

Fully automatic pressure testing machine



Application:

The BK-APT9 testing machine is mainly used for compressive strength testing of bricks, stones, cement, concrete and other materials, as well as compressive performance testing of other materials.

Space adjustment method: Electric lift

Hydraulic system:

The hydraulic oil in the tank drives the high-pressure pump through the motor and enters the oil circuit. It flows through the one-way valve, high-pressure oil filter, differential pressure valve group, and servo valve before entering the oil cylinder. The computer sends a control signal to the servo valve to control the opening and direction of the servo valve, thereby controlling the flow into the cylinder and achieving constant velocity test force control.

Control System:

The system includes digital servo valves, high-precision sensors, controllers and software, with high control accuracy and good reliability. Meet GB, ISO, ASTM and other standards test requirements for cement, mortar, concrete and other materials.

Function

1. With force closed loop control function;
2. Able to achieve equal load rate loading or equal stress rate loading;
3. Use microcomputer to realize electronic measurement and automatically complete tests.
4. The computer automatically calculates the results and prints the report;
5. Test reports can be designed and exported to Excel.

Safety protection device:

When the test force exceeds 3% of the maximum test force, overload protection occurs and the oil pump motor shuts down.

Technical Parameters:

Model	BK-APT9
Max.test force	3000kN
measurement range	4%-100%FS
Relative error	<±1%
Resolution	0.03kN
Size of upper and lower pressure plates	500×500mm
Maximum distance between upper and lower pressure plates	500mm
Piston diameter	φ310mm
Piston stroke	100mm
Consumption	1.1KW
External Size(D*W*H)mm	780×720×1950 mm
Net weight	2500kg