

# Compression Testing Machine

## Test Concrete Strength

The Compression Testing Machine is intended to meet requirements of consistent means to check concrete block for its compressive strength. Vasundhara is a leading company in the field of fully automatic CTM with enhanced digital display features. Different variants of CTM are calibrated as per NCB standardization. Deployed to test concrete cube, beam and cylindrical cubes, the machine plays an important role in identifying quality control for concrete. The compression testing machine also aids evaluation and implements concrete strength tests with good accuracy.

### » Fully Automatic CTM with Auto Pace Rate Control



## Principle of Operation of Compression Testing Machine :

Vasundhara's PLC based CTM has a three-phase induction motor controlled by PLC based circuitry. This facilitates

- ▶ Automatic pace rate control
- ▶ Data logging
- ▶ Data printing
- ▶ Load hold

### Assorted Features :

- Inbuilt SCADA with user friendly or operator friendly operating software.
- Automatic test cycle with standard rapid approach.
- Load v/s time plot and instantaneous load rate Displayed on software screen.
- Advanced software for test control and report generation within seconds.
- Data Acquisition and Control System.
- Ergonomic Design & Self aligning platen
- Safety limit switch to provide a limit to forwarding stroke of RAM/Cylinder.
- Max pressure valve to avoid machine overloading.
- Software controlled maximum load value.
- Convenient display of parameter values (load, stroke, and elongations) through real time curves.
- User safety feature like metal door.
- Automatic pace-rate control.
- Loading Accuracy as high as  $\pm 1\%$  F.S.V.

It consists of loading unit, an electrically operated hydraulic pump, and an intelligent pace rate control. The two-speed pump allows fast approach of platens, for daylight closure and allows automatic, precise control over the load application. The operation is user friendly with menu driven interface.

## Additional Features :

- Accurately calibrated dial gauge
- CTM SCADA software to generate report on Site/Lab
- Server based support for testing report
- Precise display to eliminate human errors
- Uniform pace rate as per control knob

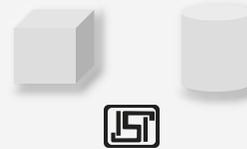
### » Semi Automatic CTM with Pace Rate Control



- Power Breakdown Protection for Motor and Other Components
- Current pressure and peak breaking pressure is displayed on digital display
- PLC based circuitry to control motors, which achieve precise pressure and accurate reports
- Auto / Manual Control and release valve operation

## Advantages :

- Wider range of test force measurement
- Long term use
- Compact design
- Rust resistant
- High reliability
- Low maintenance
- Data Backup facility



Standard Size



Capacities

Batching Report   Soil Compactor   CTM Report   Curing Report   Tipper Report

Today's: --   This Week: 21   Total: 665.5

Select Plant ID: 45514-Universal Sales Corporation

Show: 10 entries   Search: Type to Search...

Date	Production Quantity
2018-07-07	5
2018-07-05	3
2018-07-04	1
2018-07-03	2
2018-07-02	5
2018-07-01	3.5
2018-06-30	1.5
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2018-05-25	0.5
2018-05-02	1

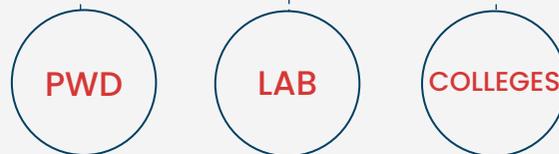
Showing 1 to 10 of 25 entries

### » Web Base Analysed Data Available



Safety Limit Switch for RAM

## CTM SCADA



Authorized System Integrator for PWD MH

### » Digital Display CTM with Manual Pace Rate Control



## Why choose Vasundhara?

We manufacture a range of CTM machines for testing the strength of concrete cubes. We consider continuous self improvement and strive to help our customers to find the right solution for their problems and solve them effectively. We attract and retain our clients with our excellent services.



**Vasundhara IT Pvt. Ltd.**  
Service is Our Strength



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