

# Analogue Compression Testing Machine

ZI 2039



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BS 1881-115, BS 1610

Our Compression Testing Machines are the finest of their type obtainable. The rugged construction and extreme simplicity make it possible for even non-technical personnel to operate them with ease and complete dependability.

### LOADING UNIT:

The loading unit is of fully welded construction having a cross head, base and solid side 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. A ball seating attachment is fixed on the upper platen to test the machine's stability.

### PUMPING UNIT:

The hydraulic pumping unit is:

- Manually Operated or
- Electrically Operated

The loads are measured on Bourdon tube type load gauges which are calibrated against certified load rings. The load gauges are fitted with a maximum load pointer. Both the Pumping units, Manually operated and Electrically operated, are of two-speed design. The two speed pump facilitates fast approach of the platens for daylight closure, thus eliminating the need for the lead screw.

In the Electrically Operated Pumping Units, load gauges are fitted with micro switches to switch-off the motor when the load approaches the maximum capacity of gauge, avoiding any over-loading. Relays are incorporated so that the motor does not restart on its own after a power breakdown. The electrically operated pumping units are provided with a control knob to adjust the pace rate which can be effectively controlled by an experienced operator during the course of testing by observing the progress of the load gauge reading.

## **PORTABLE COMPRESSION TESTING MACHINE**

The equipment consists of a Loading Unit, an integral double acting pumping unit fitted to the base of the machine and a calibrated Load Gauges is fitted with the top. It has a detachable Hydraulic Jack. The hydraulic cylinder is placed on the base of the Loading Unit.

**RANGES :**

50kN to 3000kN.

## **ZEAL INTERNATIONAL**

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