



EN 12390-4 SEMI-AUTOMATIC COMPRESSION TESTING MACHINES FOR CUBES AND CYLINDERS

Product Code

UTC-5727.SLP	2000 kN EN 12390-4 Semi-Automatic Compression Testing Machines for Cubes and Cylinders
UTC-5737.SLP	3000 kN EN 12390-4 Semi-Automatic Compression Testing Machines for Cubes and Cylinders
UTC-0210	High Precision Pressure Transducer and Electronic
UTC-4682	Pedestal for 2000 kN and 3000 kN Compression Testing Frames

Models for 220-240V 50-60 Hz, 1 ph.

UTC-5727.SLP	UTC-5737.SLP
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Models for 110-120V 60 Hz, 1 ph.

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Product Code

ASTM C39; AASHTO T22

UTC-5727.SLP and UTC-5737.SLP models Semi-Automatic Compression Testing Machines are manufactured for compression testing of cubes and cylinders acc. to EN standards.

These machines also meet the requirements of CE norms with respect to the health and safety of the operator. And their user-friendly design enable an inexperienced operator to perform the test.

The Semi-Automatic Compression Machines consist of a welded frame (see table), hydraulic power pack (UTC-4820) with LPI battery operated digital readout unit (UTC-UTC-4920LP).

UTC-4682 Pedestal that is made of steel to facilitate the user's placement of specimens in the frame for compression test should be ordered separately.

Main Features

- Class A starting from with the 5% of the machine capacity, (Special calibration option starting from 1% of the full range with UTC-0210)
- 1 channel with two different calibration table, test parameters and specimen information (by changing the sensor belong to other frame, the unit can be control for second test frame)
- Multi-point calibration
- Real time numeric display of load and load pressure
- Supplied with factory calibration certificate for force transfer stability and the self-alignment of the upper loading platen conforming to EN 12390-4
- Welded steel walled frame with lower and upper (spherically-seated) loading platens
- Load measurement with a pressure transducer
- Hydraulic pump with dual stage for rapid approach
- RS232 Serial port for PC or thermal or dot matrix printer
- Free of charge Utest software for compression/flexure testing machines(USOFT-4820.SLP) for compression, flexure, splitting tensile strength tests of construction materials such as concrete, cement, brick/masonry units



UTC-5727.SLP for Pedestal

Safety Features

- Maximum pressure valves to avoid machine overloading
- Limit switch for piston stroke
- Removable transparent front and rear safety doors

USOFT-4820.SLP Test Software is improved for semi-automatic concrete compression and flexural testing machines with LPI Battery Operated Digital Readout Unit during the test to collect and record data and to prepare the report containing the results obtained. Before the test, a PC which the Utest software is installed is connected to RS232 port of LPI reading unit, the data obtained in the test can be monitored and recorded in real time. The advanced functions for data base management provide an easy navigation of all saved data. Test report including the test results and user defined test information (names and the Company details, test type, specimen type, user info and other knowledge required) can be print out.

EN 12390-4 SEMI-AUTOMATIC COMPRESSION TESTING MACHINES FOR CUBES AND CYLINDERS

Models	UTC-5727.SLP	UTC-5737.SLP
Capacity	2000 kN	3000 kN
Frame Type	Welded Steel	Welded Steel
	Ø 300 mm	Ø 300 mm
Upper Bearing Block, (With Spherically Seating Assembly) Dimensions (C)	Ø 300 mm	Ø 300 mm
Surface Hardness of Bearing Blocks	53 HRC	53 HRC
Flatness Tolerance	0,03 mm	0,03 mm
Piston Diameter	250 mm	300 mm
Piston Stroke	50 mm	50 mm
Maximum Vertical Clearance Between Bearing Blocks (E)	350 mm	350 mm
Horizontal Clearance (B)	360 mm	415 mm
For Cubes Specimens Sizes	200 mm (**)	200 mm (**)
For Cylinder (up to) Specimens Sizes	Ø160x320mm	Ø160x320mm
Power	550 W	550 W
Oil Capacity	20 L	20 L
Maximum Working Pressure	410 Bar	410 Bar
Dimensions (w×l×h) (A×d×xF)	750x455x1145 mm	805x500x1205 mm
Weight	820 kg	1060 kg
Pedestal (Optional)	UTC-4682	UTC-4682

(d*) Depth (**) Limited by capacity of the frame

The machines for cubes and cylinders are supplied complete with;

- 100 mm, 50 mm, 30 mm height x Ø205 mm distance pieces
- UTC-4622E - Fixture for Centering Specimens, compatible with Ø300 mm lower loading platen for 100 mm and 150 mm cubes, Ø100 mm and Ø150 mm cylinders
- Removable transparent front and rear safety doors

Appropriate Distance piece/s for the cylinder and cube specimens with the height of lower than 150mm should be ordered separately.



UTC-5737.SLP