

## EN 12390-4 and EN 772-1 FOUR COLUMN COMPRESSION TESTING FRAMES FOR CONCRETE CUBES AND CYLINDERS AND MASONARY UNITS

### Product Code

- UTC-6729** 2000 kN Capacity Four Column Compression Testing Frame for Masonary Units, Cubes and Clinders, EN
- UTC-6739** 3000 kN Capacity Four Column Compression Testing Frame for Masonary Units, Cubes and Clinders, EN
- UTC-6749** 4000 kN Capacity Four Column Compression Testing Frame for Masonary Units, Cubes and Clinders, EN
- UTC-6759** 5000 kN Capacity Four Column Compression Testing Frame for Masonary Units, Cubes and Clinders, EN
- UTC-4684** Pedestal for 2000 kN and 3000 kN Four Column Compression Testing Frames
- UTC-4686** Pedestal for 4000 kN and 5000 kN Four Column Compression Testing Frames

### Standards

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

UTC-6729, UTC-6739, UTC-6749 and UTC-6759 compression testing frames with four column for masonry units, cubes and cylinders consist of a loading cylinder assembly, lower and upper (spherically-seated) loading platens. acc. to EN standards.

EN four column 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 switch for piston stroke for safety. The diameter of the pistons are designed to work with their load capacities. 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 centering lines and fixture for centering specimens

UTC-4684 and UT-4686 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 table for supplied items with the frames.



UTC-6749



UTC-6749 with UTC-4682

## EN 12390-4 and EN 772-1 FOUR COLUMN COMPRESSION TESTING FRAMES FOR CONCRETE CUBES AND CYLINDERS AND MASONRY UNITS



Models	UTC-6729	UTC-6739	UTC-6749	UTC-6759
Capacity	2000 kN	3000 kN	4000 kN	5000 kN
Frame Type	Four Column	Four Column	Four Column	Four Column
Lower Bearing Block, Dimensions (D)	310x510x50 mm	310x510x50 mm	310x510x50 mm	310x510x50 mm
Upper Bearing Block, (With Spherical Seating Assembly) Dimensions (C)	310x510x50 mm	310x510x50 mm	310x510x50 mm	310x510x50 mm
Surface Hardness of Bearing Blocks	55 HRC	55 HRC	55 HRC	55 HRC
Flatness Tolerance	0,03mm	0,03mm	0,03mm	0,03mm
Piston Diameter	300 mm	350 mm	400 mm	450 mm
Piston Stroke	50 mm	50 mm	100 mm	100 mm
Maximum Vertical Clearance Between Bearing Blocks (E)	330 mm	330 mm	520 mm	520 mm
Sizes of Specimens	For Cylinder (up to)	Ø150x300 mm	Ø150x300 mm	Ø250x500 mm (**)
	For Cubes (up to)	300 mm (**)	300 mm (**)	300 mm (**)
	For Masonary Units (up to)	300x500 mm (**)	300x500 mm (**)	300x500 mm (**)
Dimensions (w x l x h) (A x d x F)	590x560x1100 mm	680x690x1150 mm	772x825x1540 mm	865x640x1555 mm
Weight	1040 kg	1540 kg	2555 kg	3260 kg
Pedestal (Optional)	UTC-4684	UTC-4684	UTC-4686	UTC-4686

(d\*) Depth

(\*\*) Limited by capacity of the frame

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

- 100 mm, 50 mm, 2x30 mm height x Ø205 mm distance pieces (two pcs. each for UTC-6749 and UTC-6759)
- UTC-4626E - Fixture for centering specimens, compatible with 310x510x50 mm lower loading platen, for 100 mm and 150 mm cubes and Ø100 mm and Ø150 mm cylinders (for UTC-6729 and UTC-6739)
- UTC-4627E - Fixture for centering specimens, compatible with 310x510x50 mm lower loading platen, for 150 mm and 250 mm cubes, Ø150 mm and Ø250 mm cylinders for UTC-6749 and UTC-6759
- 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 150 mm should be ordered separately for UTC-6729.FPR and UTC-6739.FPR

