



Atlas Equipment SA (Pty) Ltd.

Slurry pumping solutions

Service Industrial Segments:

Mining, Power Plant, Coal, Metallurgy, Chemical

Technical Offer

To:

Supplier: Atlas Equipment SA (Pty) Ltd

Equipment: High Vacuum Self-priming Dewatering pump Unit

Issued date: 18 July, 2025



HPT series high vacuum self-priming dewatering pump unit (four-wheel trailer type), can be selected according to the specific requirements of the place of use, head, flow and conveying liquid. The flow rate of the conveyed liquid is 800m³/h, the head is 50m, and the diesel engine speed range is 1500rpm.

Product features: easy to operate, highly maneuverable, equipped with a vacuum auxiliary system, not require water filling, can meet all-weather use conditions.

1. Standard scope of supply

No.	Description	Qty	Remark
1	Diesel engine	1set	Cummins
2	Self-Priming Diesel Driven Pump	1set	
3	Base	1set	200*200*4.5
4	Coupling	1set	
5	Oil tank	1pcs	400L
6	Maintenance-free battery	2pcs	12V-100Ah
7	Double axle four wheel mobile trailer	1set	Vacuum high-speed tires, spring steel plate shock absorption, hand brake, electric brake, trailer speed limit 80 km
8	BAUER Coupling	1set	DN200mm
9	Dichotomanthes tube	2pcs	DN200mm 6m
10	PVC Blast-resistant water hose	2roll	DN200mm 20m/roll
11	Water filter	2pcs	DN200
12	Diesel control system	1set	Intelligent LCD controller, with large screen LCD graphic display, digital display of engine running status, fault alarm, etc.
13	High vacuum system	1set	Air capacity 50m ³ /h

14	Automatic steam-water separation system	1set	Separate steam and water to ensure that no water enters the vacuum system.
15	Toolbox	1set	Instructions, certificates, test reports, operating manuals, warranty manuals , operating tools

2. Technical data sheet:

Pump unit Data	
Model:	HPT800
Inlet and outlet diameter:	DN300mm change to 2xDN200mm BAUER Coupling
Flow rate:	800 m ³ /h
Head:	50m
Efficiency:	75%
Particle:	55mm
Engine Power:	183KW
Inlet direction:	Axial middle water inlet
Outlet direction:	Horizontal upward side water outlet
Connect method:	BAUER Coupling
Pump type:	Centrifugal、vacuum
Altitude requirement:	1000m
Seal type:	Mechanical seal
Oil tank volume:	300L
Base:	200*200*5.5
Battery capacity:	12V-100Ah*2pcs
Casing material:	Ductile Iron QT400
Impeller material:	Ductile Iron QT400

Shaft material:	2Cr13
Drive arrangement:	DC
Bearing brand:	HRB
Pump unit dimension:	2860x1750x2150 (mm)
Pump unit weight:	2500kg

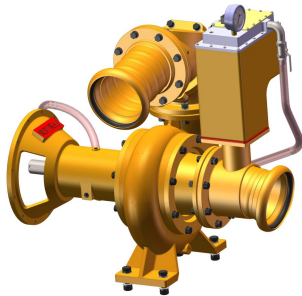
3. Vacuum dewatering pump technical data:

No.	Specification	Technical data	Remark
1	Model	HPT800	
2	Flow rate	800 m ³ /h	
3	Head	50 m	
4	Inlet/Outlet dia.	300 mm	
5	Efficiency	75 %	
6	Shaft power	155kW	
7	Temperature	62°C	
8	Pressure	1.6 MPa	
9	NPSH	4.5 m (NPSH) r	
10	Particle	55 mm	
11	Impeller type	Closed	
12	Seal method	Mechanical seal	
13	Inlet connector qty	DN200mm BAUER Coupling 2pcs	
14	Outlet connector qty	DN200mm BAUER Coupling 2pcs	

Introduction of vacuum self-priming diesel driven pump:

HPT vacuum self-priming diesel driven pump is used for municipal sewage and flood emergency drainage, as well as various types of wastewater classification and centralized treatment systems. It is known as the "king of self-priming sewage pumps" and is the most ideal new generation of self-priming sewage pump products. Stable performance, reliable use; fast self-priming, high suction; easy maintenance and troubleshooting of the rear pull-out structure, only ordinary tools are needed to quickly complete daily maintenance, saving time and effort; semi-open impeller structure, non-clogging design, strong passing capacity;

Use direct drive steel sheet coupling to connect with the flywheel of the diesel engine, high concentricity, large radial compensation, reduce the vibration value of the whole machine, standardized interface saves the trouble of adjusting concentricity, and is more convenient to operate. The vacuum self-priming device consists of three major parts: steam-water separator, water outlet automatic valve, and oil ring vacuum pump. When in use, only one button is needed to start the pump and it can be put into drainage operation.




Diesel engine technical data:

Diesel engine technical data	
Model:	6BTAA8.3-P250
Brand:	Cummins
Diesel cylinders:	L-6 Six Cylinder In-Line、 water cooling
circulate:	four-stroke、 Direct Injection
Cooling method:	Cooling water circulation
Cylinders diameter:	108mm
stroke :	125mm
Compression Ratio:	17.5:1
variable speed:	1500rpm
Diesel power:	183kW
fuel system:	electric
starting motor:	DC24V
AC generator:	AC24V
Oil type:	No.0
fuel consumption:	32L/h

Control system:	mechanical type
cylinder liner:	Dry
Rotation Direction of Crankshaft:	anticlockwise
engine displacement:	8.31L
Noise:	98DBA
Oil pump type:	mechanical pump
engine oil:	Mobil CD15W-40
Dimension:	1550*830*1360 (mm)
Weight:	850kg
overload capacity:	115%
speed range:	1000-1500
first class maintenance:	filter、oil filter、lubrication

4. Intelligent diesel engine control cabinet:

Pump unit control system	
Control system model	HGM4000
Performance features	
<p>HGM4000: The control system is mainly used to control the manual and automatic control of the diesel engine pump unit. It integrates digitalization, intelligence, and networking. It can be used for the start and stop control of the diesel engine mobile pump truck, real-time monitoring and data measurement, alarm protection, and remote monitoring and sending fault signals to the downloaded mobile phone APP system when the engine deviates from the set value or fails. The operator can remotely monitor in real time.</p>	

<ul style="list-style-type: none"> ●With microprocessor as the core, advanced technology is applied, equipped with "three remote" functions, stable performance and reliable operation 	 <p style="text-align: center;">HGM4000</p>
<ul style="list-style-type: none"> ●Realize the precise measurement and display of the operating parameters of the diesel engine pump 	
<ul style="list-style-type: none"> ●LED indication of operating status and configurable input fault point, large LCD display of various measurement parameters and alarms 	
<ul style="list-style-type: none"> ●Extremely wide DC operating power input (8-35V) 	
<ul style="list-style-type: none"> ●Optional manual and automatic (remote control) working modes 	
<ul style="list-style-type: none"> ●With multiple control and protection functions, multiple pressure and temperature display units 	
<ul style="list-style-type: none"> ●With real-time calendar, clock and running time accumulation function 	

5. Accessories:

Name	Qty	Specification	Material	Unit weight
DN200 Inlet pipe	2	6m/pcs	Dichotomanthes tube	About 79kg
DN200 Outlet pipe	2	20m/roll	PVC Blast-resistant water hose	About 25kg
BAUER Coupling	4	DN200	Carbon steel,550℃ galvanized surface	About 10kg
Filter	2	DN200	Cold rolled galvanized steel Stainless steel filter	5kg Maximum mesh size of filter 25mm
Clamp	8	DN200	Cold rolled galvanized steel	About 0.1kg
toolbox	1	20*35cm	plastic	About 1kg

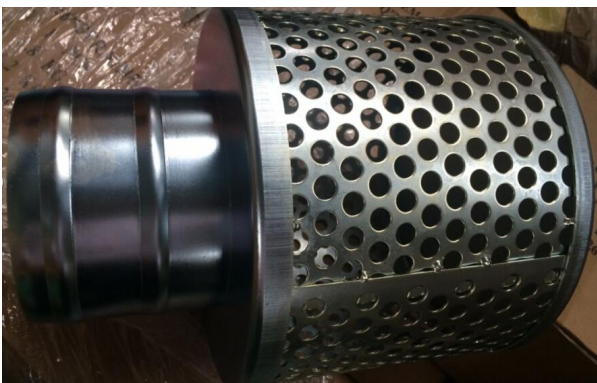
BAUER Coupling:



Clamp:



Water filter faucet



Dichotomanthestube



Hose



6. Self-priming diesel driven pump unit picture:





ATLAS EQUIPMENT SA (PTY) LTD



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Company Profile

Atlas Equipment SA Pty Ltd, is a sub-branch of TIIEC Group. The company is a Chinese mining equipment manufacturing and service group which possesses a complete R&D team, intellectual property rights for all its designs and products with brands TIIEC® and Indux®. The company always adheres to technological innovation and quality first, and is committed to providing customers with efficient and reliable pump products and solutions.

As a leader in the industry, the company has developed a series of patented high vacuum mobile pump trucks, which are highly favored by the market for their excellent performance and practicality. The product has significant advantages such as easy mobility, simple operation, high suction capacity, durability, and energy saving. It is widely used in municipal pipeline dredging, construction site sewage discharge, underground garage drainage, farmland drought resistance, mining pumping, and flood rescue.

Adhering to the corporate philosophy of "quality builds brand, innovation drives future", Atlas Equipment SA Pty Ltd will continue to work hand in hand with customers to create a better future with excellent technical strength and thoughtful service.

High Vacuum Self-priming Drainage Trailer Pump

MODEL# M4

This trailer-mounted diesel engine pump truck is an efficient and portable emergency drainage device, featuring a compact design for easy towing and mobility, allowing single-person transportation and operation to significantly enhance flexibility.



*Typical Deployment Photo. Photos for general guidance. Contact us for further details.

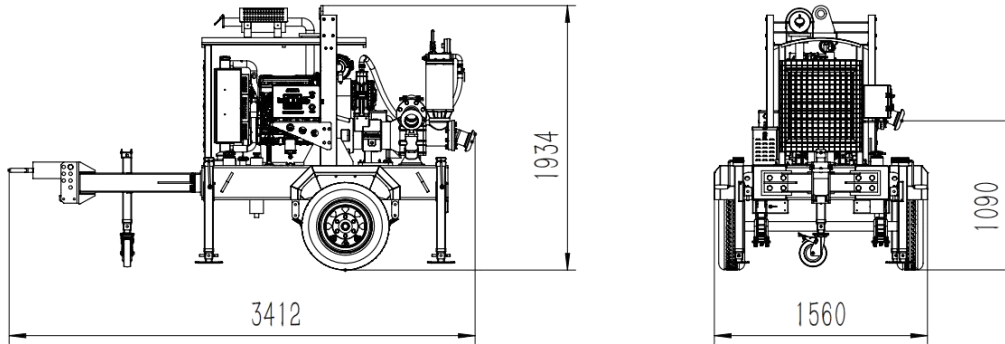
TECHNICAL SPECS

Our high vacuum system has patent certification. High-performance Oil-circulated Vacuum System with a maximum vacuum of -0.099MPa and $100\text{ m}^3/\text{h}$ exhaust capacity. Built-in cooling system ensures stable operation without oil overheating. The air-water separator prevents water from entering the oil tank, maintaining efficiency.

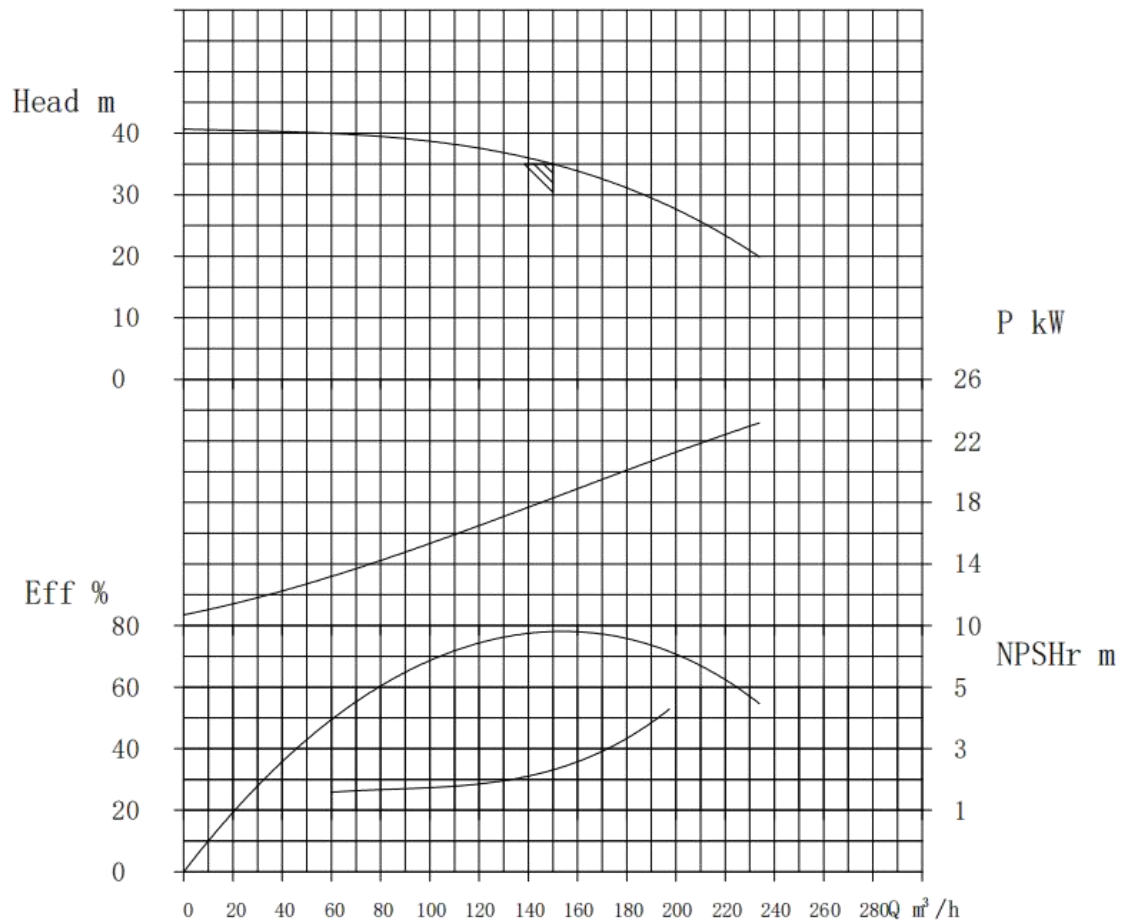
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, opentype
Max flow	$200\text{ m}^3/\text{h}$
Max Head	50m
Suction height	9m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>20\text{kw}$
Speed	1500~2000rpm
Cooling method	Water cooled
Pump parameters	
Inlet	4 inch
Outlet	4 inch
Speed	1800rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	45mm
Accessories for option	
Suction pipe, hose, quickconnections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M4-150

Powered by a durable diesel engine, it supports continuous dry running to eliminate unexpected downtime risks. Integrated with a high-performance vacuum pump, it achieves a suction height exceeding 9 meters, expanding operational coverage.



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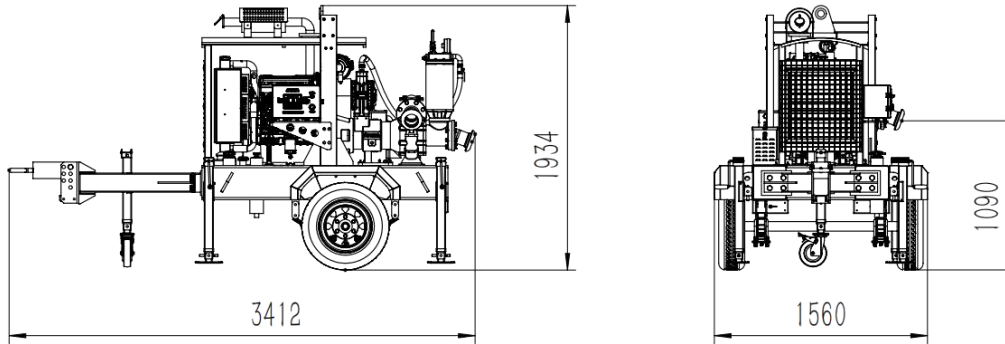
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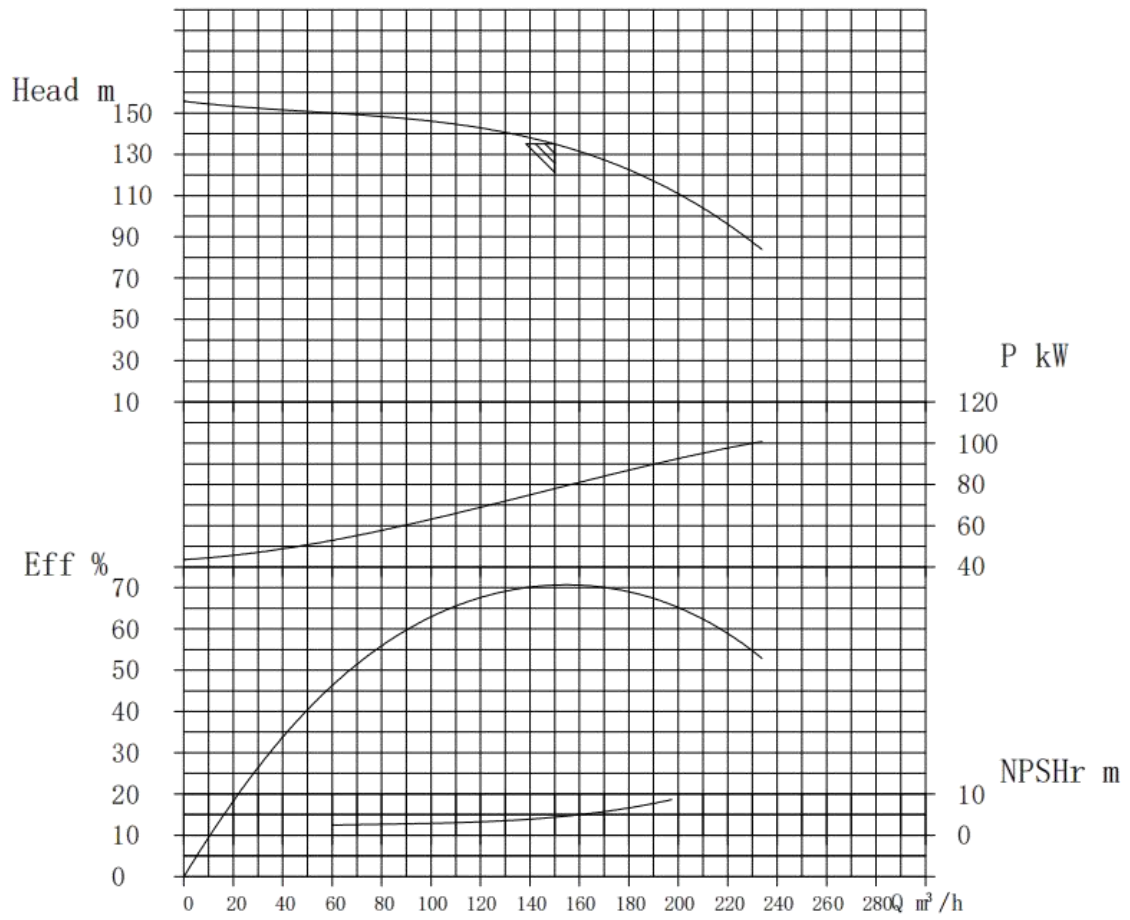
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, opentype
Max flow	$200\text{ m}^3/\text{h}$
Max Head	150m
Suction height	9m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>80\text{kw}$
Speed	2000~2900rpm
Cooling method	Water cooled
Pump parameters	
Inlet	4 inch
Outlet	4 inch
Speed	2000~2900rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	45mm
Accessories for option	
Suction pipe, hose, quickconnections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M6

This diesel-powered pump enables one-touch drainage startup and features a large-particle-proof impeller, ideal for sewage and municipal tasks. Its self-priming design eliminates water priming and supports 2+ hours of dry running. The high-efficiency vacuum system ensures rapid pumping with a 9m max suction height.



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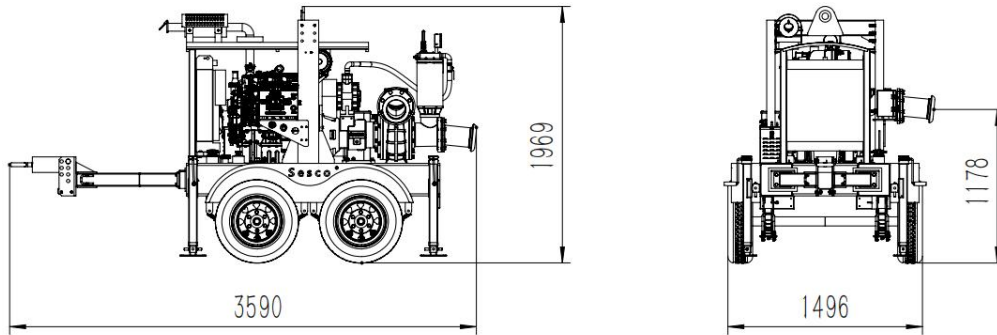
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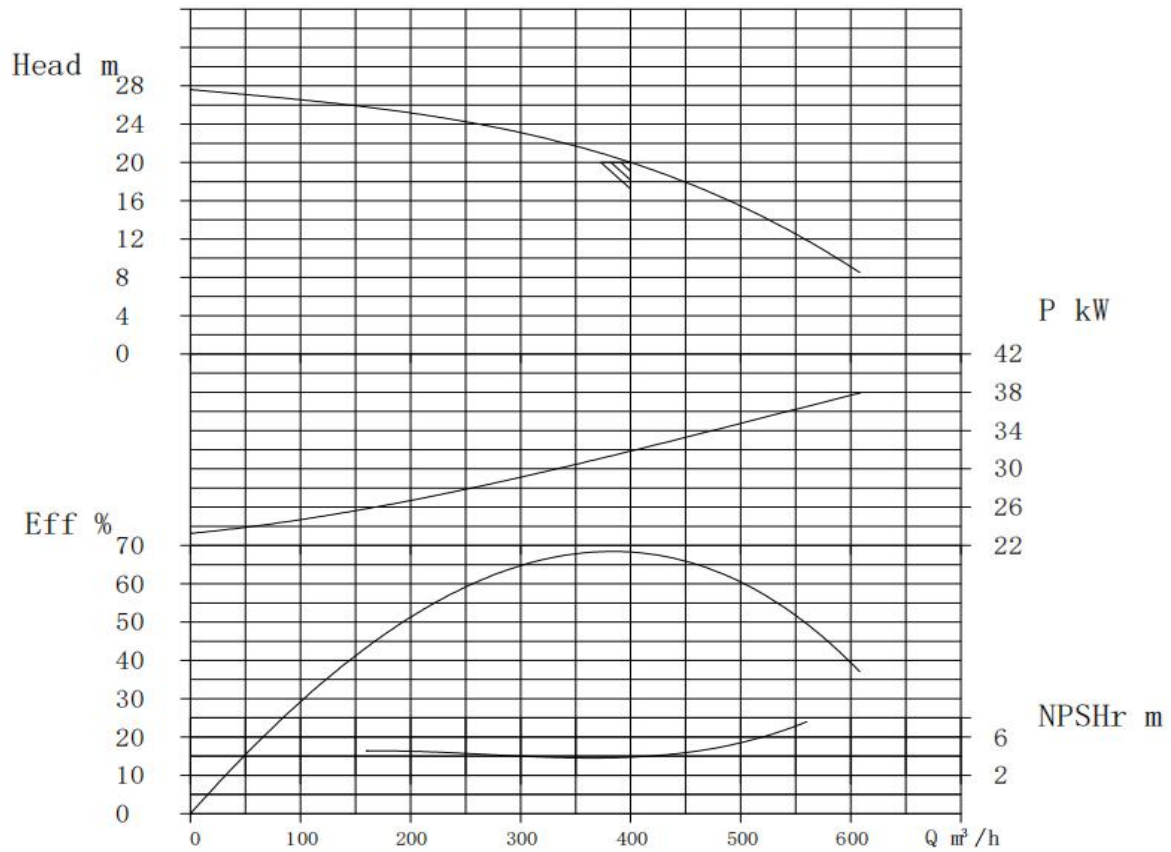
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	$500\text{ m}^3/\text{h}$
Max Head	44m
Suction height	9m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>36\text{kw}$
Speed	1500~2000rpm
Cooling method	Water cooled or air cooled
Pump parameters	
Inlet	6 inch
Outlet	6 inch
Speed	1500~2000rpm
Pump case	Cast iron
Impeller	Stainless steel SS304
Shaft	Stainless steel 20Cr13
Max particle size:	76mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M6-220

Designed specifically for efficient and reliable drainage needs, it is widely used in various scenarios such as municipal drainage, flood prevention and rescue, and sewage treatment. The product adopts a high-quality diesel engine with powerful output, which can immediately achieve rapid drainage, significantly improving work efficiency.



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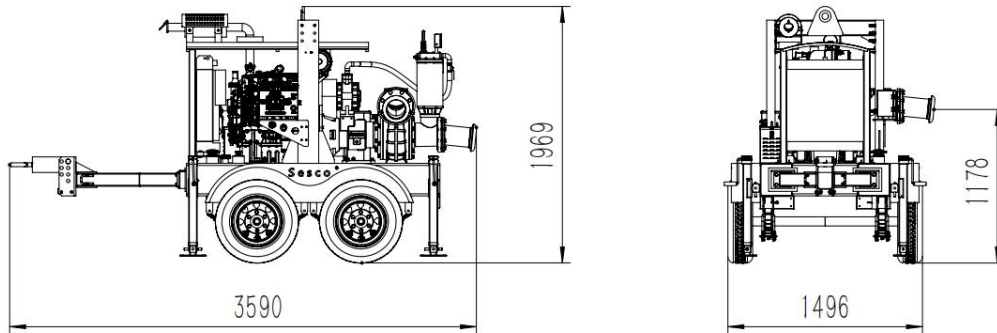
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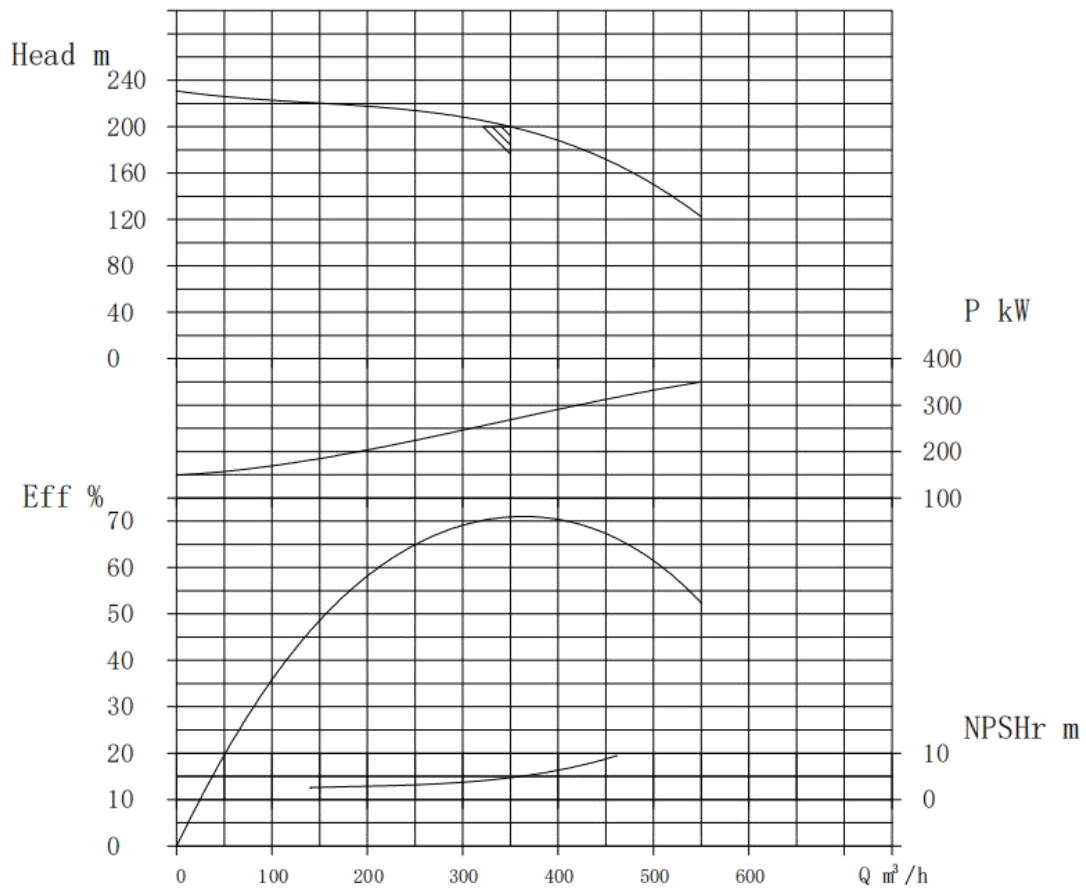
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	$500\text{ m}^3/\text{h}$
Max Head	220m
Suction height	9m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>270\text{kw}$
Speed	2200rpm
Cooling method	Water cooled or air cooled
Pump parameters	
Inlet	6 inch
Outlet	6 inch
Speed	2200rpm
Pump case	Cast iron
Impeller	Stainless steel SS304
Shaft	Stainless steel 20Cr13
Max particle size:	76mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M8

The specially designed impeller allows smooth passage of large particles, ensuring powerful and worry-free sewage discharge. Its wide operating speed range (1500-2000 rpm) ensures stable performance under various conditions, with a maximum drainage capacity of 800 m³/h, leading in efficiency.



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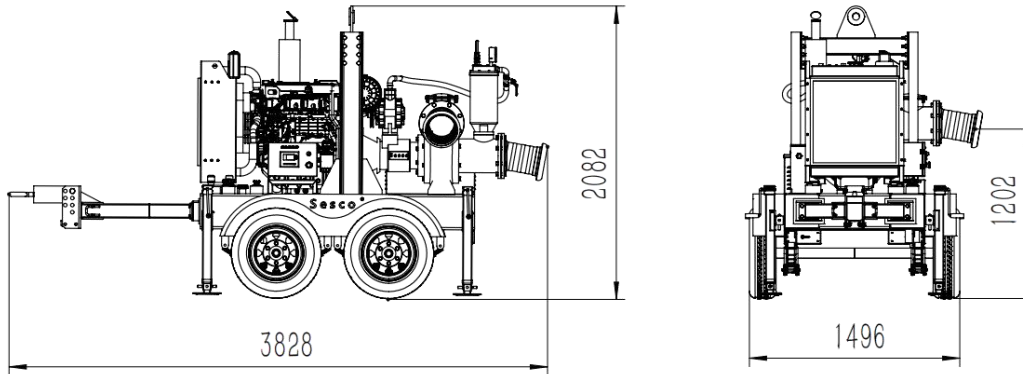
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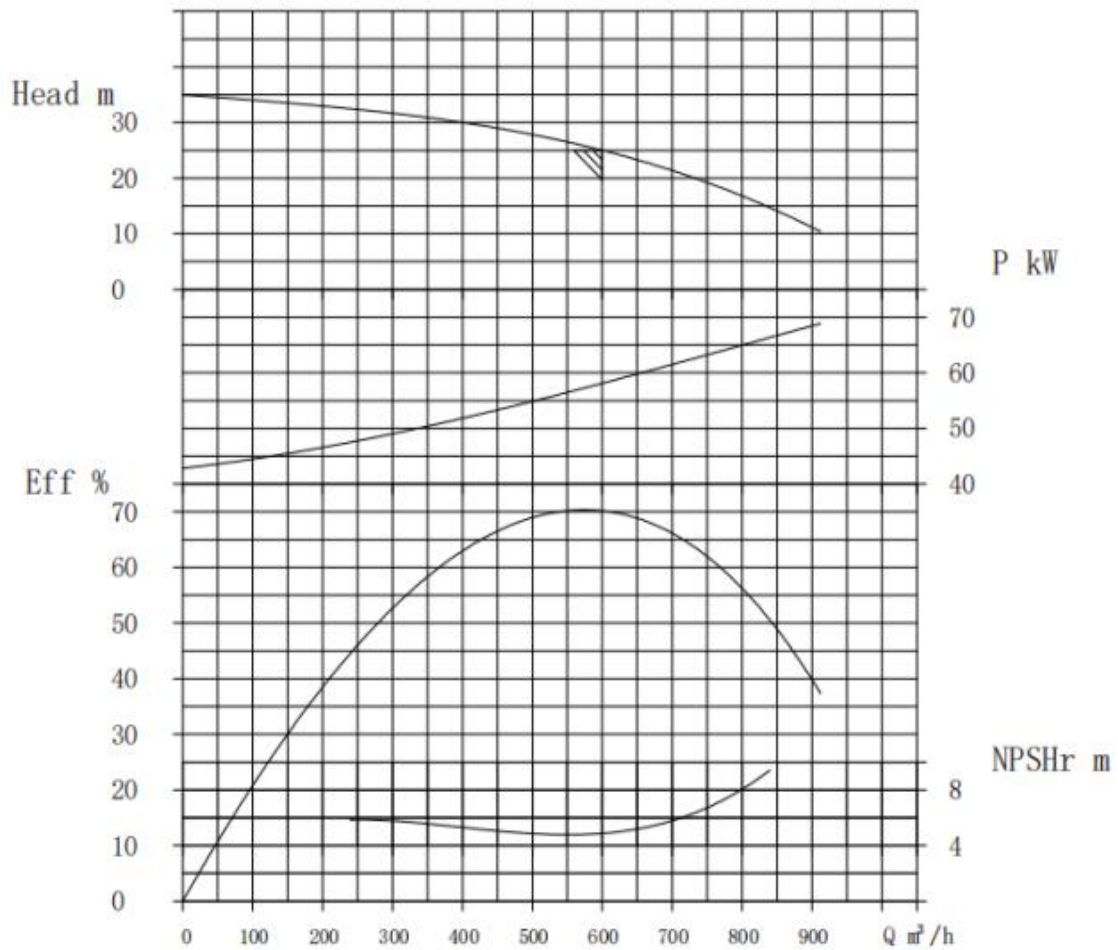
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	800 m ³ /h
Max head	45m
Suction height	>8.5m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	>45kw
Speed	1500~2000rpm
Cooling method	Air cooled or water cooled
Pump parameters	
Inlet	8 inch
Outlet	8 inch
Speed	1500~1800rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	76mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M8-200

This diesel engine water pump is designed for high-efficiency drainage. No manual priming is required—simply start the diesel engine with one button to begin operation. It is easy to use and can run dry for over 2 hours, high head to cope with more drainage situations.



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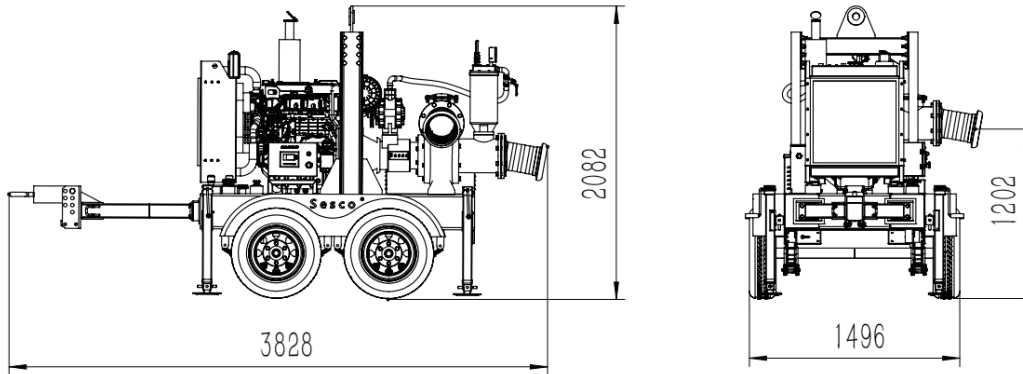
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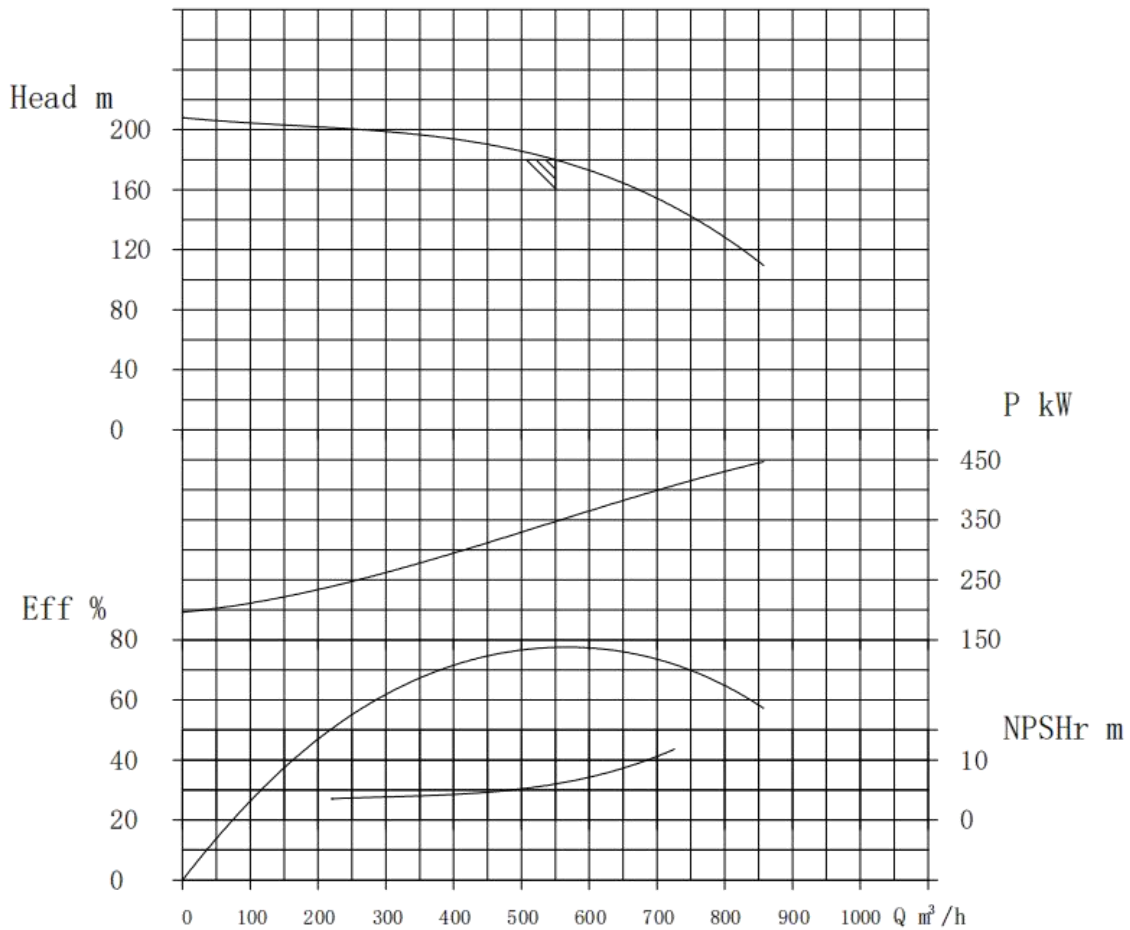
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	$800\text{ m}^3/\text{h}$
Max head	200m
Suction height	$>8.5\text{m}$
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>380\text{kW}$
Speed	2200rpm
Cooling method	Air cooled or water cooled
Pump parameters	
Inlet	8 inch
Outlet	8 inch
Speed	2200rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	76mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M10

The intelligent control system provides real-time engine protection, supporting remote monitoring and start/stop control, making drainage operations smarter and more convenient. The integrated trailer-mounted fuel tank design makes the equipment more compact and lightweight.



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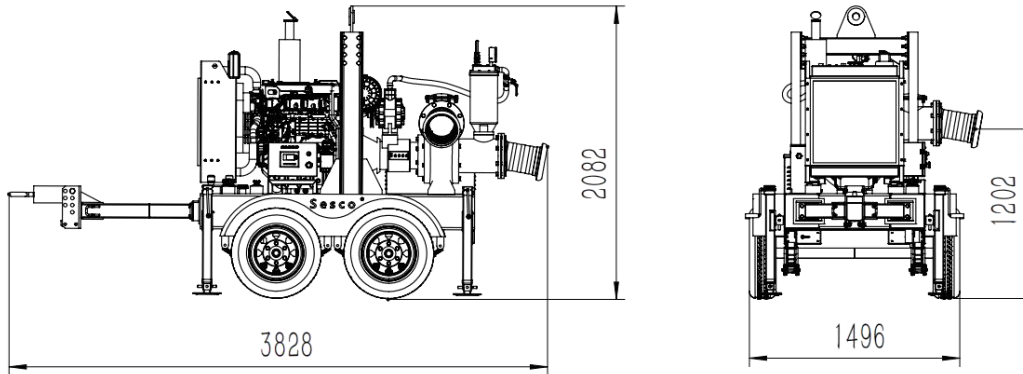
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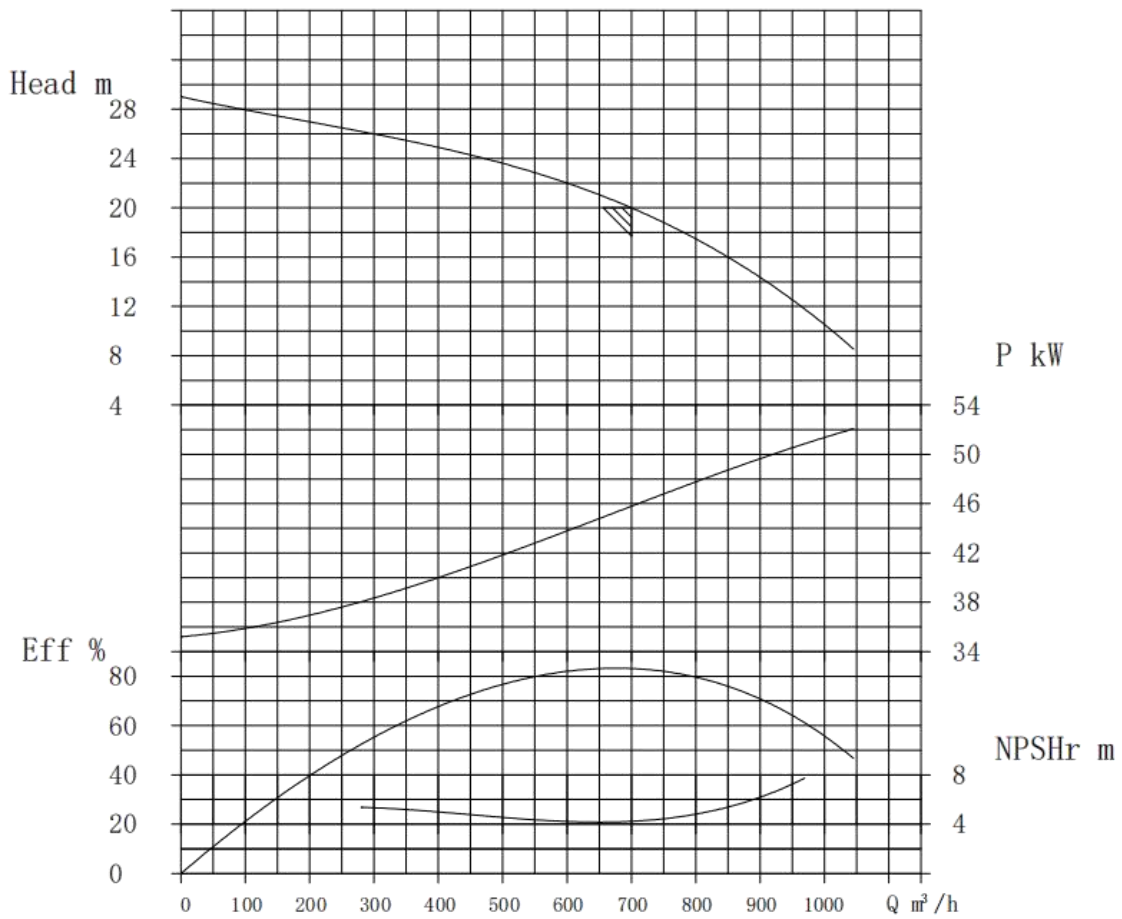
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	1000 m ³ /h
Max head	30m
Suction height	>8.5m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	>50kw
Speed	1500~2000rpm
Cooling method	Air cooled or water cooled
Pump parameters	
Inlet	10 inch
Outlet	10 inch
Speed	1500~1800rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	76mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M10-190

An intelligent control system effectively protects the engine, offering remote monitoring capabilities, allowing you to check and remotely start or stop the engine anytime, ensuring safe and reliable operation. High head to cope with more drainage situations.



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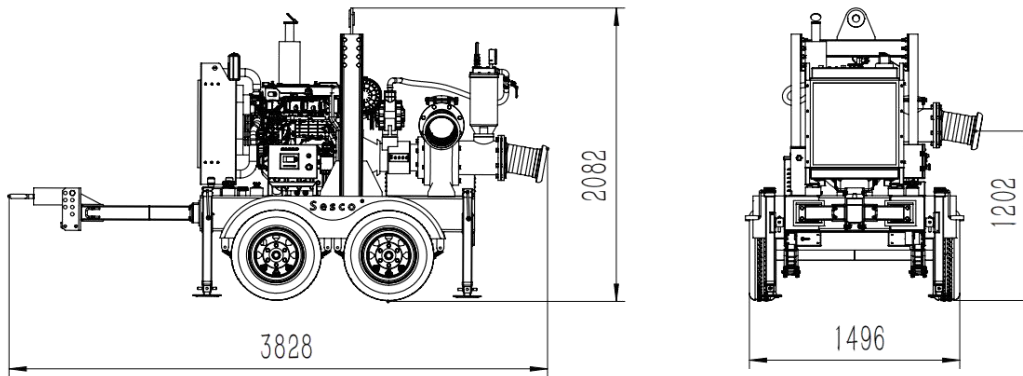
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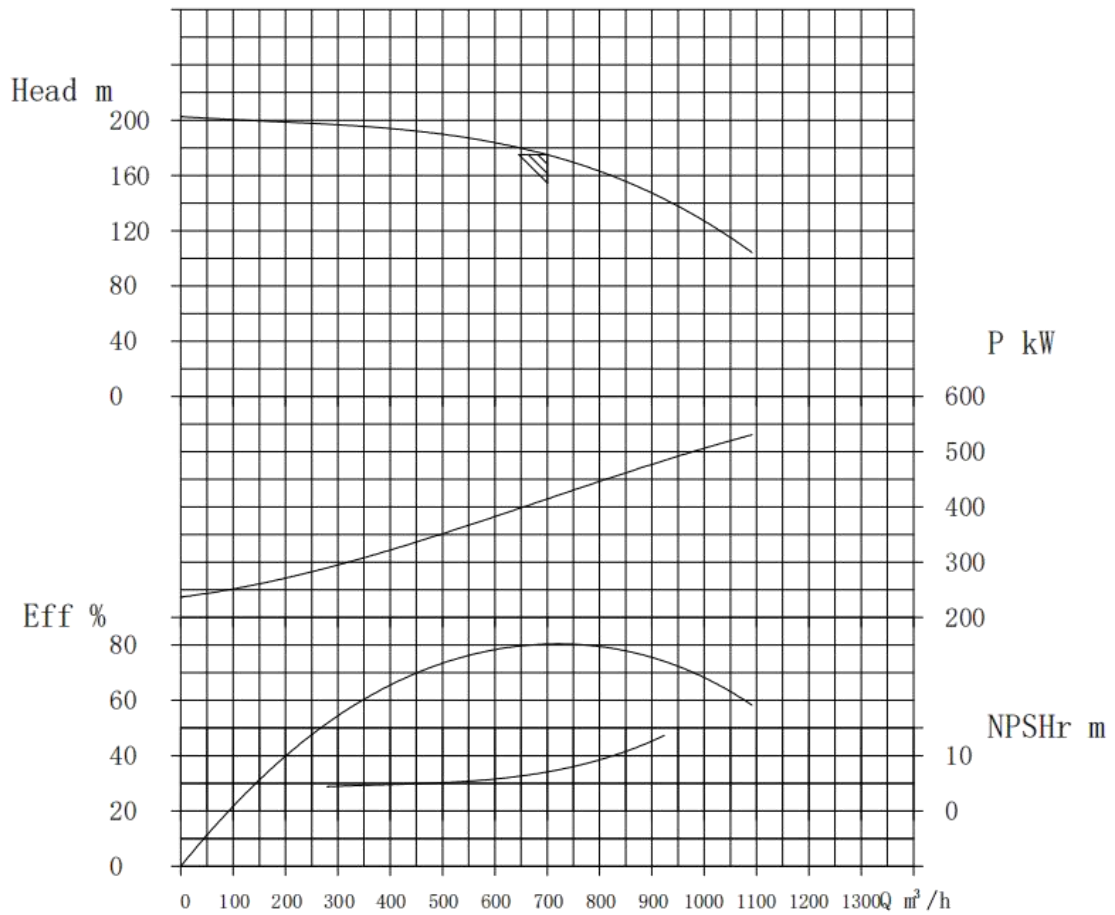
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	$1000\text{ m}^3/\text{h}$
Max head	190m
Suction height	$>8.5\text{m}$
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>520\text{kW}$
Speed	2200rpm
Cooling method	Air cooled or water cooled
Pump parameters	
Inlet	10 inch
Outlet	10 inch
Speed	2200rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	76mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M12

This 12-inch diesel water pump achieves a perfect balance between high flow and lift, making it suitable for various working conditions. Whether for municipal drainage, mining water removal, or construction site dewatering, this water pump is the perfect choice for efficient work!



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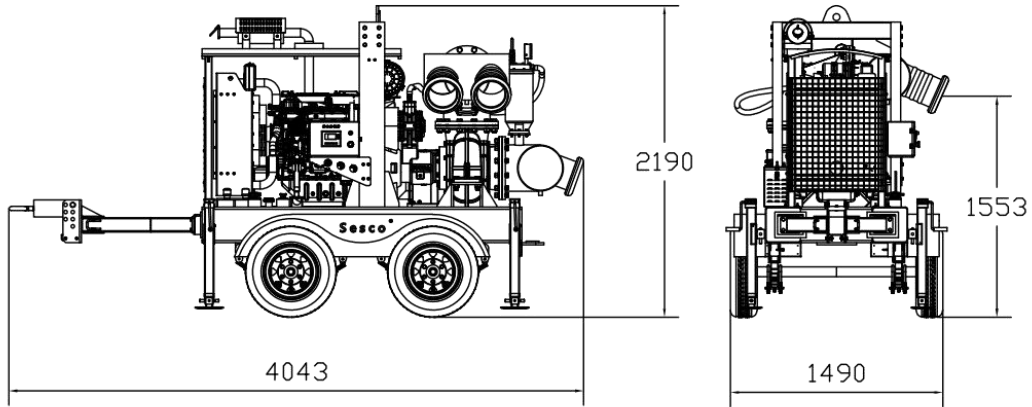
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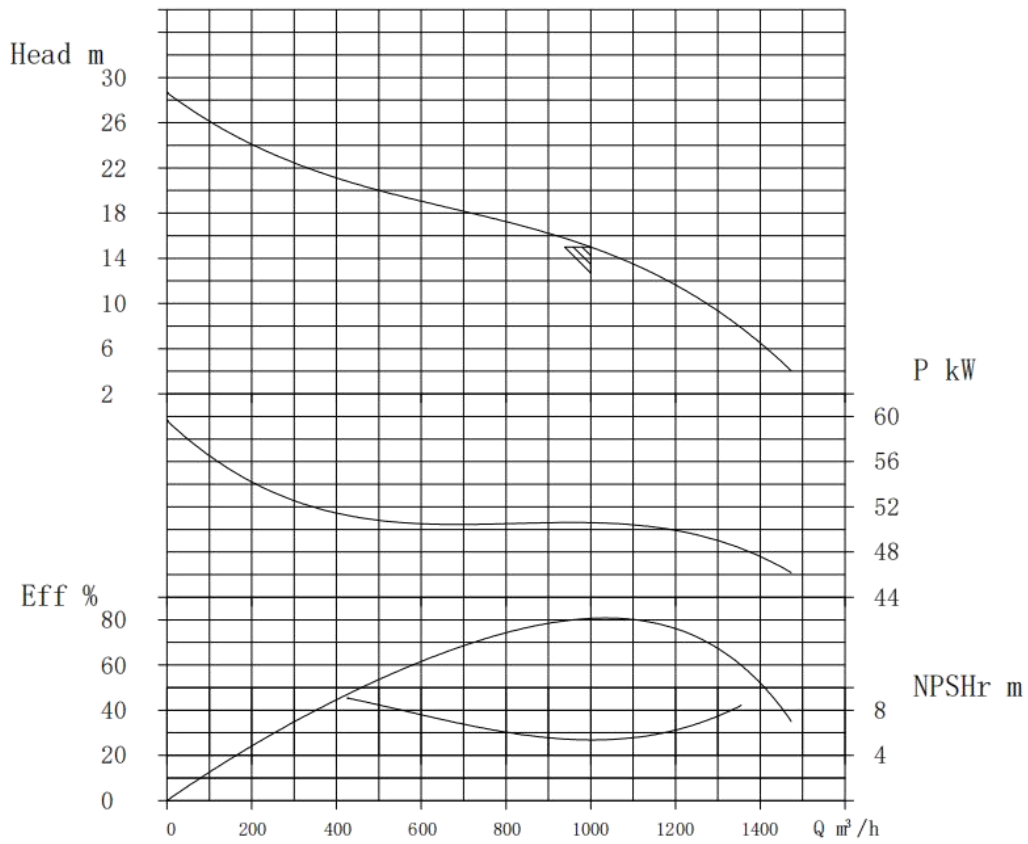
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max Flow	1300 m ³ /h
Max head	25m
Suction height	8.5m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	>60kw
Speed	1500~1800rpm
Cooling method	Water cooled
Pump parameters	
Inlet	12 inch
Outlet	12 inch
Speed	1500rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	85mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M12-160

With strong sewage handling ability, the pump can pass large particles easily without clogging. The high-performance vacuum-assisted system ensure strong water intake. The inlet and outlet can be adjusted to 8 inches as needed, and the two-inlet, two-outlet design makes the water pipes lighter and easier to handle.



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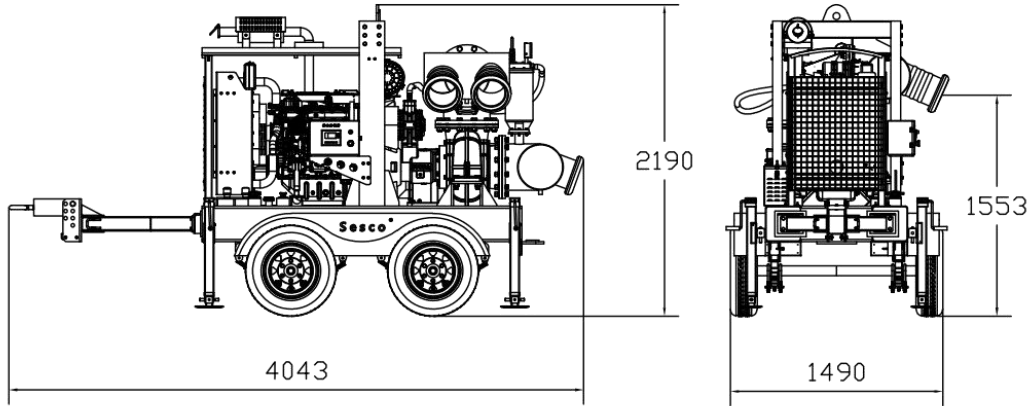
TECHNICAL SPECS

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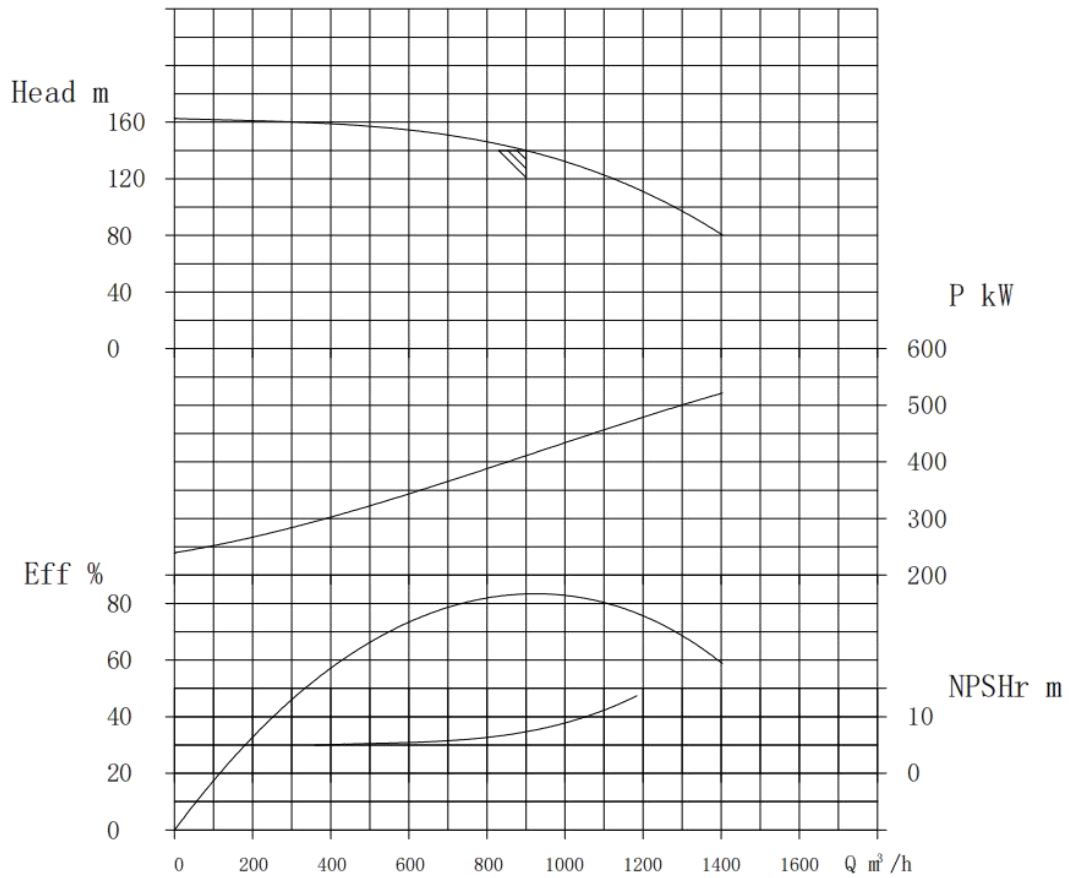
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max Flow	$1300\text{ m}^3/\text{h}$
Max head	160m
Suction height	8.5m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>450\text{kw}$
Speed	2000rpm
Cooling method	Water cooled
Pump parameters	
Inlet	12 inch
Outlet	12 inch
Speed	2000rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	85mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M14

The pump's manifold system splits inlet/outlet ports into smaller, lighter-weight connections, making hose handling easier and reducing user effort. A vacuum-assisted system ensures strong suction, achieving a maximum lift height of 8 meters for tough water extraction tasks.



*Typical Deployment Photo. Photos for general guidance. Contact us for further details.

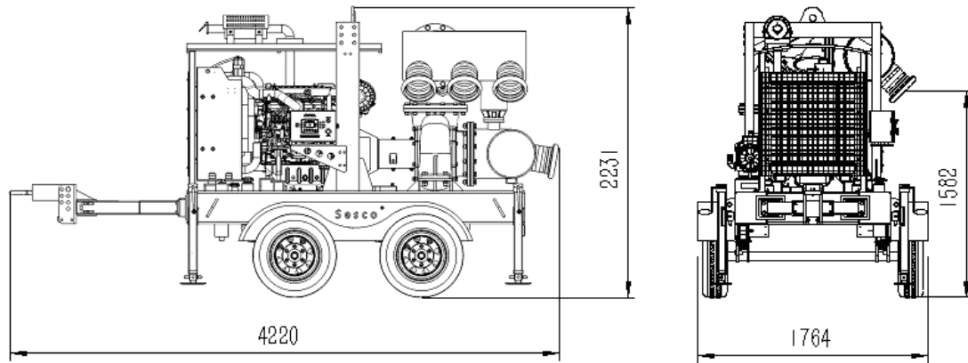
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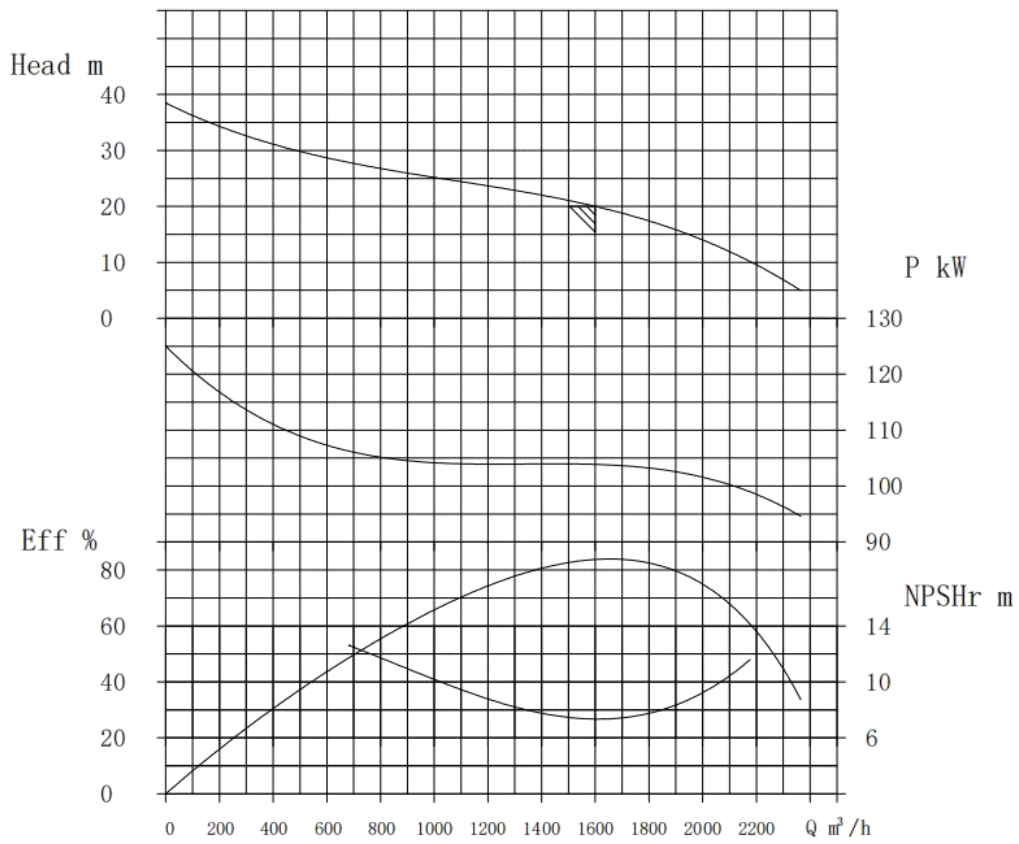
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	$2000\text{ m}^3/\text{h}$
Max head	35m
Suction height	8m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>100\text{kw}$
Speed	1500rpm
Cooling method	Water cooled
Pump parameters	
Inlet	14 inch
Outlet	14 inch
Speed	1500rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	100mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M14-120

Built for durability and user convenience, this pump combines power, smart design, and hassle-free operation—perfect for demanding environments. Upgrade to a pump that works harder, smarter, and longer! High head to cope with more drainage situations.



*Typical Deployment Photo. Photos for general guidance. Contact us for further details.

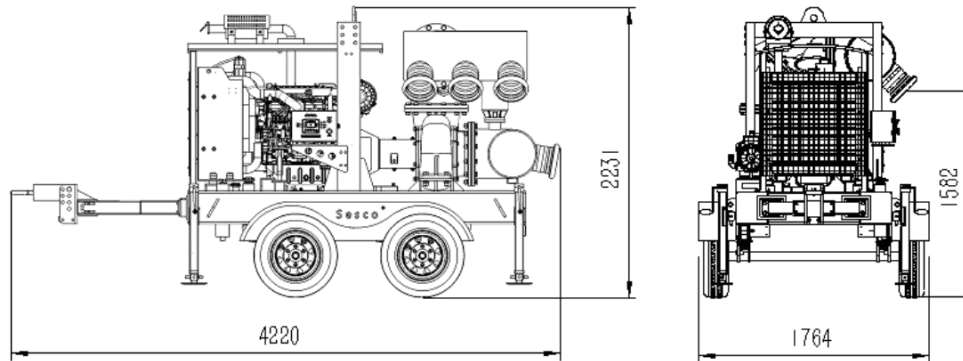
TECHNICAL SPECS

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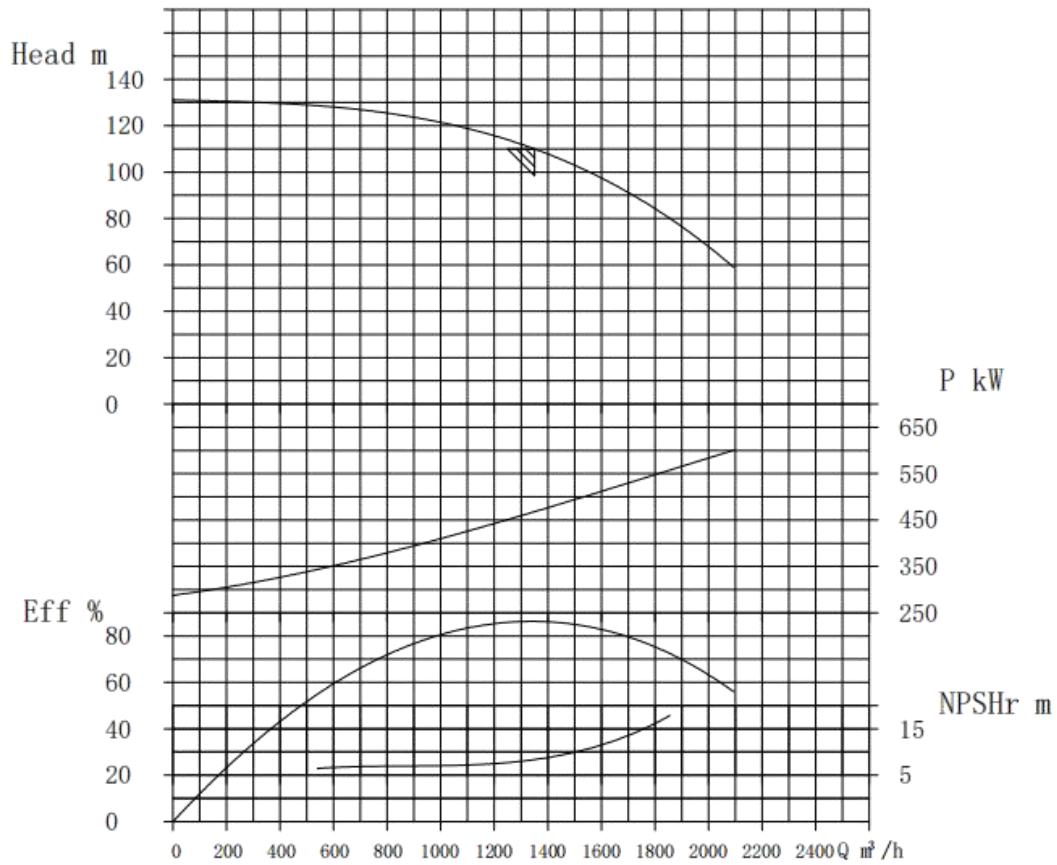
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationary, closed, open type
Max flow	$2000\text{ m}^3/\text{h}$
Max head	120m
Suction height	8m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>550\text{kw}$
Speed	1800rpm
Cooling method	Water cooled
Pump parameters	
Inlet	14 inch
Outlet	14 inch
Speed	1800rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	100mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M16

Ideal for heavy-duty applications with a maximum output of 3000 m³/hour, the pump combines robust power with user-friendly features, ensuring quick setup and effortless handling while maintaining high durability and reliability in demanding environments.



*Typical Deployment Photo. Photos for general guidance. Contact us for further details.

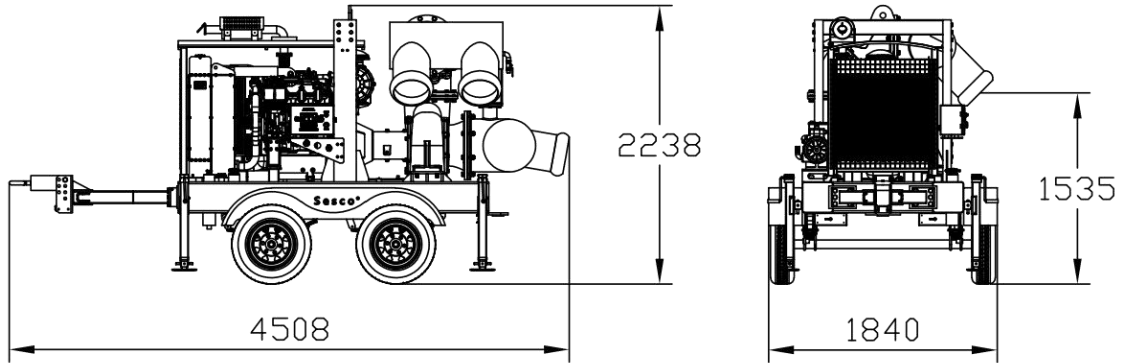
TECHNICAL SPECS

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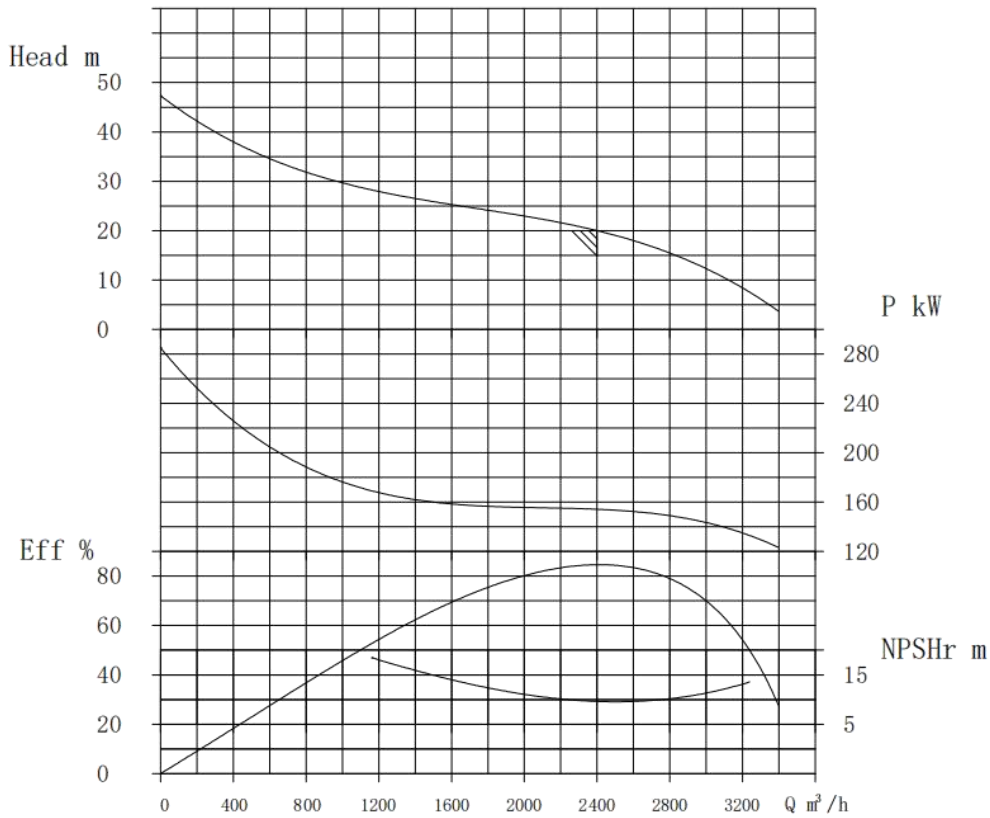
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	3000 m ³ /h
Max head	30m
Suction height	8m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	>165kw
Speed	1500rpm
Cooling method	Water cooled
Pump parameters	
Inlet	16 inch
Outlet	16 inch
Speed	1500rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	105mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE



High Vacuum Self-priming Drainage Trailer Pump

MODEL# M16-100

This high-efficiency water pump adopts advanced hydraulic models and has excellent energy-saving performance. Its high flow and high head characteristics make it easier for drainage to face more complex situations. Widely used in mining development.



*Typical Deployment Photo. Photos for general guidance. Contact us for further details.

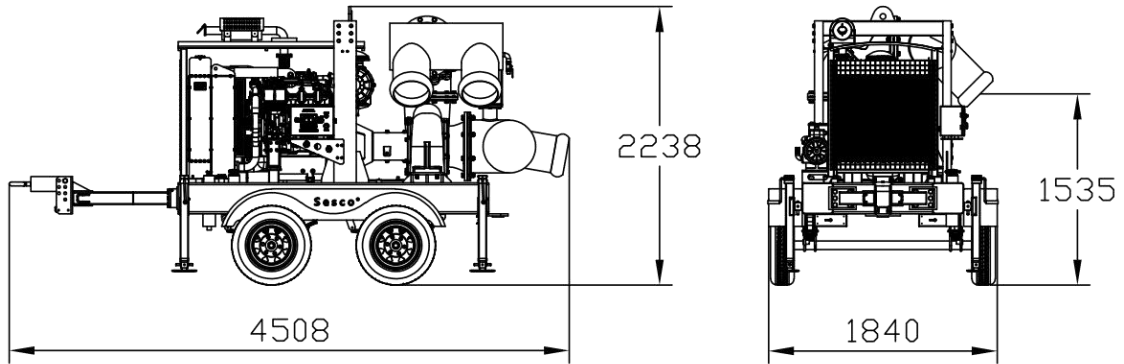
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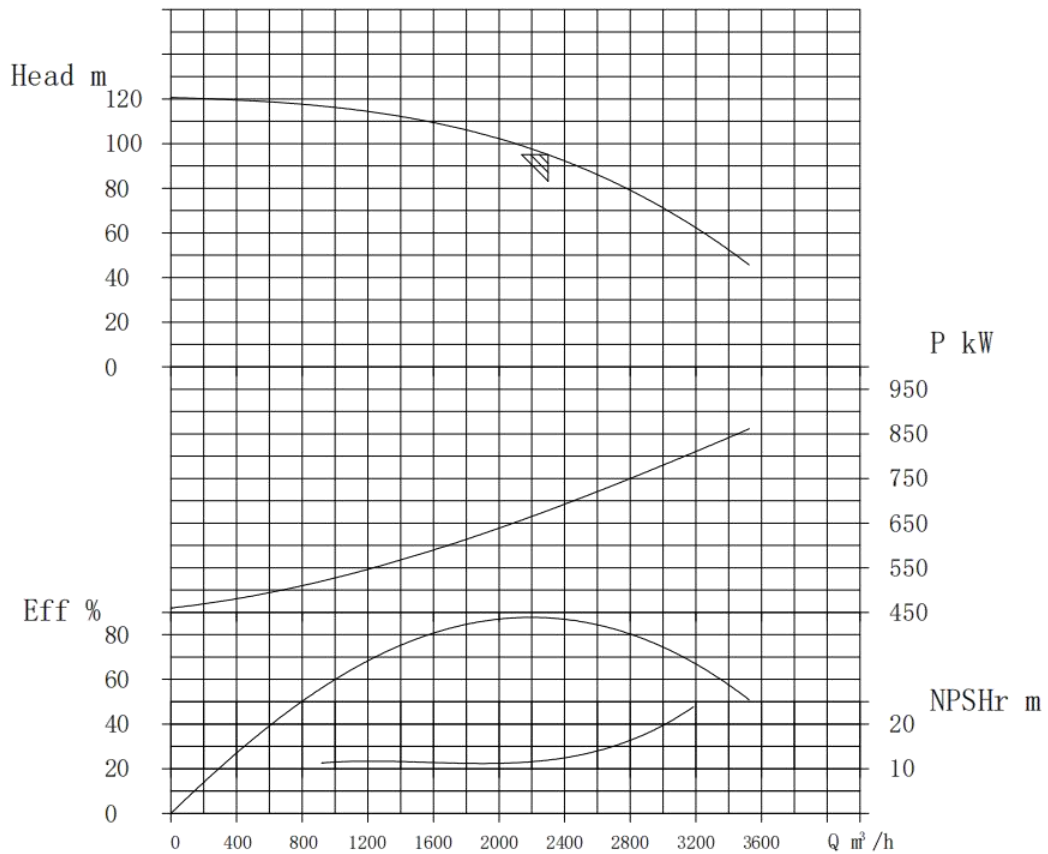
PERFORMANCE

Machine performance	
Type	Trailer mounted, stationery, closed, open type
Max flow	$3000\text{ m}^3/\text{h}$
Max head	100m
Suction height	8m
Diesel engine parameters	
Brand recommended:	Cummins, Weichai, Yuchai
Power	$>750\text{kw}$
Speed	1500rpm
Cooling method	Water cooled
Pump parameters	
Inlet	16 inch
Outlet	16 inch
Speed	1500rpm
Pump case	Cast iron
Impeller	Cast iron/stainless steel
Shaft	Carbon steel/stainless steel
Max particle size:	105mm
Accessories for option:	
Suction pipe, hose, quick connections, strainers, claps	

MECHANICAL DIMENSIONS



PERFORMANCE CURVE

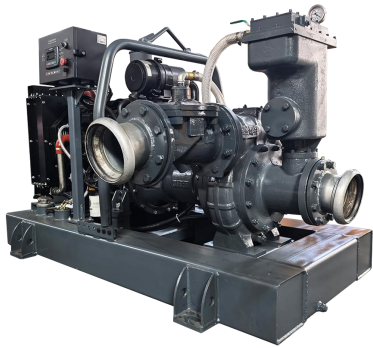


FIXED DIESEL ENGINE PUMP SET

INTRODUCTION

The performance parameters of the fixed pump set of the diesel engine are consistent with those of the high vacuum self-priming pump truck, and only the wheels, support legs, and traction rods are removed in the design.

PUMP DISPLAY



MULTI-STAGE PUMP

INTRODUCTION

A multistage pump is a highly efficient fluid conveying device that achieves pressure boosting through multiple serially connected impellers. Its core characteristic lies in the multistage impeller structure (typically two or more), where each impeller incrementally elevates liquid pressure, ultimately achieving ultra-high head (more than 1000 meters), far exceeding the head limit of single-stage pumps (approximately 125 meters).

With a compact structure and modular design (including components such as inlet section, middle section, and outlet section), the pump is often equipped with mechanical seals or soft packing seals at the shaft seal to minimize leakage risks.

In terms of performance, multistage pumps combine high head with energy efficiency advantages: the incremental pressure per impeller stage reduces overall energy consumption, while the head can be flexibly adjusted by adding or removing impellers. Constructed from corrosion-resistant materials like stainless steel and cast iron, they are compatible with clean water, high-temperature water (e.g. 105°C boiler water), and corrosive media.



APPLICATION PURPOSE

This equipment is widely applied in high-pressure scenarios:

1. Construction: Water supply and firefighting systems in high-rise buildings (e.g., multistage fire pumps can stably deliver high-pressure water to skyscrapers);
2. Industrial: Corrosive fluid transfer in chemical production, boiler feedwater and cooling circulation in power plants, oil well fluid extraction and pipeline transportation in the petroleum industry;
3. Public Infrastructure: Municipal pipe network pressurization, mine drainage, and wastewater treatment;
4. Agriculture: High-head irrigation and water lifting in mountainous areas.

Compared to single-stage pumps, their advantages include strong operational stability (self-balancing design reduces bearing wear), adaptability to complex working conditions (high-temperature/corrosion resistance), and extended service life (premium materials and advanced sealing technologies).

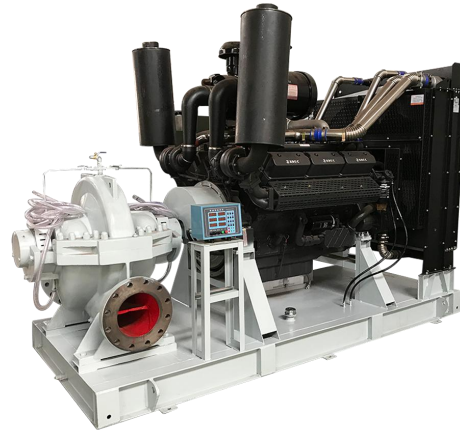
PUMP SPECS

TYPE	STAGE	FLOW(m ³ /h)	SPEED(rpm)	HEAD(m)	POWER (kw)
D6	2~12	6	2950	50~600	3~55
D12	2~12	12	2950	50~600	5.5~75
D25	2~12	25	2950	60~600	11~110
D45	3~12	45	2950	60~600	15~160
D85	2~9	85	2950	90~1000	37~450
D120	2~9	120	2950	100~450	55~220
D150	2~10	D150	1480~2950	60~600	45~450
D280	2~10	280	1480	86~650	110~900
D360	2~10	360	1480	80~400	132~630
D500	2~10	500	1480	114~570	250~1250

SPLIT-CASE DOUBLE-SUCTION PUMP

INTRODUCTION

The split-case double-suction pump is a highly efficient centrifugal pump characterized by: a double-suction impeller design consisting of two back-to-back impellers, equivalent to parallel operation of single-suction impellers, doubling flow rates under identical impeller diameters; a horizontally split casing along the axis enabling maintenance without pipeline disassembly; a symmetrical impeller structure eliminating axial thrust and ensuring low vibration/noise through balanced vane design; and a compact layout with inlet/outlet ports perpendicular to the pump shaft on the same horizontal plane for simplified piping installation. Its advantages include: high-flow (up to thousands of m³/h) and medium-to-high head capabilities for water, wastewater, and industrial fluids; 10%-15% higher energy efficiency than standard centrifugal pumps through optimized flow channels; corrosion-resistant stainless steel construction for media below 80°C (200°C in special models) and 8,000+ hour bearing lifespan; and low maintenance costs via quick-access horizontal casing and mechanical seals minimizing leakage



APPLICATION PURPOSE

Applications span municipal engineering (water supply, sewage treatment, flood control), industrial systems (power plant cooling, chemical corrosive fluid transfer, metallurgical high-temperature circulation), agricultural/water conservancy projects (large-scale irrigation, reservoir transfer), and firefighting/emergency systems (high-rise building water supply, ship ballast operations). Its integrated performance makes it the preferred solution for high-flow, stability-critical scenarios.

PUMP SPECS

TYPE	FLOW(m ³ /h)	HEAD(m)	SPEED(rpm)	POWER (kw)
SOW80	58~194	12~90	1450~2900	2.2~90
SOW100	94~367	11~123	1450~2900	11~200
SOW125	173~535	9.1~166	1450~2900	11~220
SOW150	300~580	11.5~135	1450	22~315
SOW200	500~810	17~200	1450	37~710
SOW250	800~1240	22~186	1450	75~1000
SOW300	700~1680	11.5~156	1450	37~1250
SOW350	1180~2650	17.8~195	1450	90~2000
SOW400	1768~3500	45~138	1450	315~1800
SOW500	1600~4000	7.7~150	730~980	75~2000

SLURRY PUMP

INTRODUCTION

Slurry pumps are industrial equipment specially designed to transport high-concentration fluids containing solid particles. Their core function is to handle abrasive, corrosive, or high-density materials, making them essential across multiple industries:

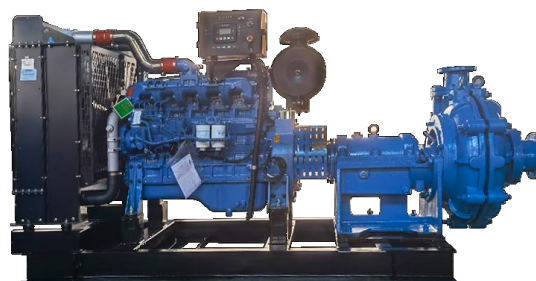
In mining, they transport ore slurry, tailings, and mine drainage. About 80% of operations in mineral processing plants involve slurry pumps to move crushed and ground ore mixtures.

In power plants, they're nicknamed "ash pumps" for removing coal combustion residues. These pumps mix ash with water in hydraulic ash handling systems for transportation to disposal sites.

Coal washing and chemical industries use them to process coal slurry and heavy-media mixtures, or to transport crystallized/corrosive fluids (like acidic slurries in phosphate fertilizer production).

In metallurgy and construction, they serve steel mill slag flushing systems, alumina plant material transfer, and aerated concrete slurry circulation.

Built with wear-resistant materials (like high-chromium alloys), corrosion-resistant designs, and efficient hydraulic models, slurry pumps reliably operate under extreme conditions - high temperatures, intense pressure, and harsh chemical environments. This makes them indispensable "super transporters" in industrial production.



PUMP SPECS

TYPE	FLOW(m ³ /h)	HEAD(m)	SPEED(rpm)	POWER(kw)	Max particle size(mm)
50SP	12~111	8~110	700~1480	18.5~90	13
65SP	20~80	6~34	700~1480	11~15	19
80SP	40~240	8.0~109	700~1480	37~160	21~24
100SP	45~360	8~100	700~1480	45~160	18~35
150SP	95~600	12~91	490~980	75~200	32~75
200SP	200~900	13~133	490~980	185~560	54~62
250SP	270~1570	13~128	400~980	280~800	69~76
300SP	400~2300	9.7~80	300~980	250~630	85~96



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