



ECONOMY-LINE

Compression and Bending Testing Machine MEGA 6-3000-200 SD

- accuracy acc. to DIN EN ISO 7500-1, EN 12390-4, class 1 – strain test execution
- for compressive strength tests on material samples especially acc. to EN 12390-3, EN 12504-2, EN 206
- for bending strength tests on material samples especially acc. to EN 12390-5, EN 1339, EN 1341
- with accessories / options also for tests acc. to EN 1340, EN 1343 as well as compressive strengths on cement and mortar acc. to EN 196 / EN 1015

Compact Base UB 03-C40

- machine base with lateral housing for the display / controller for 2 test cylinders
- modular design for the extension up to 4 machine frames
- electric multi-piston hydraulic pump mounted in the oil tank
- microfilter
- servo valve
- pressure control valve
- electrical control
- electric supply: 3x 400 V, 50 Hz, 2.2 kW
- 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

- test load max.: 3000 kN
- piston stroke: 100 mm
- upper pressure plate: Ø 320 mm
- lower pressure plate: Ø 300 mm
- hardness of pressure plates: 53 HRC
- test area height: 340 mm
- inner width of test frame: 355 x 255 mm
- measuring range: 60.00 ... 3000 kN
- display area: 0 ... 3000 kN
- force measurement via electronic liquid pressure transducer

Technical Data – Bending Test

- test load max.: 200 kN
- piston stroke: 220 mm
- test area height: 220 mm
- length of bending roller: 510 mm
- bending roller Ø: 40 mm
- bending roller distance: 80 ... 900 mm
- measuring range: 2.00 ... 200 kN
- display area: 0 ... 200 kN
- force measurement via electronic load cell insensitive to shear forces



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

Accessories and Options:

- larger (higher) test area
- larger pressure plates
dimensions 320 x 320 x 75 mm
dimensions 320 x 420 x 75 mm
dimensions 320 x 520 x 75 mm
- **A** insert for 4-point loading
- **B** splitting tensile strength device - EN 1338
- **C** compression die for curbstones - EN 1340
- **D** set of pressure plates with floating axle (Ø 230 x 40 mm)
- **E** compression device DV 600 AZ (only applicable in connection with set of pressure plates)
- electronic piston stroke measuring and control equipment
- test software **PROTEUS^{MT}**

Available with following test loads:

- for compression test:
2000 and 3000 kN
- for bending test:
100, 200 and 300 kN



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