FORM+TEST®
PRÜFSYSTEME

Summary of Our Products

Testing Equipment

for Concrete, Mortar, Cement and Aggregates

Testing equipment for concrete, cement, mortar as well as special machines and systemic laboratory furniture

ORIGINAL FORM+TEST® PRÜFSYSTEME

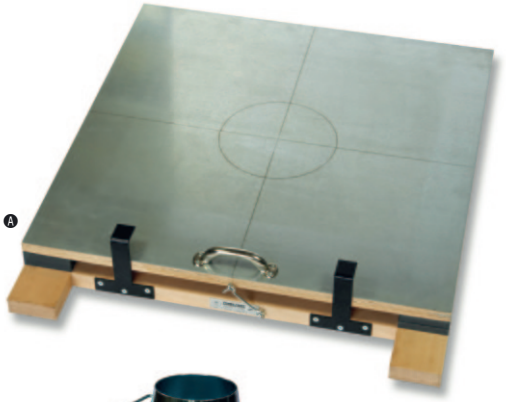
Table of Contents

FORM+TEST
PRÜFSYSTEME

Fresh Concrete Test

EN 206 – EN 12350

EN 12350-5



Ⓐ Flow Table - without Accessories
- with galvanized table plate
- dimensions: 700 x 700 mm +/- 2 mm
- weight of moveable table plate 16 +/- 0.5 kg
- stroke height 40 mm

Order-No. B18143

Ⓑ Tamping Bar
- made of hardwood

Order-No. B18142

Ⓒ Placing Funnel
- acc. to DIN EN 12350-5

Order-No. B18141

Ⓓ Dirt Collar
- for put up on the placing funnel

Order-No. B18144

Ⓔ Flow Table - without Accessories

like Ⓐ , but with:
- swivel-in and out foot plates
- four-point support via 4 plates 80 x 80 mm
- table can be used both on the base frame and mobile on the construction site, as it is fixed to the base frame with magnets

Order-No. B18145

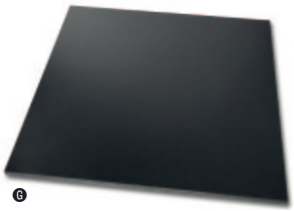
Ⓕ Base Frame - for B18145
- dimensions: 700 x 700 x 630 mm
- working height with flow table: 750 mm
- painted steel construction
- flow table fixed to frame via stops and magnets, allowing easy removal of the table and mobile use
- plastic foot studs, adjustable

Order-No. B181451

Placing funnel (without picture)
- with dirt collar and 2 additional magnetic holders

Order-No. B181412

EN 12350-2



Ⓖ Slump-Test Set

consisting of:
- plastic plate 500 x 500 x 10 mm
- placing funnel
  upper Ø 100 mm
  lower Ø 200 mm
  height 300 mm
- tamping bar made of steel Ø 16 x 600 mm, rounded at one end

Order-No. B1901

Ⓗ Bevelled Straight Edge
- made of steel
- with bevel
- lenght 400 mm

Order-No. B1613

Choose the Original
Choose Success!

FORM+TEST
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Fresh Concrete Testing

Air Content Tester / Air Entrainment Meter

- compact apparatus
- with stable manometer protection usable as handle for the upper part
- hand-operated pump for test pressure
- needle valve with knurled screw to reset the pressure to “0%”
- durable and easy to service
- delivery with calibration tubes and washing bottle

Technical Data:

- **content: 8 Liter**
- **weight: 12.4 kg**

Standards:

- EN 12350-7
- DIN 1048 Teil 1
- ASTM C 231 - Type B
- BS 1881
- GOST 10181

Order No. B2020

- **content: 5.5 Liter**
- **weight: 10.5 kg**

Standards:

- EN 12350-7
- GOST 10181

Order No. B20225

Accessories:

Extension Collar / Filling Ring

- for easier filling
- with 3 clamping hooks

Order No. B2021 - 8 Liter
Order No. B20215 - 5.5 Liter

Carrying Case for B20225 (5,5 Liter)

- stable aluminium case with hard wearing surface
- interior with rigid foam insert with space for washing bottle and calibration tubes
- two solid and safe one hand tension locks
- vent holes in the bottom and in two sidewalls
- dimensions approx.
  height: 620 mm
  (in grip position 665 mm)
  width: 325 mm
  depth: 345 mm
- weight (empty): 5.0 kg

Order No. B2024

made in Germany

VDMA

Choose the Original
Choose Success!

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Fresh Mortar

Air Content Tester / Air Entrainment Meter

- compact apparatus
- with stable manometer protection usable as handle for the upper part
- hand-operated pump for test pressure
- needle valve with knurled screw to reset the pressure to “0%”
- durable and easy to service
- delivery with calibration tubes and washing bottle

Technical Data:

- content: 1 Liter
- weight: 5.8 kg

Standards:

- EN 413
- EN 459
- DIN 18555

Order No. B2030

Technical Data:

- content: 0.75 Liter
- weight: 5.8 kg

Standards:

- EN 413
- EN 459

Order No. B2040

Accessories:

Extension Collar / Filling Ring

- for easier filling
- with 2 clamping hooks

Order No. B2031

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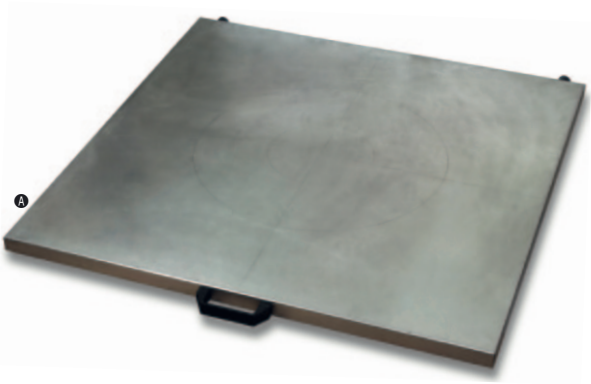
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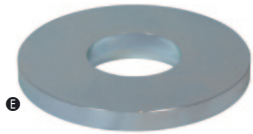
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Self-Compacting Concrete SVB / SCC

EN 12350

EN 12350 - Part 8
Ⓐ Working Plate – Flow Plate
- dimensions: 900 x 900 x 30 mm
- with carrying handle
- with marks (reference circles) for setting funnel Ø 210 mm
- for T-500 mm-measuring

Order-No. B19022

EN 12350 - Part 12
Ⓑ Blocking Ring - J-Ring
- adjustable execution
- 16 rods Ø 18 mm

Order-No. B18355

EN 12350 - Parts 8 + 12
Ⓒ Setting Funnel with Step Plate
- upper diameter: 100 mm
- lower diameter: 200 mm
- height: 300 mm

Order-No. B19011

EN 12350 - Parts 8 + 12
Ⓓ Setting Funnel without Step Plate
- diameter and height as described under Ⓒ

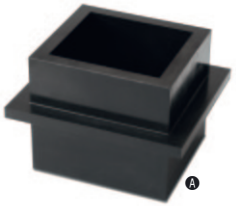
Order-No. B19012

EN 12350 - Parts 8 + 12
Ⓔ Collar for Setting Funnel (Support Weight)
- weight: approx. 9.25 kg

Order-No. B19016

made in Germany

VDMA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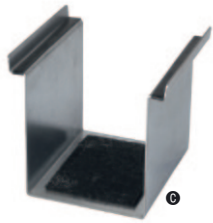
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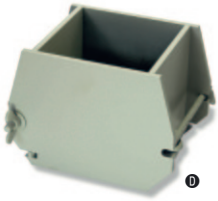
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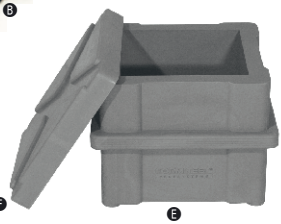
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Hardened Concrete Test

EN 12390

Ⓐ Specimen Cube Mould 150 x 150 mm
- for production of specimens
- special plastic, black, one-part, with holding border
- rapid take out through water or air pressure

Order-No. B1521

Ⓑ Plastic Plugs
- for specimen cube mould B1521
- packing unit each 100 pc.

Order-No. B15211

Ⓒ Demoulding Support
- for specimen cube mould B1521/B1515
- for an easy demoulding

Order-No. B1511

Ⓓ Specimen Cube Mould 150 x 150 mm
- for production of specimens
- special steel construction, 2 parts, screwed, splitted diagonally

Order-No. B1531

Ⓔ Specimen Cube Mould 150 x 150 mm
- made of grey plastic, one-part, with holding border
- rapid take out through water or air pressure

Order-No. B1515

Ⓕ Cover for Specimen Cube Mould
Order-No. B1516

Ⓖ Cube Labels
- with imprint grey
- approx.140 x 140 mm
- packing unit each 100 pc.

Order-No. B152130

Ⓗ Compressed Air Demoulding Pistol
- with 10 m tube and connection piece

Order-No. B15200

Ⓘ Electric Vibrating Table
- for compacting of fresh concrete
- with foot switch
- 2.5 m cable with plug
- galvanized execution
- table size 310 x 310 mm
- rotations per minute 3000 rpm.
- electric connection 230 V / 50 Hz
- weight approx. 17.5 kg

Order-No. B17134

Ⓙ Electric Vibrating Table
- as before, but with
- connection by car-truck plug (cigarette lighter)
- electric connection 12 V
- weight approx. 17.5 kg

Order-No. B17135

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Hardened Concrete Test

EN 12390

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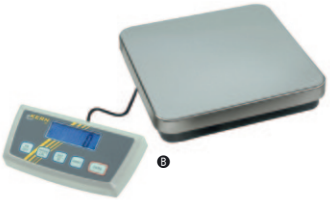
Ⓐ High Frequency Vibrating Table

- with timer (0 - 120 sec.)
- long-duration switch
- including 2.5 mtrs. of cable and plug
- galvanized execution
- table plate with bordering (at 2 diagonal corners)
- table size 330 x 550 mm
- rotations per minute 9000 rpm
- electric connection 220 V / 50 Hz
- weight approx. 34 kg

Order-No. B17182



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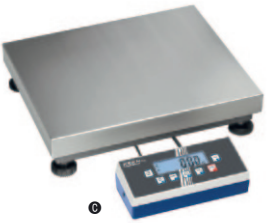
Ⓑ Electronic Platform Balance

- with separate display
- protection IP 65
- weighing platform made of stainless steel
- weighing platform: 310 x 300 mm
- weighing capacity: 0 ... 30 / 60 kg
- resolution: 10 / 20 g
- with supply unit 230 V

Order-No. O03510



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Ⓒ Electronic Platform Balance

- back lighted LCD display, digit size 25 mm
- weighing platform made of stainless steel
- operation by power supply unit or storage battery (available as option)
- basic model including power supply unit and protection cover for display unit
- weighing platform: 500 x 400 x 120 mm
- weighing capacity: 15/35 kg
- resolution: 0.5/1 g
- Minimum unit weight: 10 g

Order-No. O04000

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Ⓓ Climatic Box

- made of plastic
- for standard-conforming storage of 12 test cubes 150 x 150 mm
- digital display with real temperature display
- with cover stop
- stainless steel grid

Order-No. B2111

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Ⓔ Compression- and Bending Testing Machines for Quality Management of your Products

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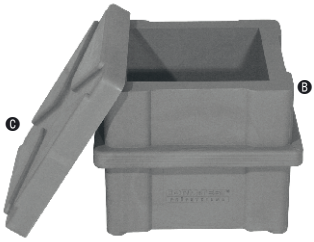
Ⓐ Specimen Cube Mould Type: Ready

- for making test cubes
- one-piece version made of special plastic, CFC-free, black, smooth surface
- circumferential grip edge in the middle serves as reinforcement
- low-wear and of stable shape
- base plate with hole
- for demoulding by water pressure or compressed air
- dimensions: 150 x 150 x 150 mm
- weight: 1.95 kg

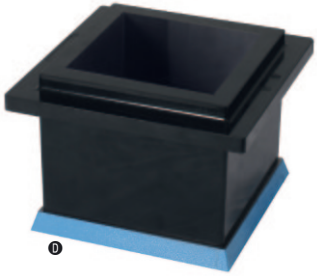
Order-No. B1521



Ⓑ Specimen Cube Mould

- light version
- for making test cubes
- one-piece plastic version, grey
- circumferential grip edge in the middle serves as reinforcement
- base plate with hole
- for demoulding by water pressure or compressed air
- dimensions: 150 x 150 x 150 mm
- weight: 1.70 kg

Order-No. B1515



Ⓒ Cover

- for specimen cube mould B1515, B1521 and B1513

Order-No. B1516

Ⓓ Specimen Cube Mould

- for making test cubes
- two-parts plastic version (plastic/casting)
- with screwed cast iron base plate with hole
- for demoulding by water pressure or compressed air
- dimensions: 150 x 150 x 150 mm
- weight: 4.55 kg

Order-No. B1513

Ⓔ Specimen Cube Mould

- light version
- for making test cubes
- one-piece plastic version, grey
- circumferential grip edge in the middle serves as reinforcement
- base plate with hole
- for demoulding by water pressure or compressed air
- dimensions: 100 x 100 x 100 mm
- weight: 0.90 kg

Order-No. B1514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Accessories:

Ⓐ Cube Tongs
• for test cubes 150 x 150 mm
Order-No. B2114

Ⓑ Cube Tongs
• for test cubes 150 x 150 mm
• long version
Order-No. B21140

Ⓒ Bevelled Straight Edge
• made of steel, with bevel
• lenght: 400 mm
Order-No. B1613

Ⓓ Label for Concrete Cubes
• for specimen cube moulds
• made of plastic, yellow, printed
• dimensions: 110 x 60 mm
• packing unit = 250 pcs.
Order-No. B1512

Ⓔ Label for Concrete Cubes
• for specimen cube moulds
• made of plastic, grey, printed
• dimensions: 145 x 145 mm
• packing unit = 100 pcs.
Order-No. B152130

Ⓕ Straight Edge
• length 300 mm
• stainless steel
• hardened and ground
• with hand heat protection
• incl. synthetic leather case
Order-No. S1404

Ⓖ Knife-Edge Square
• stainless steel
• incl. wooden case
Order-No. S1405

Ⓗ Feeler Gauge
• 20 blades (0.05 - 1.0 mm)
• stainless steel
• blade length 100 mm
Order-No. S1406

Ⓘ Concrete Probe HUMM
• determination of fresh concrete consistency
• solidification measurement
technical data:
• guide rod with lower and upper stop
• drop weight: 0.5 kg, drop distance: 200 mm
• total length approx.: ca. 535 mm
• total weight approx.: ca. 1,15 kg
Order-No. B1950

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Ⓐ Specimen Cylinder Mould

- for making cylindrical specimens
- two-parts version made of special steel
- "spring form"
- laterally slotted cylinder tube screwed to the base plate
- dimensions: Ø 150 x 300 mm
- weight: 7.6 kg

Order-No. B16011

Ⓑ Specimen Cylinder Mould

- for making cylindrical specimens
- two-parts version made of special steel
- "spring form"
- laterally slotted cylinder tube screwed to the base plate
- dimensions: Ø 100 x 200 mm
- weight: 4.5 kg

Order-No. B16021

Ⓒ Specimen Cylinder Mould Type: Ready

- for making cylindrical specimens
- one-piece version made of special plastic, CFC-free, black, smooth surface
- circumferential grip edge in the middle serves as reinforcement
- low-wear and of stable shape
- base plate with hole
- for demoulding by water pressure or compressed air
- dimensions: Ø 150 x 300 mm
- weight: 2.9 kg

Order-No. B16071

Ⓓ Specimen Cylinder Mould Type: Ready

- for making cylindrical specimens
- one-piece version made of special plastic, CFC-free, black, smooth surface
- circumferential grip edge in the middle serves as reinforcement
- low-wear and of stable shape
- base plate with hole
- for demoulding by water pressure or compressed air
- dimensions: Ø 160 x 320 mm
- weight: 3.1 kg

Order-No. B16091

Ⓐ Beam Mould
- for making test beams
- two-parts version made of special steel
- screwed to the base plate
- dimensions: 700 x 150 x 150 mm
- weight: 41 kg

Order-No. B15241

Ⓑ Beam Mould
- for making test beams
- two-parts version made of special steel
- screwed to the base plate
- dimensions: 500 x 100 x 100 mm
- weight: 25 kg

Order-No. B15251

Ⓒ Beam Mould
- for making test beams
- two-parts version made of special steel
- screwed to the base plate
- dimensions: 360 x 120 x 120 mm
- weight: 20 kg

Order-No. B15262

Accessories:

Ⓓ Adapter Frame
- for beam mould B15241

Order-No. B15271

Insert for Length Reduction 600 mm (not shown)
- for 600 mm
- made of plastic
- for beam mould B15241

Order-No. B152411

Ⓔ Adapter Frame
- for beam mould B15251

Order-No. B15281

Ⓕ Adapter Frame
- for beam mould B15262

Order-No. B15292

FORM+TEST
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Special Plastic Moulds for Making Test Specimens

Ⓐ Triple Cube Mould
- for making 3 test specimens at the same time
- dimensions: 50 x 50 x 50 mm

Order-No. B1580

Ⓑ Double Cube Mould
- for making 2 test specimens at the same time
- dimensions: 150 x 150 x 150 mm

Order-No. B1560

Ⓒ Triple Cube Mould
- for making 3 test specimens at the same time
- dimensions: 150 x 150 x 150 mm

Order-No. B1562

Triple Cube Mould
- for making 3 test specimens at the same time
- dimensions: 100 x 100 x 100 mm

Order-No. B1566 (not shown)

Ⓓ Mould for Square Plates
- dimensions: 600 x 600 x 100 mm

Order-No. B15268

Ⓔ Beam Mould
- dimensions: 600 x 150 x 150 mm

Order-No. B15248

Beam Mould
- dimensions: 900 x 150 x 150 mm

Order-No. B15244 (not shown)

Beam Mould
- dimensions: 700 x 150 x 150 mm

Order-No. B15246 (not shown)

Beam Mould
- dimensions: 540 x 150 x 150 mm

Order-No. B15249 (not shown)

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FORM+TEST PRÜFSYSTEME

Laboratory Compulsory Mixers

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Ⓐ Bucket Mixer
- complete with PE bucket, black, 20 l. content (sufficient for the production of 3 sample cubes 150x150 mm)
- compulsory mixer for concretes of all common grain sizes, mortar, etc.
- with safety switch
- removable bucket
- mixing tools individually adjustable and exchangeable
- basic equipment: 1 external wall scraper, 1 mixer blade
- mobile
- weight approx.: 39 kgs
- electrical connection: 230 V / 0.75 kW

Order-No. B1890

Ⓐ Bucket Mixer
same as B1890 but with:
- time setting 1 - 10 min.

Order-No. B1892

Ⓐ Bucket Mixer
same as B1890 but with:
- frequency converter
- speed control range approx. 15-50 UpM

Order-No. B1894

Ⓐ Bucket Mixer
same as B1890 but with:
- frequency converter
- speed control range approx. 15-50 UpM
- time setting 1 - 10 min.

Order-No. B1896

Ⓑ Hand Mixer
- for mixtures up to 45 litres consisting of:
- drive drill, 1100 watts stepless speed control, max. 3000 rpm.
- robust, durable cast iron gearbox
- reduction ratio 3 : 1
- for powerful and effective speed
- pair of mixing tools flat steel version made of stainless steel
- mixing basket height / width: 210 / 130 mm
- total length: 500 mm

Order-No. B18020

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DIGIMAXX® C40

Key Facts Summarised

- easy operation
- static tests
- many application modules available in PROTEUS^{MT}-software (as option)

The **DIGIMAXX® C40** combines the usual FORM+TEST quality with up-to-date performance and functionality.

Its intuitive control using the built-in, modern and robust touch display. The test procedures are simple and can be quickly converted into reliable results.

The use of the controller in combination with the available PROTEUS^{MT} program packages extends the evaluation and testing possibilities enormously.

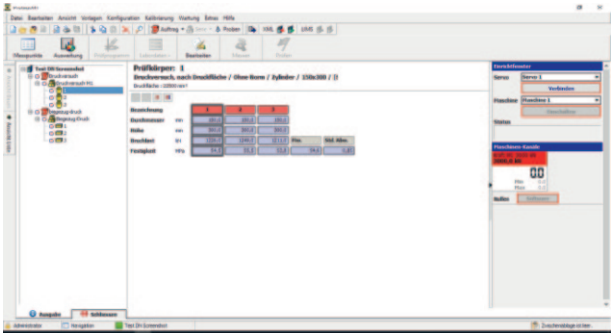
This system was designed for static test in the field of buliding materials testing.

For many standard tests, ready-made application modules are already available, which are specifically adapted to numerous test standards. A standard test is carried out without time-consuming settings.

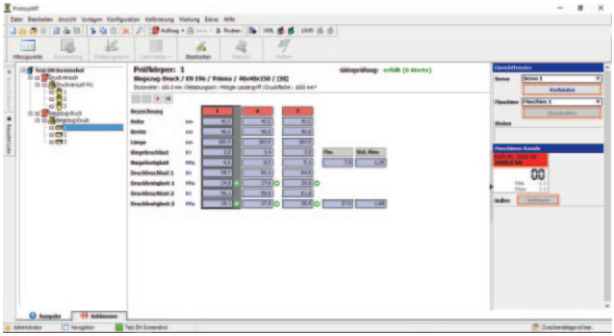
Separate display for stand-alone operation

Technical Data – Digital Controller

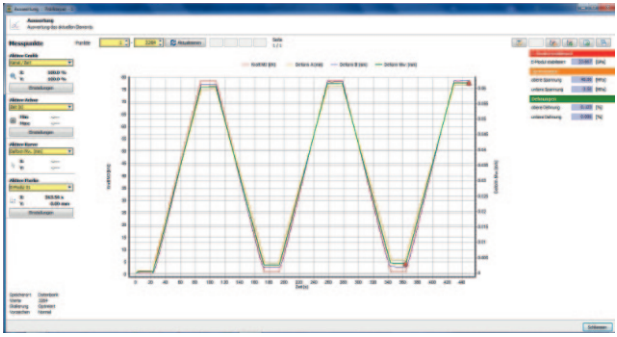
- capacitive and robust 7” touch display
- PID-controller with DSP processor
- modular system with expansion options up to 8 control and measuring channels – 18 Bit
- measuring- and control cycle 2 kHz
- transmission of measured value up to 1 kHz
- freely programmable test sequences
- real-time display 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



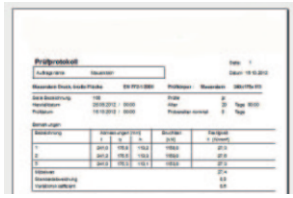
pressure test EN 12390-3



bending tension-pressure EN 196



E-module EN 12390-13



protocol EN 772-1

PROTEUS^{MT} Test Software

Key Facts Summarised
- easy programming
- wide application range
- universal and individual modules

Application
1. simple test software for building material testing:
   - test programming
   - evaluation and logging
2. in combination with controller DIGIMAXX®

Structure
1. basic platform for managing your test results incl. database
2. modules according to standards
   - all relevant building material testing standards can be selected as individual modules
   - for example EN 12390-3, -5, EN 196, EN 1338 – 1340, EN 14488, EN 14651, E-Modul 12390-13, etc.
   - routine tests according to standard with test templates including input fields
   - automatic test sequence and evaluation according to standard
   - individual test sequences through graphic recording and evaluation
   - incl. calibration programme of the machine

Functions
- configuration of several machines
- user management
- project definition via lab database
- specimen management with creation of task data, overview of upcoming tests
- signal processing
- control of the test sequence (testing sequence, limit values, parameters, etc.)
- test evaluation
- archiving and search function
- protocol print-out in pdf format with customer logo
- data expor in ASCII file further processing in third-party programme

Options
- measuring and weighing station: weighing and measuring ca be read in semi-automatically
- 2. licence for instalation on an office PC
- licence for several machines
- numerous data interface to LIMS systems configurable
- automatic test sequence „Start with one Click“

Choose the Original
Choose Success!

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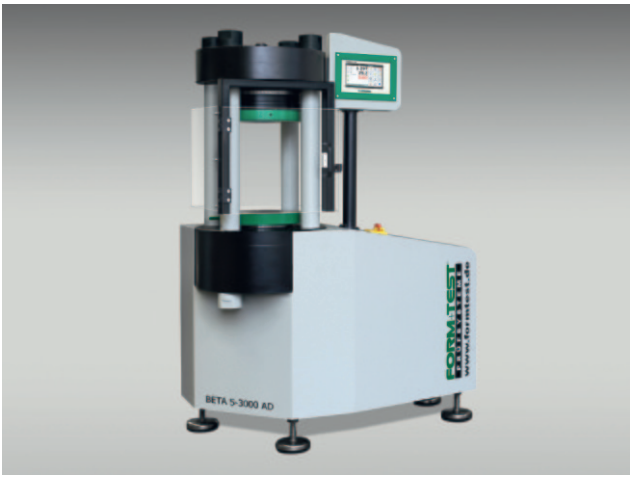
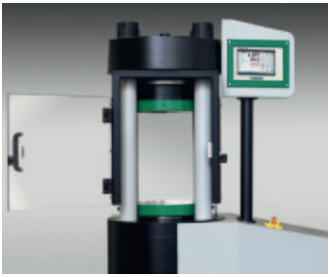
BASIC-LINE

Hardened concrete test EN12390-3

Compression Testing Machine BETA 5-3000 AD





- **accuracy acc. to DIN EN ISO 7500-1, class 1**
- **execution acc. to EN 12390-4 (straintest execution)**
- **for the determination of compressive strengths acc. to EN 12390-3, EN 12504-1, EN 206**
- **automatic load increase via digital controller *DIGIMAXX*® *C-44* bypass-control for constant load increase controllable as ramp function between 0.1–50 kN/s**

Technical Data

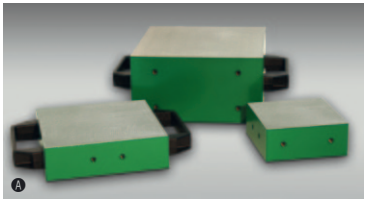
- test load max.: 3000 kN
- measuring range: 120 ... 3000 kN
- display area: 0 ... 3000 kN
- test area height: 330 mm
- piston stroke: 50 mm
- upper pressure plate: Ø 300 mm
- lower pressure plate: 210 x 210 mm
- working height: 820 mm
- thickness of pressure plates: 40 mm
- hardness of pressure plates: 53 - 55 HRC
- inner width of test frame
  from left to right (width): 230 mm
  front to back (depth): 175 mm

- compact design
- with machine base for hydraulics and electronics
- lateral housing for display and controller
- electric multi-piston hydraulic pump mounted in the oil tank
- pressure control valve
- liquid pressure transducer (DMS)

- dimensions: 1150 x 605 x 1495 mm
- weight approx: 930 kg
- voltage: 230 Volt, 50 Hz, 1.5 kW

made in Germany

VDMA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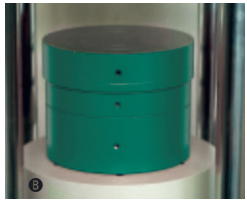
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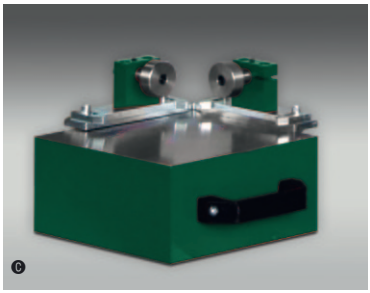
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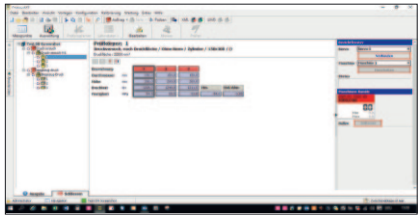
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Technical Data - Digital Controller

- capacitive and robust 7“ touch display
- PID-controller with DSP processor
- 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 authorzations (tester, laboratory manager, service technician, administrator)
- automatic and manually zero-adjustment
- adjustable break detection
- adjustable piston back-travel time
- specimen storage for test results
- USB port for data export
- Ethernet connection for communication with PC software

Accessories and Options:

Ⓐ auxiliary platen hardened, face-ground to place on the pressure plate
dimensions + weight:
210 x 210 x 110 mm, 38 kg
170 x 170 x 50 mm, 12 kg
120 x 120 x 50 mm, 5.65 kg

Ⓑ spacing blocks, unhardened, face-ground, to place between pressure platen and piston, fixing by a dowel pin
dimensions + weight:
Ø 227 x 100 mm, 32 kg
Ø 227 x 50 mm, 16 kg

Ⓒ centering device for auxiliary platen

Ⓓ compression device DV 1000 for drill cores

Ⓔ test software **PROTEUS**[MT]

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BASIC-LINE

Compression Testing Machine ALPHA 3-3000 AD

- **accuracy acc. to DIN EN ISO 7500-1, class 1**
- **execution acc. to EN 12390-4 (straintest execution)**
- **for the determination of compressive strengths acc. to EN 12390-3, EN 12504-1 and EN 206**
- **automatic load increase via digital controller *DigiMaxx® C44* bypass-control for constant load increase controllable as ramp function between 0.1 - 50 kN/s**

Technical Data

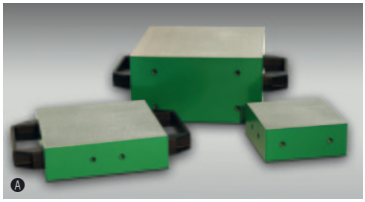
- test load max.: 3,000 kN
- working pressure: 454 bar
- piston stroke: 65 mm
- upper pressure plate: Ø 320 mm
- lower pressure plate: Ø 300 mm
- hardness of pressure plates: 53-55 HRC
- thickness of pressure plate: 75 mm
- test area height: 340 mm
- working height: 920 mm
- inner width of test frame:
  from left to right (width): 355 mm
  front to back (depth): 255 mm
- measuring range: 60 ... 3,000 kN
- display area: 0 ... 3,000 kN
- stiffness: 3650 kN/mm

- compact design
- with machine base for hydraulics and electronics
- lateral housing for display and controller
- electric multi-piston hydraulic pump mounted in the oil tank
- pressure control valve
- liquid pressure transducer (DMS)

- electric supply:
  230 V, 50 Hz, 1.5 kW
- dimensions approx.
  (width x depth x height):
  1,360 x 580 x 1,600 mm
- weight: approx. 1,780 kg

made in Germany

VDMA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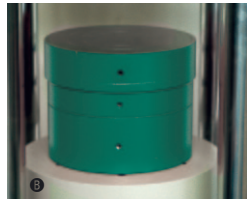
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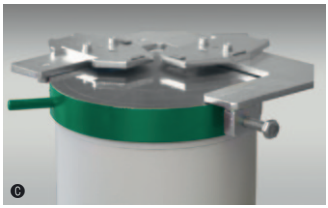
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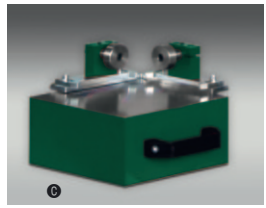
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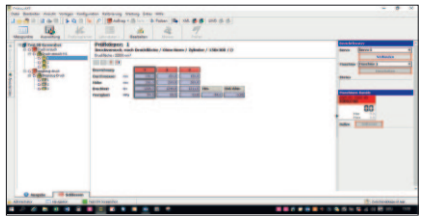
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Technical Data – Digital Controller

- capacitive and robust 7“ touch display
- PID-controller with DSP processor
- 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 authorzations (tester, laboratory manager, service technician, administrator)
- automatic and manually zero-adjustment
- adjustable break detection
- adjustable piston back-travel time
- specimen storage for test results
- USB port for data export
- Ethernet connection for communication with PC software

Accessories / Options:

Ⓐ auxiliary platen hardened, face-ground to place on the pressure plate
dimensions + weight:
210 x 210 x 110 mm - 38 kgs
170 x 170 x 50 mm - 12 kgs
120 x 120 x 50 mm - 5,65 kgs

Ⓑ spacing blocks unhardened, face-ground, to place between pressure platen and piston, fixing by a dowel pin
dimensions + weight:
Ø 300 x 60 mm - 33 kgs
Ø 300 x 50 mm - 27 kgs

Ⓒ centering device for pressure plates and auxiliary platen

- larger pressure plates
dimensions:
320 x 320 x 75 mm
320 x 420 x 75 mm
320 x 520 x 75 mm

Ⓓ test software **PROTEUS**[MT]

- transfer software

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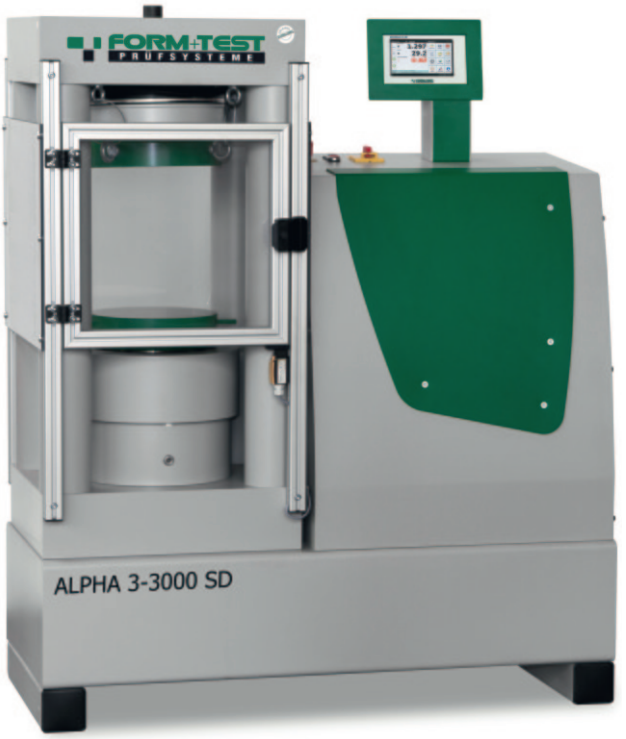
ECONOMY-LINE

Compression Testing Machine ALPHA 3-3000 SD

- **accuracy acc. to DIN EN ISO 7500-1, class 1 acc. to EN 12390-4 strain test execution**
- **for compressive strength tests on material samples especially acc. to EN 12390-3, EN 12504-1, EN 206**
- **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.: 3,000 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 ... 3,000 kN
- display area: 0 ... 3,000 kN
- force measurement via electronic liquid pressure transducer

Compact Base UB 02-C40

- machine base with lateral housing for the display / controller / hydraulics
- modular design for the extension up to 4 machine frames
- electric multi-piston hydraulic pump mounted in the oil tank
- microfilter with mechanic dust indication
- servo valve
- pressure control valve
- liquid pressure transducer (DMS)
- electrical control

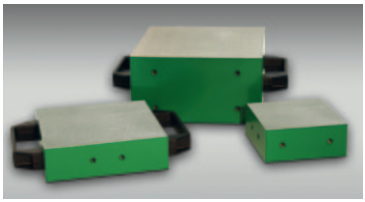
Technical Data - Pump Aggregate

- pump delivery rate: 1.5 l/min.
- oil tank capacity: 20 ltr.
- viscosity of hydraulic oil: 68 cstk / 40
- oil filtration: 3 micron
- electric supply: 3 x 400 V, 50 Hz, 3.0 kW
- dimensions approx. (width x depth x height): 1,360 x 580 x 1,600 mm
- weight: approx. 1,780 kg

made in Germany

VDMA

Ⓐ



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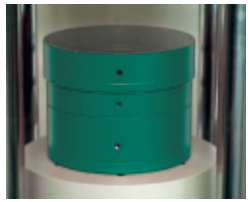

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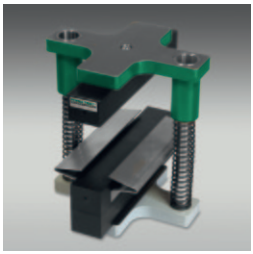

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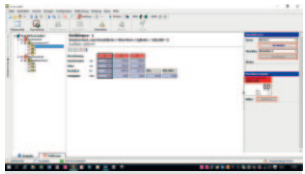

Technical Data – Digital Controller

- 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:

Ⓐ auxiliary platen hardened, face-ground to place on the pressure plate
dimensions + weight:
210 x 210 x 110 mm - 38 kg
170 x 170 x 50 mm - 12 kg
120 x 120 x 50 mm - 6 kg

Ⓑ spacing blocks, unhardened, face-ground, to place between pressure platen and piston
dimensions + weight:
Ø 300 x 60 mm - 33 kg
Ø 300 x 50 mm - 27 kg

Ⓒ tensile splitting test device

Ⓓ test software **PROTEUS**^{MT}

Options:

- larger (higher) test area
- larger pressure plates
dimensions:
320 x 320 x 75 mm
320 x 420 x 75 mm
320 x 520 x 75 mm

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Picture: Testing machine frame with chromium plated machine's columns (options)

made in Germany

VDMA

PROFI-LINE

Hardened Concrete Test

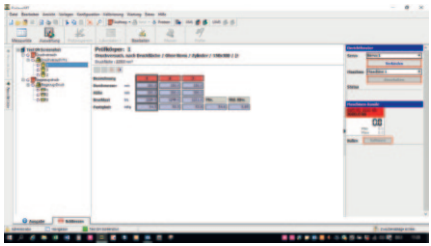
Compression Testing Machine ALPHA 3-3000 S

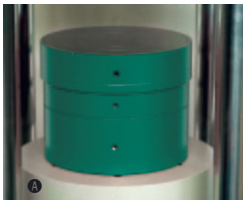
- **accuracy acc. to DIN EN ISO 7500-1, class 1**
- **execution acc. to EN 12390-4 (straintest execution)**
- **for compressive strength tests acc. to EN 12390-3, EN 12504-1 and EN 206**
- **separate drive station AS-C40-N**
- **automatic load increase by digital controller *DigiMaxx® C-40* in closed loop system**

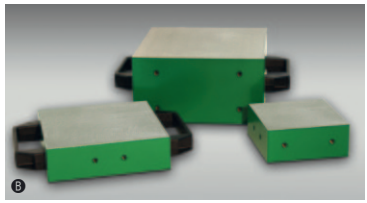
Technical Data – Test Frame

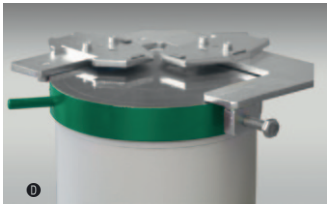
- test load max.: 3,000 kN
- working pressure max.: 397 bar
- piston stroke: 100 mm
- upper pressure plate: Ø 320 mm
- lower pressure plate: Ø 300 mm
- thickness of pressure plates: 75 mm
- hardness of pressure plates: 55 HRC
- test area height: 340 mm
- inner width between columns (width): 355 mm
- inner width between columns (depth): 255 mm
- stiffness: 3,650 kN/mm
- measuring range: 60 ... 3,000 kN
- display area: 0 ... 3,000 kN
- force measurement via electronic pressure transducer
- voltage: 3 x 400 Volt, 50 Hz, 3.0 kW
- weight: 1,810 kg

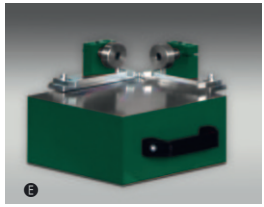
Ⓒ











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:

for reduction of test chamber height

Ⓐ spacing platen, unhardened, face-ground, to place between pressure platen and piston, fixing by a dowel pin
dimensions Ø 300 x 50 mm, 27 kg
dimensions Ø 300 x 60 mm, 33 kg

Ⓑ auxiliary platen, hardened, face-ground to place on the pressure plate
dimensions 210 x 210 x 110 mm, 38 kg
dimensions 170 x 170 x 50 mm, 12 kg
dimensions 120 x 120 x 50 mm, 5,65 kg

Options:

- connection of further (max. 4) testing machines
- larger pressure plates
  dimensions 320 x 420 x 75 mm
  dimensions 320 x 520 x 75 mm
- higher test area
- chrome-plated columns
- transfer software

Ⓒ test software **PROTEUS**^{MT}
Ⓓ centerring devices for pressure plates
Ⓔ centerring devices for distance pieces

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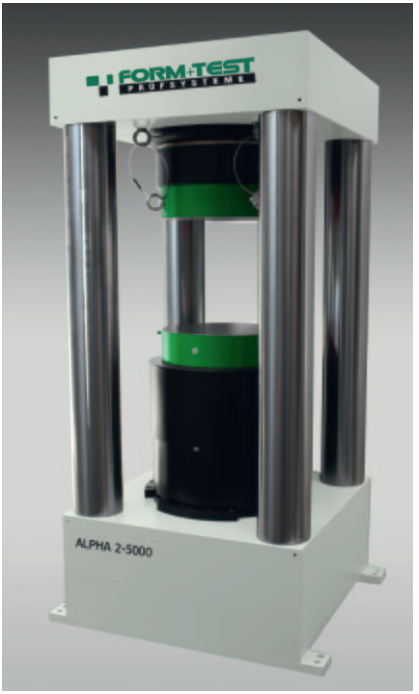
Hardened Concrete Test

Compression Testing Machine ALPHA 2-5000

- **accuracy acc. to DIN EN ISO 7500-1, class 1**
- **execution acc. to EN 12390-4 (straintest execution)**
- **compression strength tests acc. to EN 12390-3, EN 12504-1, EN 206 on concrete and high strength concrete as well as bricks acc. to EN 772**
- **separate drive station AS-C40-N / AS-C40-N-PC / MEWIS-C40-PC**
- **automatical load increase by digital controller *DIGIMAXX® C40* with servo valve in closed loop system with nominal-actual value comparison**



picture without protective grid

picture shows drive station MEWIS-C40-PC

Technical Data – Test Frame

- test load max: 5000 kN
- piston stroke: 100 mm
- upper pressure plate: Ø 415 mm
- lower pressure plate: Ø 415 mm
- thickness of pressure plates: 97 mm
- hardness of pressure plates: 53 HRC
- test area height: 340 mm
- inner width of test frame: from left to right / front to back 450 x 450 mm
- measuring range: 100,00 ... 5000 kN
- display area: 0 ... 5000 kN
- force measurement via electronic liquid pressure transducer
- weight: approx. 4790 kg

available with following test loads:

- 4000 kN, 5000 kN, 6000 kN, 10000 kN

made in Germany

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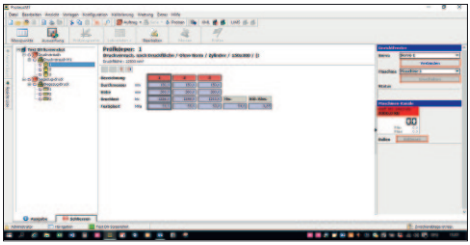
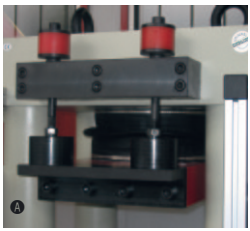
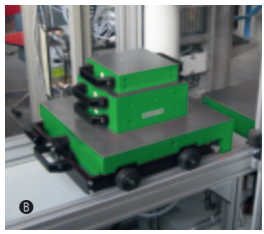
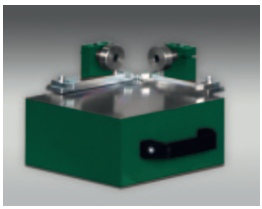
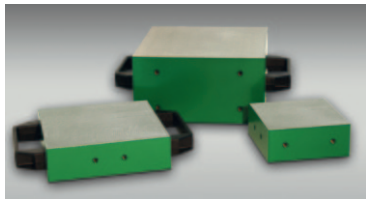
Ⓒ











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 - Test Frame:

- chrome-plated columns
- larger (higher) test area
- electronic load cell
- piston stroke extension to 200 mm
- larger pressure plates
  dimensions: 420 x 520 x 97 mm
  dimensions: 380 x 620 x 97 mm

Ⓑ extendable pressure plate

- reinforcement for high strength concrete

Ⓐ reinforcement for brick testing

Options - Drive Stations:

- 2. connection for further test frame e.g. bending test frame
- 2., 3., 4. connection for further test frames e.g. bending test frame
- magnetic switch
- electronic piston stroke measuring and control equipment

Ⓒ test software **PROTEUS**[MT]

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BASIC-LINE

Bending / Flexure Testing Machine DELTA 4-100 AD

- **accuracy acc. to DIN EN ISO 7500-1, class 1**
- **for flexure strength tests on materials acc. EN 12390-5**
- **with accessories / options also for compression tests on cement and mortar prisms**
- **automatic load increase via digital controller *DIGIMAXX® C44* bypass-control for constant load increase controllable as ramp function between 0.1 - 50 kN/s**

Technical Data – Test Frame

- with 2-column frame
- single acting test cylinder
- test load max.: 100 kN
- working pressure max.: 199 bar
- piston stroke: 80 mm
- test area height: 165 mm
- length of bending roller: 210 mm
- bending roller Ø: 40 mm
- lower bending roller distance 70 .. 600 mm
- basic equipment includes the insert for 3-point load
- inner width of test frame: 240 mm
- measuring range: 2.00 ... 100 kN
- display area: 0 ... 100 kN
- force measurement via electronic load cell
- electric supply: 230 V, 50 Hz, 1.5 kW
- weight: appr. 850 kg
- available with following test loads: 60 kN, 100 kN and 200 kN

made in Germany

VDMA

Technical Data – Digital Controller

- capacitive and robust 7" touch display
- PID-controller with DSP processor
- 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
- USB port for data export
- Ethernet connection for communication with PC software

Options:

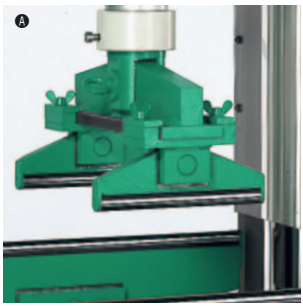
- higher test area (220 mm)
- enlarged piston stroke (130 mm)
- lengthened bending table (70 ... 900 mm)

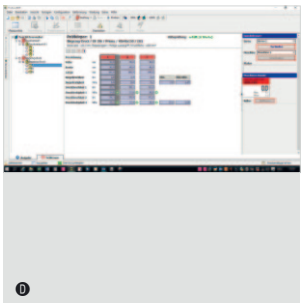
Ⓐ insert for 4-point loading

Ⓑ set of pressure plates Ø 230 x 40 mm with floating axle

Ⓒ compression device DV 600 AZ (only applicable in connection with set of pressure plates)

Ⓓ test software **PROTEUS**^{MT}





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PRÜFSYSTEME

ECONOMY-LINE

Bending / Flexure Testing Machine DELTA 6-200

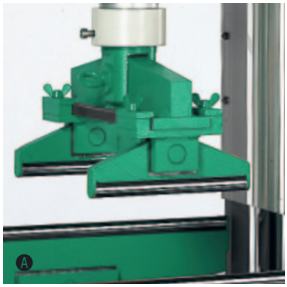
- **accuracy acc. to DIN EN ISO 7500-1, class 1**
- **for bending strength tests on material samples especially acc. to EN 12390-5, EN 1339, EN 1343, EN 1344**
- **with accessories / options also for splitting tensile strength tests and kerb stone tests acc. to. EN 1338, EN 1340 and for compression tests**
- **separate drive station AS-C40-N**
- **automatic load increase by digital controller *DIGIMAXX® C-40* with servo valve in closed loop system with nominal-actual value comparison**

Technical Data – Test Frame

- 3-column frame in C-construction
- double-acting test cylinder
- test load max. 200 kN
- working pressure max.: 192 bar
- piston stroke: 220 mm
- test area height: 220 mm
- length of bending roller: 510 mm
- bending roller Ø: 40 mm
- lower bending rollers distance adjustable from 80 .. 900 mm
- basic equipment with 3-point load
- measuring range: 2.00 ... 200 kN
- display area: 0 ... 200 kN
- force measurement by an electronic precision load sensor
- voltage: 3x 400 Volt, 50 Hz, 2.2 kW
- weight approx.: 1150 kg
- available with following test loads: 60 kN, 100 kN, 200 kN and 300 kN

made in Germany

VDMA



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:

Ⓐ insert for 4-point loading

Ⓑ splitting tensile strength device - EN 1338

Ⓒ compression die for curbstones - EN 1340

Ⓓ set of pressure plates with floating axle (Ø 230 x 40 mm)

Ⓔ compression device DV 600 AZ (only applicable in connection with set of pressure plates)

- lengthened bending table (2000 or 3000 mm)
- machine base for working height = 920 mm
- electronic piston stroke measuring and control equipment
- deflection measuring equipment
- test software **PROTEUS**^{MT}

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FORM+TEST PRÜFSYSTEME

PROFI-LINE

Bending / Flexure Testing Machine DELTA 5-300

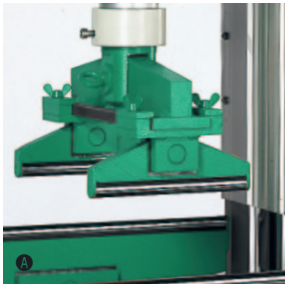
- **accuracy acc. to DIN EN ISO 7500-1, class 1**
- **for bending strength tests on material samples especially acc. to EN 12390-5, EN 1339, EN 1343, EN 1344**
- **with accessories / options also for splitting tensile strength tests and kerb stone tests acc. to EN 1338, EN 1340 and for compression tests**
- **separate drive station AS-C40-N**
- **automatic load increase by digital controller *DIGIMAXX® C-40* with servo valve in closed loop system with nominal-actual value comparison**

Technical Data – Test Frame

- 4-columns test frame
- double-acting test cylinder
- test load max. 300 kN
- working pressure max: 288 bar
- piston stroke: 220 mm
- test area height: 220 mm
- length of bending roller: 510 mm
- bending roller Ø: 40 mm
- lower bending rollers distance adjustable from 80 .. 1020 mm
- basic equipment with 3-point load
- measuring range: 3.00 ... 300 kN
- display area: 0 ... 300 kN
- force measurement by an electronic precision load sensor
- voltage: 3x 400 volt, 50 Hz, 2.2 kW
- weight: approx. 1470 kg
- available with following test loads: 100 kN, 200 kN and 300 kN

made in Germany

VDMA



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:

Ⓐ insert for 4-point loading

Ⓑ splitting tensile strength device acc. EN 1338

Ⓒ compression for curbstones acc. EN 1340

Ⓓ set of pressure plates with floating axle (Ø 230 x 40 mm)

Ⓔ compression device DV 600 AZ (only applicable in connection with set of pressure plates)

- fibre concrete measuring equipment DBV/DAfStB
- electronic piston stroke measuring and control equipment
- deflection measuring equipment
- test software **PROTEUS**^{MT}

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PROFI-LINE

Compression and Bending Testing Machine MEGA 6-3000-100

- **accuracy acc. to DIN EN ISO 7500-1, EN 12390-4, class 1 - straintest execution**
- **for compressive strength tests acc. to EN 12390-3, EN 12504-2**
- **for bending strength tests acc. to EN 12390-5, EN 1339, EN 1341**
- **with accessories / options also for kerb stone tests acc. to EN 1338, EN 1340, EN 1343 as well as compressive strength tests on cement and mortar acc. to EN 196 / EN 1015**
- **separate drive station AS C 40 or MEWIS automatic load increase via digital controller *DigiMaxx® C40* 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

Fig. drive station MEWIS-C40-PC

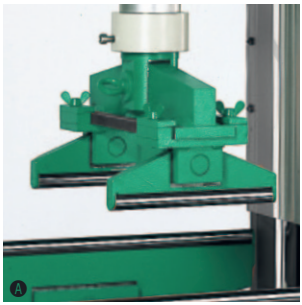
Technical Data – Bending Test

- test load max.: 100 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: 1.00 ... 100 kN
- display area: 0 ... 100 kN
- force measurement via an electronic load cell insensitive to shear forces

- voltage: 3x 400 Volt, 50 Hz, 1.5 kW
- weight: approx. 2310 kg

made in Germany

VDMA



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:

- 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

Ⓐ insert for 4-point loading

- compression die for curbstones

Ⓑ set of pressure plates with floating axle
Ⓒ compression device DV 600 AZ
(only applicable in connection with set of pressure plates)
Ⓓ bending device BV 10 OM
(only applicable in connection with set of pressure plates)

- test software **PROTEUS**^{MT}
- electronic piston stroke measuring and control equipment

Available with following test loads:

- for compression test:
  2000, 3000, 4000 kN
- for bending test:
  100, 200, 300 kN

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BASIC-LINE

Compression- and Bending Testing Machine MEGA 7-3000-200

- **accuracy acc. to DIN EN ISO 7500-1, EN 12390-4, class 1 - straintest execution**
- **for compressive strength tests on concrete cubes and cylinders especially acc. to EN 12390-3, EN 206**
- **for bending tensile tests on concrete beams especially acc. to EN 12390-5**
- **with accessories / options also for kerb stone tests EN 1340**
- **compressive strength tests on cement and mortar acc. to EN 196 / EN 1015**
- **integrated drive station for semi-automatic load increase through fine-flow control valve in connection with digital display DIGIMESS® MIO with actual value display of the load increase in N/mm²/sec or kN/sec**

special design with bending testing for prisms (cement/mortar)

Technical Data – Compression Test
4-Columns Test Frame

- test load max.: 3000 kN
- piston stroke: 50 mm
- upper pressure plate: Ø 300 mm
- lower pressure plate: Ø 300 mm
- hardness of pressure plates: 53 HRC
- test area height: 330 mm
- measuring range: 120.00 ... 3000 kN
- display area: 0 ... 3000 kN
- force measurement via an electronic liquid pressure transducer

Technical Data – Bending Test
2-Columns Test Frame

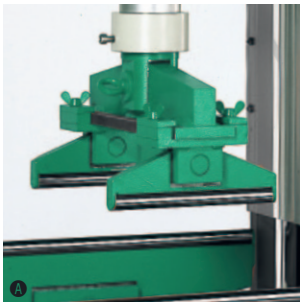
- test load max.: 200 kN
- piston stroke: 80 mm
- test area height: 165 mm
- length of bending roller: 210 mm
- bending roller Ø: 40 mm
- bending roller distance: 80 ... 600 mm
- measuring range: 8.00 ... 200 kN
- display area: 0 ... 200 kN
- force measurement via an electronic liquid pressure transducer
- voltage: 230 Volt, 50 Hz, 1.5 kW
- weight: approx. 1150 kg

made in Germany

VDMA

Technical Data - Digital Display

- 5-digit LCD-screen display
- 16-bit processor technology
- two measuring ranges (compression and bending)
- resolution 60,000 digits
- automatic zero balance
- programmable strength calculation of 30 different test specimens
- display of strength in N/mm² or Mpa
- display adjustable in kN, N, kg, kp, to or bar
- peak value memory with reset button
- code-protected calibration resp. linearization
- interface USB



Options:

- larger pressure plates dimensions 210 x 420 x 40 mm
- extension of bending table bending roller distance: 80 ... 900 mm
- expansion of bending test frame for bending roller lengths of 510 mm

Ⓐ insert for 4-point loading

Ⓑ set compression plates with pendulum axle

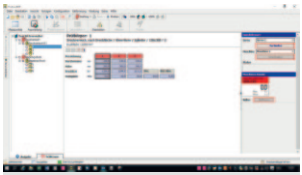
Ⓒ compression for curbstones

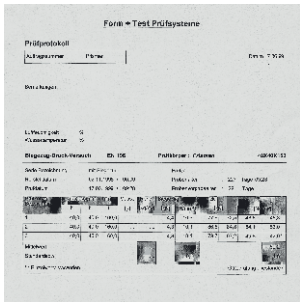
Ⓓ compression device DV 600 AZ (only applicable in connection with set of pressure plates)

Ⓔ test software **PROTEUS**[MT]

Available with following test loads:

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





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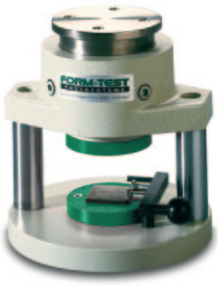
Testing Devices for Material Testing

(cement, mortar, screed) for use in testing machines in accordance with measuring ranges and test area heights



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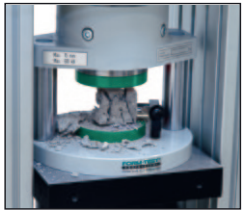

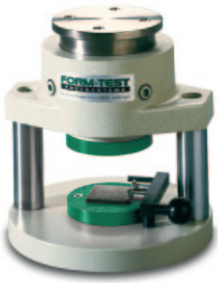

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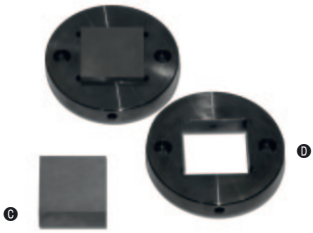

Ⓒ Ⓓ

Ⓔ

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Ⓐ Compression Test Device DV 600 AZ

- max. load: 600 kN
- automatic centering of the upper compression plate after specimen break
- for compression strength tests on specimens made of cement, mortar, screed, gypsum binders, gypsum dry mortar
- EN 196-1, EN 1015-11, EN 445, EN 13279-2, EN 13813, ASTM C 349
- compression plates: 40 x 40 x 17.5 mm
- hardness: > 600 HV / 58-62 HRC

Order-No. B3122

Ⓑ Compression Test Device DV 600 AZ

- max. load: 600 kN
- automatic centering of the upper compression plate after specimen break
- for compression strength tests on specimens made of cement, mortar, screed, gypsum binders, gypsum dry mortar
- EN 196-1, EN 1015-11, EN 445, EN 13279-2, EN 13813, ASTM C 349
- compression plates: 40 x 40 x 17.5 mm made of carbide in clamping frame
- hardness: > 600 HV / 58-62 HRC

Order-No. B3124

Ⓒ Set of Compression Plates

- 40 x 40 mm made of carbide
- hardness: > 600 HV / 58-62 HRC

Order-No. B31240

Ⓓ Clamping Frame

- for compression plates made of carbide

Order-No. B31242

Ⓔ Compression Test Device DV 600

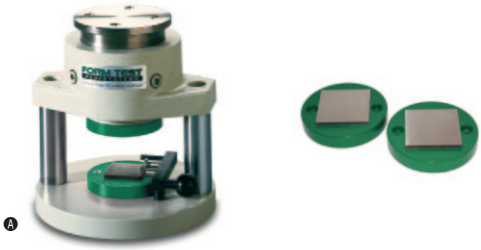
- max. load: 600 kN
- low-cost design
- for compression strength tests on cement and mortar specimens
- EN 196, EN 1015
- compression plates: 40 x 40 x 17.5 mm
- hardness: > 600 HV / 58-62 HRC

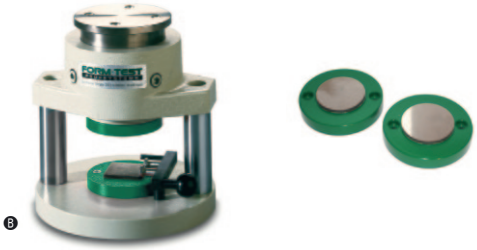
Order-No. B3123

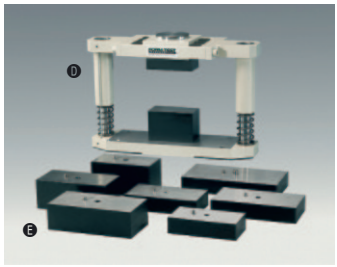
FORM+TEST PRÜFSYSTEME

Testing Devices for Material Testing

(cement, mortar, concrete) for use in testing machines in accordance with measuring ranges and test area heights







Ⓐ Compression Test Device DV 600
- max. load: 600 kN
- for compression strength tests on cement and mortar specimens
- ASTM C 109
- compression plates: 50 x 50 x 17.5 mm
- hardness: > 600 HV / 58-62 HRC

Order-No. B3125

Ⓑ Compression Test Device DV 600
- max. load: 600 kN
- for compression strength tests on cores and cylinders
- EN 12504-1
- compression plates: Ø 60 x 17.5 mm
- hardness: > 600 HV / 58-62 HRC

Order-No. B3128

Ⓒ Compression Test Device DV 1000
- max. load: 1000 kN
- for compression strength tests on cores and cylinders
- EN 12504-1
- compression plates: Ø 110 x 17,5 mm
- hardness: > 600 HV / 58-62 HRC

Order-No. B3129

Ⓓ Compression Test Device DV 1500
- max. load: 1500 kN
- for compression strength tests on paving stones made of open structured concrete
- DIN 18507
- without compression plates

Order-No. B3141

Ⓔ Compression Plates
- hardness: 53-55 HRC
- 60 x 120 mm

Order-No. B3142
- 70 x 140 mm

Order-No. B3143
- 80 x 160 mm

Order-No. B3144
- 90 x 180 mm

Order-No. B3145
- 100 x 200 mm

Order-No. B3146
- 110 x 220 mm

Order-No. B3147
- 120 x 240 mm

Order-No. B3148

Testing Devices for Material Testing

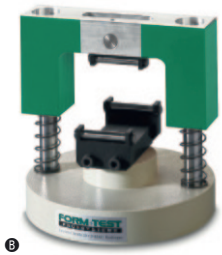
(cement, mortar, screed, refractory) for use in testing machines in accordance with measuring ranges and test area heights

Ⓐ

Ⓐ Compression Test Device DV 1000 RF

- max. load: 1000 kN
- for determination of compression strength of refractory specimens acc. EN ISO 1927-6 sizes A / B / C / D
- platens: 65 x 120 mm
- test chamber height max.: 70 / 60 / 50 mm
- test chamber height min.: 55/ 45 / 35 mm
- height of device: 240 mm
- weight approx.: 20 kg

Order-No. B3110



Ⓑ

Ⓑ Bending Test Device BV 10 OM

- max. load: 10 kN
- for bending strength tests on cement and mortar specimens
- EN 196, EN 1015
- bending roller width: 50 mm
- bending roller diameter: 10 mm
- bending roller distance fix: 100 mm

Order-No. B3130

Insert for 4-Point Load

- bending roller length: 50 mm
- bending roller radius: 5 mm
- bending roller diameter: 10 mm
- bending roller distance fix: 33.33 mm

Ⓒ

Ⓒ Insert for 4-Point Load

- bending roller length: 70 mm
- bending roller radius: 5 mm
- bending roller diameter: 10 mm
- bending roller distance adjustable: 30...100 mm

Ⓓ

Ⓓ Bending Test device BV 10

- max. load: 10 kN
- low-cost design
- for bending strength tests on cement and mortar specimens
- EN 196, EN 1015
- bending roller width: 50 mm
- bending roller diameter: 10 mm
- bending roller distance fix: 100 mm

Order-No. B3133

Ⓐ

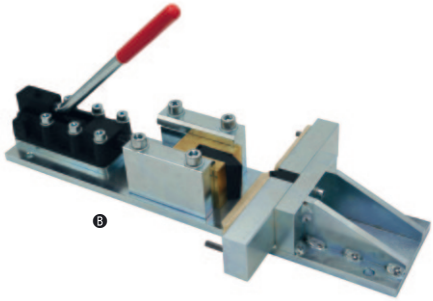
Testing Devices for Material Testing

(UHPC, concrete – precast concrete components)
for use in testing machines in accordance with measuring ranges and test area heights

Ⓐ Bending Test Device BV 30 OM

- max. load: 30 kN
- for bending strength tests on cement and screed specimens
- acc. to EN 196, EN 1015
- bending roller width: 50 mm
- bending roller diameter: 10 mm
- bending roller distance adjustable: 30...250 mm

Order-No. B3134

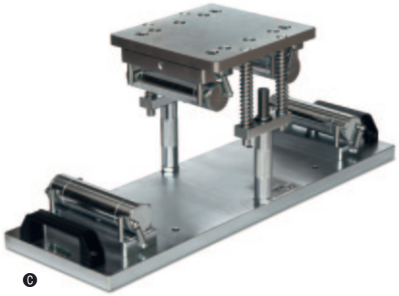


Ⓑ

Ⓑ Prism Splitting Device

- for cement and mortar samples
- for the rational splitting of prisms with eccentric pressure translation
- with push rod clamp for high clamping force
- for splitting prisms 160 x 40 x 40 mm
- upper pressure cutting edge movably mounted and additionally introduced at the side
- for wall mounting (WxHxD): 210 x 490 x 85 mm without clamping lever
- extension clamping lever approx. 400 mm
- weight approx. 12 kg

Order-No. B31392



Ⓒ

Ⓒ Bending Test Device BV 100

- max. load: 100 kN
- for bending strength tests on concrete specimens
- 3-point and 4-point load
- acc. to EN 12390-5
- bending roller width: 155 mm
- bending roller diameter: 40 mm
- bending roller distance: 450 mm

Order-No. B3136

Ⓓ

Ⓓ Tensile Splitting Test Device DV 500

- max. load: 500 kN
- for tensile splitting tests on paving stones
- acc. to EN 1338
- test area height max.: 165 mm
- test area height min.: 60 mm
- range of spring: 45 mm
- edge length: 325 mm
- edge radius: 75 mm
- the upper edge is movably mounted
- with guides for positioning of hard fibre strips

Order-No. B3170

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Testing Devices for Material Testing

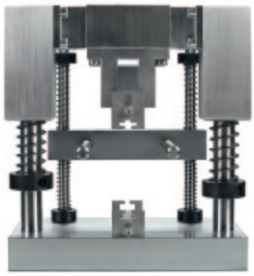
(cement, mortar, screed, concrete) for use in testing machines in accordance with measuring ranges and test area heights

Ⓐ

Ⓐ Tensile Splitting Test Device DV 500 S

- acc. to EN 12390-6
- max. load: 500 kN
- for tensile splitting tests on cylinders, cubes and prisms
- test area height max.: 170 mm
- test area height min.: 90 mm
- range of spring: 45 mm
- edge length: 325 mm
- plane, straight edges

Order-No. B3178

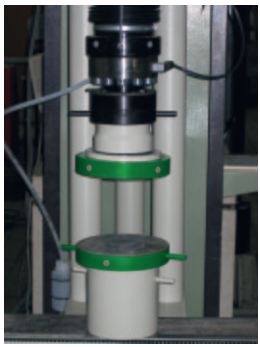


Ⓑ

Ⓑ Tensile Splitting Test Device for Concrete Cylinder Discs Ø 100 mm

- max. load: 70 kN
- for testing of street concrete cylinder discs Ø 100 x 50 mm
- tensile splitting acc. to AL Sp-Beton modified: determination of Tensile splitting under static as well as dynamic load with centerring device
- test chamber height: 110 mm
- load carrying length: 60 mm
- load carrying width: 13 mm
- internal radius (concave): 50 mm
- dimensions (W/D/H): 200 x 80 x 260 mm

Order-No. B3192



Ⓒ

Ⓒ Set of Compression Plates

- dimensions: Ø 230 mm
- compression plates height: 40 mm
- compression plates hardness: 53 – 55 HRC
- with floating axle and adapter
- for installation in bending testing machines type DELTA 4, DELTA 5, DELTA 6 resp. compression and bending testing machines type MEGA 6 and MEGA 7

Ⓓ

Ⓓ Set of Compression Plates

- acc. to EN 196
- dimensions: 40 x 40 mm
- hardness: > 600 HV / 58 - 62 HRC
- with floating axle and adapter
- for installation in bending testing machines type DELTA 3 resp. compression and bending testing machines type MEGA 10 and MEGA 100

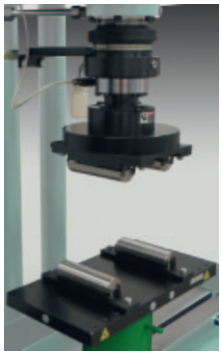
FORM+TEST PRÜFSYSTEME

Testing Devices for Material Testing

(concrete – precast elements) for use in testing machines in accordance with measuring ranges and test area heights

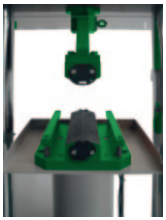
Ⓐ

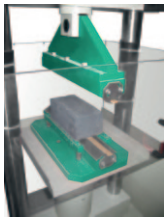
Ⓐ Insert for 4-Point Load
- acc. to EN 12390-5
- bending roller length: 210 mm
- bending roller radius: 20 mm
- bending roller diameter: 40 mm
- bending roller distance: 80 ... 300 mm
- for installation in bending testing machines type DELTA 4, DELTA 5, DELTA 6 resp. compression and bending testing machines type MEGA 6 and MEGA 7



Ⓑ

Ⓐ Insert for 4-Point Load
- acc. to EN 12390-5
- bending roller length: 510 mm
- bending roller radius: 20 mm
- bending roller diameter: 40 mm
- bending roller distance: 80 ... 300 mm
- for installation in bending testing machines type DELTA 4, DELTA 5, DELTA 6 resp. compression and bending test machines type MEGA 6 and MEGA 7





Ⓒ

Ⓑ Insert for 4-Point Load
- acc. to ASTM C 78
- for installation in bending testing machines type DELTA 4, DELTA 5, DELTA 6 resp. compression and bending testing machines type MEGA 6 and MEGA 7

Ⓒ Insert for Tensile Splitting Tests
- acc. to EN 1338
- edge length: 410 mm
- edge length radius: 75 mm
- for installation in bending testing machines type DELTA 4, DELTA 5, DELTA 6 resp. compression and bending testing machines type MEGA 6 and MEGA 7

Ⓓ

Ⓓ Compression Stamp for Curbestone Testing
- acc. to EN 1340
- stamp diameter: 40 mm
- pivoted
- for installation in bending testing machines type DELTA 4, DELTA 5, DELTA 6 resp. compression and bending testing machines type MEGA 6 and MEGA 7

Abrasion Test
Concrete, Screed, Screed Mortar, Terrazzo, Natural Stone

EN 1338, EN 1339, EN 1340, EN 1341, EN 1342, EN 13318, EN 13813, EN 13748-1, EN 13748-2, EN 13892-3, EN 14157, DIN 52108


Ⓐ

Ⓐ Abrasion Tester „Böhme“

Application:
- A specimen will be submitted by load through grinding. The abrasion will be determined as volume loss or abrasion loss.

Construction:
- base with main switch and electrical counter
- grinding wheel made of cast iron
- holding device for specimen
- loading weight adjustable
- steel tube frame- protection device

Technical dates:
- diameter of abrasive wheel: approx. 760 mm
- width of abrasive wheel: approx. 35 mm
- rotations: 30 rpm.
- hardness of abrasive wheel: 190…220 HB
- dimensions: 900 x 870 x 1450 mm
- weight approx.: 390 kg
- electric connection: 3 x 400 V / 50 Hz

Order-No. N1001


Ⓑ

Ⓑ Device to determine the loss of thickness

consisting of:
- measuring table
- analogous dial gauge and ball-bearing probe with ring shaped surface
- display accuracy: 0.01 mm

Order-No. N1003

made in Germany

VDMA

FORM+TEST PRÜFSYSTEME

Abrasion Test
Concrete, Terrazzo, Natural Stone
EN 1338, EN 1339, EN 1340, EN 1341, EN 1342, EN 13813, EN 13748-1, EN 13748-2 EN 14157

Ⓐ

Ⓐ Abrasion Tester

Application:
- A specimen will be submitted by load through grinding. The grinding groove will be measured.

Construction:
- table base with extensible drawer to collect the abrasive material
- abrasive wheel made of special steel
- direct drive through geared motor
- adjustable rapid clamping device for specimens
- adjustable counter weight for periodic „Re-calibration“
- electric control in housing

Technical dates:
- diameter of abrasive wheel: 200 mm
- width of abrasive wheel: 70 mm
- hardness of abrasive wheel: 225 +/- 20 HB
- rotations: 75 rpm.
- counter weight / press force: 14 kg
- volume of storage hopper: 6.5 ltr.
- abrasive material: 2.5 l/min
- specimen thickness: 65 – 100 mm
- specimen width: 100 mm
- specimen height: 150 mm
- dimensions: 720 x 550 x 1000 mm
- weight approx.: 150 kg
- electric connection: 3 x 400 V / 50 Hz

Order-No. N1030

Abrasive Material
- corund F80
- packing unit 25 kg / 50 kg

Order-No. N1004

Reference Body „Marble from Boulonnais“
Order-No. N1033

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FORM+TEST PRÜFSYSTEME

Abrasion Test for Testing of Adhesives and Grout for Tiles and Plates

EN 1344
EN 13888-2
EN ISO 10545-6

Abrasion Tester

Application:

• A specimen is exposed to stress by grinding. Then the grinding groove is measured.

Construction:

• table base with extendible drawer to collect the abrasive material
• grinding wheel made of special steel
• direct drive via geared motor
• adjustable quick clamp device for specimens
• adjustable counterweight for periodic recalibration
• electric control in housing

Technical Data:

• diameter of grinding wheel-Ø: 200 mm
• width of grinding wheel: 10 mm
• hardness of grinding wheel: 225 +/- 20 HB
• rotations: 75 rpm.
• volume of storage tank: 6.5 ltr.
• passage of abrasive material: 100 g +/- 10 g per 100 rpm.
• specimen thickness: 65 – 100 mm
• dimensions: 720 x 550 x 1000 mm
• weight: approx. 150 kg
• electrical connection: 3 x 400 Volt / 50 Hz

Order-No. N1034

Abrasive Material

• corundum F80
• packing unit 25 kg / 50 kg

Order-No. N1004

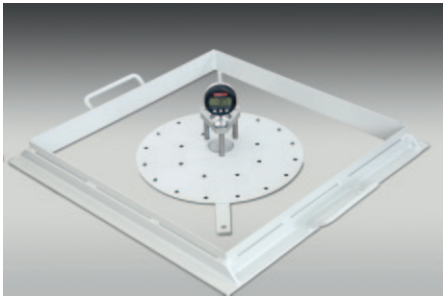
Reference Body

• float glass

Order-No. N1036

made in Germany

VDMA



Screed Testing

Abrasion Tester BCA

(british cement association)
acc. to EN 13892-4, EN 13813

- **methods of test for screed materials**
- **determination of wear resistance**
- **for testing on specimens 500x500 mm and on laid screeds**

consisting of:

- abrasion head with three hardened steel wheels
- electric motor with gear
- round steel plate with additional weights
- steel frame for motor and abrasion head
- marking template for fixing the steel frame and positioning the depth gauge
- specimen mould
- transport cart

Technical Data:

steel wheels:	
diameter max.	76 mm
width	20 mm
hardness	735 HV
rotations:	2850 ±10 1/min
test time approx.:	15 min
total load:	65 ±0,5 kg
dimensions:	360x360x600 mm
weight:	80 kg
electrical connection:	230 Volt / 50 Hz

- Abrasion tester BCA incl. protective cover with contact switch and depth gauge with digital dial gauge
  Order-No. N1050-D
- spare rolls
  (1 set = 3 pcs.)
  Order-No. N10501

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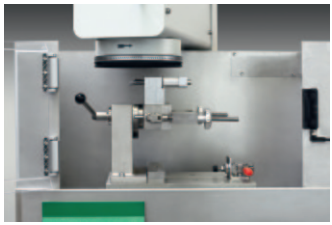
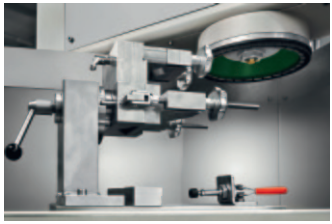
L.110.07 Abriebprüfgerät BCA N1050.indd • 07/2024

FORM+TEST PRÜFSYSTEME

Specimen Grinding Machine PSM 3/230

- for face-grinding of specimens made of concrete, high-strength concrete, natural stone, screed, refractory products, asphalt, etc.
- for grinding of specimens acc. to EN 12390-3 and EN 12504-1
- height adjustable and corrosion-protected grinding table
- energy-efficient machine drive with soft start
- direct cooling water supply via spindle hollow shaft
- complete working area with stainless-steel water protection
- ergonomically mounted controls





Technical Data:

grinding area:	220 x 220 mm
swivelling range:	r=390 mm
plane-parallelism (over 200 mm):	0.05 mm
clamping height max:	350 mm
clamping height min*:	40 mm
(*depending on the clamping device)	
height adjustment per revolution:	0.25 mm
voltage:	400 Volt / 50 Hz.
dimensions (approx.)	
width x depth x height:	970 x 932 x 1900 mm
area:	750 x 700 mm
weight (approx.):	620 kg

Included in delivery:

- clamping device for cubes 200 x 200 mm, 150 x 150 mm
- grinding wheel Ø 230 mm

P0500

Accessories:

P0530 electromotive height adjustment

P0323 clamping device can be swivelled through 180°, for Ø 40 ... 160 mm, height 80 ... 320 mm

P0324 clamping device can be swivelled through 180°, for Ø 40 ... 70 mm, height 40 ... 70 mm

The specimens only have to be clamped once.

P0314 mud catching tank

P0534 mud storage tank with water pump

made in Germany

VDMA

Core Resp. Cylinder Grinding Machine PSM 4

- **for face-grinding of specimens made of concrete, natural stone, screed, fire refractory products etc.**
  - **cores resp.**
  - **cylinders**
- **for grinding of specimens acc. to EN 12390-3 and EN 12504-1**
- **for cylinder / cores up to max. Ø 100 mm**
- **surface grinding machine with height-adjustable grinding wheel**
- **direct cooling water supply**
- **working area with acrylic glass protection window at the front**

Technical Data:

grinding area:	85 x 85 mm resp. Ø 110 mm
plane-parallelism (over 75 mm):	0.05 mm
clamping height max:	110 mm
clamping height min:	40 mm
vertical adjustment per rotation:	1.0 mm
voltage:	400 Volt / 50 Hz.
dimensions (approx.)	
width:	560 mm
depth:	600 mm
height:	800 mm
weight grinding machine (approx.):	232 kg
weight grinding machine with clamping device P0405 (approx.):	240 kg

Included in delivery:

• grinding wheel Ø 130 mm

P0401

Accessories:

P0405 Clamping device can be swivelled through180°, for Ø and height 40 ... 100 mm.
The specimens only have to be clamped once.

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L.114.07 - PSM 3-4.indd - 05/2024

Water Penetration Test

DIN EN 12390-8, EN 206

- to test concrete specimens 150 x 150 x 150/ 120 mm as well as 200 x 200 x 200 / 120 mm (only with options)
- up to max. 10 bar working pressure (Special construction possible until 12 bar)
- rapid clamping of specimens by a central threaded spindle installed above. A new construction guarantees an absolute impermeability of the test benches.
- rust prevention in wet part by used materials.
- separate loops for each 3 test benches, adjustable by a fine regulation valve and works calibrated manometer which is appropriate for calibration.

WE 3 OMZ
- with 3 test benches
- without quantitative water measuring

Order-No. B1320

WE 3 MMZ
- with 3 test benches
- with quantitative water measuring

Order-No. B1321

WE 6 OMZ
- with 6 test benches
- without quantitative water measuring

Order-No. B1322

WE 6 MMZ
- with 6 test benches
- with quantitative water measuring

Order-No. B1323

made in Germany

VDMA

Aggregates

Grain Size Distribution

EN 12620 - EN 933

Ⓐ

Ⓐ Sample Splitters

- consisting of dividing part, rack and 3 receivers 8 litres
- galvanized version

- 6 divisions, openings 75 mm
Order-No. N0420

- 8 divisions, openings 50 mm
Order-No. N0421

- 12 divisions, openings 37.5 mm
Order-No. N0422

- 16 divisions, openings 25 mm
Order-No. N0423

Ⓑ

Ⓑ Sample Splitters

- consisting of dividing part (stainless steel), rack (painted) and 3 receivers (tin sheet) 1.75 litres

- 12 divisions, openings 6.3 mm
Order-No. N0430

- 18 divisions, openings 12.5 mm
Order-No. N0431

Single parts available on request.

Ⓒ

Ⓒ Rotating Sample Splitter

- for solid and poor-flow materials
- best possible sample division
- for wet and dry division
- simple handling
- diameter of hopper: 10 mm
- dimensions: 609 x 383 x 660 mm
- 230 Volt, 50 Hz
- weight approx.: 30 kg

- rate 1:8
- max. feed volume: 4000 ml
Order-No. N0435

- rate 1:10
- max.feed volume: 2500 ml
Order-No. N0436

made in Germany

VDMA

Grain Size Distribution

EN 12620 - EN 933
EN 13055-1 EN 13139
DIN 4226 - 100

Laboratory Sieve Shaker


Ⓐ

Ⓐ EML 200 PURE „eco“
- for dry sieving
- sample weight approx. 3 kg
- clamping system “Classic“
- for 9 normal test sieves (50 mm effective height) or 15 reduced test sieves (32 mm effective height)
- possible diameters 50 - 203 mm
- delivery including cover with inspection glass

Order-No. N0550


Ⓑ

Ⓑ EML 200 Premium
- for dry sieving
- sample weight approx. 3 kg
- clamping system TwinNut
- for 9 normal test sieves (50 mm effective height) or 15 reduced test sieves (32 mm effective height)
- delivery including cover with inspection glass

Order-No. N0552


Ⓒ

Ⓒ EML 200 Premium N
- for dry and wet sieving
- separate control unit
- delivery including cover with inspection glass and wide spreading spray diffuser
- water socket with plug-in nozzle

Order-No. N0554


Ⓓ

Ⓓ EML 315 digital plus T
- for dry sieving
- sample weight approx. 6 kg
- clamping system TwinNut
- for 8 normal sieves (60 mm effective height) or 14 reduced test sieves (30 mm effective height)
- possible diameters 300, 250 und 200 mm
- delivery including cover with inspection glass

Order-No. N05090


Ⓔ

Ⓔ EML 315 digital plus N
- for wet and dry sieving
- separate control unit
- delivery including cover with inspection glass and wide spreading spray diffuser
- water socket with plug-in nozzle

Order-No. N05091

Grain Size Distribution

EN 12620 - EN 933
EN 13055-1 EN 13139
DIN 4226 - 100

Laboratory Sieve Shaker

Ⓐ EML 450 digital plus T

- for dry sieving
- sample weight approx. 15 kg
- clamping system TwinNut
- for 12 test sieves
- possible diameters 450, 400, 350, 315, 305, 300 mm
- delivery including cover with inspection glass

Order-No. N0510

Ⓑ EML 450 digital plus N

- for wet and dry sieving
- separate control unit
- clamping system TwinNut
- delivery including cover wiih inspection glass and wide spreading spray diffuser
- water socket with plug-in nozzle
- 2 hose clamps, 3 m PVC-water hose

Order-No. N0512

Ⓒ UWL 400 T

- for dry sieving
- sample weight approx. 20 kg
- clamping system TwinNut
- for 12 test sieves
- delivery including machine cover with inspection glass

Order-No. N05070

Ⓓ UWL 400 digital plus N

- for wet and dry sieving
- separate control unit
- clamping system TwinNut
- delivery including cover with inspection glass and wide spreading spray diffuser
- water socket with plug-in nozzle
- 2 hose clamps, 3 m PVC-water hose

Order-No. N05071

Grain Size Distribution

Ⓐ Laboratory Sieve Shaker UWL 400 H
- for dry sieving
- separate control unit
- 1 mounting device for sieves with wooden frame 300 x 300 / 500 x 500 mm

Order-No. N05072

Ⓑ Sieves with Wooden Frame
- mesh resp. sheets can be exchanged
- available dimensions: 300 x 300 and 500 x 500
- mesh sizes 0.045 - 3.55 mm
- hole widths 4.0 - 125 mm

Ⓒ Sound Insulation Cabinet
- for noise reduction in the laboratory
- depending on machine type and screening material

- for EML 200
- dimensions (width x depth x height) 600 x 600 x 1200 mm
- weight approx. 60 kg

Order-No. N050502

- for EML 315
- dimensions (width x depth x height) 800 x 600 x 1200 mm
- weight approx. 68 kg

Order-No. N0505022

- for EML 450 and UWL 400
- dimensions (width x depth x height) 1000 x 800 x 1800 mm
- weight approx. 114 kg

Order-No. N050503

Ⓓ Wire Brush - Small
- crimped brass wire
- on beech wood body
- total length: 150 mm

Order-No. S18170

Ⓔ Wire Brush - Big
- crimped brass wire
- on beech wood body
- total length: 290 mm

Order-No. S1817

Ⓕ Sieve Brush Big
- round Ø 50 mm

Order-No. S1810

Ⓖ Sieve Brush Small
- round Ø 30 mm

Order-No. S18105

Hand Brush (without picture)
- for moist and oily material
- total length: 300 mm

Order-No. S1620

Internationale Analysensieb-Vergleichstabelle 2017

SIEBBÖDEN FÜR ANALYSENSIEBE (Prüfsiebe) Maschen- bzw. Lochweiten

125–1 mm
TABLE 1

International Test Sieve Comparison Table 2017

TEST SIEVES, NOMINAL SIZES OF OPENINGS

1	2	3	4	5	6	7	8	9	10	11	12
ISO 3310 Table 1, Millimetre sizes			DEU	DEU	DEU		USA		USA	USA	TYLER®
N BSI NF*			DIN	DIN	DIN						
Hauptreihe Principal sizes	Nebenreihen Supplementary sizes					Standard	U.S. Alternative	Nebenreihen Supplementary sizes			
R 20/3	R 20	R 40/3									
			DIN ISO 3310-1 #	DIN ISO 3310-2 ●	DIN ISO 3310-2 ■	ASTM E11 #		ASTM E11	ASTM E323 ●	ASTM E323 ■	TYLER Screen Scale #
Nennmaschenweiten nach ISO 565 Nominal aperture sizes acc. to ISO 565			125–1	125–1	125–4	125–1		125–1	125–1	125–3.35	26,5–1
w	w	w	w	w	w	w	No.	w	w	w	Mesh
125	125	125	125	125	125	125	5 in.		125	125	
	112		112	112	112			112			
		106	106	106	106	106	4.24 in.		106	106	
	100		100	100	100	100	4 in.		100	100	
90	90	90	90	90	90	90	3.1/2 in.		90	90	
	80		80	80	80			80			
		75	75	75	75	75	3 in.		75	75	
	71		71	71	71			71			
63	63	63	63	63	63	63	2.1/2 in.		63	63	
	56		56	56	56			56			
		53	53	53	53	53	2.12 in.		53	53	
	50		50	50	50	50	2 in.		50	50	
45	45	45	45	45	45	45	1.3/4 in.		45	45	
	40		40	40	40			40			
		37,5	37,5	37,5	37,5	37.5	1.1/2 in.		37.5	37.5	
	35,5		35,5	35,5	35,5			35.5			
31,5	31,5	31,5	31,5	31,5	31,5	31.5	1.1/4 in.		31.5	31.5	
	28		28	28	28			28			
		26,5	26,5	26,5	26,5	26.5	1.06 in.		26.5	26.5	1.05 in.
	25		25	25	25	25.0	1 in.		25.0	25.0	
22,4	22,4	22,4	22,4	22,4	22,4	22.4	7/8 in.		22.4	22.4	.883 in.
	20		20	20	20			20			
		19	19	19	19	19.0	3/4 in.		19.0	19.0	.742 in.
	18		18	18	18			18			
16	16	16	16	16	16	16.0	5/8 in.		16.0	16.0	.624 in.
	14		14	14	14			14			
		13,2	13,2	13,2	13,2	13.2	0.530 in.		13.2	13.2	.525 in.
	12,5		12,5	12,5	12,5	12.5	1/2 in.		12.5	12.5	
11,2	11,2	11,2	11,2	11,2	11,2	11.2	7/16 in.		11.2	11.2	.441 in.
	10		10	10	10			10			
		9,5	9,5	9,5	9,5	9.5	3/8 in.		9.5	9.5	.371 in.
	9		9	9	9			9			
8	8	8	8	8	8	8.0	5/16 in.		8.0	8.0	2.1/2
	7,1		7,1	7,1	7,1			7.1			
		6,7	6,7	6,7	6,7	6.7	0.265 in.		6.7	6.7	3
	6,3		6,3	6,3	6,3	6.3	1/4 in.		6.3	6.3	
5,6	5,6	5,6	5,6	5,6	5,6	5.6	3.1/2		5.6	5.6	3.1/2
	5		5	5	5			5			
		4,75	4,75	4,75	4,75	4.75	4		4.75	4.75	4
	4,5		4,5	4,5	4,5			4.5			
4	4	4	4	4	4	4.00	5		4.00	4.00	5
	3,55		3,55	3,55				3.55			
		3,35	3,35	3,35		3.35	6		3.35	3.35	6
	3,15		3,15	3,15				3.15			
2,8	2,8	2,8	2,8	2,8		2.80	7		2.80		7
	2,5		2,5	2,5				2.5			
		2,36	2,36	2,36		2.36	8		2.36		8
	2,24		2,24	2,24				2.24			
2	2	2	2	2		2.00	10		2.00		9
	1,8		1,8	1,8				1.8			
		1,7	1,7	1,7		1.70	12		1.70		10
	1,6		1,6	1,6				1.6			
1,4	1,4	1,4	1,4	1,4		1.40	14		1.40		12
	1,25		1,25	1,25				1.25			
		1,18	1,18	1,18		1.18	16		1.18		14
	1,12		1,12	1,12				1.12			
1	1	1	1	1		1.00	18		1.00		16

Drahtgewebe # Woven Wire Cloth Rundlochung ● Round Holes Quadratlochung ■ Square Holes

*Nationale Ausgaben der ISO 3310

Internationale Analysensieb-Vergleichstabelle 2017

SIEBBÖDEN FÜR ANALYSENSIEBE (Prüfsiebe) Maschen- bzw. Lochweiten

900–5 µm
TABLE 2

International Test Sieve Comparison Table 2017

TEST SIEVES, NOMINAL SIZES OF OPENINGS

1	2	3	4	5	6	7	8	9	10	11
ISO 3310 Table 2, Micrometre sizes			DEU	DEU		USA	USA		USA	TYLER®
ISO	N	BSI NF*	DIN	DIN		ASTM	ASTM	ASTM	ASTM	
Hauptreihe Principal sizes	Nebenreihen Supplementary sizes					Standard	U.S. Alternative	Nebenreihen Supplementary sizes		
R 20/3	R 20	R 40/3								
			DIN ISO 3310-1 #	DIN ISO 3310-3		ASTM E11 #		ASTM E11 #	ASTM E161	TYLER Screen Scale #
Nennmaschenweiten nach ISO 565 Nominal aperture sizes acc. to ISO 565			900–20	500–5		850–20		900–36	500–5	850–20
w	w	w	w	w		w	No.	w	w	Mesh
	900		900					900		
		850	850			850	20			20
	800		800					800		
710	710	710	710			710	25			24
	630		630					630		
		600	600			600	30			28
	560		560					560		
500	500	500	500	500		500	35		500	32
	450		450	450				450		
		425	425	425		425	40		425	35
	400		400	400				400		
355	355	355	355	355		355	45		355	42
	315		315	315				315		
		300	300	300		300	50		300	48
	280		280	280				280		
250	250	250	250	250		250	60		250	60
	224		224	224				224		
		212	212	212		212	70		212	65
	200		200	200				200		
180	180	180	180	180		180	80		180	80
	160		160	160				160		
		150	150	150		150	100		150	100
	140		140	140				140		
125	125	125	125	125		125	120		125	115
	112		112	112				112		
		106	106	106		106	140		106	150
	100		100	100				100		
90	90	90	90	90		90	170		90	170
	80		80	80				80		
		75	75	75		75	200		75	200
	71		71	71				71		
63	63	63	63	63		63	230		63	250
	56		56	56				56		
		53	53	53		53	270		53	270
	50		50	50				50		
45	45	45	45	45		45	325		45	325
	40		40	40				40		
		38	38	38		38	400		38	400
R'10	36		36	36				36		
32			32	32		32	450		32	450
25			25	25		25	500		25	500
20			20	20		20	635		20	635
				16					15	
				10					10	
				5					5	

Drahtgewebe # Woven Wire Cloth Elektrogeformte Siebfolie Electroformed sheet

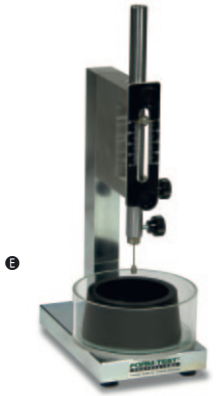
*Nationale Ausgaben der ISO 3310


Ⓐ


Ⓑ


Ⓒ


Ⓓ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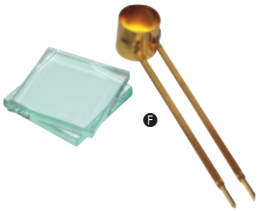
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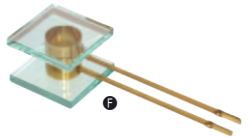
Ⓕ

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VDMA

Cement Test

EN 196

Ⓐ Mortar Mixer
- with manual control
- 2 mixing speeds

Order-No. B2780

Ⓑ Mortar Mixer
- for production of standard prisms
- with programme automatic
- 2 mixing speeds: 140 to 285 min.
- sand feeding device
- prepared to connect water dosage device.
- weight approx. 80 kg
- electric connection 110/230V, 50/60 Hz, 0.4 kW
- dimensions approx. (DxWxH): 465 x 610 x 850 mm

Order-No. B2781

Mortar Mixer
- as before, but with water dosage device

Order-No. B2782

Ⓒ Automatic Vicat-Needle Device
- stiffness begin – stiffness end

delivery volume:
- needle Ø 1.13 mm
- needle Ø 1.13 mm with special foot
- immersion rod Ø 10 mm
- hard rubber ring Ø 70 / 80 mm
- glass plate
- registration paper
- additional weight 200 g
- tool set (allen type wrench 2.0 and 2.5 mm)

Order-No. B26660

Accessories:

Ⓓ Needle Cleaner

Order-No. B26670

Ⓔ Vicat-Needle Device
- stiffness begin – stiffness end

delivery volume:
- needle Ø 1.13 mm
- needle Ø 1.13 mm with special foot
- immersion rod Ø 10 mm
- hard rubber ring Ø 70 / 80 mm
- glass plate

Order-No. B26091

Ⓕ LeChatelier Ring
- made of brass
- for determination of volume consistency of cement
- with 2 measuring tops
- incl. 2 glass plates

Order-No. B2601

FORM+TEST PRÜFSYSTEME

Cement Test

EN 196

Ⓐ

Ⓐ Jolting Table

- for compacting of specimens
- dimensions:
  jolting table 1100 x 400 x 280 mm
  switch box 200 x 300 x 120 mm
- weight:
  jolting table 55 kg
  switch box 8 kg
- electric connection 230 V / 50 Hz

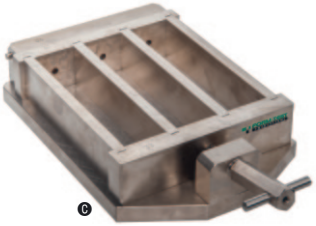
Order-No. B2830

Ⓑ

Ⓑ Vibrating Table

- for compacting of specimens
- table plate: 400 x 300 mm
- stainless steel table plate
- vibrations: 3000 rpm.
- clamping device for specimen mould
- vibration width setting
- vibration width display
- timer-Digital

Order-No. B2808



Ⓒ

Ⓒ Precision Three-Gang-Mould

- with bore holes for shrinkage measuring pins
- all parts chemical nickeled
- surface grinded
- webs and nut plates marked
- dimensions W/D/H: 160 x 40 x 40.1 mm

Order-No. B2709222

Precision Three-Gang-Mould

- as before but without bore holes for shrinkage measuring pins

Order-No. B270925

Ⓓ

Ⓓ Adapter Box

Order-No. B2710

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Mortar Test

DIN EN 459-2
DIN EN 1015

Ⓐ Air Entrainment Meter
- for testing of air content in fresh mortar
- incl. washing bottle 1000 ml
- content 1 ltr.

Order-No. B2030

Ⓑ Extension Collar
- for air entrainment meter B2030

Order-No. B2031

Ⓒ Pot 1 Litre
Order-No. B2030-18

Haegermann-Flow Table
- for flow tests
- manually operated, with counter
- complete with stainless steel plate Ø 300 mm
- funnel Ø 70/100 mm, height 60 mm, material thickness 2 mm
- extension collar and hand tamper

Order-No. B29025

Ⓓ Haegermann-Flow Table
- for flow tests
- manually operated, without counter
- complete with stainless steel plate Ø 300 mm
- funnel Ø 70/100 mm, height 60 mm, material thickness 2 mm
- extension collar and hand tamper

Order-No. B29015

Ⓔ Haegermann-Flow Table
- for flow tests
- manually operated, without counter
- complete with aluminium/glass plate Ø 300 mm
- funnel Ø 70/100 mm, height 60 mm, material thickness 2 mm
- extension collar and hand tamper

Order-No. B2901

Ⓕ Haegermann-Flow Table
- for flow tests
- with electric drive and counter
- complete with stainless steel plate Ø 300 mm
- funnel Ø 70/100 mm, height 60 mm, material thickness 2 mm
- extension collar and hand tamper
- electric connection: 230 V / 50 Hz

Order-No. B2820

Haegermann-Flow Tables also deliverable with aluminium/glass plate.

Mortar Test

DIN EN 459-2
DIN EN 1015

Ⓐ Stiffness Measuring Apparatus
- for testing of properties of masonry cement consisting of:
- stand, falling rod, measuring pot and hand tamper Ø 40 mm
- falling weight totally 90 g
- falling height 100 mm

Order-No. B2670

Ⓑ Mortar Mixer
- with manual control
- 2 mixing speeds

Order-No. B2780

Ⓒ Mortar Mixer
- 2 mixing speeds (140 and 285 rpm)
- incl. mixing pan with 5 ltr. content made of stainless steel and flat stirrer made of stainless steel
- electric connection: 230 V / 50 Hz / 0.12 kW
- dimensions (DxWxH): 380 x 260 x 430 mm

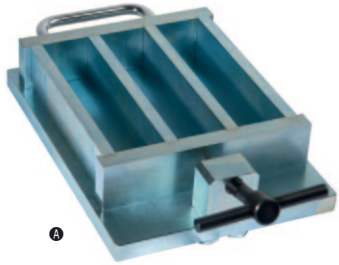
Order-No. B27010

Ⓓ Mortar Mixer
- infinitely varibale mixing speeds
- mixing pan with 5 ltr. content and flat stirrer made of rust free steel
- electric connection: 230 V, 50 Hz, 0,5 kW
- dimensions approx. (DxWxH): closed 462 x 240 x 400 mm opened 462 x 240 x 550 mm

Order-No. B27020

Mortar Test

DIN EN 459-2
DIN EN 1015


Ⓐ

Ⓐ Three Gang Mould
- light execution
- surface galvanized blue
- dimensions: 40 x 40 x 160 mm

Order-No. B2709


Ⓑ

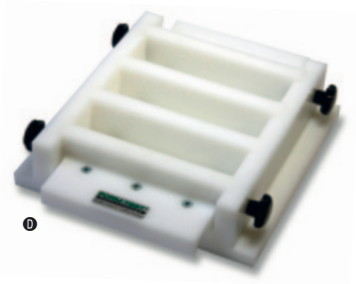
Ⓑ Hand Tamper
- acc. to DIN 18 555, part 7
- dimensions: 150 x 20 mm

Order-No. B2711


Ⓒ

Ⓒ Hand Tamper
- acc. to DIN 52 450
- dimensions: 110 x 20 mm

Order-No. B2712


Ⓓ

Ⓓ Three Gang Mould
- made of white special plastic (Hakorit)
- very low-wear
- stiffned against bending and unbreakable
- self-lubricated
- easy cleaning because no cement or mortar adheres
- no rust possible
- no much time necessary for cleaning
- temperature for use max. +80°C
- temperature for use min. -30°C
- for simultaneous production of 3 test specimens
- dimensions: 40 x 40 x 160 mm

Order-No. B270940


Ⓔ

Ⓔ Six Gang Mould
- made of white special plastic (Hakorit)
- very low-wear
- stiffned against bending and unbreakable
- self-lubricated
- easy cleaning because no cement or mortar adheres
- no rust possible
- no much time necessary for cleaning
- temperature for use max. +80°C
- temperature for use min. -30°C
- for simultaneous production of 6 test specimens
- dimensions: 40 x 40 x 160 mm

Order-No. B270942

Mortar Test

DIN EN 459-2
DIN EN 1015

Ⓐ Shrinkage Measuring Device
• with digital gauge
• for specimens 40x40x160 mm
• for strength up to 0,5 N/mm²
• measuring range 10 mm
• resolution 0,001 mm
• C lying execution
Order-No. B29081

Ⓑ • B standing execution
Order-No. B29102

Shrinkage Measuring Device
• with analogues gauge
• C lying execution
Order-No. B29083

• B standing execution
Order-No. B2910

Ⓒ Reference Body C
Order-No. B29084

Reference Body B
Order-No. B29104

Measuring Pins
• form C, Type 1
• 1 packing unit = 60 pieces
Order-No. B290850

• form C, Type 2
• 1 packing unit = 60 pieces
Order-No. B290870

• form AB, Type 1
• 1 packing unit = 60 pieces
Order-No. B290860

• form AB, Type 2
• 1 packing unit = 60 pieces
Order-No. B290880

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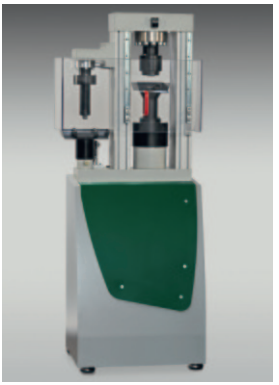
Choose Success!

FORM+TEST PRÜFSYSTEME

Compression and Bending Testing Machine MEGA 100-200-10 DM1-S

- **accuracy according to DIN EN ISO 7500-1, class 1**
- **for compression and flexure strength tests according to EN 196, EN 1015, EN 13892-2 with options also acc. EN 12504-1 and EN 993-5**
- **automatic load increase by digital controller *DigiMaxx® C40* with servo valve in closed loop system with nominal-actual value comparison**



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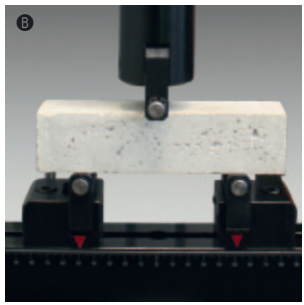
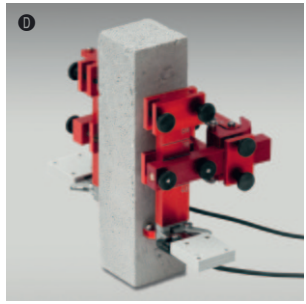
Technical Data – Compression Test

- test load max.: 200 kN
- working pressure max.: 192.55 bar
- piston stroke: 50 mm
- upper pressure plate: 40 mm
- lower pressure plate: 40 mm
- hardness of pressure plates: 58-62 HRC > 600 HV
- test area height: 50 mm
- inner width of test frame: 226 mm
- measuring range: 2.00 ... 200 kN
- display area: 0 ... 200 kN

Technical Data – Bending Test

- test load max.: 10 kN
- working pressure max.: 79,57 bar
- piston stroke: 50 mm
- test area height: 50 mm
- length of bending roller: 50 mm
- bending roller Ø: 10 mm
- bending roller distance: 100 mm
- measuring range: 0.2 ... 10 kN
- display area: 0 ... 10 kN
- force measurement via electronic load cell insensitive to shear forces
- voltage: 3x 400 Volt, 50 Hz, 3.0 kW
- weight: appr. 450 kg





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:

- larger (higher) test area
- larger pressure plates
  dimensions 110 x 110 x 30 mm
  dimensions Ø 210 x 40 mm
  dimensions 210 x 210 x 40 mm

Ⓐ set of pressure plates with floating axle for the bending test area

Ⓑ bending table with adjustable bending rollers 30 ... 250 mm

Ⓒ compression device DV 600 AZ

Ⓓ E-modulus measuring equipment

- test software **PROTEUS**^{MT}

Available with following test loads:

- for compression test:
  100 kN, 200 kN, 300 kN
- for bending test:
  10 kN, 20 kN, 30 kN

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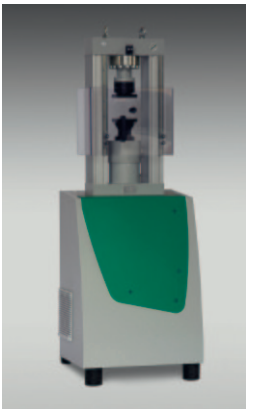
FORM+TEST PRÜFSYSTEME

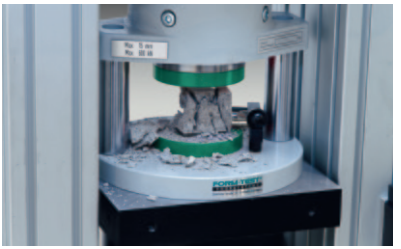
Compression Testing Machine MEGA 110-200 DM1-S

- **accuracy according to DIN EN ISO 7500-1, class 1**
- **for compressive strength tests on material samples especially acc. to EN 196, EN 1015, EN 13813, EN 13892-2, EN 12504-1 and EN 993-5**
- **automatic load increase by digital controller *DigiMaxx® C-40* with servo valve in closed loop system with nominal-actual value comparison**

Technical Data – Test Frame

- test load max.: 200 kN
- working pressure max.: 192.55 bar
- piston stroke: 50 mm
- upper pressure plate: 40 mm
- lower pressure plate: 40 mm
- hardness of pressure plates: 58-62 HRC > 600 HV
- test area height: 50 mm
- inner width of test frame: 226 mm
- measuring range: 2.00 ... 200 kN
- display area: 0 ... 200 kN
- force measurement via an electronic load cell insensitive to shear forces
- voltage: 3x 400 Volt, 50 Hz, 1.5 kW
- weight approx.: 275 kg





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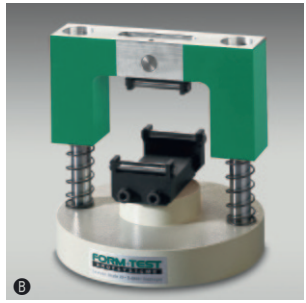
Ⓐ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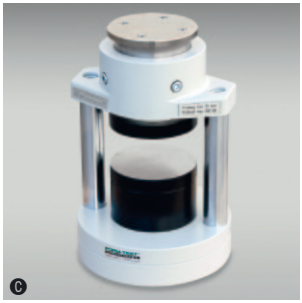
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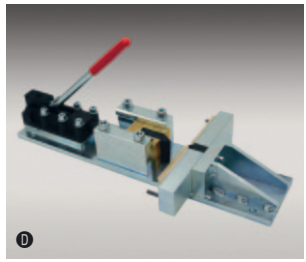
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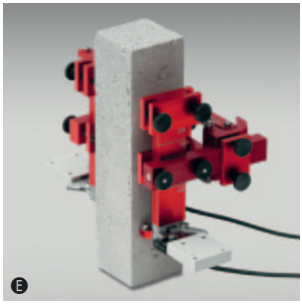
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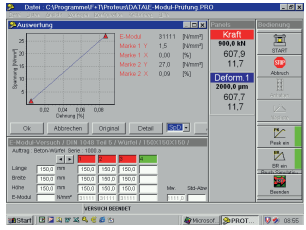
Ⓔ

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)
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- adjustable break detection
- adjustable piston back-travel time
- specimen storage for test results
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- USB port for data export
- Ethernet connection for communication with PC software

Options:

- larger (higher) test area
- larger pressure plates
  dimensions 110 x 110 x 30 mm
  dimensions Ø 210 x 40 mm
  dimensions 210 x 210 x 40 mm

Ⓐ compression device DV 600 AZ

Ⓑ bending device BV 10 OM

Ⓒ compression device DV 600

Ⓓ prism splitting device

Ⓔ measuring equipment for modulus of elasticity

- test software **PROTEUS**^{MT}
- electronic piston stroke measuring and control equipment

Available with following test loads:

- 100 kN, 200 kN, 300 kN

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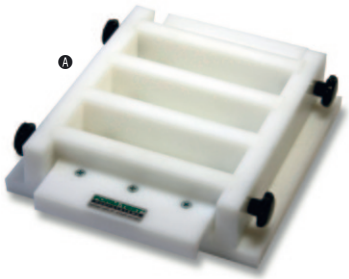


Special-Plastic-Moulds for Production of Specimens

made of white special plastic (Hakorit)

- **very low-wear**
- **stiffned against bending and unbreakable**
- **self-lubricated**
- **easy cleaning because no cement or mortar adheres**
- **no rust possible**
- **no much time necessary for cleaning**
- **temperature for use max. +80°C**
- **temperature for use min. -30°C**

Ⓐ Three Gang Mould
- for simultaneous production of 3 test specimens
- dimensions: 40 x 40 x 160 mm

Order-No. B270940

Ⓑ Six Gang Mould
- for simultaneous production of 6 test specimens
- dimensions: 40 x 40 x 160 mm

Order-No. B270942

Ⓒ Three Gang Mould
- for simultaneous production of 3 test specimens
- dimensions: 230 x 64 x 54 mm

Order-No. B270950

Ⓓ Triple Cylinder Mould
- for simultaneous production of 3 test specimens
- dimensions:
  diameter: 50 mm
  height: 50 mm

Order-No. B16090

Triple Cylinder Mould
- for simultaneous production of 3 test specimens
- dimensions:
  diameter: 36 mm
  height: 36 mm

Order-No. B16092

Ⓔ Cylinder Mould
- demoulding by separating the 2 half shells (star grips)
- steel base for magnetic clamping
- dimensions test specimen:
  Ø 100 x 300 mm
- external dimensions:
  approx. 140 x 260 x 330 mm
- weight: approx. 5 kg

Order-No. B16094

Construction Repair

Component Moisture Test

Ⓐ Electronic Thermo-Hygrograph

- for fully automatic registration of temperature and humidity
- with internal measuring sensor
- digital display
- IP 65 water-proof
- with data memory 100.000 values
- automatic output as PDF-file
- interface USB
- for data evaluation with Windows software
- measuring range - temperature: -40 ... +70 °C
- resolution: 0.1°C
- accuracy: +/- 0.5°C
- measuring range - humidity: 0 ... 100 % r.F.
- resolution: 0.5 % r.F.
- accuracy: +/- 3 % r.F.

Order-No. R0980

Ⓑ Thermo-Hygrometer with Holding Magnets

- measuring ranges:
  surface temperature: -10 ... +40°C
  air temperature: -10 ... +40°C
  relative surface moisture: 20 ... 100%
  dew point temperature: -8 ... +26°C
- housing diameter: 130 mm
- weight approx.: 180 g
- delivery with PVC storage box

Order-No. R0319

Ⓒ CM–Moisture Tester

- moisture test acc. calcium carbide method
- with analogues manometer
- with electronic precision balance
- with stop watch / timer

Order-No. T0840

CM–Moisture Tester

- acc. ZTV-ING

as T0840, but:

- with additional stainless steel sieve Ø 100 mm, mesh 2.0 mm

(without picture)
Order-No. T0841

Ⓓ CM–Moisture Tester

- moisture test acc. calcium carbide method
- with digital manometer
- with electronic precision balance
- with stop watch / timer

Order-No. T0855

Building Restoration Roughness Measuring Device SRC

Ⓐ

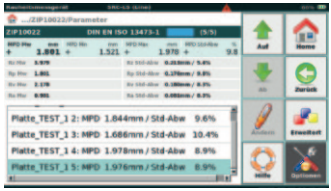
Ⓐ SRC Controller

- robust housing
- easy operation via touch display
- clearly arranged surface
- suitable for mobile use
- interface for SRC-LS and SRC-PS laser units
- USB interface for battery charging and data export
- with battery pack

Software Features:

- calculation of the roughness depths R_t, acc. to ZTV-ING, DAfStb-Rili SIB, DIN EN 1766 and DIN EN 13036-1, on the basis of correlations
- calculation of the mean profile depth MPD acc. to DIN EN ISO 13473-1 and
  Rp height of the largest profile peak
  Rv depth of the largest profile valley
  Rz greatest height of profile (Rz=Rp+Rv)
  Ra arithm. mean value of the profile
  coordinates in accordance with DIN EN ISO 4287
- reliable determination of consumption quantities
- guided sequence control of a measurement process
- graphic display of surface profiles
- correction of outlier values due to shadows or reflections
- export of the measurement date via USB
- flexible evaluation options and data storage
- dimensions: 200x240x105 mm
- weight: 3.8 kg

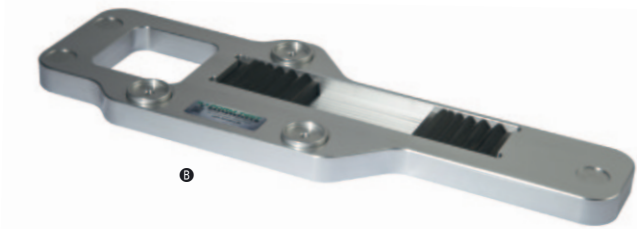
Order-No. T1200



Ⓑ Calibration Profile

- for calibration of the laser unit
- dimensions (LxWxH): 440x145x22 mm

Order-No. T1240



Ⓑ

FORM+TEST PRÜFSYSTEME

Building Restoration Roughness Measuring Device SRC

- measurement of surface roughness in seconds, significant time saving compared to the sand surface method, also fewer test influences and more meaningful results
- use on any oriented surfaces (ceiling, wall, floor, slope)
- for the measurement of surface roughness on facades, component undersides, tunnel walls, road surfaces, bridge piers, etc.
- can also be used on moderately damp surfaces
- operation requires a SRC controller
- low maintenance, high-quality materials for long service life

Ⓐ

Ⓐ SRC-LS Linear Laser Unit

- device development together with BAM
- for particularly high measuring speeds
- does not require a mechanical drive

Laser features:

- measuring range: Z-axis 50 mm
- resolution Z-axis 4 µm
- measuring range X-axis 50 mm
- resolution X-axis 80 µm
- measuring principle: triangulation method
- laser protection class 2M
- housing dimensions: Ø 130x270 mm
- weight: 2.4 kg

Order-No. T1220

Ⓑ

Ⓑ SRC-PS Point Laser Unit

- particularly suitable for measurements in confined spaces

Laser features:

- measuring range: Z-axis 30 mm
- resolution Z-axis 30 µm
- measuring distance X-axis 200 mm
- resolution X-axis 80 µm
- measuring principle: triangulation method
- laser protection class 2M
- housing dimensions: 430x82x82 mm
- weight: 2.1 kg

Order-No. T1230


Ⓒ

Ⓒ Telescopic Rod

- suitable for point laser unit

Order-No. T1235

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FORM+TEST PRÜFSYSTEME

made in Germany

VDMA

Building Repair Work

BASIC

Bond Strength Tester ConfiTest 12

Class 1 acc. to EN ISO 7500-1

Determination of surface tensile strength, tensile adhesive strength and pull-off strength of concrete, mortar, plasterings, coatings, etc.

Advantages:
- constant, bumpless load increase
- mobile device
- low weight
- battery-supplied
- e.g. for self-checking
- new type of manometer
- direct display of N/mm² or kN
- 3 tension plate sizes selectable (Ø 20 mm, Ø 50 mm, 50 x 50 mm)

Technical Data:

• force:	12	kN
• readability:	0.01	kN
• measuring area:	1.2 - 12	kN
• display area:	0 - 12	kN
• measuring area:	6	N/mm²
• display area:	0 - 6	N/mm²
• weight (only equipment):	4.6	kg
• weight (with case):	7.5	kg

Standards:
DIN 1048-2, EN 1542 (1999), EN12618-2 (2004), EN 13395-4 (2002), EN 13892-8 (2003), ZTV-ING (2003), ZTV-SIB (1990), DAfStb-Rule, SIA 2002, BEB-leaflet

Scope of Supply:
- bond strength tester ConfiTest 12. with digital manometer
- test plate 50 mm
- tension bolt
- carrying case
- operating manual
- charge cable
- calibration certificate

Order-No. B3060-V23

Accessories (optional):
- test plates Ø 50 mm, Alu
  Order-No. B3049
- test plates 50 x 50 mm, steel
  Order-No. B30496
- test plates Ø 20 mm, steel
  Order-No. B30493
- diamond drill bit with adapter for SDS connection
  Order-No. B3043
- adhesive kit
  Order-No. B3062

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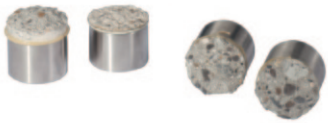

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Building Repair Work

ECONOMIC

Bond Strength Tester ConsurTest

Class 1 acc. to EN ISO 7500-1

for determination of the surface tensile strength, tensile adhesive strength and pull-of strength of:

- concrete
- screed
- mortar
- adhesives
- plaster
- coatings
- parquet flooring

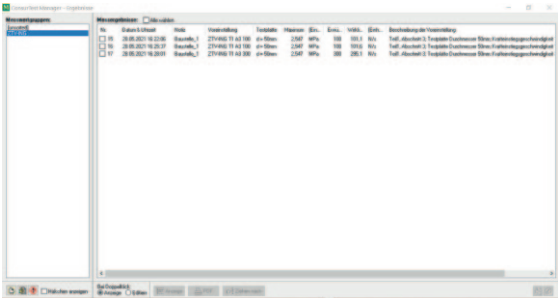
Advantages:

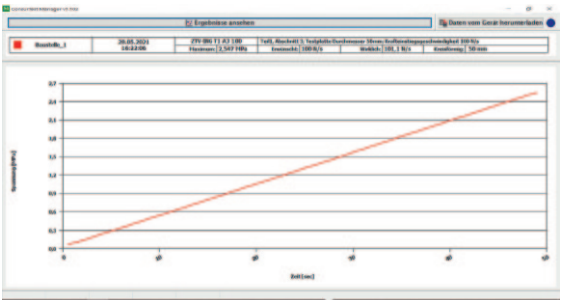
- automatic load control (force control)
- constant bumpless rate of loading
- accuracy +/- 1 %
- grips for comfortable use on walls and ceilings
- low weight
- mobile device
- battery-supplied
- free input of test speeds (N/sec., MPa)
- currently 7 fixed programmed testing procedures relating to testing speed and sizes of test plates

acc. to the following standards:

- DIN 1048-2,
- ZTV-ING (2003)
- EN 12004-2
- EN 1542 (1999)
- EN 13892-8 (2003)
- DIN EN ISO 4624

3 Types Available with Tensile Forces 5, 10, 15 kN





- operation via buttons
- all test programmes are stored on the unit
- data storage in the internal memory
- measured values are displayed on the bond strength tester
- data transfer to PC via Blutooth
- test management
- creation of protocols
- test software “ConsurTest Manager“ for bond strength tester “ConsurTest Economic“

Scope of Supply:

- bond strength tester
- quick coupling (illuminated)
- integrated storage battery for approx. 80 tests
- charger for bond strength tester
- transport case
- operating manual
- calibration certificate

Accessories:

Test Plates

- test plates Ø 50 mm, steel, 1 set=10 pieces Order-No. B30665
- test plates 50x50 mm, steel, 1 set=10 pieces Order-No. B30675

Ⓐ tripod (supplement)
fixed clamping with ConsurTest
for compensation of rough surfaces
Order-No. B306955

General Accessories:

Ⓑ adhesive kit consisting of:
special adhesive (3 cartridges)
dispenser with static mixer
gloves, protective glasses
transport case
Order-No. B3062

Ⓒ diamond drill bit
Order-No. B3043

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made in Germany

VDMA

Building Repair Work

PROFI

Bond Strength Tester ConsurTest

Class 1 acc. to EN ISO 7500-1

for determination of the surface tensile strength, tensile adhesive strength and pull-of strength of:

- concrete
- screed
- mortar
- adhesives
- plaster
- coatings
- parquet flooring
- thermal insulation composite systems (with special accessories)

Advantages:

- automatic load control (force control)
- constant bumpless rate of loading
- accuracy +/- 1 %
- grips for comfortable use on walls and ceilings
- low weight
- mobile device
- battery-supplied
- free input of test speeds (N/sec., MPa)
- route-controlled testing (mm/min)
- immediate control of the course of the test
- currently 17 fixed programmed testing procedures relating to testing speed and sizes of test plates

acc. to the following standards:

- DIN 1048-2,
  ZTV-ING (2003),
  EN 1015-12,
  EN 1348,
  EN 1542 (1999),
  EN 12618-2 (2004),
  EN 13892-8 (2003),
  DIN EN ISO 4624,
  ETAG 004

FORM+TEST Seidner & Co. GmbH
Zwiefalter Straße 20
88499 Riedlingen

Prüfprotokoll

Allgemeine Projektdaten

Bauprojekt Name:	**Anbau Stadthalle**	Art des Untergrundes:	Beton
Bauprojekt Nr.:	**High Class 11/20**	Vorbehandlung des Untergrundes:	gestrahlt
Prüfungsanzahl:	5		
Prüfnorm:	ZTV-ING Teil1, Abschnitt 3 Prüfungen während der Ausführung Krafteinstiegsgeschwindigkeit 50 N/s	Lufttemperatur:	18 °C
		relative Luftfeuchtigkeit:	46 %
		Taupunkt:	4 °C
Anwender:	Th. Zippler	Oberflächentemperatur:	10 °C
Klebstoff:	MC-Bauchemie (2 Komponeten)	Untergrundfeuchte:	4 %
Prüfgerät (Fabrikat/Typ):	ConsurTest 10 - Serien-Nr.: 17715		
letzte Kalibrierung:	01.03.2020		

Auswertung der 5. Prüfung

Test-Nr: 119 Prüfdatum: 18.11.2020 12:16:00

Kraft (maximal):	3,998 kN	Ringnutbohrung:	Ja
Spannung (maximal):	2,036 MPa	Versagensart:	Kohäsion 90 %
Prüfgeschwindigkeit:	50 N/s	Prüfrichtung:	Boden
Prüffläche (Kreisförmiger Stempel):	50 mm		

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88499 Riedlingen

Details zum Projektabschluss

Bemerkung:

Spannung (Ø aller Tests):	1,43 MPa
Berichtsdatum:	25.11.2020 15:16
Unterschrift:	

Nr.:	Abrisskraft (KN):	Abrissfestigkeit (MPa):	Bruchbild:	Abrisstiefe (mm):
1	2,548	1,296	Adhäsion	0-5mm
2	1,687	0,859	Kohäsion	5-10mm
3	2,926	1,49	Kohäsion	0-5mm
4	2,926	1,49	Kohäsion	5-10mm
5	3,998	2,036	Kohäsion	0-5mm

- all test programs are stored on the tablet PC and are transferred to the bond strength tester via Bluetooth.
- data storage on the tablet PC is effected vice versa.
- measuring values are indicated both on the bond strength tester and on the tablet.

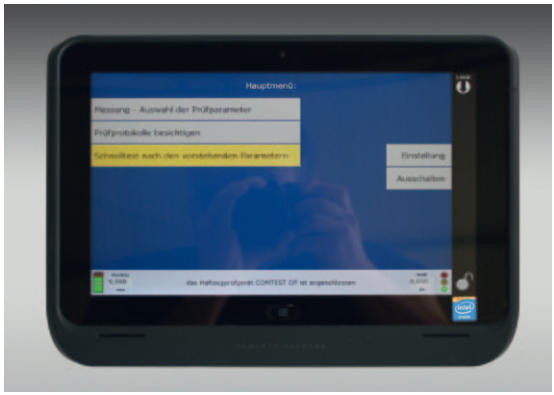
Further Possible Applications acc. to Standards:

- EN 13395-4 (2002)
- DIN 18555
- ZTV-SIB (1990)
- DAfStb-Rili
- BEB-Merkblatt
- BS 1881
- ASTM C 1583

Scope of Supply:

- **bond strength tester with integrated LCD-display, Bluetooth to tablet PC**
- **quick coupling (illuminated)**
- **integrated storage battery for approx. 100 tests**
- **high-quality tablet PC with touch screen for storing the measured values with the possibility of recording a test-relevant voice memo and up to 5 photo recordings of the fracture**
- **charger for bond strength tester**
- **charger for tablet PC**
- **transport case**
- **operating manual**
- **calibration certificate**

- **Bond Strength Testing Software ConsurSoft**
  we have developed a modern and simple software for our bond strength testers, with which you can have all your relevant tests summarized on a final report



3 Types Available with Tensile Forces 5 kN, 10 kN, 15 kN for Covering All Current Test Applications

HZP - ConsurTest 5

Technical Data:

- tensile force: 5 kN
- resolution: 0.001 kN
- measuring range: 0.5 ... 5 kN
- display range: 0 - 5 kN
- measuring range: 2.5 N/mm²
- display range: 0 - 2.5 N/mm²
- piston stroke: 16 mm
- weight: 4.75 kg

Order-No. B3065-5B

HZP - ConsurTest 10

Technical Data:

- tensile force: 10 kN
- resolution: 0.001 kN
- measuring range: 0.5 ... 10 kN
- display range: 0 - 10 kN
- measuring range: 5 N/mm²
- display range: 0 - 5 N/mm²
- piston stroke: 16 mm
- weight: 4.75 kg

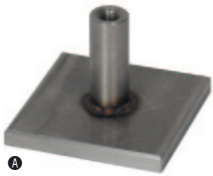
Order-No. B3065-10B

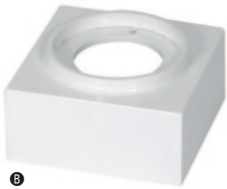
HZP - ConsurTest 15

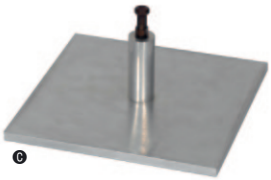
Technical Data:

- tensile force: 15 kN
- resolution: 0.001 kN
- measuring range: 2.0 ... 15 kN
- display range: 0 - 15 kN
- measuring range: 7.5 N/mm²
- display range: 0 - 7.5 N/mm²
- piston stroke: 16 mm
- weight: 4.75 kg

Order-No. B3065-15B


Ⓐ


Ⓑ


Ⓒ


Ⓓ


Ⓔ


Ⓕ


Ⓖ


Ⓗ

Accessories:

Test Plates

Ⓐ test plates 100x100 mm, steel
Order-No. B30692

- test plates Ø 50 mm, steel, 1 set=10 pieces
Order-No. B30665
- test plates Ø 80 mm, steel, 1 set=10 pieces
Order-No. B30688
- test plates Ø 100 mm, steel, 1 set=10 pieces
Order-No. B3069
- test plates 50x50 mm, steel, 1 set=10 pieces
Order-No. B30675
- test plates Ø 20 mm, steel
Order-No. B3068

Ⓑ adapter for test plates 100x100 mm
Order-No. B30690

Ⓒ test plates 200x200 mm (ETAG)
Order-No. B30694

Ⓓ tripod test stand for tests acc. to
ETAG / WVDS
Order-No. B306950

Ⓔ tripod (supplement)
fixed clamping with ConsurTest
for compensation of rough surfaces
Order-No. B306955

Ⓕ retaining adapter closable for anchor
test (WVDS)

Ⓖ test kit for shotcrete
(EN14448-2 - procedure B)
Order-No. B306975

- tension bolts with ball head M12 (short)
- tension bolts with ball head M12 (long)

General Accessories

Ⓗ adhesive kit consisting of:
special adhesive (3 cartridges)
dispenser with static mixer
gloves, protective glasses
transport case
Order-No. B3062

- special adhesive refill set consisting of
9 cartridges and 30 static mixers
Order-No. B30620

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Construction Repair

Non-destructive Compression Strength Test

Ⓐ Concrete Test Hammer
• Classic-SM-execution
Order-No. B14112

Ⓑ Test Anvil
• for function control of concrete test hammer
Order-No. B141142

Ⓒ Concrete Test Hammer SCHMIDT model N
• for non-destructive quality testing of concrete acc. to DIN EN 12504-2
• reading by installed scale
• measuring range: 10 - 70 N/mm²
• impact energy: 2,207 Nm
• weight approx: 1.6 kg
Order-No. B14010

Ⓓ Original Schmidt LIVE
• according to ASTM C805, EN 12504-2, EN13791, ISO 1920-7
• **determination of the R-value**
• measurement results independent of the direction of impact
• automatic detection and correction of the angle of impact
• the measurement series is shown on the display while you are working
• automatic verification of the validity of the measurement series
• verification of an entire measurement series
• selection of units, form factors and conversion curves
• display of values via any compatible Apple iOS device or Android device (not included in the scope of delivery)
• analogue and digital display integrated in the device for immediate control
• Export the reports as PDF or in CSV format
• impact energy 2.207 Nm
Order-No. B14030

Ⓔ Test Anival - small
• suitable for Original Schmidt LIVE
Order-No. B14045

Ⓕ Silver Schmidt LIVE
as Ⓓ, but:
• **determination of the Q-value**
Order-No. B14050

Ⓔ Test Anival - small
• suitable for Silver Schmidt LIVE
Order-No. B14047


Ⓐ

Construction Repair

Concrete Coverage Measurement

Ⓐ Set of Test Magnets

- for evaluation resp. pre-investigation of concrete covers
- 4 different test magnets
- transport case
- evaluating table

Order-No. B1470


Ⓑ

Ⓑ Profometer PM 8000 PRO

- modern concrete cover measuring device for precise and non-destructive measurement of the concrete cover, the diameter of the reinforcing bars and the position of the reinforcing bars using the pulse induction method (eddy current principle)
- point measurement, line scan and area scan possible

Technical Data:

- measuring range coverage: up to 185 mm
- measuring accuracy coverage: +/- 1 mm to +/- 4 mm
- measuring range diameter: up to 63 mm
- measuring accuracy diameter: +/- 1 bar size

Scope of delivery:

- Profometer PM 8000 PRO with trolley
- 5 years software subscription

Order-No. B14400


Ⓒ

Ⓒ Profometer PM 8000

as Ⓑ, but:

- spot measurement for quick quality control and detection of reinforcement / metal
- possible with trolley for line scan

Scope of delivery:

- Profometer PM 8000 with trolley
- 5 years software subscription

Order-No. B14410

Ⓓ

Ⓒ Profometer PM 8000 LITE

as Ⓑ, but:

- only punctual measurement possible

Scope of delivery:

- Profometer PM 8000 LITE

Order-No. B14420

Pull Off Tester DY

- for testing the surface and adhesive tensile strength with low strengths
- acc. to EN 1542, EN 1015-12, EN 1348, EN 12004-2, ISO 4624, ZTV-ING, SIA 281/3
- load increase / force increase via built-in electric motor, with constant and bumpless force increase
- display in kN, lbf, N/mm², psi, MPa
- navigation via key combination
- storage of approx. 100 measurements possible
- mains-independent due to integrated battery

Scope of delivery:

- pull off tester with tension bolt
- test plates alu Ø 50 mm
- charger with USB cable
- Link software for evaluation
- operating manual
- calibration certificate
- case

Technical Data DY-206:

- measuring range: 0.6 - 6 kN
- tensile force: max. 6 kN
- resolution: 0.01 N/mm²
- piston stroke max: 5 mm
- weight: 4.5 kg
- calibration protocol, class 2

Order-No. B30800

Technical Data DY-216:

- measuring range: 1.6 - 16 kN
- tensile force: max. 16 kN
- resolution: 0.01 N/mm²
- piston stroke max.: 5 mm
- weight: 4,5 kg
- calibration protocol, class 1

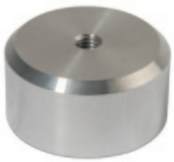
Order-No. B30801

Technical Data DY-225:

- measuring range: 2.5 - 25 kN
- tensile force: max. 25 kN
- resolution: 0.01 N/mm²
- piston stroke max.: 5 mm
- weight: 4,5 kg
- calibration protocol, class 1

Order-No. B30802

Accessories (optional):



Test plates

- 1 set = 10 pieces
- aluminium

Order-No. B30803

Diamond Drill Bit

- for SDS connection
- Ø 50 mm

Order-No. B3043

Anchor Pull-out Test

- for pull-out tests of anchors according to ETA 001, ETAG 004, ETAG 014
- for testing the adhesive tensile strength according to DIN EN 1542
- for testing screed mortars and screed compounds according to DIN EN 13892-8
- load increase / force increase via smooth-running hand crank drive, which allows continuous, constant and shock-free pull-off to the test surface
- mounted on a tripod
- force measurement via DIGITAL precision manometer with memory function for 1,000 measurements
- with peak value memory, to be read out via USB cable
- display in kN or MPa for test stamps Ø 50 mm or 50x50 mm
- mains-independent
- light and precise instrument

Technical data:

- max. tensile force: 5 kN, 10 kN, 15 kN
- accuracy: < +/-2 %
- resolution: 0.01 kN
- stroke distance: 50 mm

Tripod stand:

- adjustable foot: Ø 20 mm
- arrangement: 3x 120°
- inner Ø: 120 mm
- stroke: 50 mm
- weight of adhesion tester only: approx. 5 kg

Scope of delivery:

- anchor pull-out device with quick coupling
- tripod according to ETAG
- extraction claw for ETICS anchors
- carrying case
- calibration certificate
- operation manual

Order-No. B3075

LABORATORY FURNITURE

All system working benches and cabinets are made of stainless steel. (material no. 1.4301)

Table tops:
- smooth stainless steel cover, made of 2 mm thick stainless steel
- matt brushed lengthways
- worktop lined with wood
- on the undersides with water drip noses on all three sides
- with upstand at the rear on request

Frames:
- tainless steel (square tubes 40x40x1,25 mm)
- aluminium legs, height-adjustable to compensate for slopes or unevenness

Cabinets:
- made entirely of stainless steel
- sturdy, self-supporting design, side panels, doors and drawers with bevelled handle strip
- shelves: height-adjustable stainless steel intermediate shelves

Wing doors + Drawers:
- with horizontal handle moulding
- with sturdy maintenance-free hinge
- drawers on roller runners with stop, can be unhinged if required
- load capacity up to max. 60 kgs

Further accessories on request:
- material storage cabinets with sliding or hinged doors
- wall-mounted cupboards
- storage shelves

Working height:
- optionally 750 mm or 850 mm

Laboratory Furniture Stainless Steel


Ⓐ

Ⓐ Laboratory Cabinets

- with drawers and double-wing doors
- closed on all sides, with side panels
- ground clearance: 150 mm
- ***optional:*** with upstand on the back

- design: 1 drawer, 1 double-wing door
- dimensions (WxDxH): 600x800x850 mm

Order-No. F30060

- design: 2 drawers, 2 double-wing doors
- dimensions (WxDxH): 900x800x850 mm

Order-No. F30090

- design: 2 drawers, 2 double-wing doors
- dimensions (WxDxH): 1200x800x850 mm

Order-No. F30120

- design: 3 drawers, 3 double-wing doors
- dimensions (WxDxH): 1500x800x850 mm

Order-No. F30150


Ⓑ

Ⓑ Laboratory Benches

- with drawers
- with fix depositing board
- ground clearance: 150 mm

- design: 1 drawer
- dimensions (WxDxH): 600x800x850 mm

Order-No. F21060

- design: 2 drawers
- dimensions (WxDxH): 900x800x850 mm

Order-No. F21090

- design: 2 drawers
- dimensions (WxDxH): 1200x800x850 mm

Order-No. F21120

- design: 3 drawers
- dimensions (WxDxH): 1500x800x850 mm

Order-No. F21150


Ⓒ

Ⓒ Laboratory Benches

- with water basin made of stainless steel and cold and warm water armatures with draw-out type rose
- dimensions of basin: 400x500x250 mm
- incl. mud storage tank of stainless steel on rolls
- mit Frontblende, abnehmbar
- Seitenblenden rechts + links
- mit Schwallrand ums Becken
- ground clearance: 150 mm
- ***optional:*** hand shower with standpipe

- dimensions (WxDxH): 1200x800x750 mm

Order-No. F55120

- dimensions (WxDxH): 1500x800x750 mm

Order-No. F55150

- dimensions (WxDxH): 1600x800x750 mm

Order-No. F55160

Laboratory Furniture Stainless Steel

Ⓐ Laboratory Benches
- with fix depositing board
- dimensions (WxDxH): 600x800x850 mm

Order-No. F20060
- dimensions (WxDxH): 900x800x850 mm

Order-No. F20090
- dimensions (WxDxH): 1200x800x850 mm

Order-No. F20120
- dimensions (WxDxH): 1500x800x850 mm

Order-No. F20150

Ⓑ Laboratory Benches (without picture)
like Ⓐ but:
- without depositing board
- dimensions (WxDxH): 600x800x850 mm

Order-No. F22060
- dimensions (WxDxH): 900x800x850 mm

Order-No. F22090
- dimensions (WxDxH): 1200x800x850 mm

Order-No. F22120
- dimensions (WxDxH): 1500x800x850 mm

Order-No. F22150

Ⓒ Croner Laboratory Benches
- with fix depositing board
- with front panel
- ground clearance: 150 mm
- dimensions (WxDxH): 900/800x900/800x850 mm

Order-No. F26900

Ⓓ Laboratory Benches
- on rolls
- with fix depositing board
- dimensions (WxDxH): 800x800x850 mm

Order-No. F23080

Laboratory Furniture Concrete Testing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Ⓐ Laboratory Benches

- with integrated, electric flow table acc. to DIN 1048, DIN EN 12350-5, with electrically operating elevating device and counter, with galvanized flow plate, placing funnel with magnetic holders and tamper
- with rubber profiles for dirt protection
- with front panel
- table plate / flow table: 700x700 mm
- stroke height: 40 mm
- placing funnel: Ø 130x200 mm
- ground clearance: 350 mm
- grating made of stainless steel: 500x500 mm
- PVC-collecting container: 600x400x175 mm
- dimensions (WxDxH): 900x800x750 mm

Order-No. F51090

- dimensions (WxDxH): 1500x800x750mm

Order-No. F51150

- dimensions (WxDxH): 1600x800x750mm

Order-No. F51160

Ⓑ Laboratory Benches

like Ⓐ but with:

- integrated, manual flow table acc. to DIN EN 12350-5, manual, with galvanized flow plate, placing funnel with magnetic holders and tamper
- dimensions (WxDxH): 900x800x750 mm

Order-No. F50090

- dimensions (WxDxH): 1500x800x750mm

Order-No. F50150

- dimensions (WxDxH): 1600x800x750mm

Order-No. F50160

Ⓒ Laboratory Benches

- with integrated high-frequently vibrating table (vibration frequency: 9000 1/min)
- with timer and long-duration switch
- with rubber profiles for dirt protection
- with front panel
- voltage: 230 Volt / 50 Hz
- vibration plate: 350x650mm
- clamping device adaptable for all common moulds
- ***optional:***
  - magnetic clamping
  - speed adjustment
- dimensions (WxDxH): 900x800x750 mm

Order-No. F52090

Laboratory Furniture Concrete Testing


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Ⓐ Laboratory System Table with Magnetic Vibration Table

- with built-in magnetic vibrating table
- special design with 2 clamping magnets for easy and safe clamping of suitable sample moulds
- stationary version
- with external control panel on wall console for wall mounting
- display and setting of speed from approx. 2000-6000 UpM an time from 0-60 seconds.
- low-noise operation due to mould centering and 2-motor design
- magnetic vibration table all round with sealing against dirt
- with front panel
- side planels right and left
- table size / vibrating table 600x400 mm
- cable length from vibrating table to control unit approx. 3 m
- ground clearance: 350 mm
- dimensions (WxDxH): 900x800x850 mm

Order-No. F52090-850-Magnet


Ⓑ

Ⓑ Laboratory Benches

- with buit-in electronic balance
- with LCD digital display and interface RS232
- degree of protection IP 65
- with front panel
- capacity : 35.0 kg
- resolution: 1.0 g
- weighing platform (stainless steel): 400x300 mm
- ***optional:***
  - weighing table with roller conveyor
  - further weighing ranges
- dimensions (WxDxH): 600x800x750 mm

Order-No. F52061


Ⓒ

Ⓒ Laboratory Benches

- with grating on left side
- dimensions of grating: 500x500 mm
- incl. VA-down gate and PVC-collecting container wir roller cart
- with front panel
- side planels right and left
- ground clearance: 350 mm
- dimensions (WxDxH): 1500x800x750 mm

Order-No. F54150

- dimensions (WxDxH): 1600x800x750 mm

Order-No. F54160

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Laboratory Furniture Concrete Testing

Ⓐ Laboratory Benches

- with grating on right side
- dimensions of grating: 500x500 mm
- incl. VA-down gate and PVC-collecting container wir roller cart
- with front panel
- side planels right and left
- ground clearance: 350 mm
- dimensions (WxDxH): 1500x800x750 mm

Order-No. F53150

- dimensions (WxDxH): 1600x800x750 mm

Order-No. F53160

Ⓑ Laboratory Benches

- with water basin made of stainless steel and cold and warm water armatures with draw-out type rose
- dimensions of basin: 400x500x250 mm
- incl. mud storage tank of stainless steel on rolls
- with front panel
- side panels right and left
- with surge rim at the sink
- ground clearance: 350 mm
- ***optional:*** hand shower with standpipe
- dimensions (WxDxH): 1200x800x750 mm

Order-No. F55120

- dimensions (WxDxH): 1500x800x750 mm

Order-No. F55150

- dimensions (WxDxH): 1600x800x750 mm

Order-No. F55160

Ⓒ Laboratory Benches

with integrated drying oven

- for fresh concrete until 10 kg
- for all sorts of gas with safety pilot
- with 1 drying pan (L 0511), high pressure hose and regulator
- closed on all sides, with side panels
- execution: 1 drawer, 1 wing door
- dimensions (WxDxH): 1600x800x750 mm

Order-No. F56160

Ⓓ Laboratory Benches

- with double roller conveyors on the top of table
- fix depositing board below
- with front panel
- dimensions (WxDxH): 1500x800x750 mm

Order-No. F57150

Laboratory Furniture Cement Testing

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Ⓐ Laboratory Benches

- with integrated vibrating table acc. to EN 196
- vibration frequency::
  3000 1/min by magnetic vibrator
- with timer as well as controller/ display of oscillation amplitude
- with rubber profiles for dirt protection
- with front panel
- with quick clamp device
- max. capacity: 20 kg
- voltage: 220 Volt / 50 Hz
- dimensions (WxDxH): 900x800x850 mm

Order-No. F60090

Ⓑ

Ⓑ Humidity Storage Cabinet

- for the standardized storage of cement and mortar prisms in triple molds in unregulated design
- acc. to DIN EN 196
- without technical unit
- cabinet completely made of stainless steel
- with thermo-hygrometer in front door
- with ventilation grille with adjustable louvre blinds
- with differential pull-outs made of perforated stainless steel sheet
- closed on all sides, with side panels
- Base as water tray with drain cock
- ground clearance: 150 mm
- storage capacity: 24 moulds
- differential drawers: 6 pcs.
- wing doors: 2 pcs.
- dimensions (WxDxH): 1300x800x850 mm

Order-No. F61130

FORM+TEST PRÜFSYSTEME

Laboratory Furniture Cement Testing

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Ⓐ Humidity Storage Cabinet

- for the standard storage of cement and mortar prisms in three-gang moulds at 20°C and 95% r.H.
- acc. to DIN EN 196
- cupboard with doors
- double insulated
- below installed control with electronic controlled heating and cooling
- temperature inside +20°±1°C at surrounding temperature of max 35°C
- with differential drawers made of stainless steel
- with 1/2“ water connection (optional tank) incl. ultra-fine filter
- fresh water connection 1/2“ (not required with tank option)
- electrical connection: 230 V/50 Hz; 1.5 kW

- storage capacity: 48 moulds
- differential drawers: 12 pieces
- wing doors: 2 pieces
- dimensions (WxDxH): 1400x800x1900 mm

Order-No. B29073

- storage capacity: 24 moulds
- differential drawers: 6 pieces
- wing doors: 1 piece
- dimensions (WxDxH): 800x800x1900 mm

Order-No. B29071

Laboratory Furniture Cement Testing

Ⓐ Humidity Storage Cabinet

- for the standard storage of cement and mortar prisms in three-gang moulds
- acc. to DIN EN 196
- cabinet completely made of stainless steel
- double-walled insulated
- heating, cooling and humidification electronically controlled
- inside temperature +20°±1°C at an ambient temperature of max. 35°C
- humidity area > 90% r.H.
- with differential drawers made of perforated stainless steel plate
- with 1/2" water connection (optional tank) incl. ultra-fine filter
- 1/2" fresh water connection (not required for tank solution)
- electrical connection: 230 V/50 Hz; 1.5 kW

- storage capacity: 36 moulds
- differential drawers: 9 pieces
- wing doors: 3 pieces
- dimensions (WxDxH): 2700x800x900 mm

Order-No. B29076

Optionally also available with 24 moulds.
dimensions (WxDxH): 2200x800x900 mm


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Laboratory Furniture Basic

- top: stainless steel
- frame: powder-coated sheet steel
- worktop: wood lined, covered with 2 mm thick stainless steel
- RAL colour according to customer requirements

Ⓐ Work Bench

- base frame made of tubular steel: 45x45x2mm
- plastic foot studs with level compensation
- with shelf made of stainless steel 1.4301, polished
- dimensions (WxDxH): 1500x750x900 mm

Order-No. F720150

Ⓑ Corner Work Bench

- front with panel
- dimensions (WxDxH): 850x850x900 mm

Order-No. F725900

Ⓒ Work Cabinet

- with 2 drawers + 2 wing doors
- substructures from left to right fitted as follows:
  block 1: SK 180, T540, fitted shelf
  block 2: SK 180, T540, fitted shelf
- drawer inside dimensions (WxD): 500x540 mm
- central lock with 2 keys
- base cover
- dimensions (WxDxH): 1350x750x900 mm

Order-No. F730135

Ⓓ Work Cabinet

- with 3 drawers + 3 wing doors
- substructures from left to right fitted as follows:
  block 1: SK 180, T540, fitted shelf
  block 2: SK 180, T540, fitted shelf
  block 3: SK 180, T540, fitted shelf
- drawer inside dimensions (WxD): 500x540 mm
- central lock with 2 keys
- base cover
- dimensions (WxDxH): 1650x750x900 mm

Order-No. F730165

Ⓔ Work Cabinet

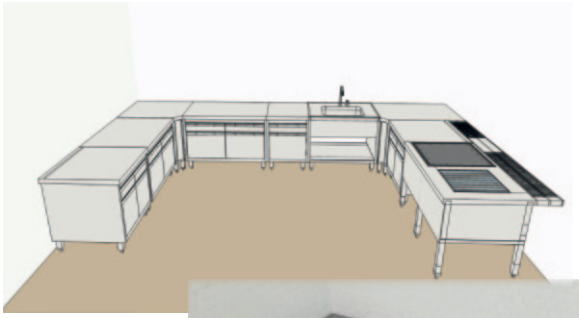
- with 2 stainless steel basin 400x400x250 mm
- underframe made of tubular steel
- all-round edge profile
- 2 pull-out shower heads
- ***optional:*** mud storage tank

Substructure:

- 3-sided basin facing
- plastic foot studs to compensate for uneven floors
- ground clearance: 360 mm
- dimensions (WxDxH): 1500x750x900 mm

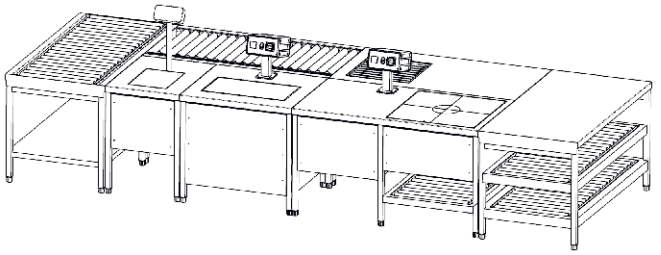
Order-No. F755150-2B

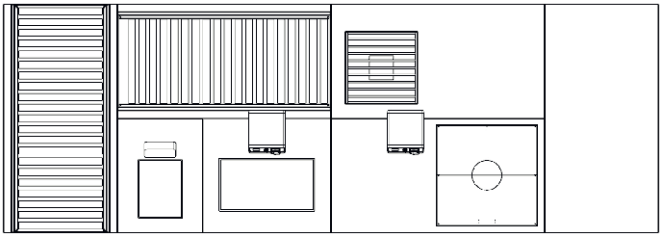
other models on request



Planning
Laboratory Equipment

- planning workstations for optimal work processes and ergonomic aspects
- integration of test equipment such as balances, vibrating table, flow table, etc.
- consideration of local conditions and requirements
- planning draft for discussion with customers and evaluation of proposals
- subsequent offer preparation





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Laboratory Container Concrete Tests

complete with all equipment for:

- **Fresh Conrete**
  consistency – density – air content
- **Hardened Concrete**
  specimens production and storing
- **Compression Strength**
- **Aggregates**
  sieve line – moisture content

Scope of Delivery:
all mounted and installed

Laboratory Furniture
made of stainless steel

F50150 – with integrated
flow table, cone with
magnetic holder
manuel – hand operated

alternative

F51150 – with integrated
flow table, cone with
magnetic holder
automatic version electrically operated
elevating device with counter

F52090 – with integrated
high-frequency vibrating table
(9000 U/min)

F52061 – with integrated
electronic balance
capacity: 35 kg
resolution: 1 g

F21120 – with 2 drawers
fix depositing board

F55150 – with water basin of
stainless steel, cold and warm water
armatures, basin 400 x 500 x 250 mm
mud storage tank of PVC on rolls

B21015 – wet storing
water basin, floor grid and thermostatic
heating unit

B2207 – dry storing
storing stand for concrete specimens
5 grating fix welded, very solid execution

Compression Testing Machine BETA 5-3000 AD

- accuracy acc. to DIN EN ISO 7500-1, class 1
- EN 12390-4 – straintest execution
- for specimen cylinders and cubes
- automatic load increase via digital controller ***DIGI-MAXX® C44***
- force measuring by electronic pressure transducer (DMS)
- measuring range: 60 ... 3000 kN
- piston stroke: 50 mm
- pressure plates:
  upper Ø 300 mm
  lower 210 x 210 mm
- with auxiliary platen

OPTIONS

- test software **PROTEUS^{MT}**
- interfaces to various laboratory programmes:
  - LaStrada - Dr. Jung&Partner
  - Beton und Computer - For.UM IT (Jouaux)
  - COBET
  - CMS-Labor - SIMMA
  - dorner-lab - DORNER
  - s-lab - SAUTER

Laboratory Sieve Shaker
with machine cover and quick clamping device

Stainless Steel Sieves
Ø 300 – height 60 mm
MW: 0.063-0.125-0.25-0.5-1.0-2.0
LW: 4.0-5.6-8.0-11.2-16.0-31.5-63.0
with pan

Electro Drying Oven
temperature range +20...+300°C
stainless steel interior
volume: 108 ltr.
with quiet air turbine

Cube Moulds (12 pieces)
150 x 150 mm - solid steel version
Adapterbox (3 pieces)

Air Entrainment Meter, 8 ltr.
Filling-Ring
Transport / Storage Case

Piercing Thermometer
(5 pieces)

Hand Shovel (5 pieces)

Electronic Thermo-Hygrograph

Laboratory Container

Framework ISO standard,
steel frame, twice stackable with
anticorrosion protective coat painted

Floor chipboard – waterproofed
loading capacity 2500 N/m²
selective loading capacity
15.000 N/m² for testing machine

Floor Covering
PVC, grey, laid in full length and welded

Roof
galvanized profiled sheet metal
integrated rain gutter
roof load 1000 N/m²

Walls
galvanized profiled sheet metal

Internal Walls
chipboard 10 mm – white
two sides laminated
according DIN 68765

Door steel outer door, lockable

Window – vertical swing-out

Plastic Sliding Shutter
with anti-burglary protection

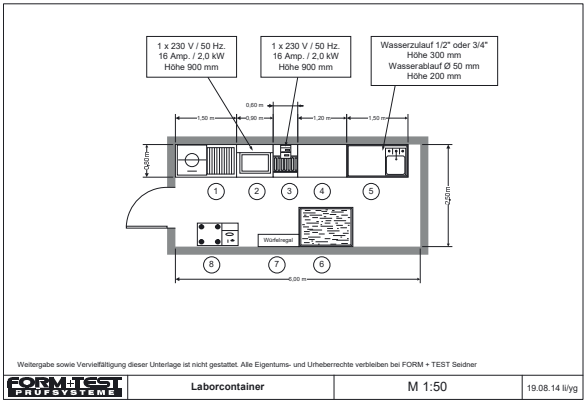
Light
2 surface mounted ceiling luminaire

Insulation
Roof:
mineral wool 80 mm WLG 040,
0.44 W/m2K
Walls:
mineral wool 80 mm WLG 040,
0.44 W/m2K
Floor:
mineral wool 100mm WLG 040,
0.40 W/m2K

Heating
electrical wall-mounted convector
2000 Watt

Water Connection / Supply ½“
Water Outlet

Electric Wiring
2 x CEE – external busbar
400 Volt – 50 Hz, 32 Amp.
fuse panel
switchboard
Schuko sockets
light switch



FORM+TEST PRÜFSYSTEME	Laborcontainer	M 1:50	19.08.14 li/yg

Dimensions (appr.)

length:	6058 mm
width:	2438 mm
height:	2830 mm
height - headroom:	2500 mm
floor aera:	15 m²
weight appr.:	6000 kg

OPTIONS - Container:

- **Thermal Insulation**
- **Air Conditioner**
- **Painting**
  RAL-Color

OPTIONS - Equipment:

- **Water Penetration Tester WE 3 or WE 6**
- **Sieves according to other standards or sizes**
- **Cube Moulds and Cylinder moulds with different sizes**

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PRÜFSYSTEME

- Own development department and production plant for mechanics and electronics
- Quality Management System to ISO 9001
- Internal controls for the ORIGINAL FORM+TEST quality seal
- Extensive stock-keeping and thereby high availability of most of our products

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L1000.08 - 06/2025