



**HS SEMI AUTOMATIC
COMPRESSION TESTING
MACHINE**



CONCRETE

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HS Semi Automatic Compression Testing Machines



PRODUCT MODEL

C3229	2000 kN Semi-Automatic Compression Testing Machine EN, 220-240 V 50-60 Hz
C5229	2000 kN Semi-Automatic Compression Testing Machine ASTM, 220-240 V 50-60 Hz
C5229/110	2000 kN Semi-Automatic Compression Testing Machine ASTM, 110 V 60 Hz
C3230	3000 kN Semi-Automatic Compression Testing Machine EN, 220-240 V 50-60 Hz
C5230	3000 kN Semi-Automatic Compression Testing Machine ASTM, 220-240 V 50-60 Hz
C5230/110	3000 kN Semi-Automatic Compression Testing Machine ASTM, 110 V 60 Hz

STANDARDS

ASTM C39 | AASHTO T22 | ISO EN 7500 | EN 12390-4

INFORMATION

Manufacturer	TESTMAK INS.LAB.MAK.SAN.VE TİC. PAZ. İTH. İHR. LTD. STİ
Country of Origin	TURKEY
Product Name	Semi-Automatic Compression Testing Machine

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DESCRIPTION

The Testmak HS series Semi-Automatic Compression Testing Machines have been manufactured for consistent testing of concrete cube and cylinder specimens. These machines are produced to capacity range of 2000 kN to 3000 kN. Suitable for CE security norms and EN 12390-3, 12390- 4, BS 1881, ASTM C39, AASHTO 22 to standards. TESTMAK Semi-Automatic Compression Testing Machines are supplied in Class 1 starting from 10%. Surface hardness 55HRC, flatness tolerance 0.02 mm. Traceable certificate of surface hardness available on request. The Semi-Automatic compression machines consist of a heavy duty welded frame. The suitable vertical clearance for specimen can be adjusted with distance pieces .

HS Automatic Compression Testing Machines supplied complete with following accessories;

1- Spacer Discs;

For ASTM Standards;

- Diameter 165 mm x Height 90 mm spacer disc 1 piece
- Diameter 165 mm x Height 40 mm spacer disc 1 piece
- Diameter 165 mm x Height 30 mm spacer disc 2 piece

For EN Standards;

- Diameter 205 mm x Height 90 mm spacer disc 1 piece
- Diameter 205 mm x Height 50 mm spacer disc 1 piece
- Diameter 205 mm x Height 30 mm spacer disc 1 piece

2- Upper Platen;

- Upper Platen Diameter 165 mm (with ball seating assembly) (For ASTM Standards)
- Upper Platen Diameter 300 mm (with ball seating assembly) (For EN Standards)

3- Lower Platen;

- Lower Platen Diameter 165 mm (For ASTM Standards)
- Lower Platen Diameter 300 mm (For EN Standards)

4- Piston;

- Piston Diameter 250 mm (For 2000 kN Capacity Models)
- Piston Diameter 300 mm (For 3000 kN Capacity Models)

5- Automatic Hydraulic Power Pack ;

- Semi-Automatic Hydraulic Power Pack, 410 bar (For All Models)

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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.

Safety Features

- Maximum pressure valves to avoid machine overloading
- Piston travel limit switch
- Emergency stop button
- Front and rear transparent durable plexiglas guards

TECHNICAL SPECIFICATIONS

Product Code	C3229	C3230	C5229	C5230
Standards	EN	EN	ASTM	ASTM
Capacity	2000 kN	3000 kN	2000 kN	3000 kN
Frame Type	Welded Frame	Welded Frame	Welded Frame	Welded 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 165mm	Ø 165mm
Max. Vertical Clearance	340 mm	340 mm	370 mm	370 mm
Max. Horizontal Clearance	360 mm	425 mm	360 mm	425 mm
Piston Diameter	250 mm	300 mm	250 mm	300 mm
Max. Piston Movement	50 mm	50 mm	50 mm	50 mm
Max. Working Pressure	410 Bar	410 Bar	410 Bar	410 Bar
Oil Capacity	18 Liters	18 Liters	18 Liters	18 Liters
Power	750 W	750 W	750 W	750 W
Dimensions	740x500x1350 mm	805x540x1400 mm	740x500x1350 mm	805x540x1400 mm
Weight Power Pack	790 kg	1060 kg	770 kg	1040 kg

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UPPER & LOWER PLATENS

- C3070/A-01 | Upper Platen (with ball seating assembly) Ø 165 mm, Lower Platen Ø 165 mm
 C3070/A-02 | Upper Platen (with ball seating assembly) Ø 216 mm, Lower Platen Ø 216 mm
 C3070/E-03 | Upper Platen (with ball seating assembly) Ø 300 mm, Lower Platen Ø 300 mm
 C3070/A-04 | Upper Platen (with ball seating assembly) 310x410x90 mm, Lower Platen 310x410x90 mm
 C3070/E-04 | 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.



Product Code	C3070/A-01	C3070/A-02	C3070/E-03	C3070/E-04
Description	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

C3060/A-01 | Distance Pieces, Ø 165x15 mm

C3060/A-02 | Distance Pieces, Ø 165x30 mm

C3060/A-03 | Distance Pieces, Ø 165x40 mm

C3060/A-04 | Distance Pieces, Ø 165x90 mm

C3060/E-05 | Distance Pieces, Ø 205x30 mm

C3060/E-06 | Distance Pieces, Ø 205x50 mm

C3060/E-07 | 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.)
C3060/A-01	165x165x15 mm	2,5 kg
C3060/A-02	165x165x30mm	5 kg
C3060/A-03	165x165x40 mm	7 kg
C3060/A-04	165x165x90 mm	14 kg
C3060/E-05	205x290x30 mm	8 kg
C3060/E-06	205x290x50 mm	13 kg
C3060/E-07	205x290x90 mm	22 kg

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DIGITAL READOUT UNIT

The Digital Readout Unit 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.
- Can operate with 2 x AA batteries
- Real time numeric display of load and load pressure
- 1 channel with two different calibration table
(can be used for 2 sensors)
- Peak hold property
- Multi-point calibration
- Easy preload zeroing
- 8 keys keyboard
- Serial port for PC or printer

The Digital Readout Unit is a very convenient readout unit that can be used to retrofit old compression machines with manometer (gauge).



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