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Choose Success!

## ECONOMY-LINE

### Compression and Bending Testing Machine MEGA 8-1000-100

- accuracy acc. to DIN EN ISO 7500-1, class 1
- for compression and bending strength tests on refractory products according to EN 993-5, 993-6 resp. EN 1402-6 EN ISO 1927-6, EN DIN 51067-1 – DIN 51048-2 (old) depending on accessories
- with accessories / options also for compressive strengths on cement and mortar acc. to EN 196 / EN 1015
- compact machine with integrated drive station UB
- automatic load increase by digital controller **DIGIMAXX® C-40** with servo valve in closed loop system with nominal-actual value comparison



#### Technical Data – Compression Test 2-Columns Test Frame

- test load max.: 1000 kN
- piston stroke: 100 mm
- upper pressure plate: Ø 210 mm
- lower pressure plate: 210 x 210 mm
- hardness of pressure plates: 53 HRC
- test area height: 240 mm
- inner width of test frame: 275 mm
- measuring range: 10.00 ... 1000 kN
- display area: 0 ... 1000 kN
- force measurement via an electronic load cell insensitive to shear forces

#### Technical Data – Bending Test 2-Columns Test Frame

- test load max.: 100 kN
- piston stroke: 80 mm
- test area height: 110 mm
- inner width of test frame: 270 mm
- length of bending roller: 120 mm
- bending roller Ø: 40 mm
- bending roller distance: 80 ... 350 mm
- measuring range: 1.00 ... 100 kN
- display area: 0 ... 100 kN
- force measurement via an electronic load cell insensitive to shear forces

- dimension: 1740 x 580 x 1585 mm
- weight: approx. 1150 kg
- voltage: 400 Volt, 50 Hz, 3.0 kW



### 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:

- Ⓐ compression device DV 1000 RF with compression plates 65 x 120 mm
- Ⓑ compression device DV 600 with compression plates Ø 60 mm
- Ⓒ bending device BV 30 OM
- Ⓓ set compression plates with pendulum axle for bending test unit
- Ⓔ measuring equipment for modulus of elasticity
- electronic piston stroke measuring and control equipment
- test software **PROTEUS<sup>MT</sup>**
- all-in-one PC with touch screen

### Available with following test loads:

- for compression test:  
600, 1000 and 1200 kN
- for bending test:  
60, 100 and 200 kN



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