

Mitech MEW-Y300S Digital Pressure Testing Machine

Overview

Mitech MEW-Y300S Digital Pressure Testing Machine, by controlling the high pressure oil pump drives the piston movement, equipped with corresponding auxiliary equipment for ordinary or oil well cement on the compressive strength of mortar test or bending test. With digital processing, high precision data acquisition control technology, graphical interface, integrated design, stable performance, solid construction and high reliability, simple operation, it is widely used in the field of hardness testing of building materials, quality inspection of quality inspection department and scientific research experiment of institutions of higher learning. It is a professional precision testing instrument that guarantees the quality of construction and improves the safety performance.

Technical Parameters

Technical parameters	MEW-Y300S
Max. test force	300KN
Force measuring range	30-300KN
Test accuracy	Better than $\pm 1\%$ of the indicated value
Speed range	0.01-50mm/min
Maximum distance between the upper and lower plates	200mm
Size of upper and lower plates	ϕ 140mm
Piston diameter	150mm
Power supply	380V
Power	1500W
Dimensions	830*500*1500mm
Weight	350kg

Working Principle

The testing machine is the product of combing the testing machine technology with the mechanical transmission technology, the sensor technology, the automation control technology and so on, which is composed of the drive system, the control system, the measurement system. The driving system is mainly used for the beam movement of the testing machine, which can adjust the beam movement through the control valve. The control system regulate the testing machine by the console , getting the state of the test machine and the test parameters through the display screen. The measuring system can conduct the measurement of force, deformation and beam displacement using the sensor, signal amplifiers, photoelectric encoders and data processing systems. This machine can conduct the mechanical performance testing of the material pull, pressure, bending and so on through the coordination of the drive system, control system, measurement system and other subsystems .

Features

- Widely used in ordinary cement mortar or oil well cement compressive strength test or bending

test;

- With display test force, peak test force, test force rate and other functions;
- With the test force cleared, peak hold, parameter setting, the entire process regardless of gear force value measurement, calibration and fine-tuning and other functions;
- Using LED highlight screen display, easy to operate and read;
- High precision and high stability of the tire tension and compression strain sensor, coupled with high-precision measurement and amplification system to ensure that the test force of high precision;
- Built-in controller to ensure that the test machine can be specimen deformation, test force and displacement of the closed-loop control;
- Automatically according to the size of the load can be switched to the appropriate range to ensure the accuracy of measurement data;
- Zero adjustment, calibration, storage, etc. without any analog adjustment link, the control circuit is highly integrated;
- After testing, test data and test curve automatically saved for later retrieval analysis;
- Consistent with GB, ISO, ASTM, DIN and other relevant domestic and foreign standards.

Scope of application

Widely used in ordinary cement mortar or oil well cement compressive strength test or bending test;

Applications

- Building materials hardness testing
- Teaching experiment of scientific research in Institutions of higher learning
- Material analysis test of scientific research institutions
- Quality inspection link of Quality inspection department

Working Conditions

- Operation Temperature: Ambient temperature ~45°C ;
- Relative humidity: 20% ~ 80% ;
- In an environment free from vibration, corrosive medium and high magnetic field
- Installed on a flat basis.
- Power supply voltage fluctuation does not exceed 10% of rated voltage.

Configurations

Configuration Instructions	NO.	Name	QTY.	Remarks
Standard Configuration	1	Testing machine host	1	
	2	Control system	1	
	3	Copper gasket	1	
	4	“ O “ ring	1	
	5	Power cord	1	
	6	Attached files	1	

Maintenance and care

- Before using this instrument, please read the instruction manual carefully, understand the operation steps and precautions, avoid the damage caused by improper operation or personal

safety accident;

- Test machine is a large precision instruments, should pay attention to water, moisture. Exposed workstations, upper and lower beam parts and attached parts should be coated with anti-rust oil to prevent rust;
- If idle for a long time, at least once a week and move the upper and lower beams, so that beam position, silk mother often activities to prevent rust;
- After the experiment should be promptly cleaned up debris and other dirt, to prevent accidental damage to the instrument, to avoid shortening the life of the test machine;
- After the completion of the test, will be attached to a good, to prevent the loss of equipment for the next use;
- Electrical connection cable and equipment should be careful when connected, moderate efforts, remember not to swipe, hard pull.
- Don't disassemble the instrument without authorization, maintenance related matter, please contact MITECH after-sale service department with 4000600280.

