

## Semi- Automatic Concrete Compression Machine , 1500KN

This machine is designed and produced to determine compression, split and flexural strength. Welded steel frame of machine designed by CANTROL features heavy duty, rigid, distortion-resistant frame to meet or exceed recommendation for rigidity of ACI 3683 and ASTM C39. All electrical and electronic parts and their safety wiring can be passed the CSA and UL standards requirements.

**Models: 2415011 and 2412012**

### Standards:

ASTM C39,C78  
C109,C293  
C469,C496  
AASHTO T22  
BS 1377:8, 1377:7  
EN 123390-4

### This machine consist of:

- 1- Capacity:1500KN, 0.1KN ( 330Klbf) accuracy. used for up to150\*150 mm cube and 6"\*12" concrete cylinder samples.
- 2- TFT, Full Color, 7" Touch Screen , UL Approved made by Fatek Co.
- 3- Electronic Hardware: all PLC's made by FATEK Co, UL Approved.
- 4- User friendly software designed by CANTROL.
- 4 Selectable standard units, N, Lbf, Kg
- 5- knob- controlled uniform and adjustable Pace Rate ( 0KN-30KN/Sec), volume of hydraulic (cm<sup>3</sup>/sec) is controlled easily by knob divided between 1-10 digits. A Tool Bar displayed on indicator helps the user to adjust the preset pace rate accurately.
- 6- User friendly large displaying of Force, Dimensions of specimens, test results.
- 7- RS232 Serial port to communicate with PC, Cable is included.
- 8- Able to save all data in history by USB port.
- 9- Able to take screen shot which can be save with USB Port.
- 10- Overload can be set up to 1500KN, and controlled by software for safety.
- 11- Ten set-point calibration method by software which is more accurate than one set point.
- 12- Able to calculate compression strength based on sample dimension and save the data in internal memory and USB for up to 500 tests.
- 13- Able to draw force - time and strength- time in EXCEL format in PC.( software is included).
- 14- Front and rear fragment plexi glass guard doors (8mm thickness) with door locking switch to cut off main when doors are open.
- 15- Power Pack: Dual, low and high pressure axial piston pump( plungers made by Bosch Co., (600 bar), 18 liter capacity oil hydraulic tank, with oil level indicator.
- 16- 600 bar high quality and accurate S.Steel Pressure Transmitter, made by WIKA, Germany.
- 17- Piston stroke is 50mm, protected by micro-switch for over limitation of piston stroke.
- 16- Piston is hardened and grinded for longer service life, PTFE sealed and guided in cylinder.
- 18-Upper and lower platens which are hardened (55Rc or more) and grinded surfaces for longer service life., Dia 165mm (6.5").
- 19- Heavy-duty spherical seat, machined accurately by CNC lath machine, in lubricant oil bath.
- 21-Lower platen has concentric circles for easier centering of specimens meet the standard.
- 22- completed with two steel spacers, set of 2 pcs.
- 23- Heavy Steel Pedestal: for user's placement of specimens in the frame easily and ergonomically.
- 24- Model 2415011, 110V, 60Hz. Model 2415012, 220V, 50Hz.
- 24- Dimension :700\*390\*1200mm
- 25- Weight: 420 kg(930Lb.)

