

Product Name :
Compression Testing Machine Analog Single Gauge 1000
KN

Product Code :
CHINAELABC2650080



Description :

Compression Testing Machine Analog Single Gauge 1000 KN

Technical Specification :

Aesthetically designed unit

The electric pumping unit is fixed with a micro switch to switch off the motor automatically as the load on the machine approaches the rated capacity.

The unit is equipped with a 8" dia pressure gauges with maximum red pointer.

Four column high stiffness and high stability fully welded construction of the loadframe.

Construction Details

The compression testing machine consists of separate pumping unit and loading unit.

Detailed descriptions of both the devices are narrated below.

Loading Unit

The upper platen has got a self aligning action and is attached to a rigid cross head plate.

The lower platen rests on the jack ram and is positioned with the help of a centering pin.

Loading is accomplished by upward movement of lower platen.

A dust cover is provided on the jack to prevent any dust from going into the cylinder.

A spacer with a centering locating pin is provided to test small specimens.

The lower and upper platens of the machine are hardened ground and polished.

Pumping Unit

The pumping unit is a separate unit connected to the jack by means of a high pressure hose pipe.

A junction box is suitably fixed to connect the motor to the mains through a push button starter.

Calibrated against N.P.L. Tested Master Gauge or Proving Ring.
A max red pointer is provided to facilitate taking readings after failure of the specimen.
The pressure gauge is fixed at an Angle for easy readability.

Scope of supply

High strength rigid structure (Loading Frame)

Pumping unit (Oil source cabinet)

Pressure gauge

Pair of compression platens

High pressure hose pipe

Platen size in mm: 200 mm dia

Ram Dia in mm: 165 mm

Ram Travel in mm: 50 mm

Vertical daylight in mm: 300 mm

Horizontal daylight in mm: 300 mm

Weight approx in kg: 356 kg

Platen hardness: More than 550 Vickers hardness

Electric Motor: 1 HP, single Phase

Operation on: 220 V AC single Phase.

Least count: 0.5% of the full load

Pumping: Motorized

Pump Speed: Dual speed

Motor: Induction Motor

Reading: Analog

Accuracy: $\pm 2\%$

Release valve operation: Required

Auto stop after failure of specimen: Not available, need to stop the machine manually

Auto Release of Pressure after specimen failure: Not Available, Need to release pressure manually after the completion of test

Calculation of result: Manual

Holding of Max.Load: Available

Pace Rate or Rate of Loading indication: Not Available

Operator skill to control Pace Rate: Not Applicable

Bar Graph: Not Available

Multi Channel operation: Not Available

Load indication and Control: Manual

Saving of records: Not Available

Pen drive slot: Not Applicable

Real time graph: Not Applicable

Printer interface (Direct connectivity to printer w/o computer): Not Applicable

Computer operation software and data Acquisition software: Not Applicable

Displacement controlled operation: Not Available

Modulus of Elasticity Calculation: Not Available

Flexural attachment: Possible, all calculations will be made manually

Splitting Tensile Test: Possible but manual calculation required

LAN Connectivity: Not Available

Auto internal Calibration without proving ring: Not Available

Piston over travel safety cut off: Not Available

Over load safety cut off: Available

Shot circuit protection: Available



Engineering Lab China