Product Code

UTCM-3722.MLP 250 kN (56.200 lbf) Manual Cement Compression Testing Machine
UTCM-3742.MLP 250/15 kN (56.200/3370 lbf) Manual Cement Compression/Flexure Testing Machine
UTCM-4200A Flexure Jig Assembly to test 40x40x160 mm prisms, ASTM
UTCM-4200E Flexure Jig Assembly to test 40.1x40x160 mm prisms, EN
UTCM-4210A Compression Jig Assembly to test 50 mm (2") cubes
UTCM-4210E Compression Jig Assembly to test portions of 40.1x40x160 mm prisms, EN
UTCM-4210B Compression Jig Assembly BS, to test 70,7 mm cubes
UTCM-3724 Transparent Front-Rear Safety Doors for UTCM-3722
UTCM-3744 Transparent Front-Rear Safety Doors for UTCM-3742

Standards

EN 196-1, 459-2, 1015-11, 13454-2, 13892-2; ASTM C109, C348, C349; BS 4550-3.4

UTCM-3742.MLP

UTCM-3722.MLP

The UTCM-3722.MLP and UTCM-3742.MLP single and double testing chamber Manual compression and flexure testing machines are designed to perform reliable strength and flexure tests on mortar specimens. The manual machines are especially suitable for on-site applications when electric power supply is not available.

Being a low cost alternative, UTEST manual testing series combine precision and simplicity with the unique design of the manual power pack which enables even an inexperienced operator to perform excellent compression and flexure tests on-site.

These manual testing machines conform to the standards EN 196-1, 459- 2, 1015-11, 13454-2; ASTM C 109, C348, C349 by using suitable accessories. They also meet with the requirements of CE norms with respect to operator health and safety.

The UTEST manuel cement compression and flexure testing machines consist of very rigid two column single or double chamber frame, manuel power pack and data acquisition system LPI.

Compression and flexture jigs, distance pieces, and also removable transparent front-rear safety doors (should be factory installed) should be ordered separately.

Manuel Power Pack

The UTC-4810 Hand Operated (Manual) Hydraulic Power Pack has been designed to be used with range of UTEST Compression machines and flexural frames to use on site and/or where electricity is not available.

The pump is equipped with a radial piston pump so that the loading is continuous as long as user turns the wheel installed on the pump.

The loading is uniform as on an automatic machine.

Dimensions	300x400x600
Weight (approx.)	mm 50 kg

UTC-4810 with UTC-4920LP

LPI Battery Operated Digital Readout Unit

The LPI Battery Operated Digital Readout Unit (UTC-4920LP) has been designed to use with load cells or pressure transducers on different material test applications.

- The unit is operates with DC voltage source of -1,5 to 1,5 volts.
- Real time numeric display of load and load rate
- 1 channel with two different calibration table
  (by changing the sensor belong to other frame, the unit can be control for second test frame)
- Peak hold property
- Multi-point calibration
- Can operate with 2 x AA batteries
- Easy preload zeroing
- Serial port for PC or printer
- 8 keys keyboard

UTC-4920LP

Dimensions	150x200x200m
Weight (approx.)	m 1 kg

Technical Specifications

Model	UTCM-3722.MLP	UTCM-3742.MLP
Test Type	Compression	Flexure Compression
Capacity	250 kN (56.200 lbf)	15 kN (3370 lbf)250 kN (56.200 lbf)
Class 1 Measuring Range	1 % for 250 kN	1 % for 15 kN 1 % for 50 kN
The Roughness Value for Texture of Loading Platens	≤ 3.2 µm	≤ 3.2 µm≤ 3.2 µm
Lower Platen Dimensions	165 mm (6,5”)	165 mm (6,5”)165 mm (6,5”)
Upper (spherical seated) Platen Dimensions	165 mm (6,5”)	165 mm (6,5”)165 mm (6,5”)
Maximum Vertical Clearance Between Platens	237 mm (9,3”)	237 mm (9,3”)237 mm (9,3”)
Piston Diameter	Ø160 mm (6,3”)	Ø160 mm (6,3”)Ø160 mm (6,3”)
Maximum Piston Movement	20 mm (1,18”)	20 mm (1,18”)20 mm (1,18”)
Horizontal Clearance	300 mm (11,8”)	274 mm (10,8”)266 mm (10,47”)
Oil Capacity	13 L	13 L
Rapid Approach Rate	50 mm/min 2 inc/min	80 mm/min50 mm/min 3,15 inc/min2 inc /min
Dimensions (WxLxH)	760x500x1650 mm (30”x19,7”x62,2”)	980x500x1650 mm (37,4”x19,7”x62,2”)
Weight	230 kg (518 lbs)	320 kg (705 lbs)

The Maximum horizontal clearance for placing the sample is limited by the border of the platens. Sample must be placed such that its ends will not overlap the ends of platens and it must be centered perfectly. The minimum vertical clearance for the specimen can be adjusted using the distance pieces.