



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

Window and Door Testing Machine



ZMC series window/door Performance Testing

SANS proprietary ZMC series window/door Performance testing machine (Fig1) brings three kinds composite tests for various windows and doors: waterproof, airproof and anti-wind pressure. Majority utilized in windows and doors manufactures, architecture project quality testing departments, Products quality inspective and testing stations, scientific and research institutes of construction.



Fig1. ZMC series window/door Performance testing machine

Key Features

- Complete automatic control operation process and three kinds performance tests finished one time for anti-wind pressure testing, waterproof testing and airproof tests.
- A/D exchange code of pressure transducer and displacement transducer comes up to ± 56000 . Measurement resolution reaches 0.1pa/ 0.001mm without any separate steps
- DCS-100 full digital closed loop controller of SANS patent invention comes true whole test process controlled automatically.
- Japanese Panasonic servo control system guarantees constant pressure stable, reliable and saving energy.
- Optimized designed structure of static pressure box increases efficiency to install and remove the specimens
- Centralized control spurting system completely complies with standards of rainwater penetration system requirement.
- SANS PowerTest ZMC professional testing software automatically controls full process of test, displays testing state and record testing results. Humanization design of the software is satisfied with your mostly requirements.
- Comply with international testing standards: ISO, ASTM, BS, EN, JIS and so on..

Technical Specifications

	Technical Specifications	
Wind pressure	pa	±5000 (additional one piece pressure transducer:±600pa)
Displacement value	mm	±25
Size of specimen	mm	500 x 500—2400 x 3000(adjustable)
Airproof	Pa	pressure deflection ±500
Waterproof		pressure deflection ±1050Pa, spurting water value: 3L/min.m ²
Dimension of control box (L x W x H)	mm	700 x 500 x 1300
Dimension of loading wind device (L x W x H)	mm	1200 x 1000 x 1400
Dimension of static pressure box (L x W x H)	mm	A: 3415 x 870 x 3360, plane type specimen: 3000 x 2400 B: 3415 x 1150 x 3360,three-dimensional type specimen: 3000 x 2400 C: 4430 x 870 x 3360, three-dimensional type specimen 4000 x 2400

Standard Accessories

Standard Accessories	Quantity
Load frame	1 set
Static pressure box	1 set
Servo motor and controller	1 set

Extension transducer	6 pieces
Pressure transducer	2 pieces
Loading wind device	1 set
Air flowmeter	1piece
Water flowmeter:	1piece
Spurting system	1 set
Electric control box	1 set
Pressure control unit	1 set
SANS PowerTest ZMC professional testing software	1 set
LENOVO noted brand computer	1 set
CANON A4 color jet printer	1 set

ZML series window/door Mechanical Testing

SANS proprietary ZML series window/door Mechanical testing machine (Fig2) mainly performs pull and push fatigue tests of windows and doors. Majority are utilized in windows and doors manufactures, architecture project quality testing departments, products quality inspective and testing stations, scientific and research institutes of construction. complying with international standards requirements.



Fig2. ZML series window/door Mechanical testing machine

Technical Specifications

	Technical Specifications	
Speed of plane window switch	times/min	0-20
Speed of push and pull window switch	m/min	15
Working station stroke	mm	0-900
Load cell		500N , grade 1
Displacement transducer		±60 mm, grade 1
Size of specimen	mm	2400×3000
Dimension of load frame	mm	1200 x 600 x 650/2400 x 2200 x 2200

Standard Accessories

Standard Accessories	Quantity
Load frame	1 set
Testing bracket	1 set
Displacement transducer	1 piece
500N Load cell	1 piece
Digital controller: MCLX5001	1 set
Digital controller: MCLX5002	1 set

ZQD series window/door Corner Strength Testing

SANS proprietary ZQD series window/door corner strength testing machine (Fig3) mainly performs mechanical capacity of PVC-U material and rupture strength of windows and doors corner jointing parts. Majority are utilized in windows and doors manufactures, architecture project quality testing departments, Products quality inspective and testing stations, scientific and research institutes of construction. The system consists of load frame and control box, the load frame equipped with the load cell. Simple test method ensures easy to operate. Comply with international standards requirements.



Fig3. ZQD series window/door corner strength testing machine

Technical Specifications

	Technical Specifications	
Load measurement range	kN	2 –20
Accuracy of load measurement		≤±2%
Maximal power	W	400
Power supply		220V, 50HZ
Dimension	mm	1000 (L) x 480 (W) x 1620 (H)
Weight	Kg	200
Space for specimens setting	mm	580×140×280