

Product Code

UTC-5540	200 kN Automatic Flexural Testing Machine, 220-240 V 50-60 Hz
UTC-5540/110	200 kN Automatic Flexural Testing Machine, 110 V 60 Hz
UTC-5542	300 kN Automatic Flexural Testing Machine, C Type, 220-240 V 50-60 Hz
UTC-5542/110	300 kN Automatic Flexural Testing Machine, C Type, 110 V 60 Hz
UTC-5544	600 kN Automatic Flexural Testing Machine, 220-240 V 50-60 Hz

Standards

EN 1338, 1339, 1340, 12390-5, 12390-6; BS 1881; ASTM C78, C293, C496

UTEST
MATERIAL TESTING EQUIPMENT

The UTEST Automatic range of 200 kN, 300 kN and 600 kN capacity flexure testing machines have been designed for reliable and consistent testing of flexural test on standard concrete beams, concrete or natural stone kerbs, concrete paving flags, and natural stone slabs and tensile splitting test of concrete paving blocks. These flexure testing machines are the result of continuous research to upgrade the testing machines with latest technologies to conform to the latest standards EN 12390-5, EN 12390-6, EN 1338, EN 1340, BS 1881, ASTM C78, C293 and C496 in terms of its technical properties taking into account client requirements. These also meet the requirements of CE norms for health and safety of the operator.

Tests can be performed by either on BC 100 Unit or on a computer with using free UTEST Software. The advantages of performing tests on computer with using UTEST Software, such as reporting, graphical output, etc., can be seen at pages 155 and 156.



The UTEST Automatic range of 200 kN, 300 kN and 600 kN capacity flexure testing machines allow inexperienced to perform the test. Once the machine is switched on and specimen is placed, then the only required operations are;

- Setting test parameters, including pace rate only required when the specimen type is changed.
- Pressing the START button on the control unit.
- The machine automatically starts the rapid approach; switches the test speed after 1% of the load capacity of the machine and stops once the specimen failure.
- Automatically saves the test parameters and test results.

The UTEST range of Flexural Machines have the accuracy of Class 1 starting from 2% of the full capacity.

The flexure testing machines are consists of heavy duty welded frame, automatic hydraulic power pack with data acquisition and control system BC 100. Please see page 135 and 136 for properties of BC 100 Unit.

Flextural test assemblies should be ordered separately (see pages 169, 170).

UTC-5540 with UTC-5502

Safety Features

- Maximum pressure valves to avoid machine overloading
- Piston travel limit switch
- Emergency stop button
- Software controlled maximum load value

		UTC-5540
Capacity		200 kN
Class 1 range		4-200 kN
Resolution		1/ 65.000
Ram Travel		100 mm
Max. Vertical Clearance		425 mm (without accessories)
Max. Horizontal Clearance		650 mm
Max. Clearance Between Lower Rollers		900 mm
Frame		UTC-5600
Power Pack		UTC-4830
Overall Dimensions	Frame	1000x950x1130 mm
	Power Pack	370x400x920
Weight (Approx.)	Frame	225 kg
	Power Pack	85 kg



UTC-5542 with UTC-5501

UTC-5542			UTC-5544		
Capacity	300 kN		Capacity	600 kN	
Class 1 range	6-300 kN		Class 1 range	12-6000 kN	
Resolution	1/ 65.000		Resolution	1/ 65.000	
Ram Travel	120 mm		Ram Travel	350 mm	
Max. Vertical Clearance	425 mm (without accessories)		Max. Vertical Clearance	930 mm (without accessories)	
Max. Horizontal Clearance	640 mm		Max. Horizontal Clearance	640 mm	
Max. Clearance Between Lower Rollers	900 mm		Max. Clearance Between Lower Rollers	2000 mm	
The Distance Between The Center of The Piston to The Side of The Frame	320 mm		Frame	UTC-5800	
Frame	UTC-5700		Power Pack	UTC-4830	
Power Pack	UTC-4830		Overall Dimensions	Frame	1100x2000x2650 mm
Overall Dimensions	Frame	1000x900x1250 mm		Power Pack	370x400x920
Weight (Approx.)	Frame	555 kg	Weight (Approx.)	Frame	2750 kg
	Power Pack	85 kg		Power Pack	85 kg