

# Digital Display

## — Compression Testing Machine —

The testing machine is mainly used to measure the compressive strength of brick, stone, concrete and other building materials. It is necessary test and detection equipment for construction, building materials, highway bridges and other engineering units. This machine is electric hydraulic manual loading, sensor force measurement. It has the functions of loading speed display, peak value maintenance, data storage, printing, query and compressive strength conversion. [www.RTCDHAKA.com](http://www.RTCDHAKA.com)

### Hydraulic system:

The hydraulic oil in the oil tank enter the oil circuit through the motor drives the high-pressure pump, flows through the return oil valve, and into the oil cylinder. The force measuring instrument collects and analyzes the data through the sensor, showing the constant force value. The operator through the delivery valve to adjust the flow and control the test force rate.

### System of force measurement

/ Manually adjust the return valve, the operation is simple and flexible.

- \* Has the maximum load peak maintain function.
- \* Has loading rate dynamic display function.
- \* Has a random test report with test date, number, damage load compression strength etc.

### Safety protection

When the test force exceeds 3% of the maximum test force, overload Protection will be implemented and the oil pump motor will stop.



Max load 2000kN	Max load 2000kN
Host structure	Four - column structure
Measuring range	10% to 90%
Relative error of test force indicating Value	Within $\pm 1\%$
Distance between columns	260mm
Distance between up and down pressure plates	320mm
Platen size	Upper: $\phi 250$ mm Lower : 220*220mm
Piston stroke	30mm
Piston action direction control	one-way cylinder
Power supply	380V 50Hz
Motor power	0.75 kW
Package dimensions	About 1100 * 560 * 1380mm
Weight About	600kg

Factory standard configuration list

Item	Quantity	Notes
Testing machine	1 set	With motor, oil pump, return valve
Force measuring instrument	1 set	On the mainframe, and including a micro printer
Pressure sensor	1 piece	
Up and down pressure plates	1 piece	

### Working Environment Conditions of Testing Machine

Ambient temperature range: 10°C–35°C, if have special requirements, the test temperature should be 23°C $\pm$ 5°C.

- 1.Placed on a solid foundation. 2.In a clean environment with no vibration. 3.No strong electromagnetic interference surrounding.
- 4.Power supply voltage fluctuation range should be not more than plus or minus 10%