



**ASTM & AASHTO LOW CAPACITY MANUEL COMPRESSION TESTING MACHINES FOR CYLINDERS**

**Product Code**

- UTC-4601.MLP 600 kN (135000 lbf) Manual Compression Testing Machine with Ø105mm Bearing Blocks for Cylinders, ASTM & AASHTO
- UTC-4701.MLP 1100 kN (245000 lbf) Manual Compression Testing Machine with Ø105mm Bearing Blocks for Cylinders, ASTM & AASHTO
- UTC-4602.MLP 600 kN (135000 lbf) Manual Compression Testing Machine with Ø165mm Bearing Blocks for Cylinders, ASTM & AASHTO
- UTC-4702.MLP 1100 kN (245000 lbf) Manual Compression Testing Machine with Ø165mm Bearing Blocks for Cylinders, ASTM & AASHTO
- UTC-4712.MLP 1500 kN (335000 lbf) Manual Compression Testing Machine with Ø165mm Bearing Blocks for Cylinders, ASTM & AASHTO
- UTC-4680 Pedestal for 600kN (135000 lbf), 1100 kN (245000 lbf) and 1500 kN (335000 lbf) Compression Testing Frames with Welded Walls



UTC - 4701.MLP

**Standards**

ASTM C39, C42

The UTEST 600 kN, 1100 kN and 1500 kN capacity Manual Compression Testing Machines are designed to perform reliable compression tests on concrete specimens especially suitable for on-site applications when electric power supply is unavailable.

Being a low cost alternative, the UTEST manual testing series combines precision and simplicity with the unique design of the manual power pack which is hand operated and enables even an inexperienced operator to perform excellent compression and flexure tests on-site.

The machines are supplied in Class A starting from with the 5 % of the machine capacity.

With their exceptional performance, the machines consist of a heavy duty welded frame and hand operated hydraulic power pack with LPI Battery Operated Digital Readout Unit.

UTC-4680 Pedestal that is made of steel to facilitate the user's placement of specimens in the frames for compression test should be ordered separately.



UTC-4680



UTC - 4712.MLP



UTC-4602.MLP



UTC-4701.MLP

**ASTM & AASHTO LOW CAPACITY MANUEL COMPRESSION TESTING MACHINES FOR CYLINDERS**

Models	UTC-4601.MLP	UTC-4701.MLP	UTC-4602.MLP	UTC-4702.MLP	UTC-4712.MLP
Capacity	600 kN (135000 lbf)	1100 kN (245000 lbf)	600 kN (135000 lbf)	1100 kN (245000 lbf)	1500 kN (337 klbf)
Frame Type	Welded Steel	Welded Steel	Welded Steel	Welded Steel	Welded Steel
Lower Bearing Block, Dimensions (D)	Ø 105 mm (4,13")	Ø 105 mm (4,13")	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")	Ø 165 mm (6.5")
Surface Hardness of Bearing Blocks	55 HRC	55 HRC	55 HRC	55 HRC	55 HRC
Flatness Tolerance	0,02 mm / 150 mm (0,001"/6")	0,02 mm / 150 mm (0,001"/6")	0,02 mm / 150 mm (0,001"/6")	0,02 mm / 150 mm (0,001"/6")	0,02 mm / 150 mm (0,001"/6")
Piston Diameter	150 mm	190 mm (7,48")	150 mm	190 mm (7,48")	230 mm
Piston Stroke	50 mm (1,97")	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")	380 mm (15")
Horizontal Clearance (B)	230 mm (9,06")	270 mm (10,6")	230 mm (9,06")	270 mm (10,6")	320 mm (12,6")
For Cylinder Sizes	Ø100x200 mm (4"x8")	Ø100x200 mm (4"x8")	Ø100x200 mm (4"x8") Ø150x300mm(6"x12") (**)	Ø100x200mm(4"x8") Ø150x300mm(6"x12") Ø160x320mm	Ø100x200mm (4"x8") Ø150x300mm (6"x12") Ø160x320mm
Power	550 W	550 W	550 W	550 W	550 W
Oil Capacity	20 L (0,7 ft3)	20 L (0,7 ft3)	20 L (0,7 ft3)	20 L (0,7 ft3)	20 L (0,7 ft3)
Maximum Working Pressure	340 Bar	370 Bar	340 Bar	390 Bar	370 Bar
Dimensions (wxlxh) (Axd*xF)	570x454x922mm (22,44"x17,87"x36,3")	610x454x1042mm (24,02"x17,87"x41,02")	570x454x922mm (22,44"x17,87"x36,3")	610x454x1042mm (24,02"x17,87"x41,02")	680x451x1104mm (26,77"x17,76"x43,86")
Weight	330 kg (728 lbs)	428 kg (944 lbs)	330 kg (728 lbs)	439 kg (968 lbs)	578 kg (1275 lbs)
Pedestal (Optional)	UTC-4680	UTC-4680	UTC-4680	UTC-4680	UTC-4680

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

The Machines are supplied complete with;

- UTC-4601.MLP and UTC-4602.MLP: 100 mm (3,93"), 50 mm (1,97"), 30 mm (1,2") height x Ø165 mm (Ø 6,5") distance pieces.
- UTC-4701.MLP, UTC-4702 and UTC-4712.MLP: 100 mm (3,93"), 50 mm (1,97"), 2 pcs. 30 mm (1,2") height x Ø165 mm (Ø6,5") distance pieces.
- Removable transparent front and rear safety doors
- The front safety doors have an automatic safety device to stop the machine if the door is opened during a test.