ASTM & AASHTO COMPRESSION TESTING FRAMES FOR CYLINDERS

Product Code

UTC-4601 600 kN (135000 lbf) Compression Testing Frame with Ø105mm (4,13") Upper Bearing Blocks for Cylinders, ASTM&AASHTO

UTC-4701 1100 kN (245000 lbf) Compression Testing Frame with Ø105mm (4,13") Upper Bearing Blocks for Cylinders ASTM&AASHTO

UTC-4602 600kN (135000 lbf) Compression Testing Frame with Ø165mm(6,5") Bearing Blocks for Cylinders ASTM &AASHTO

UTC-4702 1100 kN (245000 lbf) Compression Testing Frame with Ø165mm (6,5") Upper Bearing Blocks for Cylinders ASTM & AASHTO

UTC-4712 1500 kN 335000 lbf) Compression Testing Frame with Ø165mm (6,5") Bearing Blocks for Cylinders ASTM & AASHTO

UTC-4722 2000 kN (450000 lbf) Compression Testing Frame with Ø165mm (6,5") Bearing Blocks for Cylinders ASTM & AASHTO

UTC-4732 3000 kN (670000 lbf) Compression Testing Frame with Ø165mm (6,5") Bearing Blocks for Cylinders ASTM & AASHTO

UTC-4680 Pedestal for 600kN (135000 lbf), 1100kN (245000 lbf) and 1500 kN (335000 lbf) Compression Testing Frames

UTC-4682 Pedestal for 2000 kN (450000 lbf) and 3000 kN (670000 lbf) Compression Testing Frames

Standards

ASTM C39; AASHTO T22

ASTM & AASHTO compression testing frames for cylinders consist of a rigid welded steel walls, a loading cylinder assembly and lower and upper (spherically-seated) bearing platens.

The frames provide the stability needed for accurate and repeatable test results over the years of operation.

Any hydraulic power pack with control and read out unit and a pressure transducer for measuring the loads, can be positioned on the right hand side of the load frame for easier accessibility, increased productivity and for safer operations.

All frames have a single acting up stroking ram and also have front and rear protective doors and limit swich for piston stroke for safety. The diameter of the pistons are designed to work with the load capacity. The lower bearing platens are provided with concentric centering line/s

UTC-4680 and UTC-4682 Pedestals that are made of steel to facilitate the user's placement of specimens in the frames for compression test should be ordered separately.

See the below tables for supplied items with the frames.

ASTM & AASHTO COMPRESSION TESTING FRAMES FOR CYLINDERS

Models	UTC-4601	UTC-4701	UTC-4602	UTC-4702
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
Dimensions (wxlxh) (Axd*xF)	270x454x922 mm (10,63"x17,87"x36,3")	310x454x1042 mm (12,2"x17,87"x41,02")	270x454x922 mm (10,63"x17,87"x36,3")	310x454x1042 mm (12,2"x17,87"x41,02")
Weight	280 kg (620 lbs)	378 kg (835 lbs)	291 kg (640 lbs)	389 kg (860 lbs)
Pedestal (Optional)	UTC-4680	UTC-4680	UTC-4680	UTC-4680

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

The frames are supplied complete with;

- UTC-4601 and UTC-4602: 100 mm(3,93") 50 mm (1,97"), 30 mm (1,2") height x Ø165mm (Ø 6,5") distance pieces
- UTC-4701 and UTC-4702: 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
- The front safety doors have an automatic safety device to stop the machine if the door is opened during a test

UTEST
MATERIAL TESTING EQUIPMENT

CONCRETE

Compression and Flexural Testing Machines

COMPRESSION TESTING FRAMES

UTC-4732 with UTC-4682

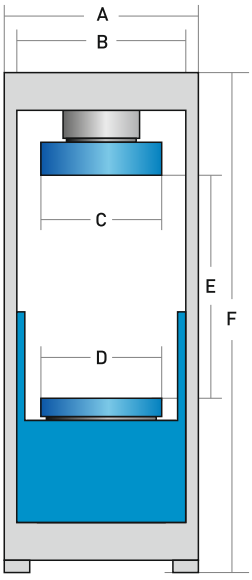
UTC-4601

UTC-4602

UTC-4712

UTC-4722

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")	300 mm (11,8")
Piston Stroke	50 mm (1,97")	50 mm (1,97")	50 mm (1,97")
Maximum Vertical Clearance Between Bearing Blocks (E)	380 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
Dimensions (wxlxh) (Axd*xF) d*) depth	380x451x1104 mm (14,96"x17,76"x43,86")	420x453x1144 mm (16,54"x17,83"x45,04")	475x497x1204mm (18,7"x19,57"x47,4")
Weight	528 kg (1165 lbs)	615 kg (1355 lbs)	837kg (1845 lbs)
Pedestal (Optional)	UTC-4680	UTC-4682	UTC-4682



The frames 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
- The front safety doors have an automatic safety device to stop the machine if the door is opened during a test

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