



AUTOMATIC COMPRESSION TESTING MACHINE 3000 KN









PRODUCT MODEL

TMC-3226 | 3000 kN Automatic Compression Testing Machine, Welded Frame, En Standards

TMC-3228 | 3000 kN Automatic Compression Testing Machine, Four Column Frame, En Standards

TMC-5226 | 3000 kN Automatic Compression Testing Machine, Welded Frame, ASTM Standards

TMC-5228 | 3000 kN Automatic Compression Testing Machine, Four Column Frame, ASTM Standards

STANDARDS

ASTM C39 | EN 12390-3, 12390-4 | BS 1881;







TMC-3228



TMC-3226

DESCRIPTION

Compressive strength or compression strength is the capacity of a material or structure to withstand loads tending to reduce size, as opposed to tensile strength, which withstands loads tending to elongate. Compressive strength is usually measured on a compression testing machine; These systems range of 3000 kN capacity. Measurements of compressive strength are affected by the specific test method and conditions of measurement. Compressive strengths are usually reported in relationship to a specific international standard. Testmak brand compression and strength machines are design to test the compression strength of concrete cube and cylinder specimens of different sizes. The rigid design provides stability and strength for a better using experience. Automatic compression machines with an LCD control unit that displays the data graphically of each test with the ability to save and recall the results of the tested specimens.







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Automatic mode or manual mode in which the user gets the ability to adjust the load rate and period manually are available. Suitable for CE security norms and compression machines are supplied in Class 1 starting from 50 kN. The upper seating adjusts itself to apply homogeneous loading on the sample. Upper and lower platens in accordance with international specifications. Surface hardness 55HRC, flatness tolerance 0.02 mm. Traceable certificate of surface hardness available on request.

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Automatic digital compression machines supplied complete with following; FOR ASTM MODEL

- ASTM frame For 5228 Four Column, For 5226 Welded Frame
- Ø 165x15 mm Distance piece 1 pcs.
- Ø 165x30 mm Distance piece 1 pcs.
- Ø 165x50 mm Distance piece 1 pcs
- Ø 165x90 mm Distance piece 1 pcs,
- Upper&Lower Platen Ø165 mm (with ball seating assembly)
- Piston Ø300 mm
- Automatic Hydraulic Power Pack

FOR EN MODEL

- ASTM frame Four Column For 3228, Welded Frame For 3226
- Ø 205x30 mm Distance piece 1 pcs.
- Ø 205x50 mm Distance piece 1 pcs
- Ø 205x90 mm Distance piece 1 pcs,
- Upper&Lower Platen Ø300 mm (with ball seating assembly)
- Piston Ø300 mm
- Automatic Hydraulic Power Pack



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Testable Specimens

- Concrete Cubes: 100 mm, 150 mm, 200 mm concrete cube sample or any other custom cube and prism size can be tested with this machine.
- Concrete Cylinder: 100x200 mm, 150x300 mm, 160x320 mm concrete cylinder samples or any other custom diameters cylinder can be tested with this machine.

TECHNICAL SPECIFICATIONS

Product Code	TMC-3226	TMC-3228	TMC-5226	TMC-5228
Standards	EN	EN	ASTM	ASTM
Capacity	3000 kN	3000 kN	3000 kN	3000 kN
Frame Type	Welded Frame	Four Column Frame	Welded Frame	Four Column Frame
Sample	Cylinders: 100x200 mm, 150x300 mm, 160x320 mm Cubes 100,150,200 mm	Cylinders: 100x200 mm, 150x300 mm, 160x320 mm Cubes 100,150,200 mm	4", 6" dia. cylinders 100,150,200 mm cubes	4" , 6" dia. cylinders 100,150,200 mm cubes
Upper Platens Dim.	Ø 300 mm	Ø 300 mm	Ø 165 mm	Ø 165 mm
Lower Platens Dim.	Ø 300 mm	Ø 300 mm	Ø 165 mm	Ø 165 mm
Max. Vertical Clearance	340 mm	340 mm	370 mm	370 mm
Max. Horizontal Clearance	425 mm	425 mm	425 mm	425 mm
Piston Diameter	300 mm	300 mm	300 mm	300 mm
Max. Piston Movement	50 mm	50 mm	50 mm	50 mm
Max. Working Pressure	600 Bar	600 Bar	600 Bar	600 Bar
Oil Capacity	18 Liters	18 Liters	18 Liters	18 Liters
Power	750 W	750 W	750 W	750 W
Dimensions Frame	520x540x1500 mm	725x600x1500 mm	520x540x1500 mm	725x600x1500 mm
Dimensions Power Pack	400x500x980 mm	400x500x980 mm	400x500x980 mm	400x500x980 mm
Weight Frame	1030 kg	1320 kg	1010 kg	1300 kg
Weight Power Pack	90 kg	90 kg	90 kg	90 kg







UPPER & LOWER PLATENS

TMC-3211-01 | Upper Platen (with ball seating assembly) Ø 165 mm, Lower Platen Ø 165 mm

TMC-3212-01 | Upper Platen (with ball seating assembly) Ø 216 mm, Lower Platen Ø 216 mm

TMC-3213-01 | Upper Platen (with ball seating assembly) Ø 300 mm, Lower Platen Ø 300 mm

TMC-3214-01 | Upper Platen (with ball seating assembly) 310x410x90 mm, Lower Platen 310x410x90 mm

TMC-3215-01 | Upper Platen (with ball seating assembly) 310x500x38 mm, Lower Platen 310x500x38 mm

The platens enable the testing of a wide variety of cylinder, cube blocks or similar samples. Produced from high quality steel, which is then hardened. Surface hardness 55HRC, flatness tolerance 0.02 mm. Traceable certificate of surface hardness available on request. Have centering rings on the lower platens for proper centering of 100 mm and 150 mm cube, 100 mm and 150 mm cylinder samples.







TMC-3212-01



TMC-3213-01



TMC-3214-01

Product Code	TMC-3211-01	TMC-3212-01	TMC-3213-01	TMC-3214-01
Desctription	Upper Platen (with ball seating assembly) Ø 165 mm, Lower Platen Ø 165 mm	Upper Platen (with ball seating assembly) Ø 216 mm, Lower Platen Ø 216 mm	Upper Platen (with ball seating assembly) Ø 300 mm, Lower Platen Ø 300 mm	Upper Platen (with ball seating assembly) 310x500x38 mm, Lower Platen 310x500x38 mm
Sample	4", 6" dia. cylinders 100 mm cubes	6" dia. cylinders 100, 150 mm cubes	Cylinders: 100x200 mm, 150x300 mm, 160x320 mm Cubes 100,150,200 mm	Blocks up to 310x500 mm
Used with Frames	TMC-3200, TMC-3201, TMC-3204, TMC-3206, TMC-3208, TMC-3209	TMC-3200, TMC-3201, TMC-3203, TMC-3204, , TMC-3205, TMC-3206, , TMC-3207, TMC-3208, TMC-3209	TMC-3203, TMC-3205, TMC-3207, TMC-3209	TMC-3202, TMC-3203, TMC-3204, TMC-3205, TMC-3206, TMC-3207, TMC-3208, TMC-3209
Standards	ASTM C39	ASTM C39 and EN 12390-4	EN 12390-4	EN 772-1
Hardness	≥ 55 HRC	≥ 55 HRC	≥ 53 HRC	≥ 600 HV
Dimensions	170x170x145 mm	220x220x145 mm	310x310x175 mm	320x510x175 mm
Weight	21 kg	38 kg	78 kg	135 kg

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DISTANCE PIECES

TMC-3216-01 | Distance Pieces, Ø 165x15 mm

TMC-3216-02 | Distance Pieces, Ø 165x30 mm

TMC-3216-03 | Distance Pieces, Ø 165x50 mm

TMC-3216-04 | Distance Pieces, Ø 165x90 mm

TMC-3217-01 | Distance Pieces, Ø 205x30 mm

TMC-3217-02 | Distance Pieces, Ø 205x50 mm

TMC-3217-03 | Distance Pieces, Ø 205x90 mm



Distance pieces are used to reduce the amount of vertical clearance between the upper platen and the lower platen. 600 to 3000 kN machines are supplied with 205 mm and 165 mm dia distance piece.

Model	Dimensions	Weight (approx.)
TMC-3216-01	165x165x15 mm	2,5 kg
TMC-3216-02	165x165x30mm	5 kg
TMC-3216-03	165x165x50 mm	8 kg
TMC-3216-04	165x165x90 mm	14 kg
TMC-3217-01	205x290x30 mm	8 kg
TMC-3217-02	205x290x50 mm	13 kg
TMC-3217-03	205x290x90 mm	22 kg





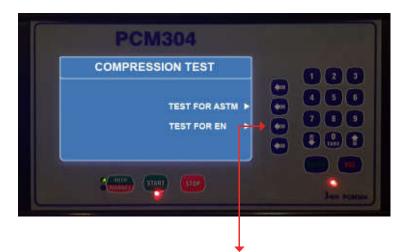


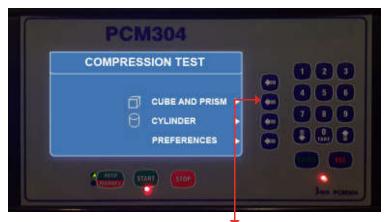
LCD DATA ACQUISITION CONTROL SYSTEM

The Data Acquisition Control provides real-time graphical indication. Automatically determines the load rate in accordance with the international standards upon sample type. With the STOP and START buttons, the test will automatically stop or start.

LCD Data Acquisition Control System has different units are available (kN / kgf / lbf). Can do Automatic Load Rate upon Sample Type. Total load and also per area are given. and has real time graph indication. Stops Automatically, when Test is completed. Test results can be send printer to with software or from the thermal printer. Can do calibration easily from 5 points. Manual Control is available. Computer and printer are not included in the price.

TEST IN ACCORDANCE TO EN 12390-4 STANDARDS



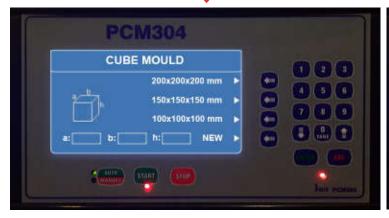








Choose the sample size or specify the custom dimensions of your sample. (Size should be in millimeters).





Choose the mode from the main screen by selecting either AUTOMATIC or MANUAL. Press "Start" to begin the test.





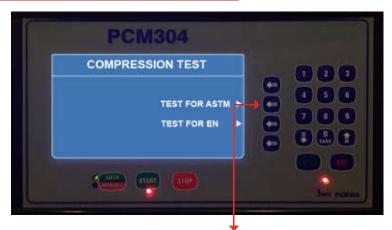
Press "Print" to print the test result graphic.



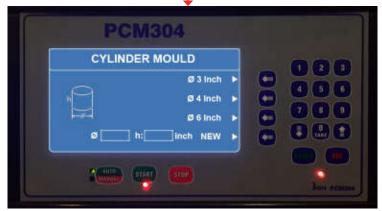




TEST IN ACCORDANCE TO ASTM C39 STANDARDS



Choose the sample size or specify the custom dimensions of your sample. (Size should be in millimeters).



Choose the mode from the main screen by selecting either AUTOMATIC or MANUAL.

Press "Start" to begin the test.



Press "Print" to print the test result graphic.



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SOFTWARE

The tests and calibration can be done and monitored with a computer by connecting it to the machine. LCD Control unit can connecting with RS232 or USB port to the machine. Using the state-of-the-art software provided by TESTMAK with the machine will help performing and managing the tests in a very easy and fast way. By performing the tests via computer, the results can be saved and recalled when required. Reports can be generated automatically by the software and sent to printer.

