

Choose the Original
Choose Success!

BASIC-LINE

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

- accuracy acc. to DIN EN ISO 7500-1 class 1, EN 12390-4:2025 class A, 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
- automatic load increase via digital controller **DIGIMAXX® C44** for constant load increase controllable as ramp function between 0.1 - 50 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: 210 x 210 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: 1.00 ... 100 kN
- display area: 0 ... 100 kN
- force measurement via a high-precision, lateral force-insensitive load cell
- voltage: 230 Volt, 50 Hz, 1.5 kW
- weight: approx. 1150 kg





Technical Data – Digital Controller

- capacitive and robust 7" touch display
- PID-controller with DSP processor
- measuring- and control cycle 2 kHz
- transmission of measured value up to 1 kHz
- freely programmable test sequences
- real-time display of the measuring channels as well as of the specimen strengths and test speed
- authorization model with different role and access authorizations (tester, laboratory manager, service technician, administrator)
- automatic and manually zero-adjustment
- adjustable break detection
- adjustable piston back-travel time
- specimen storage for test results
- USB port for data export
- Ethernet connection for communication with PC software



Options:

- larger pressure plates dimensions 210 x 420 x 40 mm
- extension of bending table bending roller distance: 80 ... 900 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: Primen Datum: 17.06.99

Bemerkungen:

Luftfeuchtigkeit %
Wassertemperatur %

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

Serie Bezeichnung: mit Biegezug Prüfer:
Herstellungsdatum: 02.11.1998 / 00.00 Probenalter: 227 Tage 09.28
Prüfdatum: 17.06.1999 / 09.28 Probenvorgabalter: 28 Tage

Prüfnummer	Luftfeuchtigkeit [%]	Wassertemperatur [%]	Masse [kg]	Bruchlast [kN]	Bruchlast [MPa]	Bruchlast [N/mm²]	Bruchlast [N/mm²]	Bruchlast [N/mm²]		
1	40,0	40,0	160,0	—	4,4	10,3	77,6	72,0	48,9	45,3
2	40,0	40,0	160,0	—	4,3	10,1	86,8	84,8	54,1	53,0
3	40,0	40,0	160,0	—	4,3	10,1	79,7	67,2	49,9	42,0*

Mittelwert: 10,2
Standardabweichung: 2,1

* Einzelwerte vorzortrennen Güteprüfung: bestanden



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