

Concrete Pipe Testing Machines



CONCRETE

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PRODUCT MODEL

C3240	Concrete Pipe Testing Machine 400 kN, 220-240 V 50/60 Hz
C3245	Concrete Pipe Testing Machine 600 kN, 220-240 V 50/60 Hz
C3250	Concrete Pipe Testing Machine 1000 kN, 220-240 V 50/60 Hz

STANDARDS

Standards	EN 1916 ASTM C301, C497
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INFORMATION

Manufacturer	TESTMAK INS.LAB.MAK.SAN.VE TİC. PAZ. İTH. İHR. LTD. STİ
Country of Origin	TURKEY
Product Name	Concrete Pipe Testing Machine

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DESCRIPTION

The Testmak Concrete Pipe Testing Machines are used for compressive strength tests of concrete and steel pipes whose outside diameters are from 100 mm to 2600 mm. Concrete pipe test machines are manufacturer of capacity of between 400 kN to 1000 kN.

The Concrete pipe testing machines are consisting of a frame and a hydraulic power pack. The frames are rigid 2 column constructions with superior axial and lateral stiffness and are precision aligned.

Pipe Testing Machine frames have to be anchored to concrete base. All required parts to anchor the frame to the concrete base is supplied. The frames without carrying chassis is supplied with V shaped bottom bearers which can be anchored to concrete base.

The rectangular shaped top bearer is detachable from the actuator and the bottom bearer is V-shaped with an angle of 150°. During pipe loading the system permits top bearer to rotate 360 degrees at horizontal plane and allows it to move at vertical plane of a minimum value of $\pm 8^\circ$. As an option 3- and 4-point bending accessories are available. Upper cross-head height adjustment is done with electric motor drive for easy and precise test set up and manual through locking pins are used to fix the upper crosshead.

LCD Graphics Data Acquisition and Controls System

TMC-304 is designed to control the machine and processing data from load cells or pressure transducers installed on the compression machine frame. Easy to read LCD graphics display and button data keypads make the unit quick and straight forward to operate. All interactions with the measuring system are via the front control panel by using simple menu-driven procedures. The TMC-304 digital allows real time load vs time graph. At the end of the test cycle, the results can be stored in the large memory or downloaded to a PC in TMC-304 software format.

The TMC-304 control console includes a multi-valve hydraulic pump, a safety valve, a pressure relief valve and an oil regulator, which ensures maximum safety and smooth linear loading. The machine can be supplied with standard automatic power pack, dual stage, controlled by TMC-304.

Digital Controller Readout Unit

- 240*120 pixel blue-white graphic LCD display
- High resolution 65.000 points
- Backlight function
- Capability of contrast calibration by light
- 18 key touch membrane keyboard
- CPU card by microprocessor 32 bit ARM risk architecture
- Two analogical and two digital channels, use for load cell or pressure transducer etc.

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- Full automatic testing capacity
- Can make manual tests if requested
- A sample type and dimension can be entered with respect to the standards
- Load-Time, Tensile-Time, Test Results and Sample reports observable and printable
- One RS232 serial port and USB for connecting either PC or printer for data transmission
- Comes with Connection cable and software.
- Large permanent memory up to 256 test results
- Easy to operate with 6 main function keys
- Language select, English - Turkish
- Can control two frames

The test frame is delivered in disassembled form and mounted in place in accordance with the instructions. It is possible to add various functions at the request of the customer, as well as purchase only the control system, if the customer already has a test frame.

TECHNICAL SPECIFICATIONS

Product Code	TMC-3240	TMC-3245	TMC-3250
Capacity	400 kN	600 kN	1000 kN
Piston Stroke	200 mm	300 mm	400 mm
Diameter of tested pipes (max / min)	1000/100 mm	1500/300 mm	2600/450 mm
Maximum length of test tubes	200 cm	200 cm	250 cm
Max. Working Pressure	410 Bar	410 Bar	410 Bar
Oil Capacity	18 L	18 L	18 L
Power	1100 W	1100 W	1100 W
Dimensions	2500x1600x3000 mm	2700x2500x4800 mm	3800x2600x7000 cm
Weight	1380 kg	3750 kg	6800 kg



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MATERIAL TEST EQUIPMENTS

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