

## ASTM COMPRESSION TESTING FRAMES FOR BLOCKS AND CYLINDERS

### 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-4528 Upper Bearing Platens Replacement Equipment for UTC-4725 and UTC-4735  
 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

(\*) Depending on the type of specimen to be tested, the bearing platens set can be easily switched with other bearing platens by users with the help of UTC-4528



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.

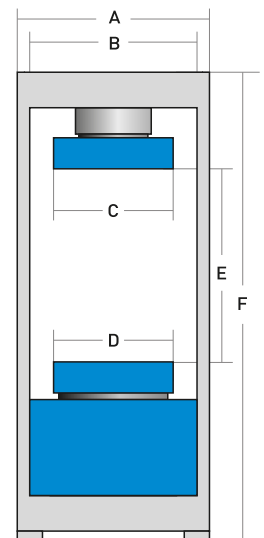
All frames have a single acting up stroking ram and also have front and rear protective doors and limit switch for piston stroke for safety. The diameter of the pistons are designed to work with the load capacity. The lower bearing platens are provided with centering line/s

UTC-4528 Upper bearing platens replacement equipment is used by the user for changing the upper bearing platens depending on whether the specimen to be tested is a block or cylinder.

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 Block, 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 Blocks                    | 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")                         | 310 mm (12,2")                      |
| 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)                           |          | 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;

- 310x410x90mm (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 Equipment (UTC-4528)
- Lifting Device for Lower Bearing Platen (UTC-4629)
- 100 mm (3,93"), 50 mm (1,97"), 2 pcs. 30 mm (1,2"), 15 mm (0,59") height x Ø165 mm (6,5") distance pieces
- Removable transparent front and rear safety doors