

FORM+TEST[®]
PRÜFSYSTEME



TEST SYSTEMS EM

Professional Solutions for
Material and Components
Testing



UNIVERSAL TEST MACHINE EM

| | |
|--------------------------|--|
| Size | F_{nom} : 5 - 250 kN |
| Accuracy | class 1 (0.5 optionally) according to DIN EN ISO 7500-1: ASTM E4 |
| Specimens | standard test pieces, components and parts in the destructive and non-destructive test range (e.g.: metals, lastomers, composites) |
| Area of Use | demanding static and quasistatic tests in research/development and quality control aviation, car industry, ship building, railway vehicles, medical technology |
| Test Fields | flexible configuration TENSILE-, COMPRESSION- and BENDING TESTS depending on accessories |
| Frame | modern design considering the ergonomic needs of the operator very rigid two-room test frame for flexible tests |
| Drive | powerful, maintenance-free, digitally controlled electromechanical drive pre-stressed ball screws, free from play |
| Hand wheel | for the manual drive of the test cylinder steplessly adjustable movement speed |
| Force Measurement | strain gauge force transducer for tensile and compressive forces optionally mounted on the piston rod or on the baseplate |

Options/Accessories

broad range of specimen holders, tensioning equipment, compression plates, bending tables, T-slot tables, transport devices, climate chambers, protective equipment, integrated operating elements

Digital Control System control station RS-C30; 24-Bit digital controller DIGIMAXX C-30[®] for demanding static and dynamic tests

Software „PROTEUS^{MT}“ the user-friendly operating interface for the programming, execution and evaluation of static and dynamic tests

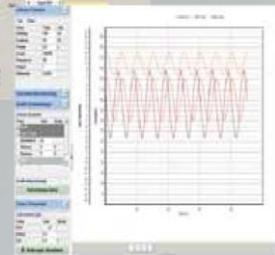
Advantages of the Universal Test Machine EM

universal application area for tensile, compression and bending testing, static and quasistatic versatile application possibilities due to a variable set-up of the test structure (e.g.: tension-torsion; multicomponent applications) customer-specific modifications of the mechanical and performance specific data are possible any time





| Item | Value | Unit |
|------|-------|------|
| 1 | 10.5 | mm |
| 2 | 15.2 | mm |
| 3 | 20.1 | mm |
| 4 | 25.8 | mm |
| 5 | 30.4 | mm |
| 6 | 35.9 | mm |
| 7 | 40.3 | mm |
| 8 | 45.7 | mm |
| 9 | 50.2 | mm |
| 10 | 55.6 | mm |
| 11 | 60.1 | mm |
| 12 | 65.5 | mm |
| 13 | 70.0 | mm |
| 14 | 75.4 | mm |
| 15 | 80.8 | mm |
| 16 | 85.3 | mm |
| 17 | 90.7 | mm |
| 18 | 95.2 | mm |
| 19 | 100.6 | mm |
| 20 | 105.1 | mm |



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