



HYDRAULIC PUMP, MOTOR TEST BENCH



SKS HYDRAULICS



wechat

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Focus on providing users one-stop solutions of hydraulic testing and control



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Companies Introduce



SKS HYDRAULIC TECHNOLOGY is one of the most complete manufacturers of hydraulic piston pumps and motor parts in the world, after years of development, it has become a comprehensive enterprise integrating hydraulic piston pumps, motors, reducers, precision casting, precision forging and other industries, and its products are widely used in hydraulic equipment systems in many fields such as construction machinery, ship equipment, mining machinery, marine engineering, industrial equipment, etc.

SKS Hydraulic Technology has established 2 provincial high-end hydraulic research institutes and 3 manufacturing bases in Ningbo, Jiaxing and Cixi. The total area is about 264 acres, with standardized workshops and supporting facilities of about 160,000 square meters. The company has introduced advanced casting production lines, heat treatment production lines, machining flexible production lines and component testing production lines from equipment manufacturing enterprises in Germany, Japan, Denmark, Taiwan and other countries, realized the independent development and production of products, and formed a world-class hydraulic components and reducer production system.

The company has undertaken 2 national torch plan projects, 1 national key new product project, and 1 national major scientific and technological achievements transformation project. At the same time, a number of the company's products have won the industry technology progress award. In 2019, the company was rated as "Zhejiang Hidden Champion Enterprise". As of the end of 2020, SKS has 104 patents, including 22 invention patents and 82 utility model patents.

The company has more than 50 domestic and foreign distributors, and has established a perfect dealer sales and service system, covering 31 provinces, municipalities and autonomous regions in China and extending to major markets around the world.

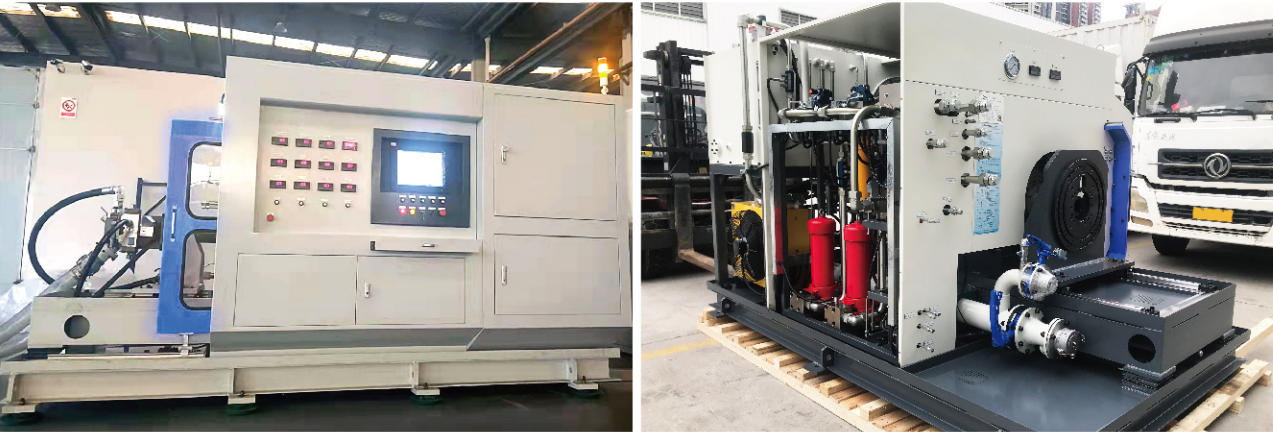
SKS Hydraulic Technology is committed to providing high-quality hydraulic products and hydraulic transmission solutions for global customers, and strives to become a leader in the hydraulic transmission industry, configuring "Chinese core" for China's construction machinery.

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Fully enclosed test stand



Semi-enclosed test stand



Product Description



Product description & Main technical features

Hydraulic pump motor test bench equipment is suitable for all kinds of hydraulic pump (including hydraulic gear pump, plunger pump, blade pump, open pump, closed pump, etc.) and hydraulic motor liquid flow and pressure measurement, output torque and speed measurement, output power measurement and temperature rise measurement of the factory testing and testing, can real-time display the parameters and time before the relationship axis, and record the whole test process after output report, often used for product delivery test and maintenance testing.

Fully functional, can test open pump, closed pump, constant pressure, constant power, load sensitive, electronic control hydraulic control pump and other control mode of pump, motor, suitable for R & D, manufacturing, maintenance and re-manufacturing enterprises;

The whole test bench semi-closed design, beautiful appearance, convenient installation and transportation, good protection and environmental protection effect. Proportional valve automatic loading, equipped with imported high pressure flow sensor, high test accuracy; Pump outlet is equipped with high pressure filter to ensure the cleanliness of the system;

Human-machine interaction interface friendly, convenient operation, simple and easy to learn. The operating interface of the test system is designed graphically, the operating interface is embedded in the schematic diagram of the hydraulic circuit, the system state parameters are displayed in real time, and the running state can be monitored.

Advanced test bench manufacturing technology, such as the hydraulic tank and pipeline using special rust prevention treatment, the use of no-welding pipeline, fully ensure the cleanliness and reliability of the system;

The test system has its own fault diagnosis function, and the system is stable and safe. Can automatically generate test report, print test curve, test data can be stored automatically, convenient for later analysis and management.

Test table main technical indicators

Name of index	Technical specification	Remark
Main motor power	75KW/90KW/110KW/160KW/200KW	Variable frequency motor, variable frequency speed regulation Variable frequency motor, variable frequency speed regulation motor power and pressure, flow related, When testing variable pump, the displacement can be reduced to test. Motor power (KW) = pressure (MPa) * flow rate (L/min) / 60 / 0.85 (The flow rate here is displacement * rated motor speed)
Loading pressure	Rated pressure 35MPa	Adjustable pressure up to 42MPa (custom)
Main motor speed	Rated speed of 4 grade motor: 1450r/min Rated speed of 6 grade motor: 1000r/min	The motor is tested as a closed pump. The torque of the 6-stage motor in the closed pump test loop is larger than that of the 4-stage motor. The tested pump can be loaded with higher pressure
Loading path and voltage regulation mode	2 load (front pump + rear pump), standard Small pump load, optional, Manual voltage regulation (standard), proportional voltage regulation (optional)	The motor is tested as a closed pump, using a closed pump test loop
Optional test loop	Load sensitive test; Remote DR Port control test.	
Flow test range	Front pump, closed pump: 15-600L/min Rear pump: 15-600L/min Small pump: 2-75L/min Leak: 2-75L/min	Equipped with German Hydrotechnik high pressure flowmeter
Filtration	The high pressure port of the tested pump is configured with a 10u filter, and the leakage port of the tested pump is configured with a 50u filter.	Standard with China's first-line brand filter, common with HYDAC filter
Pilot pump	Motor power: 7.5KW-4 Flow rate: 14.5L/min, Pressure adjustable Hydraulic port pressure: maximum 10MPa, 2 channels, adjustable.	
Replenishing oil pump	Motor power: 7.5KW-4 Flow rate: 60L/min Hydraulic port pressure: maximum 4MPa	
Control power supply	Configure 24V/12V switches and one proportional channel	The maximum ratio is 1500mA
Cooling mode	Air cooling heat dissipation (standard), water cooling heat dissipation (optional)	
Control and acquisition	Touch screen control, curve and data real-time display (standard) Computer control, including PC program, curve and data real-time display and saving (optional)	The upper computer software is written for Labview, and the operation interface is embedded Hydraulic circuit diagram, equipment operation status can be monitored
Test accuracy	JB/T10829-2008 A	
Working medium	46# Antiwear hydraulic fluid	
Other optional configurations 1	The customer specifies a pump model, and provides a set of tooling for the model (standard)	Tooling Quantity X sets/Tooling not required
Other optional configurations 2	Print test report	
Other optional configurations 3	The whole equipment is semi-enclosed or fully enclosed	200KW motor

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