitoring automatic stop after a period of time.



性能特点 Performance Characteristics

一、具有完善的三种起动功能：Three perfect start functions

- 1、手动起动功能：通过转换开关可完成手动、自动联锁并可实现手动起动功能：Manual starting function: through a switch can complete the manual and automatic interlock and can be realized manual starting function;
- 2、自动手动功能：允许起动三次、如三次起动不成功则发出“起动失败报警”并自动退出起动状态；一次起动成功后起动到额定负载时间为5-10-15S（按机组容量大小各异）；Automatic manual function: allow starting three times, if three times starting unsuccessful emit "starting failure alarm" and automatically withdraw starting state;

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- 3、紧急手动直接起动功能：当自控装置故障时可实现紧急手动直接起动功能。Emergency manual direct start function: When automatic control device failure which can realize the emergency manual starting function directly.
- 二、自动运行：当水泵机组接到有效消防信号后，如果电动机消防泵供电系统断电或缺相或电泵故障不能正常起动时，柴油机消防泵组会自动起动运行，一旦供电系统恢复正常或电动泵可正常运行时，可自动切换到电动泵。Automatic operation: when pumping unit receive the effective fire fighting signal, if the electricity supply system for electric fire fighting pump was cut off or lose phase or electric pump breakdown, and cannot start normally, the diesel engine pumping unit will start and operate automatically. Once the electricity supply system back to normal, or the electric pumps can operate normally, it will switch to the electric pump automatically.
- 三、自动停机：当消防信号消失后，柴油机消防泵会自延迟停机。Automatic stop: when fire fighting signal disappear, diesel engine fire fighting pump will turn out delay shutdown automatically.
- 四、蓄电池自充电稳压功能：蓄电池可利用市电对柴油机充电电机自动充电，保证机组的顺利起动。Storage battery automatic charging voltage stabilizing function: storage battery can utilize mains power automatic charging for charging electric motor of diesel engine, which guarantee the pump unit start successfully.
- 五、具有完善的指示系统：准备起动、手动起动、自动起动、机组运行、机组停机、蓄电池充电、超速、柴油机润滑油油压过低、增压器油压过低、柴油机润滑油油温过低、柴油机冷却水水温过高、蓄电池电压过低、燃油油位过低（或缺少）、柴油机冷却水水温过低预热、定时巡检。Perfect indication system: ready start, manual start, automatic start, pump unit operation, pump unit stop, storage battery charging, over speed, diesel engine lube oil temperature too low, supercharger low oil pressure, engine lube oil temperature is too low, diesel engine cooling water temperature is too high, the battery voltage is too low, fuel oil level is too low (or lack), diesel engine cooling water temperature is too low preheating, regular inspection.
- 六、具有完善的报警或保护系统：三次起动失败报警或保护、超速报警或保护、润滑油油压过低报警或保护、增压器油压过低报警或保护、冷却水水温过高报警或保护、润滑油油温过低报警或保护、自动充电装置故障报警、蓄电池电压过低报警、蓄电池电压过高报警、机油油位低报警或保护。Perfect alarm or protection system: three times start failure alarm or protection, overspeed alarm or protection, lubricating oil low pressure alarm protection, supercharger oil too low pressure alarm or protection, cooling water high temperature alarm or protection, lube oil temperature is too low alarm or protection, automatic charging device fault alarm, battery low voltage alarm, battery high voltage alarm, oil level low alarm and protection.
- 七、具有完善的显示系统：柴油机润滑油压力、柴油机转速、蓄电池充电电流、蓄电池充电电压。Perfect display system: diesel engine lube oil pressure, diesel engine rotation speed, storage battery charging current, storage battery charging voltage.
- 八、直联式：柴油机与水泵直接联轴器联接，采用公共槽钢底座，结构紧凑、整体性能好，故障少、振动小，现场施工安装方便。Direct-coupling type: diesel engine and water pump connected directly by coupling, adopt public channel steel base, compact structure, overall performance is good, few breakdown, small vibration, site construction installation is convenient.
- 九、流量、压力可调整：柴油机水泵装有机械调整器或电子调整器，当水泵的流量、扬程与实际不一致时，可调节改变柴油机的转速。Capacity and pressure can be adjusted: diesel engine water pump is equipped with mechanical regulator or electronic regulator, we can change diesel engine speed when water capacity and head are different between actual.
- 十、自动定时巡检测试：消防系统通常处于备用状态，该机组设备能自动完成对机组的备用状态进行测试并及时报警。Automatic timing inspection test: usually fire system be standby state, The pump unit device can automatic test and alarm for pump unit standby state in time.

其它配件：滤清系统、消音系统、冷却系统、燃油箱、公用底座、散热水箱、蓄电池、充电器、可加预热系统。控制柜：单片机、PLC编程器、传感器、全自动控制柜。Other accessories: filtration system, sound elimination system, cooling system, fuel oil tank, public base plate, heat disperse water tank, storage battery, charger, Preheat system. Control cabinet: single chip microcomputer, PLC programming unit, sensor, automatic control cabinet.

注：以上功能可根据用户需要选用，也可根据用特殊需要设计定做。Note: The above function could be selected according to user requirements, also can design according to special requirements.

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柴油机消防应急成套设备选型表 Diesel Engine Fire Fighting Whole Set of Emergency Equipment

柴油机消防 泵组型号 Type	额定流量Flow m ³ /h	额定扬程 Lift m	额定转速 Speed r/min	水泵型号 Pump Type	柴油机功率 Diesel engine power kw
XBC8.0/13.9	30-50-60	84-80-75	2900	IS80-50-250	29kw
XBC7.0/13.0	47	70	2900	IS80-50-250A	29kw
XBC6.0/12.2	44	60	2900	IS80-50-250B	21kw
XBC8.5/11.7	42	85	2900	IS80-50-315B	46kw
XBC3.2/6.90	25	32	1450	IS80-50-315	20kw
XBC5.0/27.8	60-100-120	54-50-47	2900	IS100-65-200	29kw
XBC6.0/23.9	86	60	2900	IS100-65-250B	29kw
XBC7.0/25.8	93	70	2900	IS100-65-250A	46kw
XBC8.0/27.8	60-100-120	87-80-75	2900	IS100-65-250	52kw
XBC10.0/25.0	90	100	2900	IS100-65-315B	73kw
XBC3.2/13.9	50	32	1450	IS100-65-315	20kw
XBC5.0/55.6	120-200-240	58-50-45	2900	IS125-100-200	73kw
XBC6.0/48.1	173	60	2900	IS125-100-250B	73kw
XBC8.0/55	120-200-20	87-80-72	2900	IS125-100-250	73kw
XBC3.2/28	100	32	1450	IS125-100-315	30kw

智能柴油机水泵 Intelligent Diesel Engine Pump

柴油机消防应急成套设备选型表 Diesel Engine Fire Fighting Whole Set of Emergency Equipment

柴油机消防 泵组型号 Type	额定流量Flow m ³ /h	额定扬程 Lift m	额定转速 Speed r/min	水泵型号 Pump Type	柴油机功率 Diesel engine power kw
XBC5.0/28	100	50	1450	IS125-100-400	42kw
XBC3.2/55	200	32	1450	IS150-125-315	42kw
XBC5.0/55	200	50	1450	IS150-125-400	84kw
XBC3.2/111	400	32	1450	IS200-150-315	84kw
XBC5.0/111	400	50	1450	IS200-150-400	150kw
XBC5.7/10	30-36-42	62-57-50	1450	75TSWA×5	20kw
XBC6.9/10	30-36-42	75-69-60	1450	75TSWA×6	20kw
XBC8.0/10	30-36-42	87-80-70	1450	75TSWA×7	20kw
XBC9.2/10	30-36-42	100-92-80	1450	75TSWA×8	30kw
XBC10.3/10	30-36-42	112-103-90	1450	75TSWA×9	30kw
XBC6.2/19.2	62-69-80	64-62-56	1450	100TSWA×4	30kw
XBC7.8/19.2	62-69-80	81-78-70	1450	100TSWA×5	42kw
XBC9.3/19.2	62-69-80	97-93-84	1450	100TSWA×6	42kw
XBC10.9/19.2	62-69-80	113-109-98	1450	100TSWA×7	50kw
XBC6.4/25	72-90-108	69-64-60	1450	125TSWA×3	42kw
XBC8.6/25	72-90-108	92-86-80	1450	125TSWA×4	84kw
XBC10.8/25	72-90-108	115-108-100	1450	125TSWA×5	84kw
XBC6.0/43	119-155-191	65-60-55	1480	150TSWA×2	84kw
XBC9.0/43	119-155-191	97-90-82	1480	150TSWA×3	100kw
XBC12.0/43	119-155-191	129-120-109	1480	150TSWA×4	150kw
XBC6.5/134	360-485-612	71-65-56	1450	250S65	171kw
XBC9.0/219	590-790-936	93-90-82	1450	300S90	425kw
XBC7.8/210	576-756-918	86-78-70	1450	300S90A	350kw
XBC6.7/200	540-720-900	72-67-57	1450	300S90B	310kw
XBC5.8/219	576-790-972	65-58-50	1450	300S58	263kw
XBC5.0/204	529-735-893	55-50-42	1450	300S58A	206kw
XBC12.5/351	850-1260-1660	140-125-100	1450	350S125	950kw
XBC11.2/328	787-1181-1538	120-112-86	1450	350S125A	660kw
XBC9.6/305	697-1098-1363	106-96-77	1450	350S125B	610kw
XBC7.5/351	972-1260-1440	80-75-65	1450	350S75	450kw
XBC6.5/325	900-1170-1332	70-65-56	1450	350S75A	350kw
XBC5.5/300	813-1080-1202	59-55-46	1450	350S75B	310kw

智能柴油机水泵 Intelligent Diesel Engine Pump

8: 配套装置 Matching devices

①拖车型（2轮、3轮、4轮移动拖挂车）Trailer type (2 wheels, 3 wheels, 4 wheels Mobile trailer)



每套是一个独立可移动设备，机动性作业，随时到达；单人短时间内安装操作；不需额外电源和起吊设备；无复杂维修保养。采用4轮式、3轮式或2轮式合金钢底盘车架，可配硬质钢板隔音罩，并配有拖车盘架；可带刹车系统，前后伸缩式手摇支撑腿，其平衡型减震性能良好。柴油机与泵完美组合配上移动拖车和户外防风雨罩可在野外作业不受气候限制，操作可设手动、自动控制。适应于市区及乡村道路，无电源等地区。广泛应用于突击应急、防洪排涝、抗旱抢险、农业灌溉、水产养殖、各种临时抽水场合、消防、围堰抽水工业、市政排水。

Each is an independent mobile device, mobility operation, arrive destination at any time; A single person can installation and operation within short time; no need of additional electric power and lifting equipment; no complex maintenance. Adopt 4 wheels, 3 wheels, 2 wheels alloy steel chassis frame, it can match hard steel sound insulation cover and trailer frame; it has braking system, stretch forward and back model hand support legs, its balance and vibration reduction performance is good. Diesel engine and pump and perfect combination with the mobile trailer and outdoor shield without being limited by the climate in the field operation, operation can be set to manual, automatic control. Suitable for urban and rural roads, no power supply area etc. It is widely used in the assault, flood control and drainage, drought disaster, agricultural irrigation, aquaculture, various temporary pumping occasions, fire protection, cofferdam, municipal drainage pumping industry.

智能柴油机水泵 Intelligent Diesel Engine Pump

②静音式，户外移动型 Silent type, outdoor mobile type



超静音柴油机消防泵组，它是引进吸收国外低噪声柴油机消防水泵先进技术而研制的新型系列产品，产品符合GB/T2820-1997或GB12786-91国家标准，静音式柴油机水泵机组广泛应用于邮电通讯、宾馆大厦、娱乐场所、医院、商场、工矿企业，市政系统等对环境噪声要求严格的场所，作为应急消防、生活供水。

Super mute mode diesel engine fire fighting pumping unit, is the new type series product, which absorb the foreign advanced technology of low noise diesel fire fighting water pump. the product is in accordance with national standards of GB/T2820-1997 or GB12786-91, mute mode diesel engine water pumping unit is widely used in post and telecommunication, hotel buildings, entertainment occasion, hospital, mall, mining industry, municipal system and other occasions that has strong restriction to the environmental noise, as emergency fire fighting, living water supply.

静音式柴油机水泵机组产品特点：Characteristics of mute mode diesel engine water pump unit

- 1、一米测距噪声指标可达到65dB(A)-85dB(A)，机组可不降功率使用；One meter distance noise measurement index can reach 65dB(A)-85dB(A), pump unit can use without reduce power;
- 2、静音式柴油机水泵机组总体设计结构紧凑，体积小，造型新颖美观；Mute mode diesel engine water pump unit whole design structure is compact, small volume, novelty and beautiful model.
- 3、隔振设计，柴油机和发电机与公共底座之间采用高性能减震器，以减少噪音来源；Design of vibration isolation, diesel engine and generator and public base plate adopt high performance shock absorber to reduce the sources of noise.
- 4、采用高效吸音材料制成的隔声罩，吸音隔音能力强大；Adopt efficient sound-absorbing material made into sound insulation cover;
- 5、采用阻抗加吸声型复合型消声器，大大降低了废气排出时的噪音；Adopt impedance and acoustic absorption type composite muffler, which greatly reduces the discharge of noise;
- 6、高效降噪型多路进排气，进排风通道，保证机组充足的动力性能；High efficient noise reduction type multiple inlet and exhaust and into the exhaust channel, ensure pump unit good dynamic performance;
- 7、大容量燃油器；Large volume oil burner;
- 8、特设快速开启盖板，维护保养方便；Special design of quick open cover plate, convenient maintenance;
- 9、全系列静音型柴油机泵组均可箱顶部吊装；Whole series of silent type diesel engine pump all can hoisting at top of box;
- 10、取消箱底进风的传统设计，防止杂物和粉尘吸入，加大进风与排风面积；Cancel the traditional design of wind from bottom of box, prevent suction of the debris and dust, increase the area of inlet and exhaust of wind.
- 11、静音箱上有独立输出开关盒，便于电缆的接驳(特别适合于工程施工、租赁)；Static speaker has independent output switch box, which is convenient for connection of cables (especially used for engineering construction, rental)
- 12、静音箱防水耐候等级更高。Static speakers waterproof and climate resistance level are higher.

智能柴油机水泵 Intelligent Diesel Engine Pump

③智能控制柜 Intelligent Control Cabinet



智能控制柜在应用PLC编程控制的基础上，同时应用了计算机联网数字控制，触摸屏人机对话界面，在无人状态下自主实现预设的各项控制指令。Intelligent controller based on the application of PLC programming control, use digital control and application of the computer network and touch screen man-machine dialogue interface meanwhile, independent achieve preset the control instructions in the condition of no person.

1.带手动及全自动控制功能。Manual and Automatic Control Function

当自启动信号输入或人工按下启动按键，控制器便自动完成自启动、机组运行、故障停机保护等程序控制和过程控制。When the self-starting signal input or manual press the start button, the controller will automatically complete the self-starting, the unit operation, downtime protection and other process control.

2.自动监控功能。Automatic Monitoring Function

自动监控发动机在启动、怠速、升速、全速等过程的速度变化，自动完成启动电机的投入与撤出、转速过高与过低的超限停机、速度正常后输出运行信号等。柴油机运行状态显示功能。根据系统现时运行状况，由指示灯或显示屏指示设备当前所处的状态，包括：、准备起动、手动起动、自动起动、供油、转速显示、怠速延时、正常运行、机组停机、蓄电池充电、超速、柴油机润滑油油压过低、增压器油压过低、柴油机润滑油油温过低、柴油机冷却水水温过高、蓄电池电压过低、燃油油位过低、柴油机冷却水水温过低预热、定时巡检、故障自诊断、报警功能、冷却停机、紧急停机等。

Automatic monitoring the engine speed change in the start, idle speed, winding speed, full speed and other process. And auto-complete the engine to start input and output, overrun stop when the speed is too high or too low, output operation signal after speed back to normal. It also has diesel engine running state display function. The pilot lamp or display screen indicates the current status of the device according to current running status, including ready to start, manual start, automatic start, fuel, speed display, idle delay, normal operation, the unit shutdown, storage battery charging, excessive speed, diesel engine lubricating oil pressure is too low, the turbocharger oil pressure is too low, the diesel engine lubricating oil temperature is too low, the diesel engine cooling water temperature is too high, the battery voltage is too low, the fuel level is too low, the diesel engine cooling water preheating temperature is too low, regular inspection, fault diagnosis, alarm function, cooling shut-down, emergency shut-down and so on.

④阀门 Valve

配套用途的各类阀门，该系列阀门广泛应用在多种给水系统上，是确保系统安全以及高效运行的理想配套产品。All kinds of supporting valves, this series valve are widely used in a variety of feed water system, are the ideal accessory products to ensure system safety and efficient operation.



水力控制阀
Hydraulic control valve



闸阀
gate valve



手柄蝶阀
butterfly valve



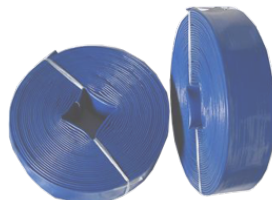
蝶阀
butterfly valve

智能柴油机水泵 Intelligent Diesel Engine Pump

⑤其他配件 图片形式 Other Accessories



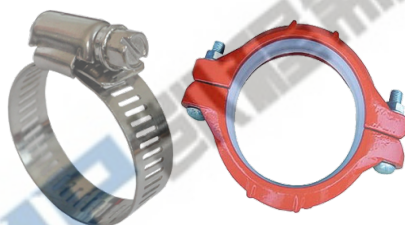
进水管（内衬钢丝塑料软管）
Inlet pipe (lined with steel wire plastic hose)



出水管（水带）
Outlet pipe (hose)



快速接头
Quick connector



卡箍（老虎夹）
Clamp (tiger clip)



各种传感器及仪表
All kinds of sensors and instruments



智能控制器
Intelligent controller

9: 单缸小型系列柴油机水泵 Single Cylinder Small Size Series Diesel Engine Pumps

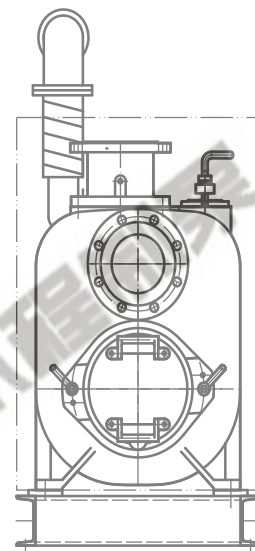
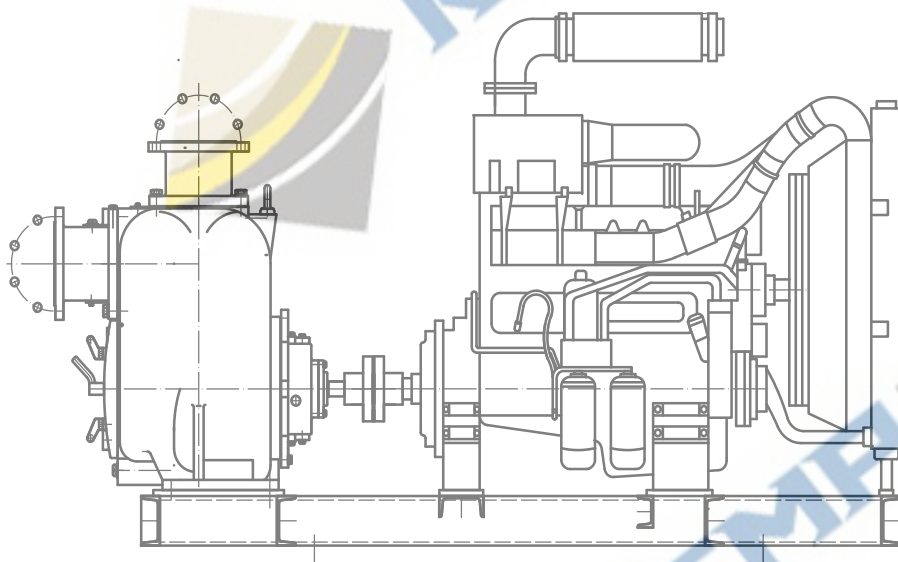
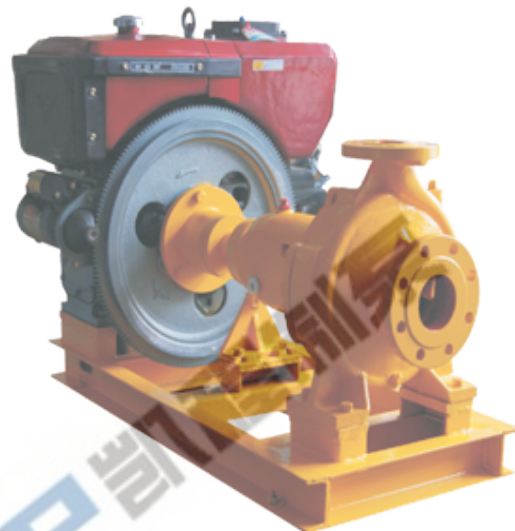
①单缸柴油机自吸泵（移动式） Single cylinder diesel engine self-priming pump(mobile type)

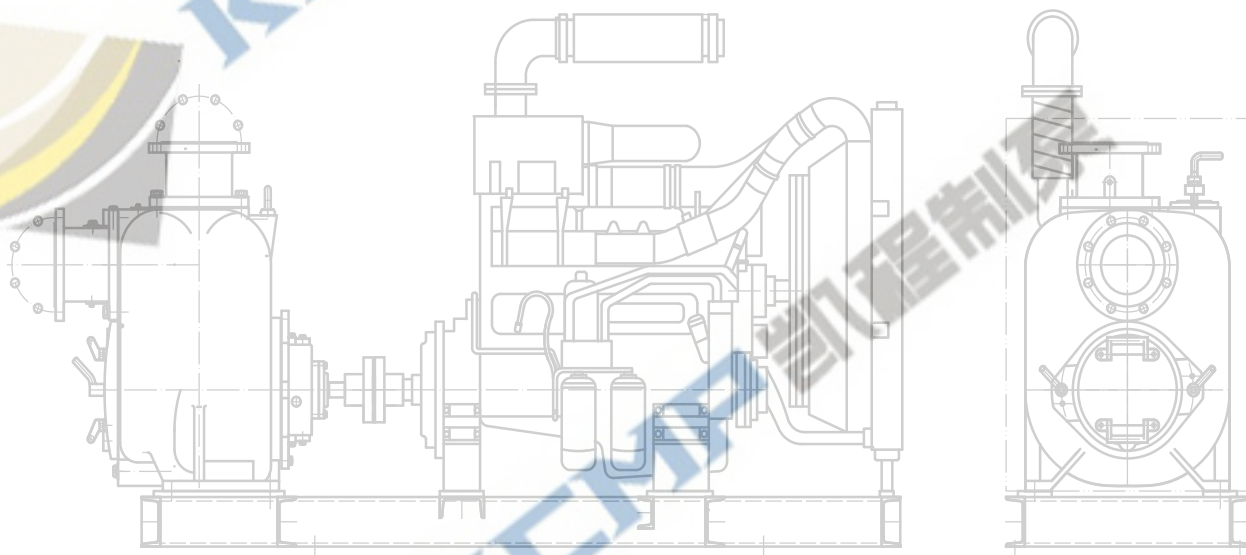
柴油机自吸泵集自吸和无堵塞排污于一体，采用轴向回流外混式，并通过泵体、叶轮流道的独特设计，即可像一般自吸清水泵那样不需要安装底阀和罐引水，又可吸排含有大颗粒固体和长纤维杂质的液体，可广泛用于市政排污防洪抗旱抢险，山区农田灌溉、河道抽水等最理想的柴油机自吸泵。其结构简单，重自吸性能好，排污能力强、高效节能，维修方便等特点，更有移动推车型便于使用，具有广泛的应用市场。

Single cylinder diesel engine self-priming pump(mobile style) This kind of pump combines self-priming and non-block, adopts axial circumfluence outer-mix type. And through the particular design of case, impeller channel, it not only needn't to be fixed with base valve poured in water like normal self-priming pump, but also can suck and discharge liquid containing big grain and long fibrin substance. So it is the most ideal pump what widely used in municipal, flood and drought emergency rescue, farmland irrigation and river water pumping. This kind of pump also has mobile vehicles type. It has widely application with features of simple structure, good self-priming performance, high sewage capability, high efficiency and energy saving, convenient maintenance etc.

智能柴油机水泵 Intelligent Diesel Engine Pump

单缸柴油机自吸泵（移动式） Single cylinder diesel engine self-priming pump(mobile type)





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