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# 卧式双吸泵

## Split Case Fire Pump

瑞迪巴夫科技（南京）有限公司  
RFP Technology (Nanjing) Co., Ltd.

# 公司简介



## Company Introduction



**瑞迪巴夫科技(南京)有限公司** (以下简称 RFP) 是专业的消防泵制造和成套供应商, 我们是美国消防协会 NFPA 的会员, 质量体系通过 ISO9001 认证, 我们制造的成套消防泵, 符合 GB6245 和 NFPA-20 标准, 通过公安部消防产品合格评定中心 CCCF 型式检验, 并提供 CCCF/FM/UL 证书。

另外, 我们可对消防泵提供完善的指导安装、调试、维修和保养服务。

**RFP Technology (Nanjing) Co., Ltd.** (hereinafter referred to as RFP) is a professional fire pump manufacturer and complete set supplier. We are a member of NFPA ( American Fire Protection Association). Our quality system has passed ISO9001 certification. Our complete set of fire pump conforms to GB6245 and NFPA-20 standards. It has passed CCCF type inspection of fire product qualification evaluation center of Ministry of public security and can provide CCCF / FM / UL certificate.

In addition, we can provide complete installation, commissioning, maintenance and repair services for fire pumps.



版本说明  
Version specification

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RFP Technology (Nanjing) Co., Ltd.



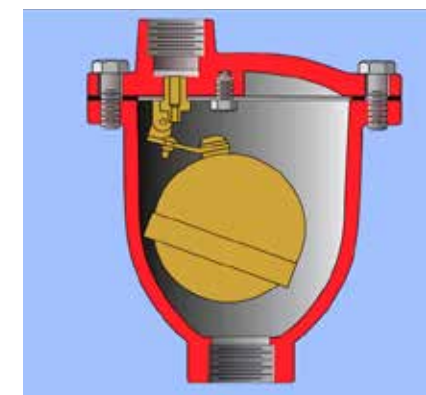


## 消防泵系统附件 Fire pump system accessories

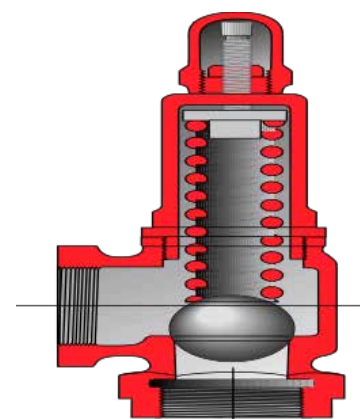
■ Main Relief Valve  
主泄压阀



■ Automatic Air Release Valve  
自动排气阀



■ Circulation Relief Valve  
循环安全阀



■ 控制柜  
controller



■ Enclosed Waste Cone  
密闭式排水视窗



■ Flowmeter  
流量计





一流的生产设备与场地  
first-class production equipment and workshop

一流的生产设备与场地  
first-class production equipment and workshop





## 一流的生产设备与场地 first-class production equipment and workshop



- UL(Underwrites Laboratories Inc ) 是美国保险商实验室的简写，是一种与安全鉴定相关的认证。  
UL is short for laboratory of American underwriters,which is a kind of certificate regarding security identify.  
UL ( Underwrites Laboratories Inc. )
- 它是世界上最大的从事安全试验和鉴定的民间机构之一，是一个独立的第三方检验机构，是一个非盈利的、为公共安全做试验的专业机构。  
It is one of the biggest non-governmental institution which works for security test and identify ,it is an independent third-party testing institution and also is the professional unprofitable institution for public security test.
- 它有产品检验、工厂检验；资料、标准的编写和发行；对产品的安全认证和经营安全证明等业务。  
The service of institution includes products inspection, factory inspection,the publishment of documents and standards, certificate for the products security and operation safety.

UL 认证和 FM 认证是一种对产品技术标准、产品质量要求最具权威的认证，其认证机构均设在美国。

## 一流的生产设备与场地 first-class production equipment and workshop



- FM 是全球排名第一的工商业财产保险公司  
FM(Factory Mutual) is the global No.1 industrial and commercial property insurance company.  
**FM(Factory Mutual)**
- 为了客户能够选择到质量优异的产品，在 FM 全球保险公司 ( FM Global ) 之下成立了 FM Approvals -- FM 认证公司，可以说 FM 认证公司的诞生和存在，是为了明确的目的“认证真正优异的产品，帮助客户保护财产安全”。  
In order to make clients finding high quality products, FM Approvals was set up under FM Global , the birth and exist of FM Approvals is just for the clear aim of certificate for the real excellent product, help clients with the protection of their property.
- “FM 认证”证书在全球范围内被普遍承认，它向消费者表明该产品或服务已经通过美国和国际最高标准的检测。  
the certificate of FM Approvals is generally admitted all over the world,which makes clear that the product or service has passed the test of American or international standards.

UL 认证和 FM 认证是一种对产品技术标准、产品质量要求最具权威的认证，其认证机构均设在美国。

## 双吸离心泵

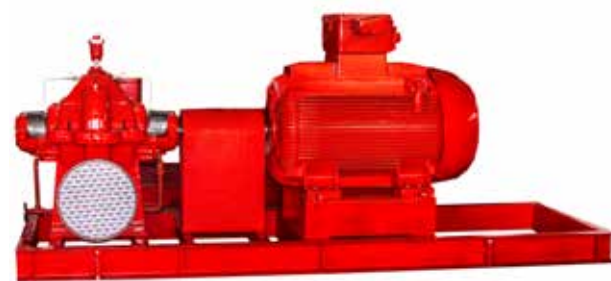
### Double suction centrifugal pump

我们提供的是新一代高效节能单级双吸中开式离心泵，主要适用于自来水厂、空调循环用水、供热管网系统、建筑供水、灌溉、排水泵站、电厂、工业供水系统、消防系统、船舶工业、矿山给排水等输送液体的场合。

We supply a new generation of high performance single-stage double-suction centrifugal split pumps. They are mainly used in delivering liquids of the water plant, air conditioner circulation water, heating pipe network system, building water supply, irrigation and drainage of pump stations, power plants, industrial water supply system, fire protection, ships industry and mine.



柴油机驱动



电动机驱动



#### 系列型号 Model

4 H F T 12

叶轮名义直径 12" Impeller Diameter

叶轮级数 (2 级), 1 级叶轮不显示  
Impeller Stage (Two), One Stage not shown

消防泵 Fire Pump

卧式泵 Horizontal Pump

泵出口口径 4" Discharge Diameter

#### 驱动形式 Drive Type :

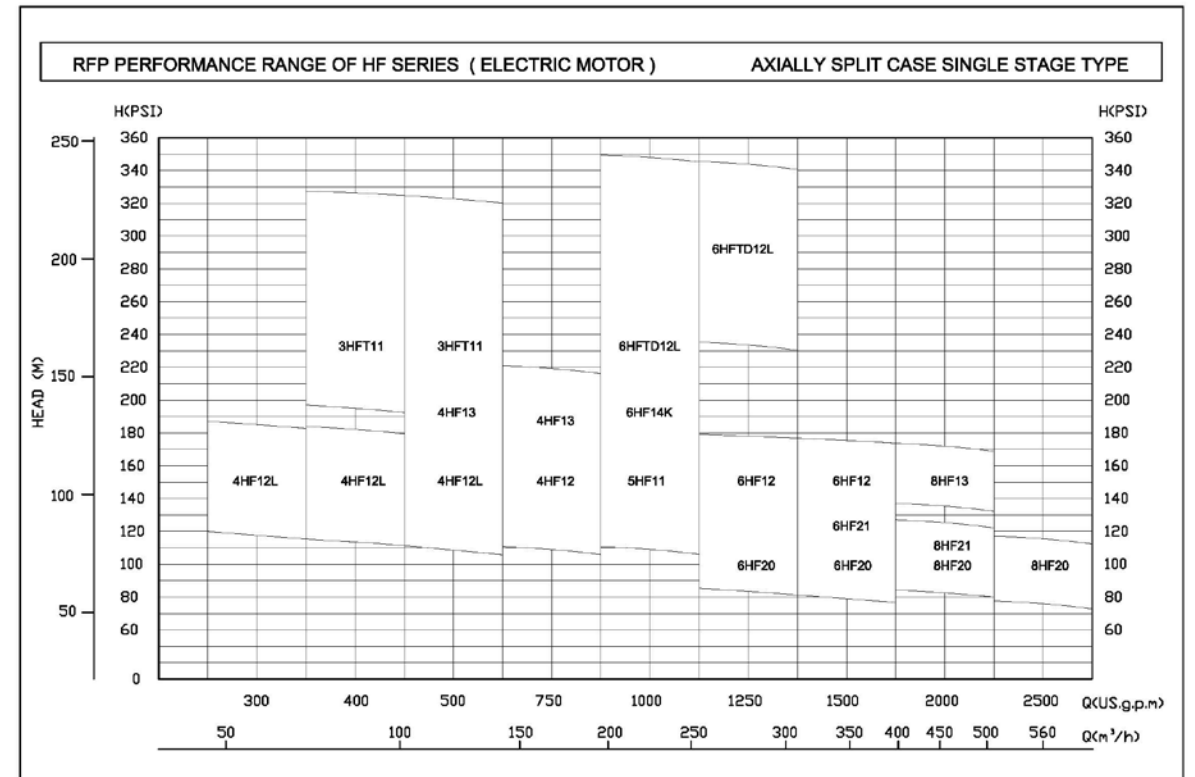
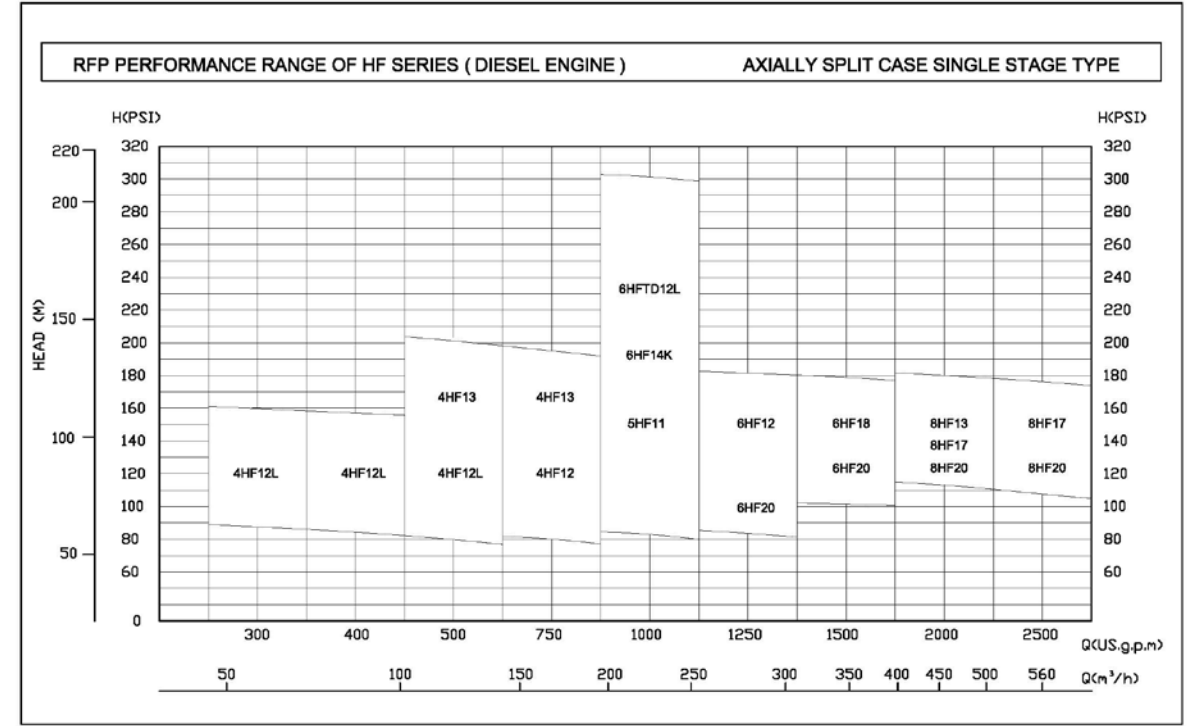
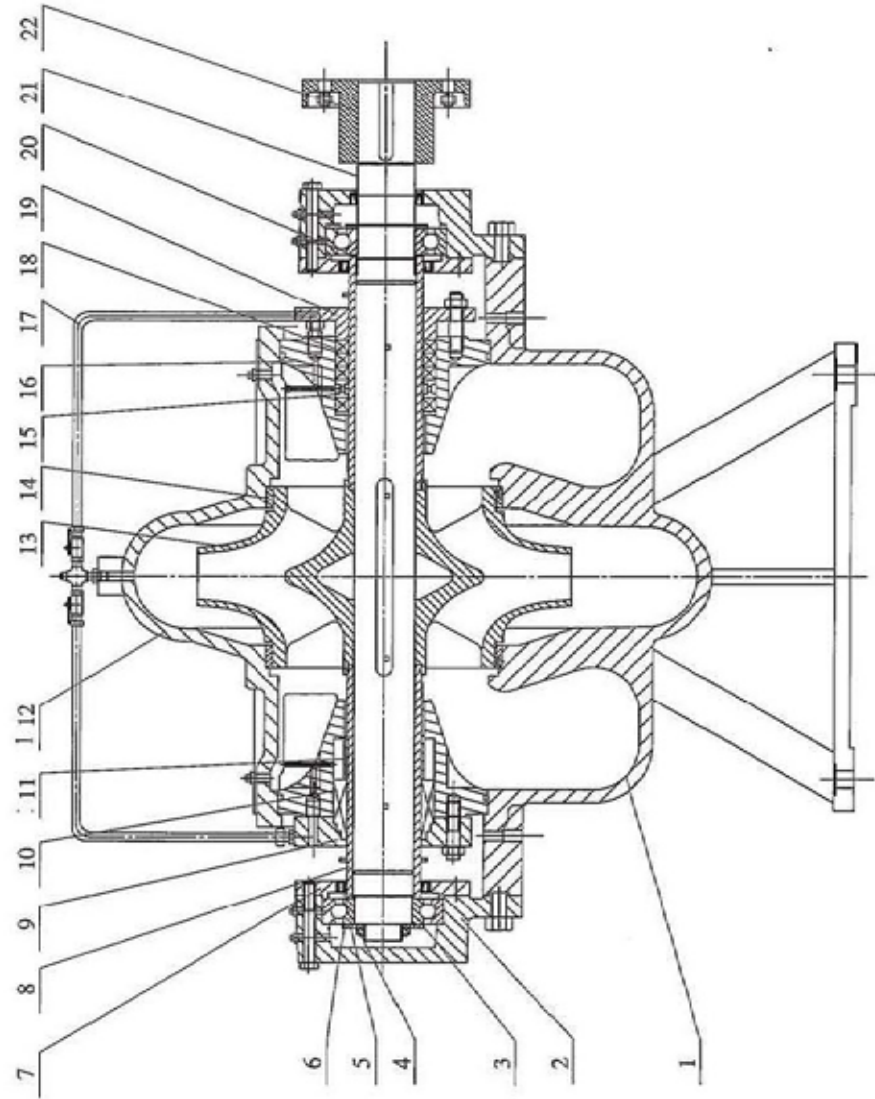
电动机 Motor、柴油机 Engine

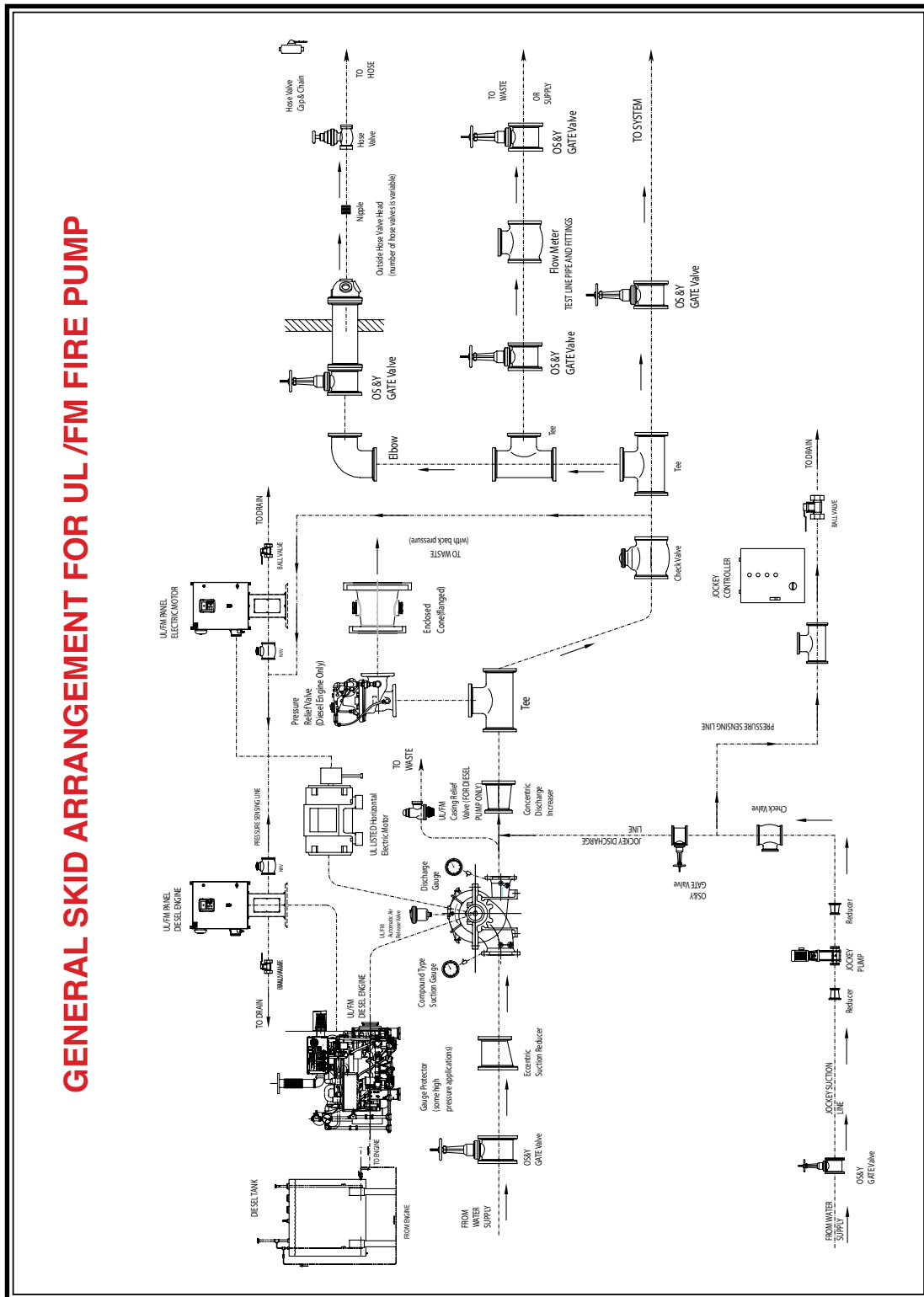
#### 主要技术参数 Main technical Data :

- 1、口径 Diameter Range: 3" ~14"
- 2、流量范围 Flow Range: 200GPM~8000GPM
- 3、扬程范围 Head Range: ~554psi
- 4、可选择材质 Optional Material : 铸铁 HT250、球铁 QT450、铸钢、不锈钢 304SS/316SS、双相不锈钢 Duplex stainless steel / super duplex stainless steel、镍铝青铜 Ni-Al-Bronze



22	联轴器	Coupling
21	轴	Shaft
20	轴承衬套	Bearing liner
19	填料压盖	Packing gland
18	填料	Gland packing
17	水封管部件	Water sealing pipe
16	密封体	Seal housing
15	填料环	Seal cage
14	口环	Impeller ring
13	叶轮	Impeller
12	泵盖	Casing cover
11	密封衬套	Seal bushing
10	机械密封	Mechanical seal
9	机械密封盖	Mechanical seal cover
8	轴套	Shaft sleeve
7	轴承压盖	Bearing cover
6	轴承压环	Bearing ring
5	骨架油封	Skeleton oil seal
4	锁紧螺母	Lock nut
3	深沟球轴承	Deep groove ball bearing
2	轴承体	Bearing support
1	泵体	Casing
NO.	零件名称	Parts Name





## 我们的客户 Company Achievements







## ▼ 产品简介 Product Introduction

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VT 系列长轴深井泵引进国际先进的水力模型和结构设计的产品，并在此基础上进行优化，是全新一代的产品。输送介质为清水，或含有较小固体颗粒的污水，腐蚀性工业废水或海水等类似液体。

可用于冶金、采矿、化工、造纸、自来水、热电、城市给排水、淡水或海水的取水工程。

VT vertical turbine pump introduced the international advanced hydraulic model and conformation, On the basis of optimization, is a new generation of products. The convey-ing medium is water, or contains small solid particles Sewage, corrosive industrial waste water or water and other similar liquids. Can be used for metallurgy, mining, chemi-cal, paper, tap water, thermoelectric, urban water supply and drainage, fresh water or sea water of the water project.

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柴油机驱动



电动机驱动





## ▼ 结构特点 Structural Characteristics

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选用先进的水力模型，水泵效率高。比国内同类型产品效率高出 3~9%，效率曲线平缓，增加了工作范围，节能效果显著。

对泵的部件进行模块化设计，提高产品的互换性，同时提高轴的刚度。

Selection of advanced hydraulic model, have high efficiency. Than the domestic type of product efficiency higher than 3 to 9%, the efficiency curve is gentle, increasing the scope of work, energy saving effect is remarkable.

The parts of pumps are designed to increase the interchangeability of the product while increasing the rigidity of the shaft.

泵壳使用铸件，无应力变形；外形结构美观。

导轴承配置丰富，材质可选铜、橡胶、高分子材料。针对不同的使用工况和温度范围，选择不同材质。避免间隙过大，产生振动，间隙过小，发生抱轴现象。

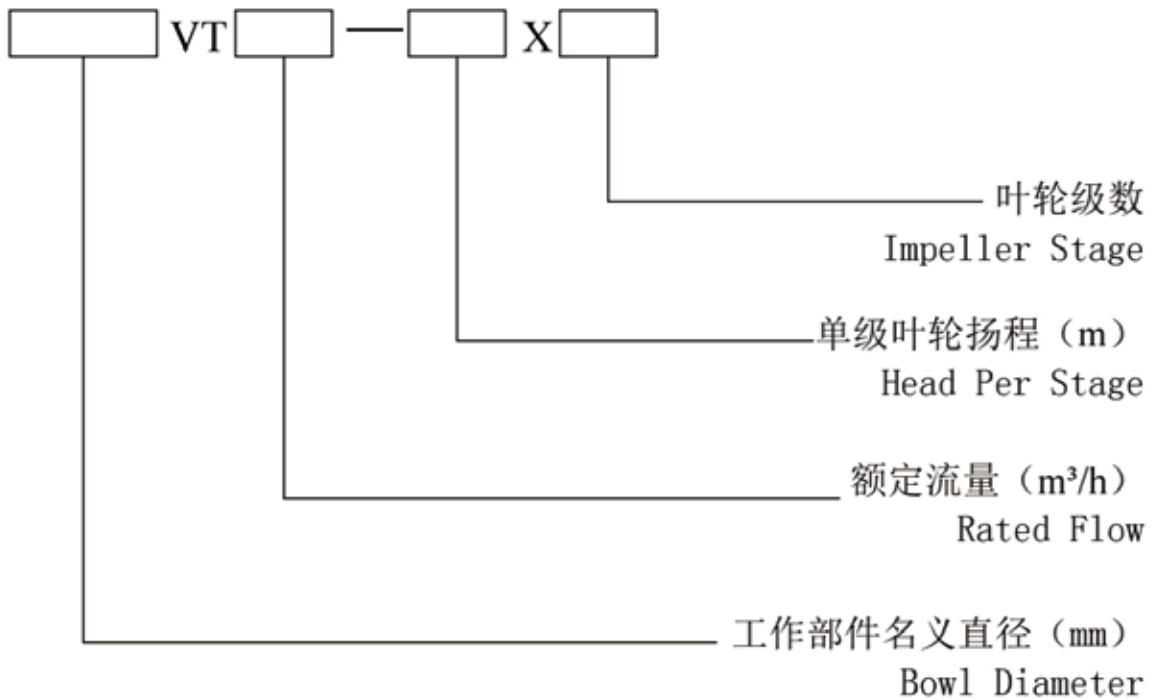
The pump casing are used castings, no stress deformation; shape beautiful structure.

Guide bearing configuration is rich, material optional copper, rubber, polymer materials. For different use conditions and temperature range, choose a different material.

To avoid the gap is too large, resulting in vibration, the gap is too small, the occurrence of things.



## ▼ 型号说明 Structural Characteristics



### 例如:

300VT160-11.5x4,  
长轴深井泵 VT 系列产品,  
工作部件名义直径为 300mm,  
流量 160m<sup>3</sup>/h, 4 级叶轮,  
出口扬程 46m。

### Example:

300VT160—11.5 × 4,  
VT series vertical turbine pump ,  
bowl diameter 300mm,  
rated flow 160m<sup>3</sup> / h, 4 stages impeller,  
head per stage is 46m.



## ▼主要材质表 Main Parts Material List

材质类别 material category	I	II	III	IV	V
用途 media	江河取水 rivers 农业用水 agriculture  工业用水 industry	城市给排水 city water drainage 工业排水 Industrial drainage (含少量固体颗粒) contains some solid particles	弱腐蚀性污水 corrosive sewage 工业污水处理 industry sewage  城市生活污水 urban sewage	海水 sea water	电厂 power plant
出水弯管 discharge elbow	HT250 gray iron 250	QT450-10 ductile iron 450-10	ZG1Cr18Ni9 cast stainless steel	高镍铸铁 high nickel cast iron	00Cr17Ni14Mo2 stainless steel
外管 external column	Q235-A carbon steel	Q235-A carbon steel	1Cr18Ni9 stainless steel	1Cr18Ni9 stainless steel	00Cr17Ni14Mo2 stainless steel
空间导叶 diffuser	HT250 gray iron 250	QT450-10 ductile iron 450-10	ZG1Cr18Ni9 cast stainless steel	ZG1Cr18Ni9 cast stainless steel	00Cr17Ni14Mo2 stainless steel
吸入喇叭 suction bellmouth	HT250 gray iron 250	QT450-10 ductile iron 450-10	ZG1Cr18Ni9 cast stainless steel	高镍铸铁 high nickel cast iron	00Cr17Ni14Mo2 stainless steel
叶轮 impeller	HT250 gray iron 250	ZG1Cr13 stainless acid resistant steel	ZG1Cr18Ni9 cast stainless steel	ZG1Cr18Ni9 cast stainless steel	00Cr17Ni14Mo2 stainless steel
轴 shaft	45 qualitative carbon steel	2Cr13 stainless steel	2Cr13 stainless steel	2Cr13 stainless steel	00Cr17Ni14Mo2 stainless steel
轴套 Shaft sleeve	1Cr18Ni9 stainless steel	1Cr18Ni9 stainless steel	1Cr18Ni9 stainless steel	1Cr18Ni9 stainless steel	00Cr17Ni14Mo2 stainless steel
护轴套管 Pile casing	Q235-A carbon steel	1Cr18Ni9 stainless steel	1Cr18Ni9 stainless steel	1Cr18Ni9 stainless steel	00Cr17Ni14Mo2 stainless steel
电机座 Motor support	HT250 gray iron 250	HT250 gray iron 250	HT250 gray iron 250	HT250 gray iron 250	HT250 gray iron 250

订货时请具体咨询厂家，根据实际工况选择合理的材质。

When ordering, please consult the manufacturers, according to the actual conditions to choose a reasonable material.

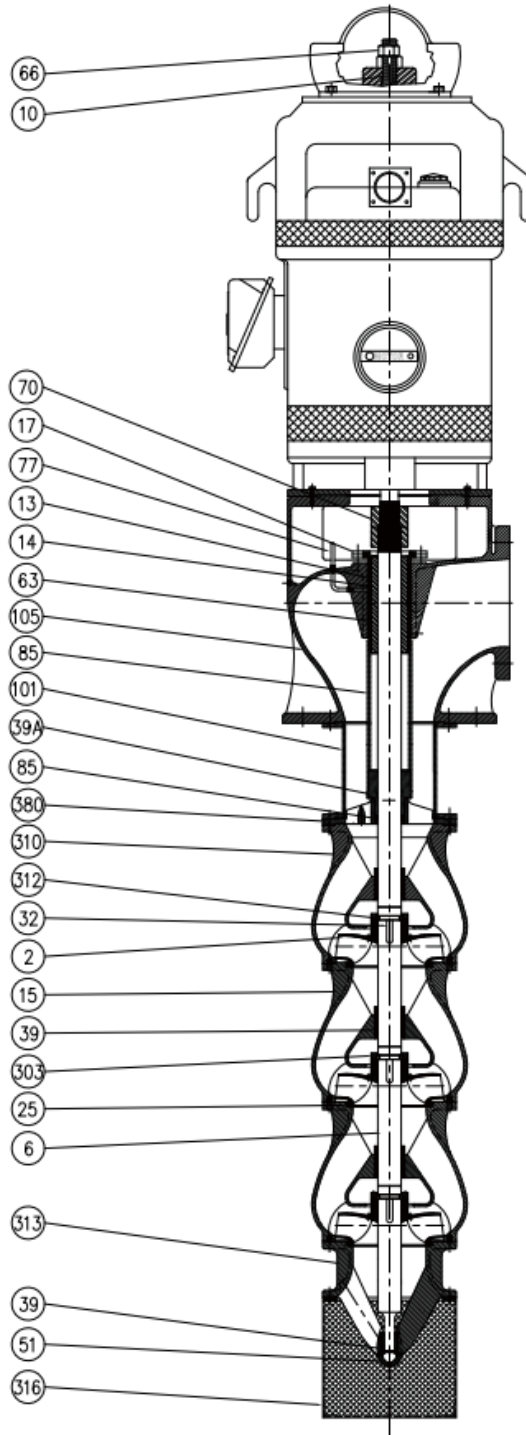
## ▼ 结构剖面图 Structure Section

NO.	PARTS LIST
2)	IMPELLER
6)	PUMP SHAFT
10)	HEAD SHAFT
13)	PACKING
14)	STUFFING BOX SLEEVE
15)	INTERMEDIATE DISCHARGE BOWL
17)	PACKING GLAND
25)	CASING WEAR RING
32)	IMPELLER KEY
39)	BOWL BEARING
39A)	GUIDE SPIDER BEARING
51)	SAND CAP
63)	STUFFING BOX BEARING
66)	IMPELLER ADJUSTING NUT
70)	THREADED SHAFT COUPLING
77)	LUBRICATOR TUBING
85)	COVER PIPE
89)	SEAL
101)	COLUMN PIPE
105)	DISCHARGE HEAD
303)	THRUST RING RETAINER
310)	TOP DISCHARGE BOWL
312)	SPLIT THRUST RING
313)	SUCTION BOWL
316)	STRAINER
380)	GUIDE SPIDER

NO.	零件列表
2)	叶轮
6)	泵轴
10)	泵轴
13)	填料
14)	填料盒套筒
15)	中壳
17)	填料压盖
25)	泵壳耐磨环
32)	叶轮键
39)	泵壳轴承
39A)	支撑轴承
51)	防砂帽
63)	填料盒轴承
66)	叶轮调整螺母
70)	螺纹轴联轴器
77)	润滑油管
85)	盖管
89)	密封
101)	柱水管
105)	出水压头
303)	止推环衬套
310)	出水壳
312)	中开泵轴衬环
313)	下壳
316)	过滤器
380)	叶轮支架

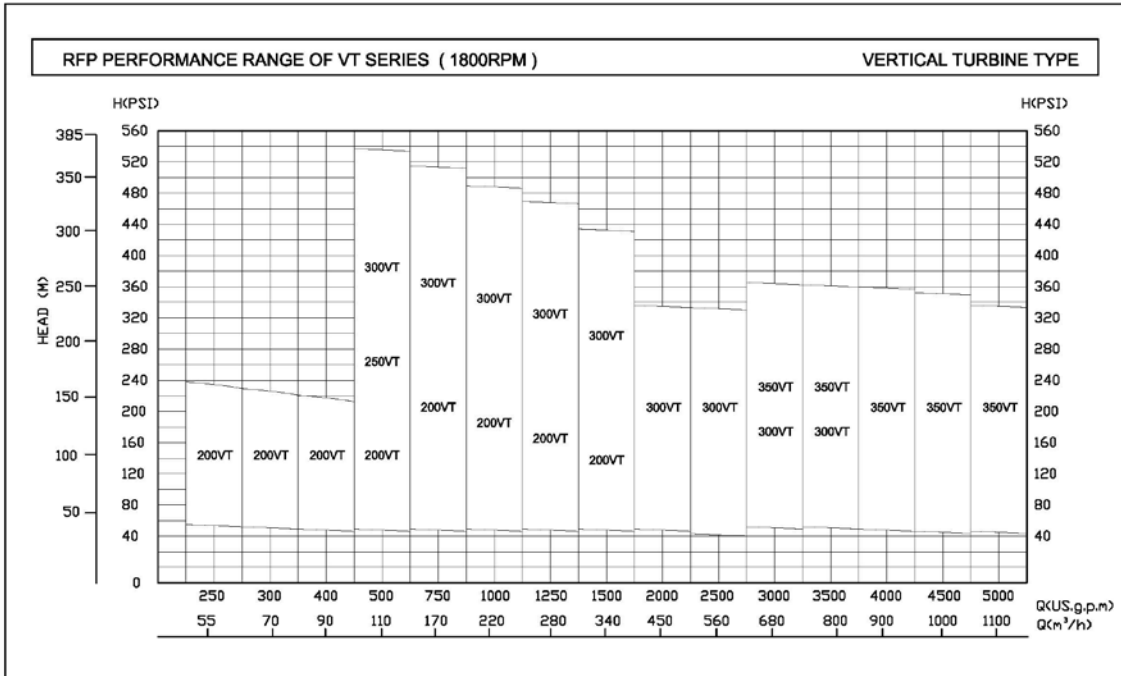
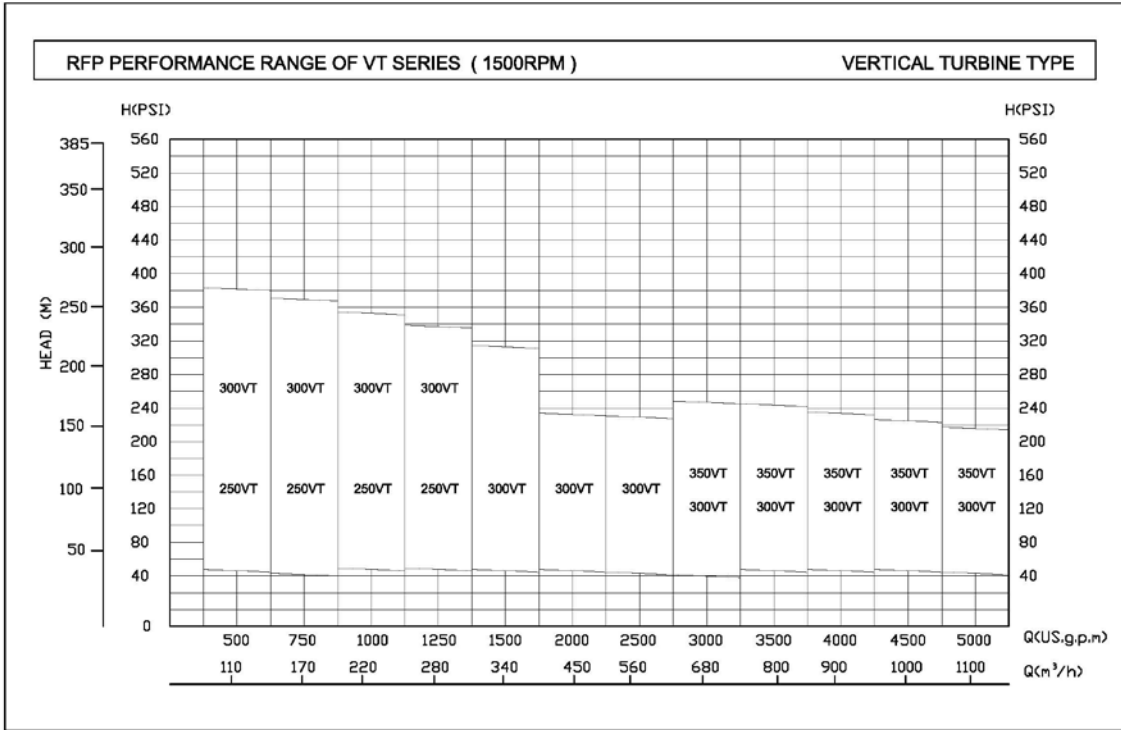
注：结构图仅供参考！

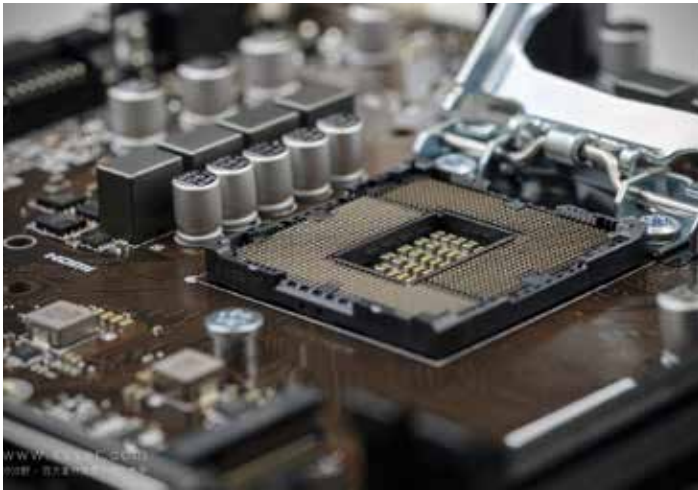
Note: the structure drawing is for reference only!





# ▼ 型谱图 Spectrum Diagram





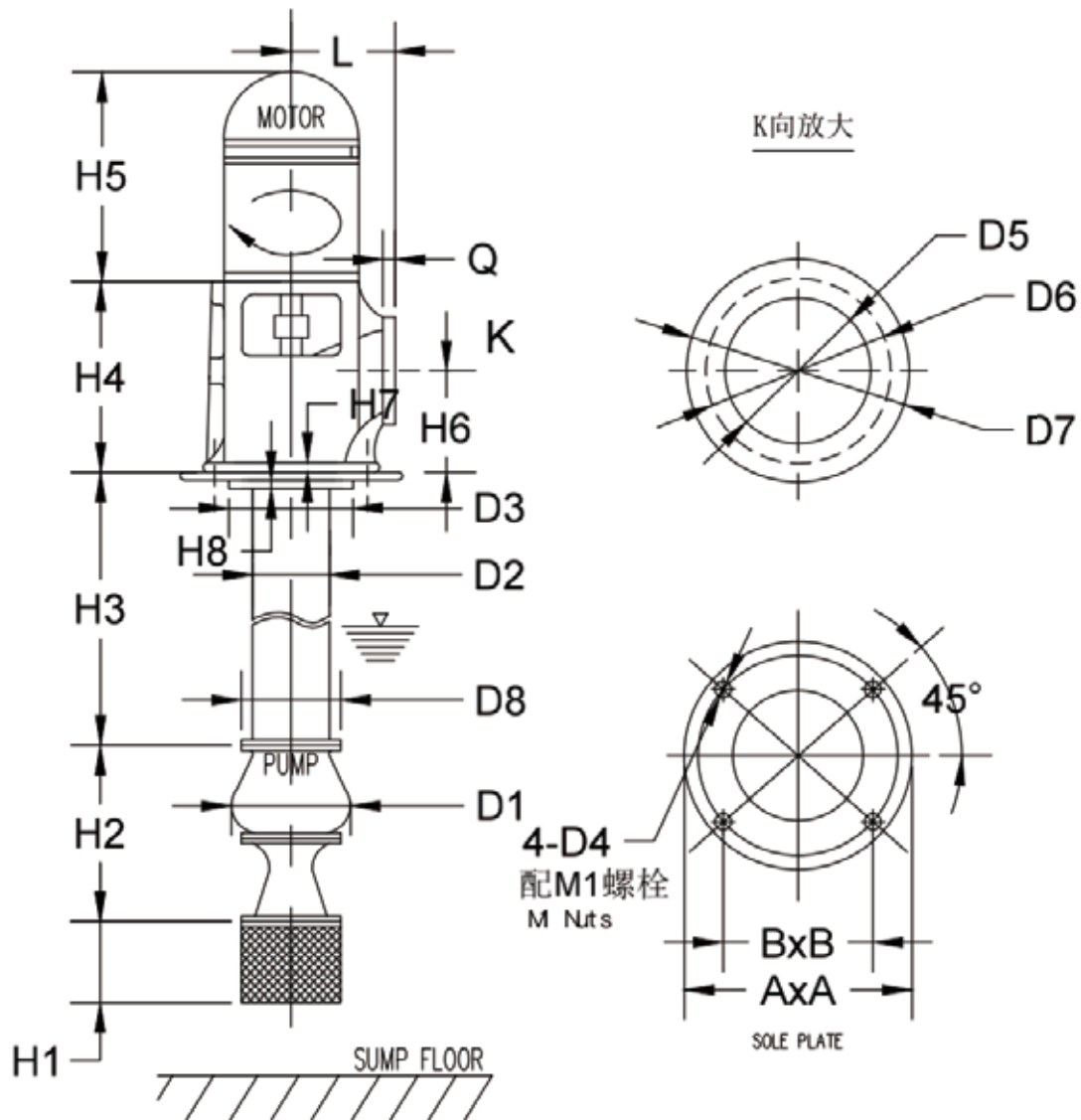




**VT 系列长轴深井泵**  
Vertical Turbine Pump



## ▼ 外形尺寸 Outline Dimension



### 说明:

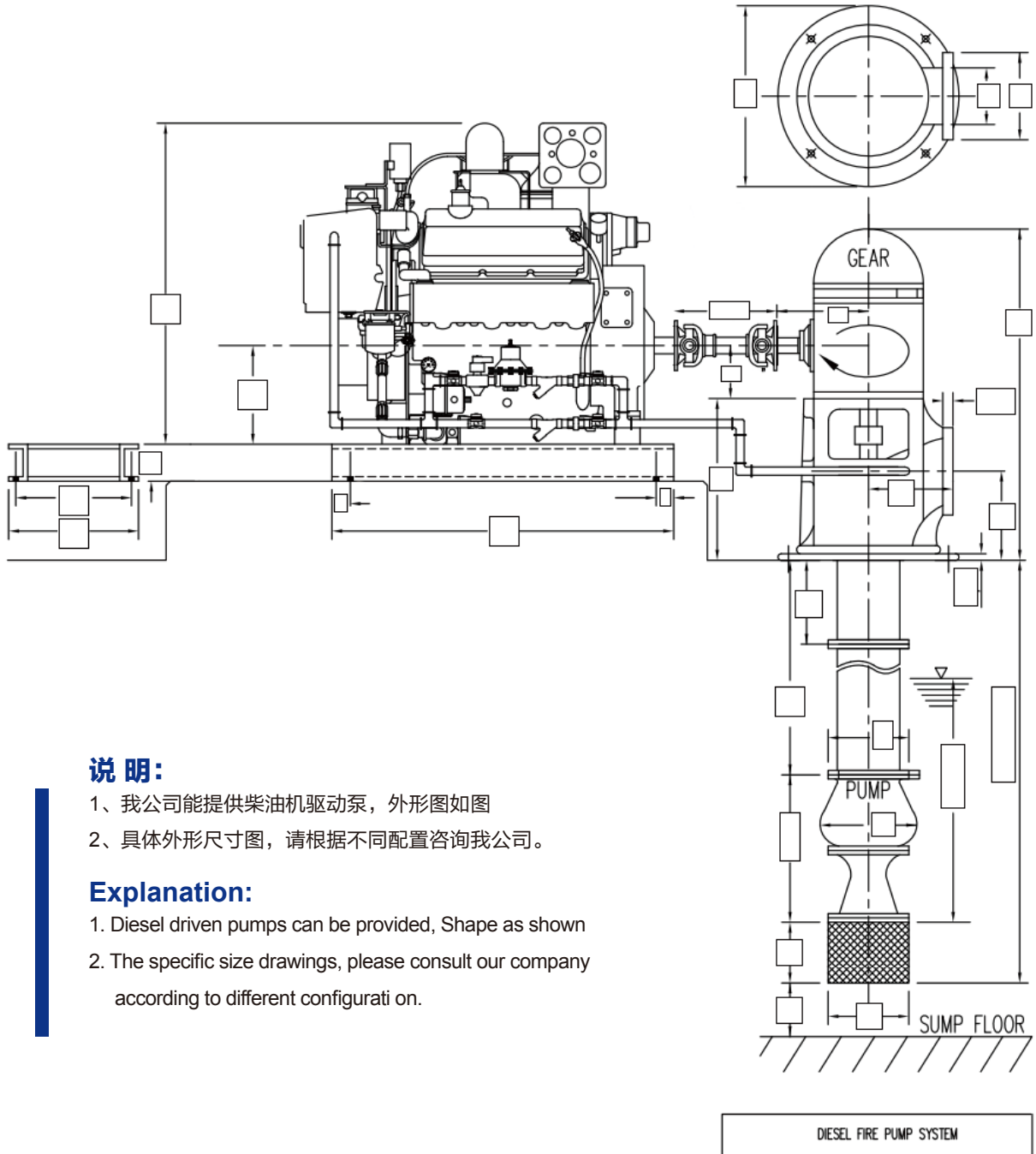
- 1、外形尺寸图标及初步设计专业、准确外形尺寸图请向厂家索取。
- 2、可提供柴油机驱动成套装备，具体请咨询厂家。

### Explanation:

1. Please ask the manufacturer for the outline dimensional icon and preliminary design of professional and accurate dimensional drawings.
2. Complete sets of Diesel Engine-driven equipment are provided. Please ask manufacturer for details.



## ▼ 外形尺寸 Outline Dimension



### 说明:

- 1、我公司能提供柴油机驱动泵，外形图如图
- 2、具体外形尺寸图，请根据不同配置咨询我公司。

### Explanation:

1. Diesel driven pumps can be provided, Shape as shown
2. The specific size drawings, please consult our company according to different configurations.

# 主要技术参数及安装尺寸一览表

## Main Technical Parameter And Installation Dimension Table

泵型号 Pump Model	叶轮数 总数量	转速 Speed	功率 Power 千瓦	A	B	D1	D2	D3	D4	D5	D6	D7	D8	H1	H2	H3	H4	H5	H6	H7	H8	L	M1	M2	n	Q	α	基础尺寸 Foundation Dimensions			
																												A1	A2	A3	A4
150VT10-9	12	2940	5.5-5.7	355	251	150	89	190	19	102	186	228	147	306	460		343	573	127	14	16	228	M16*	M12	6	19.3	30°	260	610	710	200
			11-15	508	382	280	280	90	102	186	228	147	200	245		+	394	807	172	25.4	20	305	300	M16	8	25	22.5°	380	760	860	260
150VT20-9	6	2940	5.5-5.7	355	251	150	89	280	19	155	235	280	147	200	245		343	573	127	14	16	228	M16*	M12	6	19.3	30°	260	610	710	200
			11-15	508	382	280	280	19	155	235	280	147	200	245		+	394	807	172	25.4	20	305	300	M16	8	25	22.5°	380	760	860	260
150VT30-9.5	6	2940	5.5-5.7	355	251	150	89	190	19	102	186	228	147	200	245		343	573	127	14	16	228	M16*	M12	6	19.3	30°	260	610	710	200
			11-15	508	382	280	280	19	155	235	280	147	200	245		+	394	807	172	25.4	20	305	300	M16	8	25	22.5°	380	760	860	260
150VT30-12.5	6	2940	5.5-5.7	355	251	150	89	190	19	no dimension							343	573	127	14	16	228	M16*	M12	6	19.3	30°	260	610	710	200
			11-15	508	382	280	280	19	155	235	280	147	200	245		+	394	807	172	25.4	20	305	300	M16	8	25	22.5°	380	760	860	260
150VT45-8.5	6	2940	5.5-5.7	355	251	150	89	190	19	102	186	228	147	200	250		343	573	127	14	16	228	M16*	M12	6	19.3	30°	260	610	710	200
			11-15	508	382	280	280	19	155	235	280	147	200	245		+	394	807	172	25.4	20	305	300	M16	8	25	22.5°	380	760	860	260
150VT30-12.5	8	2940	11-15	508	382	150	114	280	19	155	235	280	190	200	257.3		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
150VT150-13	8	2940	11-15	508	382	150	114	280	19	155	235	280	190	200	257.3		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
200VT60-20	9	2940	11-15	508	382	181	159	280	19	155	235	280	245	365	311.5		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
200VT80-22.5	9	2940	11-15	508	382	181	159	280	19	155	235	280	245	365	311.5		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
200VT100-6.5	9	2940	11-15	508	382	181	159	280	19	155	235	280	245	365	326.8		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
200VT130-14	9	2940	11-15	508	382	181	159	280	19	155	235	280	245	365	326.8		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
200VT190-20	10	2940	11-15	508	382	181	159	280	19	155	235	280	245	426	324		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
200VT125-18	10	2940	11-15	508	382	181	159	280	19	155	235	280	245	426	324		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													
250VT60-7	10	1475	11-15	508	382	228	159	280	19	155	235	280	246	360	438.2		394	807	172	25.4	20	305	M16*	M16	8	25	22.5°	380	760	860	260
			18.5-22	508	382	280	280	19	155	235	280	147	200	245		+	454	955													

根据  
下井  
深度  
调整





# 主要技术参数及安装尺寸一览表

## Main Technical Parameter And Installation Dimension Table

泵型号 Pump Model	叶轮数 Impeller	转速 Speed	功率 Power	A	B	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	L	M1	M2	n	Q	α	基础尺寸 Foundation Dimensions						
				185	315	400	450	500	560	630	710	800	850	900	950	1000	1100	1150	1200	1250	1300	1350	1400	1450	1500	1600	1700	1800	1900	2000	2100	2200	A1	A2	A3	A4
350VT1370-16	12	1475	30-45	560	408	346	219	405	19	257	350	395	310	479	556		479	556	405	479	245	40	25.4	355	M16*300	M20	12	28	15°	500	1000	1140	260			
			55-90	560	408	346	219	405	19	257	350	395	310	479	556		479	556	405	479	245	40	25.4	355	M16*300	M20	12	28	15°	500	1000	1140	260			
			110-132	560	408	346	219	405	19	257	350	395	310	479	556		479	556	405	479	245	40	25.4	355	M16*300	M20	12	28	15°	500	1000	1140	260			
350VT1400-18	12	1475	30-45	560	408	346	219	405	19	257	350	395	310	479	556		479	556	405	479	245	40	25.4	355	M16*300	M20	12	28	15°	500	1000	1140	260			
			55-90	560	408	346	219	405	19	257	350	395	310	479	556		479	556	405	479	245	40	25.4	355	M16*300	M20	12	28	15°	500	1000	1140	260			
			110-132	560	408	346	219	405	19	257	350	395	310	479	556		479	556	405	479	245	40	25.4	355	M16*300	M20	12	28	15°	500	1000	1140	260			
400VT1450-20	22	1475	30-45	630	408	346	219	405	19	257	350	395	410	427	615.6		427	615.6	410	427	245	40	28	500	M24*100	M24	12	28	15°							
			55-90	630	408	346	219	405	19	257	350	395	410	427	615.6		427	615.6	410	427	245	40	28	500	M24*100	M24	12	28	15°							
			110-150	630	408	346	219	405	19	257	350	395	410	427	615.6		427	615.6	410	427	245	40	28	500	M24*100	M24	12	28	15°							
400VT1550-27	20	1475	185	600	650	430	325	410	28	250	355	405	410	427	661		427	661	410	427	245	40	28	500	M24*100	M24	12	28	15°							
			225	600	650	430	325	410	28	250	355	405	410	427	661		427	661	410	427	245	40	28	500	M24*100	M24	12	28	15°							
			280	1050	940	46	300	400	445	46	300	400	445	46	300	400	445	731		495	500	395	40	26	€10	M12*630	M27	20	42	9°						
450VT1900-30	20	1475	110																																	
			225																																	
			315	1050	940	520	402	495	46	400																										
500VT1250-30	17	1475	400																																	
			450																																	
			560*																																	
500VT1650-27	22	1475	185	1050	940	670	450	€15	46	457	565	€15	615	500	858		500	858	€15	615	500	40	30	€10	M12*630	M24	20	30	11.25°							
			355	1050	940	670	450	€15	46	457	565	€15	615	500	858		500	858	€15	615	500	40	30	€10	M12*630	M24	20	30	9°							
			200	1050	940	670	450	€15	46	457	565	€15	615	500	858		500	858	€15	615	500	40	30	€10	M12*630	M24	20	30	9°							
500VT2000-31	22	1475	260	1050	940	670	450	€15	46	457	565	€15	615	500	858		500	858	€15	615	500	40	30	€10	M12*630	M24	20	30	9°							
			500*	1050	940	670	450	€15	46	457	565	€15	615	500	858		500	858	€15	615	500	40	30	€10	M12*630	M24	20	30	9°							
			no dimension																																	

### 注:

功率带“\*”的电机采用高压（6KV或10KV）电机。“m”表示级数。

产品不断更新，涉及尺寸更改将不向客户发更改通知，详情请咨询瑞迪巴夫当地办事处。

## ▼ 我们的客户 Company Achievements









