

Choose the Original
Choose Success!

BASIC-LINE

Compression- and Bending Testing Machine MEGA 7-3000-100

- accuracy acc. to DIN EN ISO 7500-1, EN 12390-4, class 1 - straintest execution
- for compressive strength tests on concrete cubes and cylinders especially acc. to EN 12390-3, EN 206
- for bending tensile tests on concrete beams especially acc. to EN 12390-5
- with accessories / options also for kerb stone tests EN 1340
- compressive strength tests on cement and mortar acc. to EN 196 / EN 1015
- integrated drive station for semi-automatic load increase through fine-flow control valve in connection with digital display **DIGIMESS[®] MIO** with actual value display of the load increase in N/mm²/sec or kN/sec



Technical Data – Compression Test 4-Columns Test Frame

- test load max.: 3000 kN
- piston stroke: 50 mm
- upper pressure plate: Ø 300 mm
- lower pressure plate: Ø 300 mm
- hardness of pressure plates: 53 HRC
- test area height: 330 mm
- measuring range: 120.00 ... 3000 kN
- display area: 0 ... 3000 kN
- force measurement via an electronic liquid pressure transducer

Technical Data – Bending Test 2-Columns Test Frame

- test load max.: 100 kN
- piston stroke: 80 mm
- test area height: 165 mm
- length of bending roller: 210 mm
- bending roller Ø: 40 mm
- bending roller distance: 80 ... 600 mm
- measuring range: 4.00 ... 100 kN
- display area: 0 ... 100 kN
- force measurement via an electronic liquid pressure transducer
- voltage: 230 Volt, 50 Hz, 1.5 kW
- weight: approx. 1150 kg



special design with bending testing for prisms (cement/mortar)



Technical Data - Digital Display

- 5-digit LCD-screen display
- 16-bit processor technology
- two measuring ranges (compression and bending)
- resolution 60,000 digits
- automatic zero balance
- programmable strength calculation of 30 different test specimens
- display of strength in N/mm² or Mpa
- display adjustable in kN, N, kg, kp, to or bar
- peak value memory with reset button
- code-protected calibration resp. linearization
- interface USB

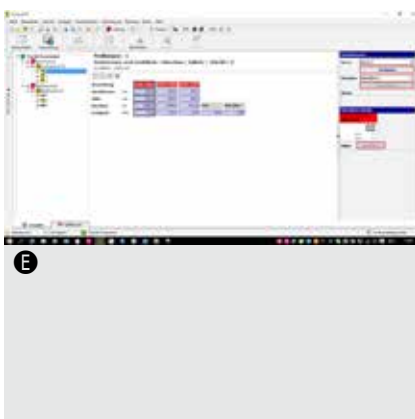
Options:

- larger pressure plates dimensions 210 x 420 x 40 mm
- extension of bending table bending roller distance: 80 ... 900 mm
- expansion of bending test frame for bending roller lengths of 510 mm
- Ⓐ insert for 4-point loading
- Ⓑ set compression plates with pendulum axle
- Ⓒ compression for curbstones
- Ⓓ compression device DV 600 AZ (only applicable in connection with set of pressure plates)
- Ⓔ test software **PROTEUS^{MT}**



Available with following test loads:

- for compression test: 2000 and 3000 kN
- for bending test: 100 and 200 kN



Form + Test Prüfsysteme

Prüfprotokoll
 Auftragsnummer: Prismen Datum: 17.06.99

Bemerkungen:

Luftfeuchtigkeit: %
 Wassertemperatur: %

Biegezug-Druck-Versuch EN 196 Prüfkörper: Prismen 40x40x160

Serie Bezeichnung: mit Biegezug Prübe: Probealter: 227 Tage 09/28
 Herstellungsdatum: 02.11.1998 / 00:00 Probenvorgabesalter: 28 Tage
 Prüfdatum: 17.06.1999 / 09:28

Prüfkörper	Abmessungen (mm)	Masse (g)	Bruchlast (kN)	Bruchlast (MPa)	Bruchlast (N/mm ²)	Bruchlast (N/mm ²)	Bruchlast (N/mm ²)
1	40,0 40,0 160,0	—	4,4	10,3	77,6	72,5	48,9
2	40,0 40,0 160,0	—	4,3	10,1	86,8	84,1	53,0
3	40,0 40,0 160,0	—	4,3	10,1	79,7	67,2	42,0*

Mittelwert: 10,2
 Standardabwe.: 2,1

* Einzelwerte vorverworfen Güteprüfung: bestanden



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