



ASTM COMPRESSION TESTING FRAMES FOR BLOCKS AND CYLINDERS

CONCRETE

Compression and Flexural Testing Machines

COMPRESSION TESTING FRAMES

Product Code

- UTC-4725 2000 kN (450000 lbf) Compression Testing Frame for Blocks and Cylinders, ASTM
- UTC-4735 3000 kN (670000 lbf) Compression Testing Frame for Blocks and Cylinders, ASTM
- UTC-4682 Pedestal for 2000 kN (450000 lbf) and 3000 kN (670000 lbf) Compression Testing Frames with Welded Wall

Standards

ASTM C39, C140, C1314; AASHTO T22



UTC-4528 and UTC-4512

UTC-4725 and UTC-4529

ASTM & AASHTO compression testing frames for blocks and 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 switch for piston stroke for safety.

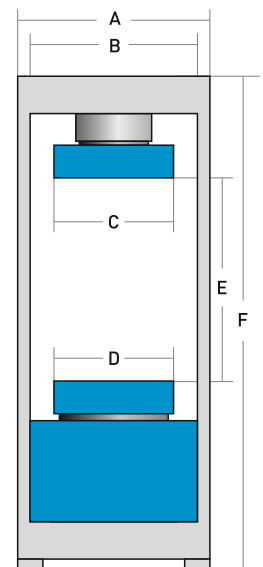
The diameter of the pistons are designed to work with the load capacity. The lower bearing platens are provided with centering line/s

Depending on whether the specimen to be tested is a block or cylinder, the upper bearing platens of the frame can be easily switched with each other by users with the help of UTC-4528 and 4629

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

See the below table for supplied items with the frames.

Models		UTC-4725	UTC-4735
Capacity		2000 kN (450000 lbf)	3000 kN (670000 lbf)
Frame Type		Welded Steel	Welded Steel
Lower Bearing Platens Dimensions (D)	Block	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")
	Circular	Ø165 mm (6.5")	Ø165 mm (6.5")
Upper Bearing Block Dimensions (C)	Block	310x410x90 mm (12.2"x16.1"x3.5")	310x410x90 mm (12.2"x16.1"x3.5")
	Circular	Ø165 mm (6.5")	Ø165 mm (6.5")
Surface Hardness of Bearing Platens	Block	60 HRC	60 HRC
	Circular	55 HRC	55 HRC
Flatness Tolerance	Block	0,025mm / 150 mm (0,001"/"6")	0,025mm / 150 mm (0,001"/"6")
	Circular	0,02mm / 150 mm (0,001"/"6")	0,02mm / 150 mm (0,001"/"6")
Maximum Vertical Clearance Between Bearing Blocks (E)	Block	250 mm (9,84")	250 mm (9,84")
	Circular	380 mm (15")	380 mm (15")
Piston Diameter		250 mm (9,84")	300 mm (11,8")
Piston Stroke		50 mm (1,97")	50 mm (1,97")
Horizontal Clearance (B)		360 mm (14,17")	415 mm (16,34")
Dimensions (wxlxh) (Axd*xF) (d*) Depth		420x453x1144 mm (16,54"x17,83"x45,04")	475x497x1204mm (18,7"x19,57"x47,4")
Weight		908 kg (2000 lb)	1129 kg (2490 lb)
Pedestal (Optional)		UTC-4682	UTC-4682



The frames are supplied complete with;

- 310x410x90 mm (12.2"x16.1"x3.54") lower and upper (spherically seated) bearing platens (comes with mounted to the frame)
- Ø165 mm (6.5") lower and upper bearing blocks
- Upper Bearing Platens Replacement Console (UTC-4528)
- Scissor Jack for Loading Platens/Bearing Blocks (UTC-4629)
- 50 mm (1,97"), 2 pcs. 30 mm (1,2"), 15 mm (0,59") height x Ø 205 mm (Ø8,07") 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