

DIGITAL COMPRESSION TESTING MACHINE

Stanley Compression Testing Machines have been designed for extreme durability and simplicity of use by any operator at any level for making quality control testing possible.

Compression Testing Machines conform to IS: 14858(2000) and calibrated with an accuracy of $\pm 1\%$ as per the requirement of IS: 1828(Class1). The Stanley CTM are available in capacity options of 1000kN, 2000kN and 3000kN.

The Stanley CTM are available in the following configuration:

- (a). Digital Compression Testing Machine with Manual Pace Rate Control.
- (b). Digital Compression Testing Machine with Automatic Pace Rate Control.

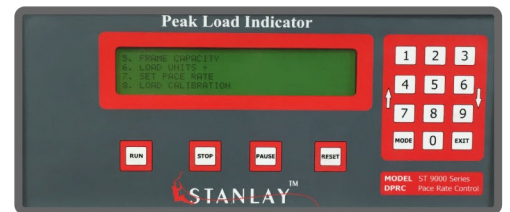
ST 9000 DPRC Digital Compression Testing Machine With Automatic Pace Rate Control:

ST 9000 DPRC Series Micro Controller based Compression Testing Machine is based on an intelligent pace rate controller. This facilitates automatic pace rate control, data logging, data printing, load hold etc. It has a full 3 term PID feedback control which uses a high torque Stepper Motor. It consists of a Loading Unit, an Electrically Operated Hydraulic Pump & an Intelligent Pace Rate Controller. The operation is user friendly with a menu driven interface.



Features:

- Automatic Pace Rate Control at a present value.
- Pace deviation bar graph.
- Automatic stress determination and display.
- Overload safety protection.
- Self aligning platen with fast accessory change capability.
- Operator can predefine machine capacities. Specific capacity can be selected from the drop down menu.
- Direct display of pace rate load & error on controller.
- Peak Load, Peak Stress, Unique Record No. is displayed.
- Conforming to IS: 14858 (2000)
- Menu Driven sample Details. Multifunction Keyboard.
- Data storage 1000 records.
- Data Download through RS 232. Stored records can be viewed & printed.
- 2% overload facility to calibrate the machine upto full capacity.



System Description:

The loading frame has a fully welded construction with a top crosshead, base and solid side walls with a precision ground hydraulic piston fixed to the base. The machine's platens come with a self-aligning action and suitably sized spacers to accommodate a variety of different sizes of specimen.

The **two speed pump** allows the fast approach of the platens, for daylight closure and also allows the automatic, precise control over the load application; a pace rate bar on the display gives operator feedback on the **loading rate**.

The controller incorporates a four line digital display and features the integral load pacing bar display, maximum load and stress result display and a RS 232 output. Results from 1000 completed tests can be stored in the memory and these results can be in English, Metric or SI units. The Calibration range of the machine is from 10% to 100% of the machine capacity, over which range the accuracy is $\pm 1\%$ of the applied load.

Specifications :

SERIES	ST 9000 DPRC
Capacity:	1000kN, 2000kN and 3000kN
Dimension:	700mmX330mmX1100mm
RAM Dia:	165mm, 230mm and 260mm
Sizes for Testing:	Cubes 70.6mm, 100mm and 150mm Cylinders 100mm dia.X200mm height, 150mm dia.X300mm height
Stroke Length:	50mm
Least Count:	1kN
Max. Clearance between platens:	370mm
Data Storage:	1000 Records
Pace Rate control:	Automatic
Data Download (Real Time):	Via Rs 232
LCD Display:	4 line display

Spacer - 1



Dia - 200mm
Height - 30mm

Spacer - 2



Dia - 200mm
Height - 42mm

Spacer - 3



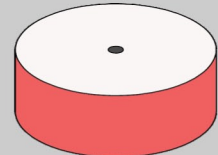
Dia - 200mm
Height - 42mm

Spacer - 4



Dia - 200mm
Height - 95mm

Spacer - 5



Dia - 200mm
Height - 190mm