

Disclaimer:

As technology is constantly updated, materials and technical specifications are subject to change without notice. The supply status of the actual product shall be subject to the sales contract, and the sample is for reference only.

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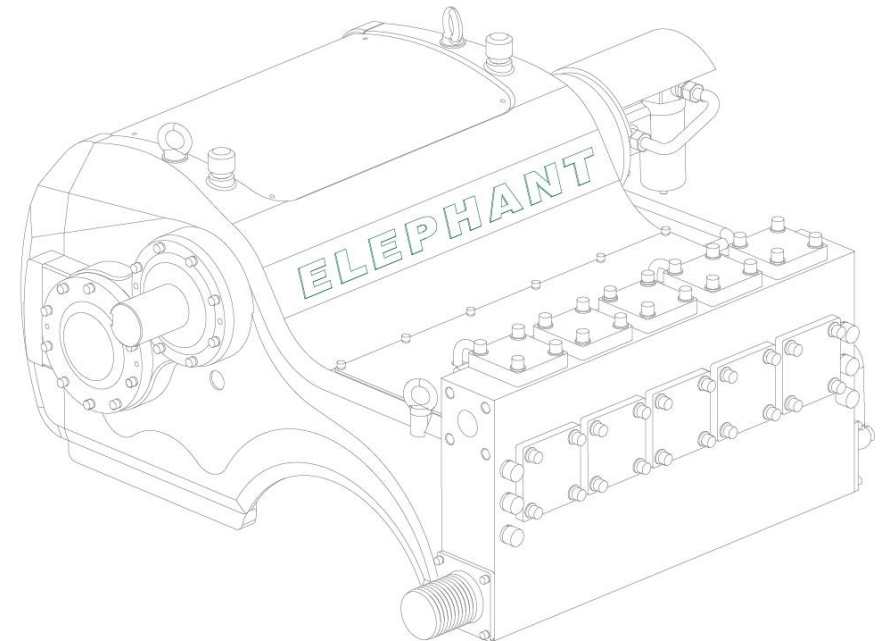
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RECIPROCATING PUMPS

— Plunger Pump

Convenient, Reliable, Efficient, Intelligent





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About Us

Reciprocating Pump for All Application Fields Integrates R&D, Manufacturing, Sales, and Service



Elephant Machinery founded in 2008 and covering an area of 30,000 square meters, is a comprehensive enterprise integrating the R&D, manufacturing, sales, and service of full-application reciprocating pumps. We hold multiple invention patents and has obtained certifications including API Q1 Quality Management System, ISO 9001 Quality Management System, ISO 14001 Environmental Management System, Enterprise Intellectual Property Management System, Enterprise Integrity Management System, After-Sales Service Evaluation System, Green Factory, Five-Star Green Supply Chain Rating, AAA Corporate Credit Evaluation, and CE certification. We have been recognized as a National High-Tech Enterprise, Jiangsu Provincial "Specialized and Sophisticated" Enterprise, and Jiangsu Provincial Advanced-Level Intelligent Factory.

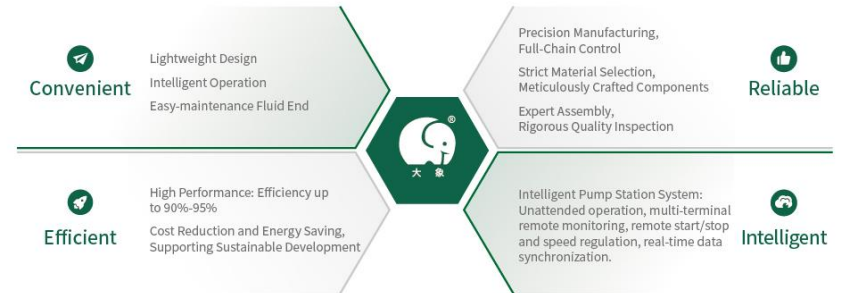
Elephant Machinery specializes in manufacturing reciprocating plunger pumps, piston pumps, and diaphragm pump series products. Designed and manufactured to comply with national standards GB/T9234-2018 and GB/T7782-2020, as well as international standards API674, API675, and ISO 13710:2004, our products meet diverse flow and pressure requirements across multiple industries. Our products are suitable for oilfield water injection boosting, chemical medium transportation, pharmaceutical precision metering, trenchless directional drilling, mining geothermal drilling, coal mine fracturing grouting, environmental wastewater treatment, high pressure water jetting, and food and beverage industries, delivering stable and reliable performance.

Convenient, Reliable, Efficient, Intelligent

We will work in hand with friends from all works of life to move towards a more brilliant future.

Elephant Machinery's products mainly consist of three series: plunger pumps, piston pumps, and diaphragm pumps. Their power configurations include hydraulic motors, electric motors, and diesel engines. By adopting new technologies, new materials, and new processes, combined with advanced machining and testing equipment, our products feature compact structure, light weight, small footprint, appealing appearance, stable performance, long service life of wearing parts, and easy installation and maintenance.

Elephant Machinery adheres to the "Product Supremacy" philosophy, committed to providing customers across various industries with convenient, reliable, efficient, and intelligent reciprocating pump products and complete solutions. We have earned high recognition from numerous well-known enterprises both domestically and internationally.



Product Supremacy

Reciprocating Pump

Type

Piston Pump



Plunger Pump



Diaphragm Pump



Drive Type

Hydraulic Motor



Electric Motor

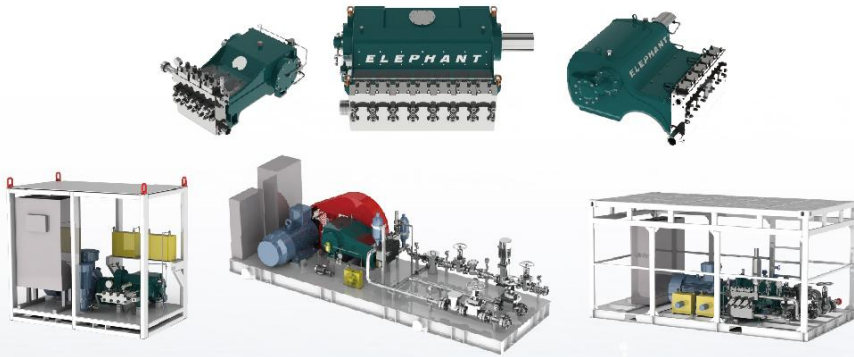


Diesel Engine



Plunger Pump

The plunger reciprocating pump is a positive displacement pump in which the plunger comes into direct contact with the medium being transported. It is capable of long-term stable operation under high pressure and large-flow conditions, with outstanding self-priming performance and a wide range of applicable media. The pump offers economical and efficient operation and is strictly designed and manufactured in accordance with Chinese National Standard GB/T9234-2018 and API 674 standards.



Working Principle

Driven by a prime mover through a speed reduction mechanism (such as a gearbox or pulley system), the rotational motion is converted into reciprocating motion of the plunger via a crankshaft and connecting rod mechanism. This generates periodic changes in the working chamber volume, driving the automatic opening and closing of check valves, thereby achieving medium suction and high pressure discharge.



Technical Specifications

Flow Range: 50-6000 L/min
 Pressure Range: 1-150 MPa
 Temperature Range: +1 to +150°C
 Viscosity Range: ≤3000 cP

Model	Cylinders	Flow Rate (L/min)	Pressure (MPa)	Stroke (mm)	Cylinder Diameter (mm)	Stroke Speed (r/min)
DS20	3	6.8~96.9	7~69	48	13~48	475
DS25	3	10.2~45	1~93	60	12~25	500
DS45	3	19.7~217.3	6~69	70	19~64	450
DS77	3	35.6~416.4	6~69	75	22~76	400
DS70	3	8.9~27.3	5~150	75	12~21	350
DS104	3	54.1~863	4~69	90	25~102	400
DS108	3	48.4~512.9	7~69	110	25~83	387
DS142	3	68.5~1093.9	4~69	135	29~114	350
DS190	3	90.8~1162	5~68	135	32~114	330
DS440	3	147.6~2532.2	6~69	175	38~159	240
DW240	5	113.6~1824.4	4~69	60	29~114	350
DW325	5	181.7~1934.1	6~58	80	35~114	330
DW400	5	265.3~640.5	21~50	95	45~70	350
DW800	5	329.3~1105.2	6~69	135	44~159	240/330/350
DW1000	5	147.6~1934.1	6~69	175	44~159	240/330/350
DQ1400	5	295.2~3855	6~69	150	44~159	259

Primary Application Cases

African Crude Oil Transfer Pump Unit

Pump Type: Triplex Piston Pump
Drive: Diesel Engine
Flow Rate: 2800/2029/1504/1105/760 L/min
Pressure: 5/7/9/12/18 MPa



Kazakhstan Water Injection Pump Unit

Pump Type: Triplex Plunger Pump
Drive: Variable Frequency Motor
Flow Rate: 333 L/min
Pressure: 40 MPa



CNOOC High Pressure Pump for Offshore Platforms

Pump Type: Triplex Plunger Pump
Drive: Electric Motor Drive
Flow Rate: 129 L/min
Pressure: 35 Mpa



Sinopec Water Injection Pump Unit

Pump Type: Quintuplex Plunger Pump
Drive: Variable Frequency Motor
Flow Rate: 777 L/min
Pressure: 20 MPa

Chemical Injection Pump Skid in Trinidad and Tobago

Pump Type: Triplex Plunger Pump
Drive: Motor Drive(Explosion-Proof Variable Frequency)
Flow Rate: 190 L/min
Pressure: 10.4 MPa



Truck-Mounted Cementing Pump

Pump Type: Triplex Plunger Pump
Drive: Hydraulic System
Flow Rate: 10-120 L/min
Pressure: 70 MPa



Committed To Creating
A World-class Reciprocating Pump Brand

