



Refractory products

## Compression- and bending testing machine MEGA 10-1000-50 DM1-S

- accuracy acc. to DIN EN ISO 7500-1, class 1
- for the cold compression strength on specimens especially acc. to EN 993-5, EN 1402-6, EN 1094-5, ISO 8895, ISO 10059-1, ISO 10059-2
- for the cold bending strength on specimens especially acc. to EN 993-6, EN 1402-6
- with accessories / options also for E-modulus measurements as well as compression strengths on cement acc. to EN 196
- automatic load increase through control via digital controller DIGIMAXX® C-20 with servo valve in closed loop system with permanent comparison of nominal value and actual value

### Technical dates – compression test

- test load max.: 1000 kN
- piston stroke: 50 mm
- upper compression plate: Ø 210 mm
- lower compression plate: 210 x 210 mm
- hardness of compression plates: 53HRC
- test chamber height: 320 / 270 mm
- clear distance of testing frame: 275 mm
- measuring range: 20.00 ... 1000 kN
- display range: 0 ... 1000 kN
- load measuring via electronical precision liquid pressure transducer

### Technical dates – bending test

- test load max.: 50 kN
- piston stroke: 70 mm
- test chamber height: 120 mm
- bending roller length: 120 mm
- bending roller distance: 30 ... 250 mm
- bending roller: Ø 30 mm
- measuring range: 1.00 ... 50 kN
- display range: 0 ... 50 kN
- load measuring via shear force wear-resistant electronic precision load cell
- voltage: 3x 400 Volt, 50 Hz, 1.5 kW
- weight: approx. 1150 kg





### Technical dates – digital display

- LCD-screen-display, 5 numbers
- resolution 60,000 digits
- automatic zero point correction
- programmable calculation of the strength of 30 different specimens as well as the corresponding standard speeds
- display of strength in N/mm<sup>2</sup> or Mpa
- adjustable display in kN, N, kg, kp, to or bar
- peak value memory and reset key
- code protected calibration / linearization
- serial interface RS 232 to recall the peak value

### OPTIONS:

- **A** compression device DV 600 with compression plates Ø 60 mm
- **B** compression device DV 600 AZ with compression plates 40 x 40 mm
- **C** set compression plates with pendulum axle for bending test unit
- **D** E-modulus measuring equipment
- **E** building material test software PROTEUS
  - transfersoftware WinTrans
  - electronic displacement measuring and control equipment
  - simulations control for compression- and bending test at same time
  - oil-water cooler

### Available with following test loads:

- for compression test:  
500, 600, 1000 and 1200 kN
- for bending test:  
20, 30 and 50 kN



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