

EN 772-1 and GENERAL PURPOSE SEMI-AUTOMATIC COMPRESSION TESTING MACHINES WITH WELDED WALLS FOR MASONARY UNITS/BLOCKS, CYLINDERS AND CUBES

Product Code

UTC-4609EG.SLP	600 kN Semi-Automatic Compression Testing Machines for Masonary Units/Blocks, Cylinders And Cubes
UTC-4709EG.SLP	1100 kN Semi-Automatic Compression Testing Machines for Masonary Units/Blocks, Cylinders And Cubes
UTC-0210 UTC-4682	High Precision Pressure Transducer and Electronic Pedestal for 2000 kN and 3000 kN Compression Testing Frames with Welded Walls

Product Code

EN 772-1

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

UTC-4714GE.SLP	UTC-4729GE.SLP	UTC-4739GE.SLP
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Models for 110-120V 60 Hz, 1 ph.

UTC-4714GE.SLP-N	UTC-4729GE.SLP-N	UTC-4739GE.SLP-N
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UTC-4609E.SLP and UTC-4709E.SLP models Semi-Automatic Compression Testing Machines are manufactured for compression testing of masonry units/blocks, cylinders and cubes.

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-4920LP).

UTC-4682 Pedestal for the frames of the machines should be ordered separately.

Safety Features

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



UTC - 4709EG.SLP

Main Features

- Load Accuracy Class 1 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
- Peak hold property
- 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

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Models	UTC-4714GE.SLP	UTC-4729GE.SLP	UTC-4739GE.SLP
Capacity	1500 kN	2000 kN	3000 kN
Frame Type	Welded Steel	Welded Steel	Welded Steel
Bearing Platens Dimensions (D)	220x410x50 mm	310x510x50 mm	310x510x50 mm
Upper Bearing Block, (With Spherically Seating Assembly) Dimensions (C)	220x410x50 mm	310x510x50 mm	310x510x50 mm
Surface Hardness of Bearing Blocks	55 HRC	55 HRC	55 HRC
Flatness Tolerance	0,05 mm	0,05 mm	0,05 mm
Piston Diameter	230 mm	250 mm	310 mm
Piston Stroke	50 mm	50 mm	50 mm
Maximum Vertical Clearance Between Bearing Blocks (E)	340 mm	330 mm	330 mm
Horizontal Clearance (B)	320 mm	360 mm	415 mm
Blocks/Masonry (Up to) Sizes for Specimens	up to 200x400mm masonry units/blocks	up to 300x500mm masonry units/blocks	up to 300x500mm masonry units/blocks
Cubes (Up to) Sizes for Specimens	200 mm (**)	200 mm (**)	200 mm (**)
Cylinders (Up to) Sizes for Specimens	up to Ø160x320 mm cylinders	up to Ø160x320 mm cylinders	up to Ø160x320 mm cylinders
Power	550 W	550 W	550 W
Oil Capacity	20 L	20 L	20 L
Maximum Working Pressure	370 Bar	410 Bar	410 Bar
Dimensions (wxlxh) (AxD*xF)	780x451x1104 mm	720x600x1144 mm	775x600x1204 mm
Weight	690 kg	850 kg	1070 kg
Pedestal (Optional)	UTC-4682	UTC-4682	UTC-4682

(d*) Depth

(**) Limited by capacity of the frame

The machines for blocks, cubes and cylinders are supplied complete with;

- 100 mm, 50 mm, 30mm height x Ø165 mm distance pieces (plus 15 mm x Ø165 mm for UTC-4714GE)
- Lifting Device for Lower Loading Platen (UTC-4629)
- Removable transparent front and rear safety doors

