

UNIFRAME SERIES ELECTROMECHANICAL UNIVERSAL TESTERS, 50 - 100 KN CAP.

Introduction

The **UNIFRAME** universal automatic flexural and compression tester is a large machine for displacement and load controlled tests. The main advantage of this machine is its high flexibility as a general purpose testing system, ensured by its generous dimensions which allow the placement of an extensive range of accessories, and the software. A wide range of tests can be performed: CBR, Marshall, Triaxial, Flexural tests on concrete beams and tiles, Unconfined compression, punching tests and many more.

Description

This model features a robust and compact two-column frame which is fitted with an upper crossbeam that can be set at various heights depending on the accessories to be used. The jack is driven by a DC motor controlled by the microprocessor.

The load jack, DC motor and controls are housed in an ergonomic cabinet. **Closed-loop** control ensures reliable test execution both with displacement and load applications. No external transducer is required for displacement measurement. Sample failure is detected automatically and stops the test. Alternatively this feature can be disabled and a travel or time limit can be set instead.

This model is equipped with **adjustable limit switches**, mounted on one column. An **handlewheel** is used to manually move the the platen during calibration procedure so that the load can be maintained constant with good precision. This facility can be used for the calibration of any load cell present in the laboratory and not only for the one supplied with the machine.

Software user-interface allows the setting of speed/load and travel/load limits, data format download and graph settings, and saving of pre-set test procedures (up to 10 profiles can be saved in the internal memory of the machine).

The firmware allows performance of up to four transducer calibrations (two load cells and two potentiometric linear transducers), saving data onboard. A real-time test graph and transducer data are displayed on the touchscreen.

The front panel is fitted with an emergency button for prompt stopping of the machine. Test data can be stored on a USB pen drive or downloaded through LAN communication port in Controls, txt or ASCII format.

All accessories have to be ordered separately.



UNIFRAME SERIES ELECTROMECHANICAL UNIVERSAL TESTERS, 50 - 100 KN CAP.**FEATURES**

- Stand-alone automatic digital load frame
- Universal machine suitable for a wide range of tests
- Closed-loop speed/load control
- Automatic failure detection
- Four channel onboard data acquisition
- Integrated transducer calibration facility
- Infinitely variable speed from 0.05 to 51 mm/min
- Large touchscreen display for viewing real-time graph and test data
- CBR and Marshall test automatic control facility
- Adjustable travel limit devices
- Rapid approach and return functions ensure test time savings
- CE emergency stop button

ACCESSORIES**50-C0050/CAL**

Special calibration of load digital readout unit assuring class 1 from 1% of testing machine full scale (maximum load)

82-P0374

25 kN capacity strain gauge load cell

70-SW/CMS

PC software for Marshall, CBR, Indirect Tensile and universal test. When used with 34-V117X, 70-T108X, T118X and T119X, also suitable for SCB (to EN 12697-44, ASTM D8044 and AASHTO TP124), IDEAL-CT and Leutner SBT tests. ...

82-P0370

2.5 kN capacity strain gauge load cell

82-P0373

10 kN capacity strain gauge load cell

82-P0375

50 kN capacity strain gauge load cell

82-P0375/C

Connecting adapter load cell/cross head

82-P0376/E

100 kN capacity load cell with adapters for 70-T1192 UNIFRAME tester

ORDERING CODE**70-T1182/T**

UNIFRAME automatic compression/tension testing machine with two-column structure and adjustable crossbeam - Loading capacity: 50 kN compression; 25 kN tension - Clearance between columns: 380 mm - 230V/50-60HZ/1Ph

70-T1082

UNIFRAME automatic compression testing machine with two-column structure and adjustable crossbeam - Loading capacity: 50 kN - Clearance between columns: 270 mm - 230V/50-60HZ/1Ph

70-T1084

UNIFRAME automatic compression testing machine with two-column structure and adjustable crossbeam - Loading capacity: 50 kN - Clearance between columns: 270 mm - 110V/60HZ/1Ph

70-T1182

UNIFRAME automatic compression testing machine with two-column structure and adjustable crossbeam - Loading capacity: 50 kN - Clearance between columns: 380 mm - 230V/50-60HZ/1Ph

70-T1184

UNIFRAME automatic compression testing machine with two-column structure and adjustable crossbeam - Loading capacity: 50 kN - Clearance between columns: 380 mm - 110V/60HZ/1Ph

70-T1192

UNIFRAME automatic compression testing machine with two-column structure and adjustable crossbeam - Loading capacity: 100 kN - Clearance between columns: 456 mm. 230V/50-60HZ/1Ph

70-T1194

UNIFRAME automatic compression testing machine with two-column structure and adjustable crossbeam - Loading capacity: 100 kN - Clearance between columns: 456 mm. 110V/60HZ/1Ph

70-T1184/T

UNIFRAME automatic compression/tension testing machine with two-column structure and adjustable crossbeam - Loading capacity: 50 kN compression; 25 kN tension - Clearance between columns: 380 mm - 110V/60HZ/1Ph





