



Compression and Bending Testing Machine MEGA 100-200-10 DM1-S

- accuracy according to DIN EN ISO 7500-1, class 1
- for compression and flexure strength tests according to EN 196, EN 1015, EN 13892-2 with options also acc. EN 12504-1 and EN 993-5
- automatic load increase by digital controller **DIGIMAXX® C40** with servo valve in closed loop system with nominal-actual value comparison

Technical Data – Compression Test

- test load max.: 200 kN
- working pressure max.: 192.55 bar
- piston stroke: 50 mm
- upper pressure plate: 40 mm
- lower pressure plate: 40 mm
- hardness of pressure plates: 58-62 HRC > 600 HV
- test area height: 50 mm
- inner width of test frame: 226 mm
- measuring range: 2.00 ... 200 kN
- display area: 0 ... 200 kN

Technical Data – Bending Test

- test load max.: 10 kN
- working pressure max.: 79,57 bar
- piston stroke: 50 mm
- test area height: 50 mm
- length of bending roller: 50 mm
- bending roller Ø: 10 mm
- bending roller distance: 100 mm
- measuring range: 0.2 ... 10 kN
- display area: 0 ... 10 kN
- force measurement via electronic load cell which is insensitive to shear force
- voltage: 3x 400 Volt, 50 Hz, 3.0 kW
- weight: appr. 450 kg



Technical Data – Digital Controller

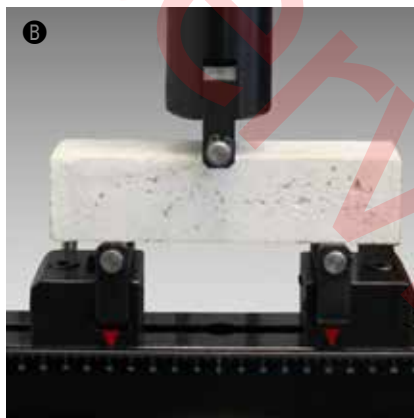
- capacitive and robust 7" touch display
- PID-controller with DSP processor
- modular system with expansion options up to 8 control and measuring channels – 18 Bit
- measuring- and control cycle 2 kHz
- transmission of measured value up to 1 kHz
- freely programmable test sequences
- real-time display 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
- 6 digital inputs galvanically isolated
- 9 potential-free relay outputs
- USB port for data export
- Ethernet connection for communication with PC software

Options:

- larger (higher) test area
- larger pressure plates
dimensions 110 x 110 x 30 mm
dimensions Ø 210 x 40 mm
dimensions 210 x 210 x 40 mm
- **A** set of pressure plates with floating axle for the bending test area
- **B** bending table with adjustable bending rollers 30 ... 250 mm
- **C** compression device DV 600 AZ
- **D** E-modulus measuring equipment
- test software **PROTEUS^{MT}**
- transfer software

Available with following test loads:

- for compression test:
100 kN, 200 kN, 300 kN
- for bending test:
10 kN, 20 kN, 30 kN



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