

ASTM & AASHTO SEMI -AUTOMATIC COMPRESSION TESTING MACHINES FOR CYLINDERS

Product Code

UTC-4601. SLP	600kN (135000 lbf) Semi-Automatic Compression Testing Machines with Ø105 mm Bearing Blocks for Cylinders, ASTM & AASHTO
UTC-4701. SLP	1100kN (245000lbf) Semi-Automatic Compression Testing Machines with Ø105 mm Bearing Blocks for Cylinders, ASTM & AASHTO
UTC-4602.SLP	600kN (135000 lbf) Semi-Automatic Compression Testing Machines with Ø165 mm Bearing Blocks for Cylinders, ASTM & AASHTO
UTC-4702.SLP	1100kN (245000lbf) Semi-Automatic Compression Testing Machines with Ø165 mm Bearing Blocks for Cylinders, ASTM & AASHTO
UTC-4712. SLP	1500 kN (335000 lbf)Semi-Automatic Compression Testing Machines with Ø165 mm Bearing Blocks for Cylinders, ASTM & AASHTO
UTC-4722. SLP	2000 kN (450000 lbf) Semi-Automatic Compression Testing Machines with Ø165 mm Bearing Blocks for Cylinders, ASTM & AASHTO
UTC-4732. SLP	3000 kN (670000 lbf) Semi-Automatic Compression Testing Machines with Ø165 mm Bearing Blocks for Cylinders, ASTM & AASHTO
UTC-0210	High Precision Pressure Transducer and Electronic
UTC-4680	Pedestal for 600kN (135000 lbf) and 1100kN (245000lbf)
UTC-4682	Pedestal for 1500 kN (335000 lbf), 2000 kN (450000 lbf) and 3000 kN (670000 lbf) Compression Testing Frames with Welded Walls



UTC - 4732.MLP

Product Code

ASTM C39; AASHTO T22

Models for 220-240V 50-60 Hz, 1 ph.	UTC-4601.SLP	UTC-4701.SLP	UTC-4602.SLP	UTC-4702.SLP	UTC-4712.SLP	UTC-4722.SLP	UTC-4732.SLP
Models for 110-120V 60 Hz, 1 ph.	UTC-4601.SLP-N	UTC-4701.SLP-N	UTC-4602.SLP-N	UTC-4702.SLP-N	UTC-4712.SLP-N	UTC-4722.SLP-N	UTC-4732.SLP-N

UTC-4601.SLP, UTC-4701.SLP, UTC-4602.SLP, UTC-4702.SLP, UTC-4712.SLP, UTC-4722.SLP and UTC-4732.SLP Semi-Automatic Compression Testing Machines for compression testing of cylinders are manufactured acc. to ASTM & AASHTO 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 Machines consist of a welded frame (see below table), hydraulic power pack (UTC-4820) with LPI battery operated digital readout unit (UTC-4920LP).

UTC-4680 or UTC-4682 Pedestal for the frames of the machines should be ordered separately.

- 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

Safety Features

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

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
- Peak hold property

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.

Models	UTC-4601.SLP	UTC-4701.SLP	UTC-4602.SLP	UTC-4702.SLP
Capacity	600 kN (135000 lbf)	1100 kN (245000 lbf)	600 kN (135000 lbf)	1100 kN (245000 lbf)
Frame Type	Welded Steel	Welded Steel	Welded Steel	Welded Steel
Lower Bearing Block, Dimensions (D)	Ø 165 mm (6.5")	Ø 165 mm (6.5")	Ø 165 mm (6.5")	Ø 165 mm (6.5")
Upper Bearing Block,(With Spherically Seating Assembly) Dimensions (C)	Ø 105 mm (4.13")	Ø 105 mm (4.13")	Ø 165 mm (6.5")	Ø 165 mm (6.5")
Surface Hardness of Bearing Blocks	55 HRC	55 HRC	55 HRC	55 HRC
Flatness Tolerance	0,02mm / 150 mm (0,001"/"6")	0,02mm / 150 mm (0,001"/"6")	0,02mm / 150 mm (0,001"/"6")	0,02mm / 150 mm (0,001"/"6")
Piston Diameter	150 mm (5,9")	190 mm (7,48")	150 mm (5,9")	190 mm (7,48")
Piston Stroke	50 mm (1,97")	50 mm (1,97")	50 mm (1,97")	50 mm (1,97")
Maximum Vertical Clearance Between Bearing Blocks (E)	340 mm (13,4")	380 mm (15")	340 mm (13,4")	380 mm (15")
Horizontal Clearance (B)	230 mm (9,06")	270 mm (10,6")	230 mm (9,06")	270 mm (10,6")
For Cylinder Specimens Sizes	Ø100x200 mm (4"x8")	Ø100x200 mm (4"x8")	Ø100x200mm (4x8") Ø150x300mm (6x12") (**)	Ø100x200mm (4x8") Ø50x300mm (6x12") Ø160x320 mm
Power	550 W	550 W	550 W	550 W
Oil Capacity	20 L	20 L	20 L	20 L
Maximum Working Pressure	340 Bar	390 Bar	340 Bar	390 Bar
Dimensions (wxlhx) (Axd*xF)	570x454x922 mm (22,44"x17,87"x36,3")	610x454x1042 mm (24,02"x17,87"x41,02")	570x454x922 mm (22,44"x17,87"x36,3")	610x454x1042 mm (24,02"x17,87"x41,02")
Weight	350 kg (770 lbs)	448 kg (990 lbs)	361 kg (795 lbs)	459 kg (1010 lbs)
Pedestal (Optional)	UTC-4680	UTC-4680	UTC-4680	UTC-4680

[d*] Depth [**] Limited by capacity of the frame

The Machines are supplied complete with;

- UTC-4601.SLP and UTC-4602.SLP : Ø100 mm (3,93"), 50 mm (1,97"), 30 mm (1,2") height x Ø165 mm (Ø 6,5") distance pieces
- UTC-4701.SLP, UTC-4702.SLP and UTC-4712.SLP : Ø100 mm (3,93"), 50 mm (1,97"), 2 pcs. 30 mm (1,2") height x Ø165 mm (Ø 6,5") distance pieces
- Removable transparent front and rear safety doors

Models	UTC-4712	UTC-4722	UTC-4732
Capacity	1500 kN (335000 lbf)	2000 kN (450000 lbf)	3000 kN (670000 lbf)
Frame Type	Welded Steel	Welded Steel	Welded Steel
Lower Bearing Block, Dimensions (D)	Ø 165 mm (6.5")	Ø 165 mm (6.5")	Ø 165 mm (6.5")
Upper Bearing Block,(With Spherically Seating Assembly) Dimensions (C)	Ø 165 mm (6.5")	Ø 165 mm (6.5")	Ø 165 mm (6.5")
Surface Hardness of Bearing Blocks	55 HRC	55 HRC	55 HRC
Flatness Tolerance	0,02mm / 150 mm (0,001"/"6")	0,02mm / 150 mm (0,001"/"6")	0,02mm / 150 mm (0,001"/"6")
Piston Diameter	230 mm (9,06")	250 mm (9,84")	310 mm (12,2")
Piston Stroke	50 mm (1,97")	50 mm (1,97")	50 mm (1,97")
Maximum Vertical Clearance Between Bearing Blocks (E)	370 mm (15")	380 mm (15")	380 mm (15")
Horizontal Clearance (B)	320 mm (12,6")	360 mm (14,17")	415 mm (16,34")
For Cylinder Specimens Sizes	Ø100x200mm (4x8") Ø50x300mm (6x12") Ø160x320 mm	Ø100x200 mm (4"x8") Ø150x300 mm (6"x12") Ø160x320mm	Ø100x200 mm (4"x8") Ø150x300 mm (6"x12") Ø160x320mm
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 (wxlhx) (Axd*xF)	680x451x1104 mm (26,77"x17,76"x43,86")	720x453x1144 mm (28,35"x17,83"x45,04")	775x497x1204mm (30,51"x19,57"x47,4")
Weight	598 kg (1320 lbs)	685 kg (1510 lbs)	907kg (2000 lbs)
Pedestal (Optional)	UTC-4682	UTC-4682	UTC-4682

[d*] Depth [**] Limited by capacity of the frame

The Machines are supplied complete with;

- 100 mm (3,93"), 50 mm (1,97"), 2 pcs. 30 mm (1,2") height x Ø165 mm (Ø 6,5") distance pieces
- Removable transparent front and rear safety doors

