EN 12390-4 COMPRESSION TESTING FRAMES WITH WELDED WALLS FOR CUBES AND CYLINDERS

Product Code

UTC-5727 2000 kN EN 12390-4 Compression Testing Frame for Cubes and Cylinders
UTC-5737 3000 kN EN 12390-4 Compression Testing Frame for Cubes and Cylinders
UTC-4682 Pedestal for 2000 kN and 3000 kN Compression Testing Frames with Welded Walls

Standards

EN 12390-4, EN 12390-3

UTC-5727 and UTC-5737 compression testing frames for cubes and cylinders consist of rigid welded steel walls, a loading cylinder assembly, lower and upper (spherically-seated) loading platens. acc. to EN standards.

EN compression testing frames provides the stability needed for accurate and repeatable test results over the years of operation.

The frames are supplied with factory calibration certificate for force transfer stability and the self-alignment of the upper loading platen conforming to EN 12390-4.

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 piston is designed to work with the load capacity. There is a low friction coaxial PTFE seal between the cylinder and the piston fitted to the cylinder.

The lower loading platens are provided with concentric centfering lines and fixture for centering specimens

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-5727	UTC-5737
Capacity	2000 kN	3000 kN
Frame Type	Welded Steel	Welded Steel
Lower Bearing Block, Dimensions (D)	Ø 300 mm	Ø 300 mm
Upper Bearing Block, (With Spherically Seating Assembly) Dimensions (C)	Ø 300 mm	Ø 300 mm
Surface Hardness of Bearing Blocks	53 HRC	53 HRC
Flatness Tolerance	0,03 mm	0,03 mm
Piston Diameter	250 mm	300 mm
Piston Stroke	50 mm	50 mm
Maximum Vertical Clearance Between Bearing Blocks (E)	350 mm	350 mm
Horizontal Clearance (B)	360 mm	415 mm
For Cubes (up to) Specimens Sizes	200 mm (**)	200 mm (**)
For Cylinder (up to) Specimens Sizes	Ø160x320 mm	Ø160x320 mm
Dimensions (wxlxh) (Axd*xF)	450x455x1145 mm	505x500x1205 mm
Weight	755 kg	990 kg
Pedestal (Optional)	UTC-4682	UTC-4682

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

The frames for cubes and cylinders are supplied complete with;

- 100 mm, 50 mm and 30 mm height Ø205 mm distance pieces
- UTC-4622E - Fixture for Centering Specimens, compatible with Ø300 mm lower loading platen for 100 mm and 150 mm cubes, Ø100 mm and Ø150 mm cylinders
- Removable transparent front and rear safety doors

Appropriate Distance piece/s for the cylinder and cube specimens with the height of lower than 150 mm should be ordered separately.

UTC-4727 with UTC-4682