

# Digital Compression Testing Machine

ZI 2040



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BS 1881-115, BS 1610

The Digital Compression Testing Machine has been designed to meet the need for a simple, economic and reliable means to test concrete for its compressive strength. The design emphasizes simplicity, both of construction and operation, and makes the machine easy to use and maintain. The unit is compact, making it useful for site applications. The digital machines are provided with a pace rate indicator to indicate pace rate on a Bar Graph. With a little experience, the pace rate can be manually adjusted while the test is in progress.

The Complete Unit comprises of:

### LOADING UNIT :

The loading unit is of fully welded construction having a cross head, base and solid plates. The hydraulic jack is fixed to the base. The platens of the machine are hardened, ground and polished. The upper platen is provided with self-aligning action. To facilitate testing of various size specimens, suitable size spacers are provided complete with ball seating arrangement

### PUMPING UNIT :

The two speed pump facilitates rapid approach of the platens for daylight closure and also provides comprehensive control over the application of load. A control valve provides fine control over the loading rate for accuracy of pacing. The digital read-out unit, incorporates a 4-digit display, calibrated in kN and features integral load pacing in kN/sec. Maximum load is held and retained for approx 15 min, unless cancelled, using the panel mounted reset switch. Pace rate set for running the test can be maintained manually with the help of a bar graph indicator. Logged data printing facility through a parallel port interface is provided in the machine. Readings upto 100 complete runs/tests can be stored in the memory.

## **ZEAL INTERNATIONAL**

1, Netaji Subhash Marg, Darya Ganj, New Delhi-110 002 INDIA

Ph.:+91-11-23276114, 23244474, 23277528, 23278846, Fax :+91-11-23273214, 43580558

E-mail : sales@zealinternational.com ,website : zealinternational.com