

The Schleibinger **viskomat XL**, Rheometer for Mortar and Fresh Concrete up to 8 mm Grain Size



Based on 20 years experience with rheometers for mortar and fresh concrete, Schleibinger has developed a new instrument called **viskomat XL**. Its filling the gap between the viskomat NT for mortar and paste with a specimen volume of 360 ml and the concrete rheometer BT2 with a sample volume of 20l. The operation principle of the **viskomat XL** is near the same as for the viskomat NT. So a mixer formed probe is measuring the torque, and the specimen vessel is rotating. An additional scraper is cleaning the wall of the vessel.

Very dynamic speed range

The speed may be 0.001 to 100 rpm in both directions, clockwise or counter clockwise. You may be define the speed in several steps, in an linear increase or decrease of speed. As option also an oscillating or a logarithmic mode is possible.

High Torque Range

The **viskomat XL** has a torque range from 0..500 Ncm with a resolution of 0.05 Ncm and accuracy better then 0.2 Ncm. Optional we can install a sensor with a torque range up to 1000 Ncm and a accuracy of 0.8 Ncm

Temperature control

Temperature control is realized by a double wall specimen container, where a cooling liquid is circulating. The specimen temperature is measured with a RTD mounted inside the shaft of the probe.

High Time Resolution

The sampling rate may be set from 0.005s .. 1min.

Shear Stress Control Mode

As an option you may run the **viskomat XL** with a shear stress controlled mode. So you pre-set the torque over time, and the speed is automatically controlled to achieve the predefined torque.

Software

The **viskomat XL** is controlled with a built-in computer or via a network interface. TFT-screen, keyboard and mouse included. If you prefer a network connection, simply connect your PC and start your Internet Explorer for full control and data transfer. No special software installation necessary.

Dimensions

Height 1320mm, width 315 mm, depth 410mm (without safety cabinet), Height 1320mm, width 400 mm, depth 510mm, with safety cabinet..

Delivered with 3.5l vessel, online display with TFT screen, 4 USB-ports, keyboard mouse, incl. 1 meas. beaker, 1 double wall vessel incl. valves for temperature control, 1 probe for concrete and mortar, maximum grain size 6.8 mm, user manual.

Technical Data :

Application	Rheometer for mortar paste and fresh concrete up to 8mm.
net. size (hwxwd)	1320 x 315 x 410 mm (without safety cabinet)
specimen Volume	3.5l, inner diameter 165mm, height 175 mm, other sites on request
motor speed range	0.001..100 rpm
motor torque	1200 Ncm
motor angle measurement accuracy	better $\pm 0.05^\circ$
meas. torque range	$\pm 0..500$ (1000*) Ncm

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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 (option)

Order codes:

viskomat XL, incl. software, electronic, TFT-screen, keyboard, mouse, concrete probe, vessel, double wall vessel, incl. valves for temperature control	VX0001
circulation heating unit	V0019
shear stress controlled drive	VX0006
oscillation mode	VX0030

Technical data may be changed without notice

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/home/markus/www/viskomatxl/vxl.odt

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