

ASTM COMPRESSION TESTING FRAMES FOR BLOCKS

Product Code

UTC-4706	1100 kN (245000 lbf) Compression Testing Frame for Blocks, ASTM
UTC-4716	1500 kN (335000 lbf) Compression Testing Frame for Blocks, ASTM
UTC-4726	2000 kN (450000 lbf) Compression Testing Frame for Blocks, ASTM
UTC-4736	3000 kN (670000 lbf) Compression Testing Frame for Blocks, ASTM
UTC-4680	Pedestal for 600 kN (135000 lbf) or 1100 kN (245000 lbf) Compression Testing Frames
UTC-4682	Pedestal for 1500 kN (335000 lbf), 2000 kN (450000 lbf) and 3000 kN (670000 lbf) Compression Testing Frames

Standards

ASTM C140, C1314

ASTM & AASHTO compression testing frames for blocks 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 switch 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 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.



UTC-4629

UTC-4726

ASTM COMPRESSION TESTING FRAMES FOR BLOCKS

Models	UTC-4706	UTC-4716	UTC-4726	UTC-4736
Capacity	1100 kN (245000 lbf)	1500 kN (245000 lbf)	2000 kN (450000 lbf)	3000 kN (670000 lbf)
Frame Type	Welded Steel	Welded Steel	Welded Steel	Welded Steel
Lower Bearing Block, Dimensions (D)	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")
Upper Bearing Block, [With Spherically Seating Assembly] Dimensions (C)	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")
Surface Hardness of Bearing Blocks	60 HRC	60 HRC	60 HRC	60 HRC
Flatness Tolerance	0,025 mm / 150 mm (0,001"/"6")	0,025 mm / 150 mm (0,001"/"6")	0,025 mm / 150 mm (0,001"/"6")	0,025 mm / 150 mm (0,001"/"6")
Piston Diameter	230 mm (9,06")	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")	50 mm (1,97")
Maximum Vertical Clearance Between Bearing Blocks (E)	250 mm (9,84")	250 mm (9,84")	250 mm (9,84")	250 mm (9,84")
Horizontal Clearance (B)	320 mm (12,6")	320 mm (12,6")	360 mm (14,17")	415 mm (16,34")
Dimensions (wxlhx) (Axd*xF)	380x451x1104mm (14,96"x17,76"x43,86")	380x451x1104mm (14,96"x17,76"x43,86")	420x453x1144 mm (16,54"x17,83"x45,04")	475x497x1204mm (18,7"x19,57"x47,4")
Weight	723 kg (1595 lbs)	723 kg (1595 lbs)	810 kg (1785 lbs)	1032 kg (2275 lbs)
Pedestal [Optional]	UTC-4680	UTC-4682	UTC-4682	UTC-4682

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

The frames are supplied complete with;

- 50 mm (1,97"), 2 pcs. 30 mm (1,2"), 15 mm (0,59") height x Ø 165 mm (Ø6,5") distance pieces
- Lifting Device for Lower Bearing Platen (UTC-4629)
- Removable transparent front and rear safety doors