



SANS GROUP COMPANY
SHENZHEN SANS TESTING MACHINE CO., LTD
MATERIAL TESTING SPECIALIST
Manufacture-Service-Calibration

ZKS1000 Series Concrete Penetration Resistance Testing Machine



ZKS1000 Series Concrete Penetration Resistance Testing Machine

SANS new generation ZKS1000 Series Micro Computer Controlled High Accuracy Penetration Resistance Testing Machine (Fig1) completes penetration test for concrete material under long-term constant pressure according to concerned tests standards. The model ZKS 1206-3 tester consists of control box, air compressor, computer, and test-bed and relative components. The control system includes microcomputer and AD813 controller.



Fig1. ZKS1000

Key Features

- Test process controlled via microcomputer, the real time test pressure and test time can be displayed.
- Multi-test routes can be extended up 6 times amount-testing moulds depends on the requirement. Each test route is controlled separately and owns different pressure to perform various pressure tests, and every test routes won't interfere each other when testing.
- Testing data is processed and analyzed via the microcomputer and the result of tests recorded automatically. The test graph and the curve.
- Over-load protection function ensures the system is run safely and effectively.
- Dominating control components/elements

are adopted with international famous brand. Eximious performance of them guarantees accuracy and reliability.

- The system pressure can be automatically increased via either microcomputer or digital units control that completes in ultimate shorten operation time of operators and uncared-for operation.
- Comply with the standard GBJ82-85 of testing concrete penetration resistance capacity under long-term constant pressure.

Technical Specifications

Technical Specifications		
Testing samples		at least 6 pieces and two groups (extended according to customers' requirement)
Pressure range	Mpa	0.1-2
Accuracy of pressure		<±2%

Constant pressure range	Mpa	0.1-2
Accuracy of constant pressure		<±5%
Timing accuracy		≤0.1%
Control box dimension	mm	600 x 600 x 1500
Power		AC220V±10% ,50Hz

Standard Accessories

Standard Accessories	Quantity
Control box	1 set
American pressure pump	1 set
American electromagnetism valve	6 pieces
American pressure transducer	3 pieces
German accumulator	4 pieces
American air compressor	1 set
Control elements of pressure	3 pieces
SANS ZKS PowerTest professional testing software	1 set
LENOVE noted brand computer	1 set
CANON A4 color jet printer	1 set

ZMT205 Hydraulic mould dismounting machine

- Simple structure and easy-to-operate. Apply manual valves with easy operation and high productivity.
- Applications:
 - This machine is to match penetration resistance tester, mainly used for cement specimen pressing, pushing out.
- Parameters:
 - Max force: 200KN
 - Cylinder diameter: $\varnothing 110\text{mm}$
 - Piston stroke: 100mm
 - Piston pushing speed without loading: 250mm/min
 - Motor power: 1.1KW



- Overall dimension: 800×610×1350mm
- Overall weight: 250Kg
- Oil tank capacity: 28L
- Oil brand: L-HM46 (prepared by user)
- System hydraulic pressure: 20Mpa
- Power supply: AV380V 1.2KW

Test Software

ZKS TEST (Fig2) is designed especially for penetration test for concrete material under long-term constant pressure according to concerned tests standards. With a more friendly and easy operation interface, this software has a more perfect test resume function when a sudden shutdown is met. And it has a powerful monitor function on test curve and the test curve can be real-time zoomed in .There is also a more powerful function of report creation, and which made multi-route output into a single report possible. This software is written in versions of

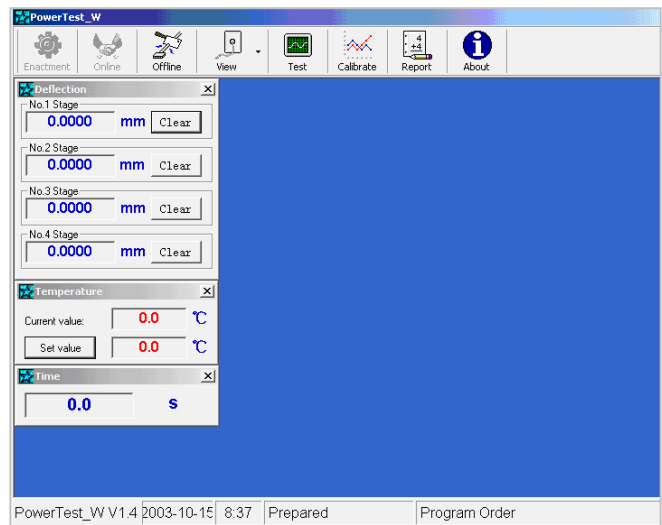


Fig2 Professional TestWare ZKS Test

languages of many countries which is fit for customers all over the world.

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