MULTISPEED DIGITAL AUTOMATIC UNIVERSAL TESTER FOR DISPLACEMENT CONTROLLED TESTS

Introduction

The new **MULTISPEED** tester is the ideal solution for Road testing laboratory. The 50 kN capacity and the fully variable test speed of 0.2 to 51 mm/min make it possible to perform not only the CBR and Marshall tests, but many other applications as for instance Indirect Tensile test, Quick Triaxial tests, Unconfined and Uniaxial soil testing and, in general, all test to be performed under displacement control. The machine can be equipped with analogical or digital load/displacement measurement systems as well as with the specific accessories, to suit either the field or central laboratory requirement.

Description

The **MULTISPEED** tester feature a rigid two column structure with upper cross beam which can be set at various height. The load jack, DC motor and controls are housed in a specially designed base cabinet. When fit in the digital mode, test data are acquired and processed by the Digimax or by other similar instruments.

One of the main features of the new MULTISPEED is the control of test speed which is first easily set and then shown on the display. Furthermore, the test stroke can be set at the beginning of the test with automatic stop, avoiding to overload the machine and the specimen, thus assuring the operator safety. This important feature also permit to perform the speed calibration of the machine by micrometric manual adjustment by the operator. The display also show the travel direction of lower platen. The front panel is also fitted with an emergency button and two operating led: machine switched on and travel direction.

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SPECIFICATION

- **Max. capacity:** 50 kN

- **Test speed** range, infinitely variable: 0.2 to 51 mm/min
- **Power:** DC motor 750 W
- **Horizontal clearance** (distance between columns): 270 mm
- **Max. vertical daylight** (without accessories): 730 mm
- **Platen travel:** 100 mm
- **Overall dimensions** (lxwxh): 392 x 495 x 1213
- **Net weight approx.**: 65 kg
- **Alphanumeric display** 2x16 characters

STANDARDS

- ASTM D1559
- ASTM D5581
- AASHTO T245
- EN 12697-12
- EN 12697-23
- EN 12697-34
- AASHTO T193
- NF P98-251-1/4
- ASTM D6927
- ASTM D1883
- BS 1377:4
- BS 598:107
- EN 13286-47
- UNI 10009
- NF P94-078
- DIN 1996
- CNR 30
- CNR 34

FEATURES

The firmware provide the digital speed control and a number of important test functions as follows:

- **Closed loop** speed control
- **CBR** and **MARSHALL** test speed can be selected by default.
- Other testing **speeds** (Custom) between **0.2 and 51 mm/min**, can be easily set.
- **Selection of maximum platen displacement.**
- **The automatic stop** of the machine avoids machine and specimen overloading, thus assuring **operator safety.**
- **Rapid approach function**, to reduce the testing time.
- **Rapid platen return** to speed up the platen base return at the end of the test.
- **Speed calibration function by firmware.** The test speed is originally factory calibrated using a polynomial interpolation. A test point is provided to verify the speed with a standard tachometer.
- **Emergency stop button** as required by the **CE** prescriptions.

ACCESSORIES

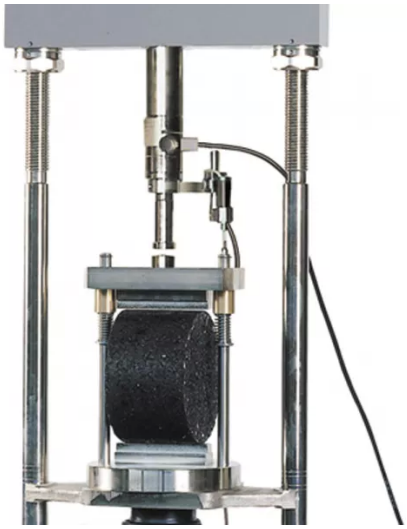
82-P60R02

DIGIMAX - Four channel readout and processing unitfor load and displacement sensors, up to two channels can be used contemporaneously. Suitable for Marshall, CBR and general purpose test. 110-240V, 50-60Hz, 1 ph.

ORDERING CODE

34-V1072

MULTISPEED compression testing machine with digital control panel, motorized ram, two-column structure and adjustable crossbeam. 220-240V/50-60Hz/1Ph

34-V1074

MULTISPEED compression testing machine with digital control panel, motorized ram, two-column structure and adjustable crossbeam. 110V/50-60Hz/1Ph