

HST-SXW500KN 50T PC Strand Tensile Stress Relaxation Testing Machine



Application:

This machine is used to do stress-relaxation test of steel strand, galvanized steel wire, indented wire etc metal materials. The host machine adopts horizontal structure, adjust work space by lead screw, and the transmission system is inside the machine base, the machine has very high stiffness, which guarantee the accuracy of test results.

PC realizes variety of control modes, which include constant test force, constant displacement etc closed-loop control and test process control, all kinds of control modes can be switched without impact.

The computer can calculate the test results of 1000 hours according to the test data not more than 200 hours, it can also do continuous test of 1000 hours. The computer real time displays test force and test curves, can save and print the test results, test curves and test report.

Applied Standards:

- ISO 15630-1, Steel for the reinforcement and prestressing of concrete -- Test methods
- ISO 6934-4, Steel for the prestressing of concrete -- Part 4: Strand
- ASTM A370, Standard Test Methods and Definitions for Mechanical Testing of Steel Products
- ASTM A416 / A416M, Standard Specification for Low-Relaxation, Seven-Wire Steel Strand for Prestressed Concrete.
- ASTM E328-13 Test Methods for Stress Relaxation Tests for Materials and Structures

Specifications:

Model	HST -SXW500
Host Structure	Horizontal Type
Max. Test Force	500 KN
Specimen Diameter	φ15.2mm, φ17.8mm Or Other Diameter Depend On Customers' Requirements
Load measurement range	2%~100%FS (10~500kN)

Accuracy Of Testing Force	Better Than $\pm 1\%$ Of Indicated Value
Load resolution	15N
Load sensor creep	30 minutes $\leq 0.02\%$
Temperature sensor resolution	0.1℃
Temperature sensor accuracy	$\pm 0.3^\circ\text{C}$
Displacement measurement accuracy	Better than $\pm 0.5\%$ of the indicated value
Deformation measurement accuracy	$\pm 0.001\text{mm}$
Strain control accuracy	Better than $\pm 5 \times 10^{-6}\text{mm/mm}$
Noise	$\leq 35\text{dB}$
Loading speed	100~5000 N/S
Effective travel of screw	100 mm
Max. Relaxation Test Space	2000 mm
Strain control accuracy	Better than $\pm 5 \times 10^{-6}\text{mm/mm}$
Test Force Range	2%~100% (6 KN~300 KN)
Chucks Moving Speed	0.001-25 mm/min
Clamping Specimen Diameter	$\phi 12.7, \phi 15.2\text{mm}$ Or Other Diameter Depend On Customers' Requirements
Test time	> 1000
Power supply	AC 220V $\pm 10\%$, 50HZ
Host dimensions (L X W X H)	2800mmx530mmx1160mm
Weight	About 2000Kg
Remark: 1. Extra length frames is available 2. Power supply system is completely customizable. 3. Specifications are subject to change without notice.	

HST GROUP Co., LTD.

Jinan Hensgrand Instrument Co., Ltd.

NO. 4915, West Jingshi Road, Jinan 250012, PR CHINA.

Tel/WhatsApp: +86-15910081986

www.hssdgroup.com - e-mail: admin@hssdtest.com