EN 12390-4 and EN 772-1 COMPRESSION TESTING FRAMES FOR CONCTERE CUBES AND CYLINDERS AND MASONARY UNITS

Product Code

UTC-5729 2000 kN Capacity Compression Testing Frame for Masonary Units, Cubes and Clinders, EN
UTC-5739 3000 kN Capacity Compression Testing Frame for Masonary Units, Cubes and Clinders, EN
UTC-4682 Pedestal for 2000 kN and 3000 kN Compression Testing Frames with Welded Walls

Standards

EN 12390-4, EN 12390-3, EN 772-1

UTC-5729 and UTC-5739 compression testing frames with rigid welded steel walls for masonary unıts, cubes and cylinders consist of a loading cylinder assembly, lower and upper (spherically-seated) loading platens. acc. to EN standards.
The frames are tested and certified for force transfer stability and the self-alignment of the upper loading platen conforming to EN 12390-4 by Utest. 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 pistona are 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 centering 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-5729	UTC-5739
	Capacity	2000 kN	3000 kN
	Frame Type	Welded Steel	Welded Steel
	Lower Bearing Block, Dimensions (D)	310x510x50 mm	310x510x50 mm
	Upper Bearing Block, (With Spherically Seating Assembly) Dimensions (C)	310x510x50 mm	310x510x50 mm
	Surface Hardness of Bearing Blocks	55 HRC	55 HRC
	Flatness Tolerance	0,03m	0,03m
	Piston Diameter	250mm	300mm
	Piston Stroke	50 mm	50 mm
	Maximum Vertical Clearance Between Bearing Blocks (E)	350 mm	350 mm
	Horizontal Clearance (B)	360 mm	415 mm
Sizes of Specimens	For Cylinder (up to)	Ø160x320 mm	Ø160x320 mm
Sizes of Specimens	For Cubes (up to)	300 mm (**)	300 mm (**)
Sizes of Specimens	For Masonary Units (up to)	300x500 mm (**)	300x500 mm (**)
	Dimensions (wxlxh) (Axd*xF)	450x550x1145 mm	505x550x1205 mm
	Weight	880 kg	1120 kg
	Pedestal (Optional)	UTC-4682	UTC-4682

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

The frames for masonary units, cubes and cylinders are supplied complete with;

- 100 mm, 50 mm, 2x30 mm height x Ø205 mm distance pieces
- Fixture for Centering Specimens, compatible with 310x510x50 mm lower loading platen for 100 mm and 150 mm cubes, Ø100 mm and Ø150 mm cylinders
- Scissor Jack for Loading Platens/Bearing Blocks (UTC-4629)
- Removable transparent front and rear safety doors

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