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AUTOMATIC COMPRESSION TESTING MACHINES - EN

EN 12390-4 and EN 772-1 AUTOMATIC FOUR COLUMNS COMPRESSION TESTING MACHINES FOR MASONARY UNITS, CUBES AND CYLINDERS

Product Code

UTC-6729.FPR 2000 kN EN 12390-4 and EN 772-1 Automatic Four Column Testing Machines

for Masonary Units, Cubes and Cylinders

UTC-6739.FPR 3000 kN EN 12390-4 and EN 772-1 Automatic Four Column Testing Machines

for Masonary Units, Cubes and Cylinders

UTC-6749.FPR 4000 kN EN 12390-4 and EN 772-1 Automatic

Four Column Testing Machines

for Masonary Units, Cubes and Cylinders

UTC-6759.FPR 5000 kN EN 12390-4 and EN 772-1 Automatic

Four Column Testing Machines

for Masonary Units, Cubes and Cylinders

UTC-0210 High Precision Pressure Transducer

and Electronic

UTC-4684 Pedestal for 2000 kN and 3000 kN Compression

Testing Frames with Four Column

UTC-4686 Pedestal for 4000 kN and 5000 kN Compression Testing Frames with Four Column

Standards

EN 12390-4, EN 772-1

UTC-6729.FPR, UTC-6739.FPR, UTC-6749.FPR and UTC-6759.FPR models Automatic Compression Testing Machines are manufactured for compression testing of masonary units, 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.

The machines allow inexperienced operators to perform the test. Once the machine has been switched on and the specimen is positioned and centered by the help of fixtures or/and concentric centering lines of lower loading platen, the only required operations are;

- Setting test parameters, including pace rate (only required when the specimen type is changed).
- Pressing the START button on the control unit.
- The machine automatically starts the rapid approach, when the specimen touches the upper platen the rapid approach is ended and starts loading at the pace rate that selected by user and stops once the specimen fails.
- Automatically saves the test parameters and test results.

The Machines consist of a welded steel frame (see table) and UTC- 4830FPR automatic hydraulic power pack with U-Touch PRO Control Unit.

UTC-4684 and UTC-4886 Pedestals that are made of steel to facilitate the user's placement of specimens in the machines for compression test should be ordered separately.

Safety Features

- Maximum pressure valves to avoid machine overloading Limit switch for piston stroke
- Emergency stop button
- Removable transparent front and rear safety doors
- Software controlled maximum load value



UTC-6749 with UTC-4682

Main Features

- Pace Rate control between 1 kN to 25 kN
- Accuracy Class 1 starting from with the 5% of the machine capacity, (Special calibration option Class 1 starting from 1% of the full range with UTC-0210)
- Supplied with factory calibration certificate for force transfer stability and the self-alignment of the upper loading platen conforming to EN 12390-4
- Tests automatically with closed loop control
- The tests can be performed by controlling the machine either on U-Touch PRO control unit (UTC-4930.FPR) or on a computer with using free UTEST Software (USOFT-4830.FPR) which is provided free of charge with the machines.
- Load measurment with a pressure transducer
- Hydrolic pump with dual stage for rapid approach
- Welded steel walled frame a single acting piston
- Piston return at the end of test automatically









Compression and Flexural Testing Machines

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AUTOMATIC COMPRESSION TESTING MACHINES - EN



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U-Touch PRO Control Unit

U-Touch PRO Control Unit UTC-4930.FPR is designed to perform automatically compression, flexure and splitting tensile strength tests of construction materials such as concrete, cement mortar, masonary units/blocks by controlling the Utest automatic compression / flexure testing machines.

All the operations of U-Touch PRO are controlled from the front panel touch screen display.

U-Touch PRO Control Unit has easy to use menu options. It displays all menu option listings simultaneously, allowing the operator to access the required option in a seemless manner to activate the option or enter a numeric value to set the test parameters. Digital graphic display is able to draw real-time "Load vs. Time", or "Stress vs. Time" graphics.

PLEASE see the pages of "U-Touch PRO Control Unit for Automatic Compression/Flexure Testing Machines" for details of the properties.

UTEST Software

UTEST software USOFT-4830.FPR provides to perform automatically compression, flexure and splitting tensile strength tests of construction materials such as concrete, cement mortar, masonary units/blocks by controlling the Utest automatic compression / flexure testing machines. The advantages of performing tests on computer with using UTEST Software, such as reporting, graphical output, etc. can be seen in detail at the pages of UTEST Software for Automatic Compression / Flexure Testing Machines.

Optional Additional Frame

For compression and especially flexural testing, additionally second testing frame should be ordered separately.

In this case, the machines provide load control of two seperate testing frames with closed-loop P.I.D control with automatic test procedure by using selecting test channel And additional selector valve.

Models	UTC-6729.FPR	UTC-6739.FPR	UTC-6749.FPR	UTC-6759.FPR
Capacity	2000 kN	3000 kN	4000 kN	5000 kN
Frame Type	Four Column	Four Column	Four Column	Four Column
Lower Bearing Block, Dimensions (D)	310x510x50 mm	310x510x50 mm	310x510x50 mm	310x510x50 mm
Upper Bearing Block, (With Spherically Seating Assembly) Dimensions (C)	310x510x50 mm	310x510x50 mm	310x510x50 mm	310x510x50 mm
Surface Hardness of Bearing Blocks	55 HRC	55 HRC	55 HRC	55 HRC
Flatness Tolerance	0,03mm	0,03mm	0,03mm	0,03mm
Piston Diameter	300 mm	350 mm	400 mm	450 mm
Piston Stroke	50 mm	50 mm	100 mm	100 mm
Maximum Vertical Clearance Between Bearing Blocks (E)	330 mm	330 mm	520 mm	520 mm
	Ø160x320 mm	Ø160x320 mm	Ø250x500 mm (**)	Ø250x500 mm (**)
For Cubes (up to) For Masonary Units (up to)	300 mm (**)	300 mm (**)	300 mm (**)	300 mm (**)
For Masonary Units (up to)	300x500 mm (**)	300x500 mm (**)	300x500 mm (**)	300x500 mm (**)
Power	750 W	750 W	750 W	750 W
Oil Capacity	20 L	20 L	20 L	20 L
Maximum Working Pressure	410 Bar	410 Bar	315 Bar	350 Bar
Dimensions (wxlxh) (Axd*xF)	960x560x1100 mm	1050x690x1150 mm	1145x825x1540 mm	1235x640x1555 mm
Weight	1110 kg	1625 kg	2640 kg	3345 kg
Pedestal (Optional)	UTC-4684	UTC-4684	UTC-4684	UTC-4684

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

The machines for masonary units, cubes and cylindrs are supplied complete with;

- •100mm, 50mm, 2x30mm height x Ø205mm distance pieces (two pcs. each for UTC-6749 and UTC-6759)
- UTC-4626E Fixture for centering specimens, compatible with 310x510x50 mm lower loading platen, for 100 mm and 150mm cubes and Ø100 mm and Ø150 mm cylinders (for UTC-6729 and UTC-6739)
- UTC-4627E Fixture for centering specimens, compatible with 310x510x50 mm lower loading platen, for 150mm and 250mm cubes, Ø150mm and Ø250mm cylinders for UTC-6749 and UTC-6759
- Scissor Jack for Loading Platens/Bearing Blocks (UTC-4629)
- Removable transparent front and rear safety doors

Appropriate distance piece/s for the cylinder and cube specimens with the height of lower than 150 mm should be ordered separately for UTC-6729.FPR and UTC-6739.FPR







