UTEST
MATERIAL TESTING EQUIPMENT

CONCRETE

Compression and Flexural Testing Machines

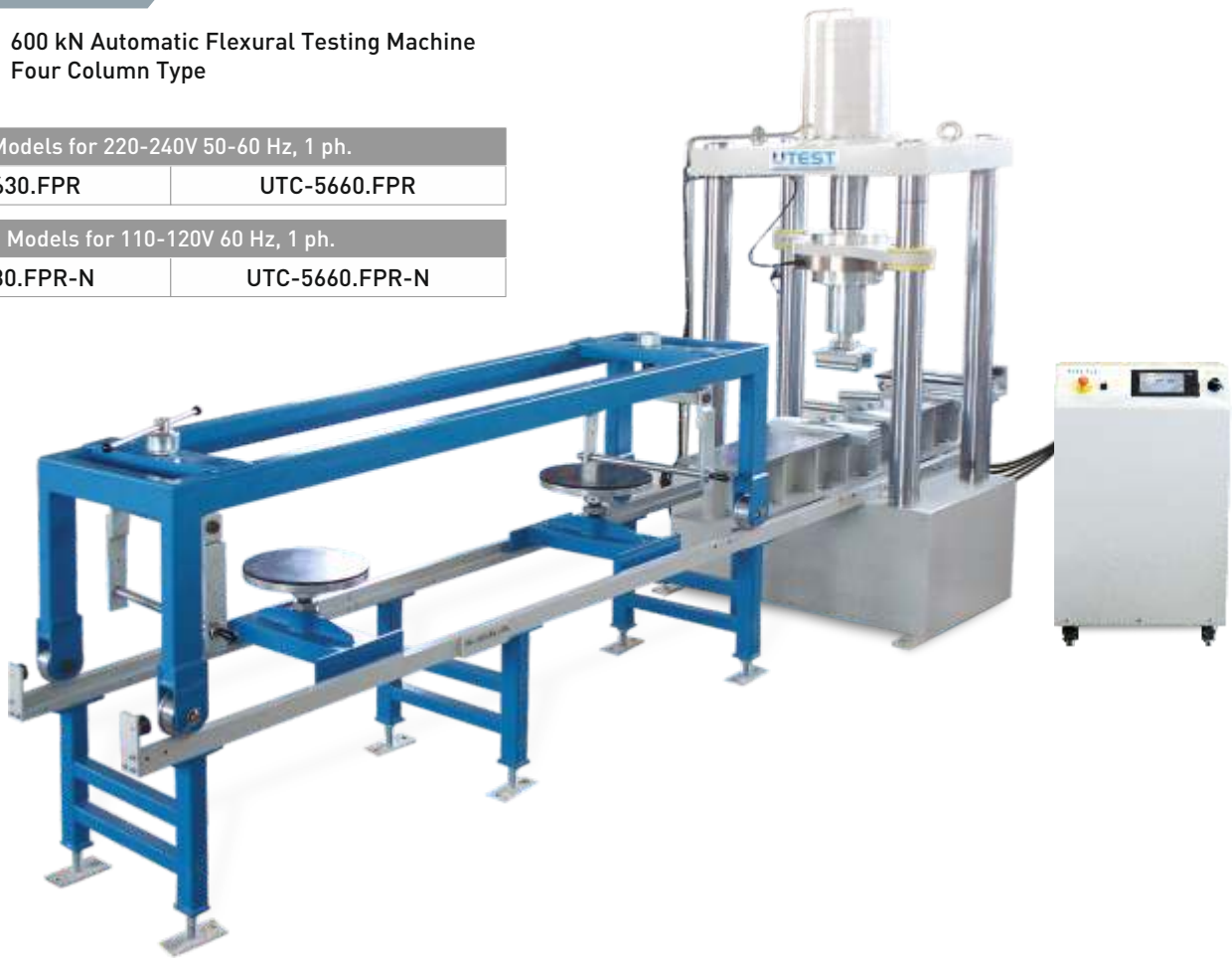
AUTOMATIC FLEXURAL TESTING MACHINE

Product Code

UTC-5660.FPR 600 kN Automatic Flexural Testing Machine
Four Column Type

Models for 220-240V 50-60 Hz, 1 ph.	
UTC-5630.FPR	UTC-5660.FPR

Models for 110-120V 60 Hz, 1 ph.	
UTC-5630.FPR-N	UTC-5660.FPR-N



The Flexural testing machine UTC-5660.FPR has been designed for reliable and consistent testing of flexural test on concrete beams by 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 U-Touch PRO Control 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.

UTC-5660.FPR Flexural testing machine allows 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 Machines consist of a rigid steel frame and hydraulic power pack with U-Touch PRO Control Unit(see table).

Supplied complete with

- Special placement equipment for heavy specimens,
- A scissor jack (1,5 ton capacity) for placement of heavy specimens
- Flexural testing assembly with 2 upper and 2 lower rollers (Ø40x420 mm)

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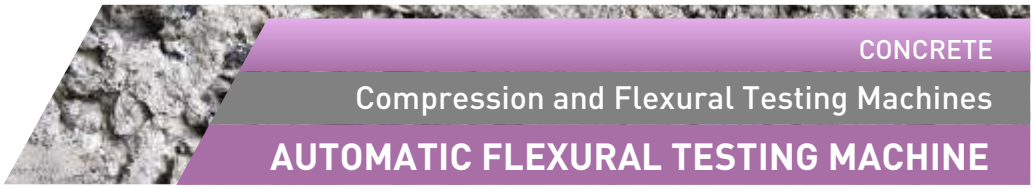
The main characteristics are:

- Closed loop control with automatic test procedure
- Has the accuracy of Class 1 starting from 2% of the full capacity.
- Supplied with factory calibration certificate for load measurement
- Can perform the test with load control
- The tests can be performed by controlling the machine either on U-Touch PRO control unit (UTC-4930.FPR) or on a computer with using free UTEST Software (USOFT-4830.FPR) which is provided free of charge with the machines.
- Load measurment with a loadcell
- Welded steel frame

Safety Features

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

ASO 1. Organize Sanayi Ural Caddesi No:18 Sincan-Ankara/TURKEY
P: +90 312 394 3875 (pbx) • P: +90 312 394 3877 • info@utest.com.tr
utestgroup
www.utest.com.tr



AUTOMATIC FLEXURAL TESTING MACHINE

U-Touch PRO Control Unit for Automatic Compression / Flexure Testing Machines

U-Touch PRO Control Unit UTC-4930.FPR is designed to perform automatically compression, flexure and splitting tensile strength tests of construction materials such as concrete, cement mortar, masonary units/blocks by controlling the Utest automatic compression/flexure testing machines.

All the operations of U-Touch PRO are controlled from the front panel touch screen display.

U-Touch PRO Control Unit has easy to use menu options. It displays all menu option listings simultaneously, allowing the operator to access the required option in a seemless manner to activate the option or enter a numeric value to set the test parameters. Digital graphic display is able to draw real-time "Load vs. Time", or "Stress vs. Time" graphics.

PLEASE see the pages of "U-Touch PRO Control Unit for Automatic Compression/Flexure Testing Machines" for details of the properties.

UTEST Software for Automatic Compression / Flexure Testing Machines

UTEST software USOFT-4830.FPR provides to perform automatically compression, flexure and splitting tensile strength tests of construction materials such as concrete, cement mortar, masonary units/blocks by controlling the Utest automatic compression/flexure testing machines.

The advantages of performing tests on computer with using UTEST Software, such as reporting, graphical output, etc. can be seen in detail at the pages of UTEST Software for Automatic Compression / Flexure Testing Machines.

Capacity		600 kN
Ram Type		Double Acting
Ram Travel		420 mm
Max. Vertical Clearance between upper and lower rollers (Ø40x420mm)		430 mm
Max. Horizontal Clearance between the columns of the frame (In the direction of the special specimen placement equipment)		640 mm
Max. Horizontal Clearance between the columns of the frame (In the other direction)		500 mm
Max Clerance Between Lower Rollers		2360 mm
Min. Clerance Between Upper Rollers		100 mm
Max. Clerance Between Upper Rollers		400 mm
Overall Dimensions	Frame	1040x2500x2810 mm
	Frame with the special specimen placement equipment	1040x5620x2810 cm
	Power Pack	610x460x1020 cm
Weight (approx.)	with the special specimen placement equipment	3000 kg
	Power Pack	150 kg