

# Schleibinger® Product Overview



Schleibinger is celebrating  
its 20th birthday.

독일의 Schleibinger사는 시멘트,  
모르타르, 콘크리트 등  
Building Materials 의 다양한  
물성을 측정 및 분석하는 연구  
시험 장비 전문 제조 업체입니다.



## 시멘트 및 콘크리트 물성 측정용 점도계 Viskomat NT

전통의 독일 Schleibinger 사의 Viscomat NT는  
Cement Paste, Mortar, Fine Concrete, Plaster  
전용 물성 측정장치입니다.  
모르타르용 침전 방지 패들이 장착 되어 있습니다.  
Rheology for Building Materials

### Features:

- robust apparatus for industrial environments, quality control, research and development
- informative, easy to use test procedures
- automatic running of predefined test procedures which can be either standardised or tailored to your own requirements
- inhomogeneous materials measurable with particles up to 2 mm using special paddles to avoid separation

| Specifications:   |            |                      |
|-------------------|------------|----------------------|
| power supply      | V/Hz       | 110...230/50 – 60 Hz |
| size viskomat     | mm (wxdxh) | 300x670x50           |
| size control unit | mm (wxdxh) | 190x450x350          |
| torque            | Nmm        | 0-±250               |
| speed             | rpm        | ±0,001-±200          |
| sample            | volume     | ml 370               |
| weight            | ca. kg     | 20                   |



## Shrinkage-Cone

New Design with a double wall metall vessel  
for easy heating and cooling with an external  
liquid temperature control unit!

| Specifications:        |                        |
|------------------------|------------------------|
| Measurement Range      | 5 mm                   |
| Basic Distance         | 25 mm                  |
| Resolution             | 0.1 µm                 |
| Diameter of Laser Spot | 0,8 mm                 |
| Volume cone vessel     | 349 cm³                |
| Laser Power            | 1 mW at 675 nm Class 2 |



## 고유동 콘크리트용 점도계 BT2

전통의 독일 Schleibinger 사의 BT2는  
콘크리트 전용 점도계입니다. 콤팩트 타입으로  
휴대성과 사용이 편리하며 콘크리트의 점도 및  
항복응력 등을 측정할 수 있습니다.

### Features:

- Short measurement
- easy handling
- portable
- no structural breakdown during the measurement
- no segregation or sedimentation during the measurement

### Specifications:

|                          |   |
|--------------------------|---|
| Container diameter       | 50 cm                                     |
| Height of the shaft      | 130 mm                                    |
| Specimen volume          | 19.6 Liter                                |
| Length measurement arm,  | 43 cm                                     |
| Length probes            | 90 mm                                     |
| Measurement range torque | 0-3 Nm                                    |
| Measurement range speed  | 0-4 m/s                                   |
| Resolution angel         | 1000 / 2 pi                               |
| Display                  | Graphical display in the external Palmtop |
| Handling                 | 2 buttons + external Palmtop (included)   |
| Interface                | IRDA ©                                    |
| Power supply             | 4 A cells C size                          |
| Weight wo container      | ca. 6.9 kg                                |



## Mortar, Fresh Concrete 물성 측정용 점도계 Viskomat XL

전통의 독일 Schleibinger 사의 Viskomat XL는 Mortar, Fresh Concrete 전용 물성 측정장치입니다.

### Very dynamic speed range

The speed may be 0.001 to 100 rpm in both directions, clockwise or counter clockwise.

### High Torque Range

The viskomat XL has a torque range from 0..500 Ncm with a resolution of 0.05 Ncm and accuracy better than 0.2 Ncm.



## 시멘트, 모르타르용 초음파 경화도 측정장치

시멘트나 모르타르의 초기 경화 거동 측정을 위해 새롭게 탄생한 세계 최초 초음파 경화도 측정 장치. Measuring the Early Setting and Hardening with Schleibinger Ultrasonic Datalogger.

### Standards:

- Testing concrete. Determination of ultrasonic pulse velocity, EN 12504-4:2004
- prEN13296 Testing Concrete – Determination of ultrasonic pulse velocity. July 1998
- NF P 98-231-5 Comportement au compactage des materiaux d'assises autres que traits aux liants hydrocarbons. (Tests relating to pavements – Compaction tests on non-bituminous materials – Part 5 : Workability time limit determination of granular materials bound with cementitious binders using sonic examination.) AFNOR, April 1997.
- BS 1881: Part 203 : Testing Concrete - Recommendations for measurement of velocity of ultrasonic pulses in concrete.
- ASTM C 597-83 Standard Test Method for Pulse Velocity through Concrete

| Specifications:         |  |
|-------------------------|--|
| Application             | Rheometer for mortar paste and fresh concrete up to 6.8mm.                                     |
| net. size (hxxwxd)      | 1320 x 315 x 410 mm (without safety cabinet)   |
| specimen Volume         | 3.5l, inner diameter 165mm, height 175 mm, others sites on request                             |
| motor speed range       | 0.001..100 rpm   |
| motor torque            | 1200 Ncm   |
| motor angle             | better ± 0.05 °  |
| measurement accuracy    |  |
| meas. torque range      | ±0.500 (1000*) Ncm   |
| meas. torque resolution | 0.05 (0.2*) Ncm  |
| meas. torque accuracy   | 0.2 (0.8*) Ncm   |
| temperature sensors     | RTD PT100 1/10 DIN B   |
| cooling and heating     | double wall vessel   |
| controller              | extra cabinet, 110..230V, 50..60Hz, 800W   |
| controller interfaces   | 4 x USB, 1 x network   |
| user interface          | Colored screen with online graphic, TFT-screen, keyboard mouse, no external computer necessary |
| Interfaces              | Ethernet /TCP/IP for control and data recording.   |
| Weight                  | Including electronic and safety cabinet ca. 120 kg   |
| Safety                  | Cabinet, with security switches included   |

| Specifications:                |  |
|--------------------------------|--|
| Transit Time Measurement Range | 0.1µs to 6553µs  |
| Auto-ranging of two scales     | 0.1µs .. 999.9µs and 1.000ms .. 6.553ms                                |
| Frequency                      | 54kHz, others available (24kHz..1MHz)                                  |
| Accuracy                       | +/- 0.1µs  |
| Over Range Indication          | shown on the display   |
| Calibrated Reference Range     | - 99.9µs + 199.9µs   |
| Input Sensitivity              | 250µV  |
| Bandwidth -3db                 | 10kHz .. 1.25MHz   |
| Transmitter Excitation Voltage | 250V, 500V, 750V & 1000V   |
| Pulwidth                       | < 1µs  |
| Puls Repetition Frequency      | 1 .. 100Hz in 1 Hz Steps   |
| Power Supply                   | Mains or Internal Battery  |
| Mains Input                    | 85V .. 265V 50/60Hz  |
| Internal Battery               | Nickel Metal Hydride   |
| Display                        | Liquid Crystal 56mm x 38mm   |
| BNC Rx Output                  | 10 x Received Signal   |
| BNC Tx Output                  | Rectangular pulse width a length equal to the non zeroed transit time  |
| BNC Sync Puls                  | 1V Puls  |
| RS232 Interface                | 9p Sub-D -plug Baud Rate variable, Parity None, 8 Data Bits, 1Stop Bit |