

Product Name :
Automatic Compression Testing Machine For Testing Lab for Concrete Testing Lab

Product Code :
NCOT-C33



Description :

Automatic Compression Testing Machine for Concrete Testing - The Automatic Compression Testing Machine is a fully automated version of the manual / semi automatic Compression Testing Machine. The machine is available in 500kN, 1000kN, 2000kN, 3000kN, 5000kN Ranges. It has provision for automatically turning the pump on and off, controlling the set pace rate and switching the machine off under predetermined conditions. The Control release the pressure at the end of every run and reinitializes the machine at the beginning of every test. The pace rate is maintained by means of full three term PID feedback control using high torque stepper motors and drivers sets. Data acquisition, storage, management and analysis are all fully automated. The load resolution is for is 0.1kN for machines upto 1000kN capacity & 1.0kN for the 2000kN, 3000kN & 5000kN Machines.

The complete unit comprises of:

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 complete with ball seating arrangement.

Pumping Module : This has a two-speed hydraulic motor driven pump and a bonded strain gauge based pressure transducer.

Digital Head :

This contains all the electronic system for controlling the pace rate, acquiring and storing test-data, communicating with the computer and operating the load-release motor.

RS 485 to RS 232 Converter : This convert data transmitted by the digital head to a form recognized by the computer.

The system is compatible with any computer with the following:

P-IV and above, 1.9Ghz
256 Mb RAM
Intel Chipset with on-board graphics card.
40 GB HDD
1.44MB FDD & CD ROM DRIVE
Standard Keyboard
1 Serial Port
1 Parallel Port
Printer HP 5550 or latest
UPS APC 500 VA or equivalent

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