Testing Software for Building Materials
PROTEUS-MT

We offer flexible and powerful building materials testing software. Available are different software packages in accordance with the relevant international standards.

The packages offers fully automatic control of the test procedure and data collection of results including analysis and reporting.

Control and evaluation has never been as user-friendly as it is now when using these application packages.

These packages offers you both, rapid and productive testing but also specialized applications for advanced testing requirements.
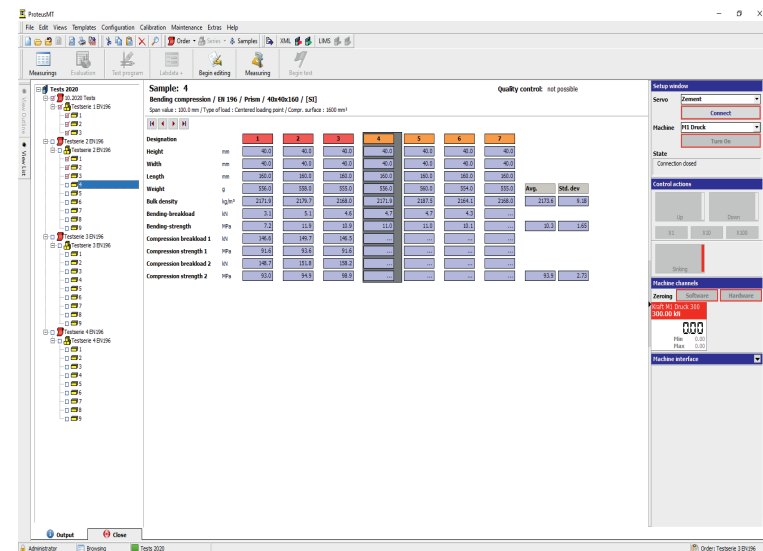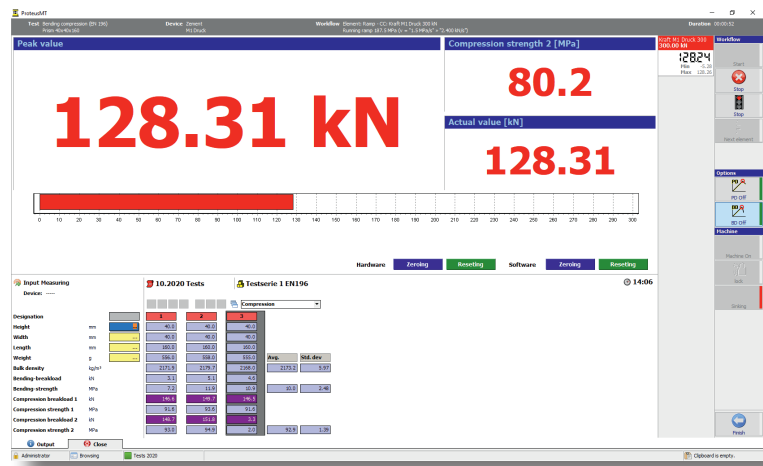
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PROTEUS-MT offers many advantages in the field of building materials testing. Test control, data collection and evaluation and reporting capabilities have never been as user-friendly. PROTEUS-MT offers both, rapid and productive testing but also specialised applications for advanced testing.

Features

- The high degree of flexibility brought by template generation and by the test editor allows configuring the program according to the exact specifications needed.

- PROTEUS-MT is not only used in cement and ready-mix plants, building material test laboratories, but also for R&D in technical universities.

- Standard test types according to current standards, can be expanded in a modular way.
  Option: test editor, to define custom-specific test sequences

- Supports all widely used sample bodies with no dimensional limitations.

- Standard tests and special tests defined and stored as test templates. (Parameters set automatically according to the Standard used.)

- Custom test templates can be scaled according to the number of measurements, of decimal places, etc.

- Keying in an order and testing as separate activities.

- Mixed tests within a single test order (e.g. Elasticity Modulus and Pressure Test, etc.)

- Log output (including charts) according to type of test and of sample.
  Option: form designer for custom adaptation of log.

- Structured Database (SQL) with additional custom data that can be defined at every level (Order-Series-Sample), Object-Oriented, Modular and Network-Ready

- Data export in ASCII-format.
  Option: additional processing in external software such as your Laboratory Information Management System.

- Supports measuring devices such as measuring station, scales and slide gauges.

- Password protection for sensitive functions (H/W configuration, templetes, etc.)

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Templates Make Testing Fast and Easy

Test templates contain all parameters needed for testing, such as Type of Sample, Type of Test, Test Standard, Quality Control, Graphical Representation and more. Several tests within a single order performed by assigning a test template to the series. Custom-made additional test templates can be defined in addition to the standard ones.
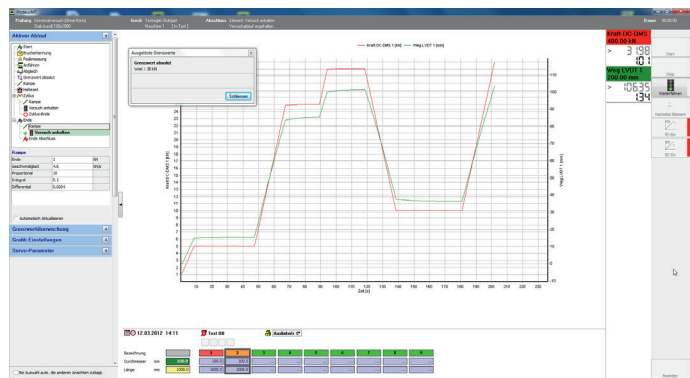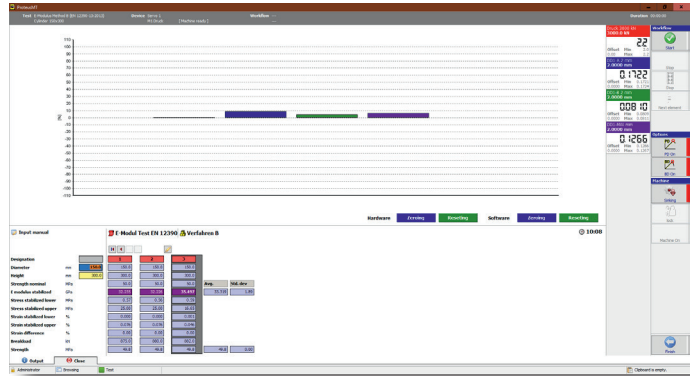
Simple to Operate

- All program functions can be selected with the mouse. The main functions may also be called with a combination of keys. Powerful object-specific functions called directly with the right mouse button to speed up operations: Copy, Paste, Clear

- Test classification in a relational database

- Database Structure: Databases can be structured according to any suitable folder hierarchy. Thus, tests can be sorted according to individual criteria, e.g. according to customers or suppliers, materials, type of test, time scales, test bodies. Each database contains any number of orders and series. A series contains at most 99 samples. Example: An order contains 3 series (Age 2, 7 and 28 days), each one with 3 samples.

- Data Export for Additional Processing: The data export function provides an interface with other external programs and stores the data in standard ASCII format. Option: Customer-specific ASCII formats.

- Logging: All series in an order can be printed out. The type of form is correctly handled by the Logging Manager, based on the test template. Option: Form Designer for custom-specific adaptation of forms.

Standard Sample Bodies

Depending on the type of test and the standard, the following approved sample bodies are available:

- Cubes:
  10, 15, 20 cm, 4, 6 inch

- Cylinders:
  10 x 20, 12 x 36, 15 x 15, 15 x 30, 16 x 32, 20 x 20, 20 x 40 cm

- Drilling Cores:
  50 x 50, 50 x 100, 80 x 80, 80 x 160 mm

- Prisms:
  40 x 40 x 160 mm

- Bars:
  10 x 15 x 70, 12 x 12 x 36, 15 x 15 x 70, 20 x 20 x 90 cm
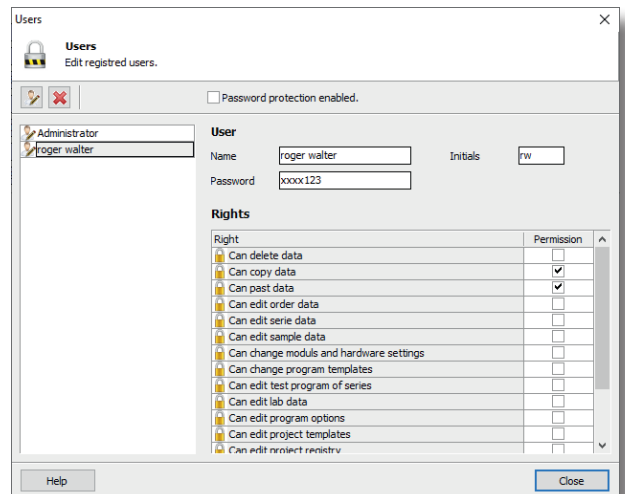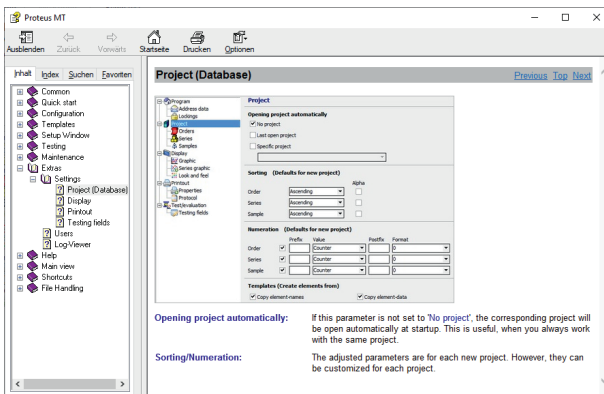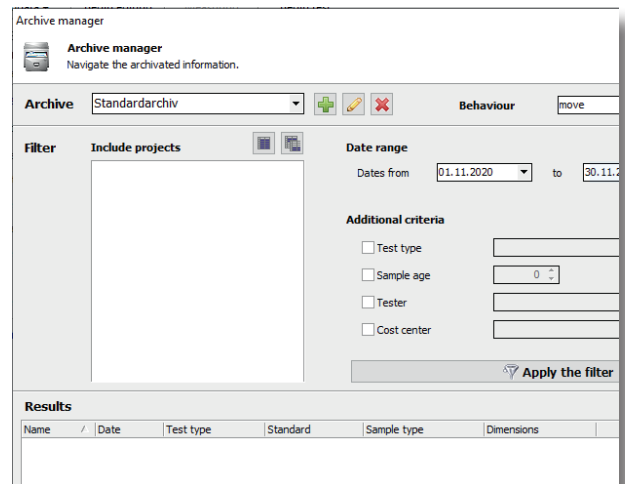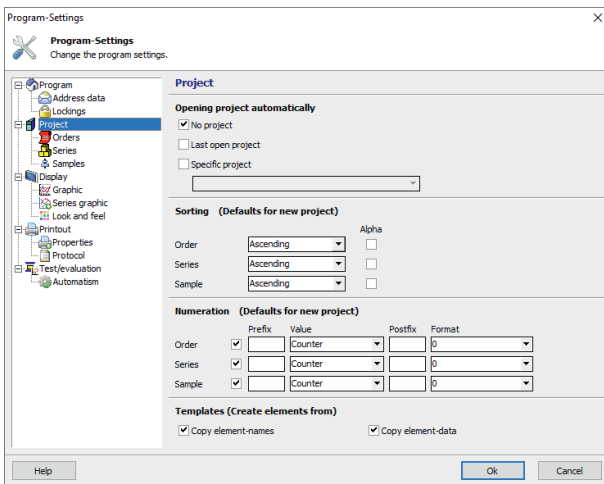
- Plates:
  60 x 60 x 10 cm

Dimensions to be selected without limitations.

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PROTEUS-MT Basis Module

- Data base contains a sample administration.
- Actual test and printer list with calendar make the daily work easier
- Connection of several controllers or measurements with up to 4 machines each
- is possible.
- For the combination bending-compression test 2 controllers are simultaneously in operation.
- Works with sliding gauge, balance, dial gauge and digital measuring station.
- Templates simplify the tests fundamentally. They are made with help of an assistant.
- Universal and special tests can be arranged on a graphically surface.
- Automated routine tests are easily created
- Password protection for the laboratory head for templates and hardware adjustments
- Standard export of the results in the ASCII-format for further processing in other programs
- Standard protocols for all tests, optional with or without graphic.
- Number of digits and rounding of the results can be indicated in the templates.
- Laboratory data base for further data fields in the order or series with choice of data, text and numeric fields with description and sorting
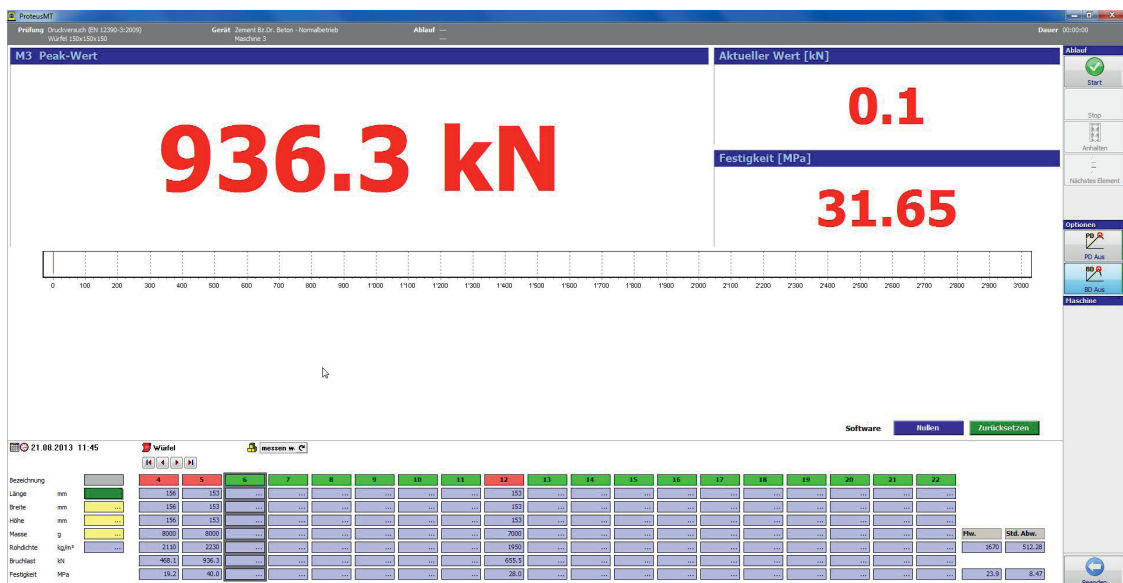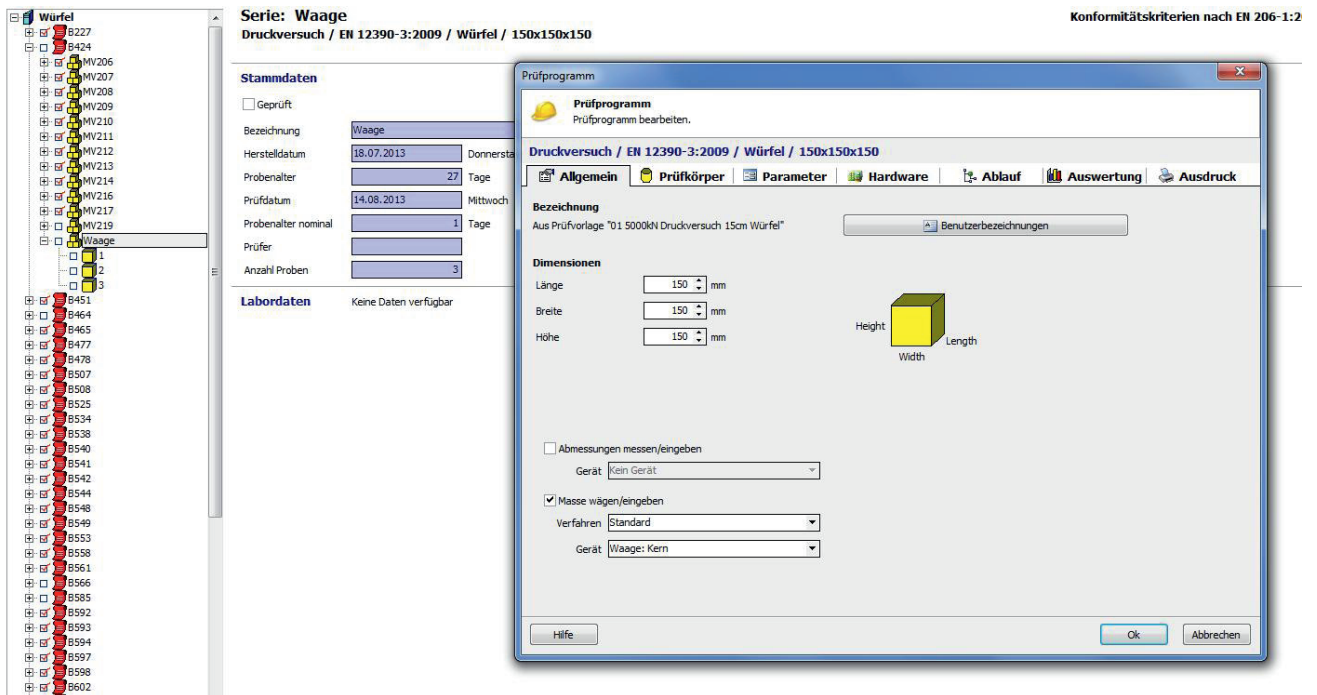- Program for the calibration of the machine with DIGICON 4000

Concrete Testing

Proteus offers an extensive and growing library of standards-compliant test methods the field of concrete testing. These templates offer fast and easy operation and automatic test control, data collection, evaluation, and reporting capabilities.
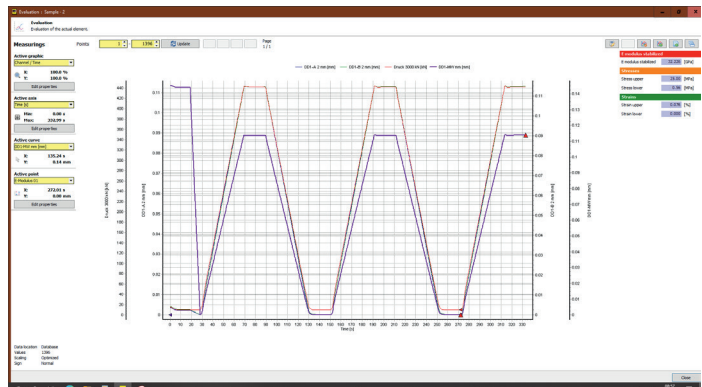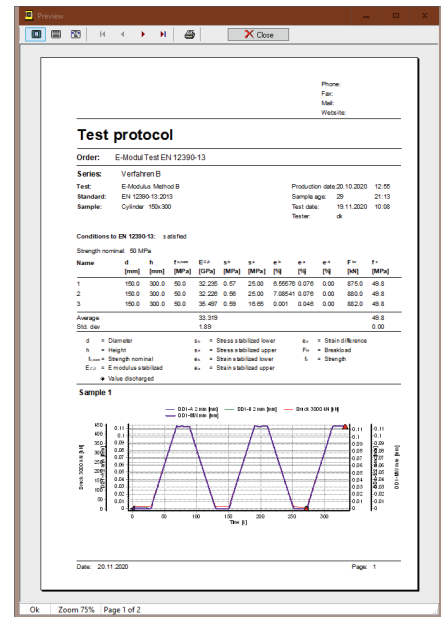
These templates contain all parameters needed for testing, such as type of sample, type of test, test standard, quality control, graphical representation and more. Analysis including mean value and standard deviation of a series or group of tests.
Custom-made additional test templates can be defined in addition to the standard ones.

Entering of definable laboratory information data as production data, production place, delivery date and so on as well as integral calibration and linearisation.

$w+b$ Materials Testing Systems

Available Templates

- Compression Tests according to EN 12390-3, ASTM C39, ASTM C873, ASTM D7012, ASSHTO T22, EN 12504-1, EN 206, DIN 1048, SIA 162-1, ÖNB 3303, NFP 18406, BS 1881
- Flexural (Bending) Tests according to EN 12390-5, ASTM C293, ASTM C78, AASHTO T97, DIN 1048, ÖNB 3303, NFP 18406
- Tensile Splitting (Brazilian Test) Template according to EN 12390-6, ASTM D3967, ISRM, DIN 1048, BS 1881, NPF 18-406, ÖNB 3303
- Modulus of Elasticity in Compression according to EN 12390-13, ASTM C469, ISO 6784, DIN 1048-5, ÖNB 3303, SIA 262, EN 13286-43, NS 676
- Modulus of Elasticity in Flexure (Bending)
- Compression and Tensile E-Modulus Testing according to EN 13286-43
- Axial and Diametral Deformation with E-Modulus according to DIN 18555
- E-Modulus on Cores in Horizontal Position
- Flexural Test with bending deformation
- Splitting Tensile Test with Radial Strain
- Paving Stone Splitting Test (Brazilian Test) according to EN 1338
- Plate Bending Test according to EN 1339
- Curb Bending Test on curb stones according to EN 1340
- Fibre Reinforced Concrete Test (Energy Absorption Test)
- Energy Test of sprayed Concrete according to DBV Data Sheet or SIO 262-6
- Bending Test of Sprayed Concrete according to NFP 18409
- Testing of Fibre Metallic Reinforce Concrete according to EN 14651
- Testing of sprayed Concrete on reinforced platens according to EN 14651
- Pipe Testing according to EN 1916
- Masonry Testing according to EN 1052
- Testing of Brick according to EN 772-1
- Gully Top Testing according to EN 124
- And others