

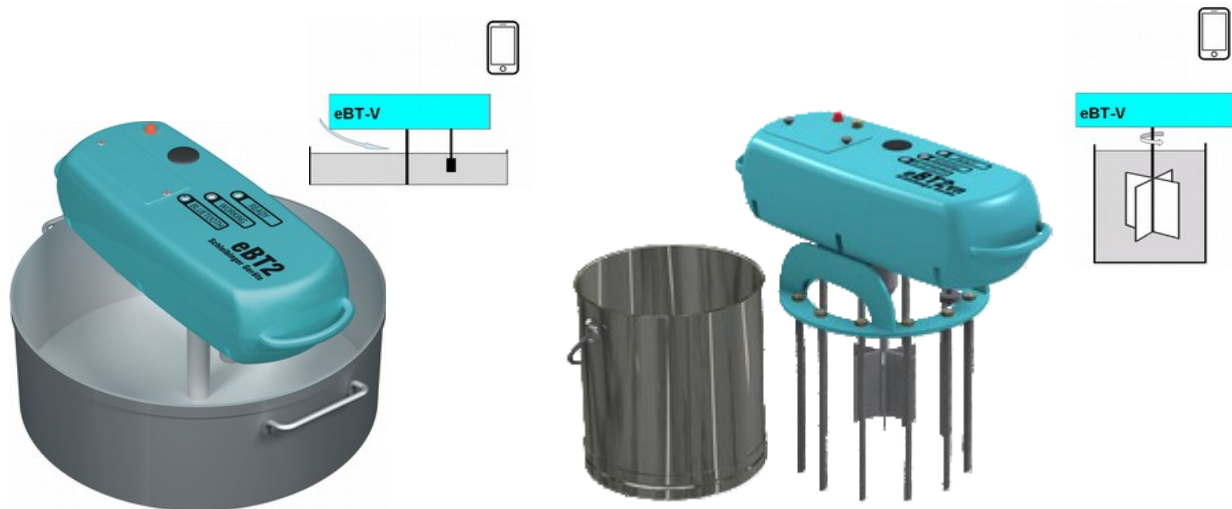
eBT-V

mobile Rheometer for fresh concrete

The Schleibinger eBT-V is a portable compact and net-independent rheometer for fresh concrete specially developed for the lab and the construction site. In opposite to the spread table or slump flow the concrete is tested at various loads. Therefore, a relative yield stress and a relative viscosity can be determined.

The eBT-V can be operated in two different modes:

- **P-Mode** for the common or vibrated concrete and a stiff concrete. By the operating the rheometer in P-mode the fresh concrete properties can be investigated due to one single revolution (360°) in non-sheared concrete. As a result, possible problems such as segregation and structural breakdown during the measurement are greatly minimized. A measuring probe is attached to the device and rotated around a centering rod. The force on the probe will be measured. The speed profile is freely programmable. The measurement time is usually less than one minute.
- **V-Mode** for modern concretes such as self-compacting concrete (SCC) and UHPC. By the operating the rheometer in V-mode the common Vane geometry as approximation of a classical cylinder geometry will be used. Due to the star arrangement of the wings, the sliding on the wall of the probe is almost completely prevented. Wall slipping on the container surface is also prevented by the use of the device holder with integrated anti-slip rods. The eBT-V is fixed on the device holder and the Vane probe is attached on the drive shaft. The Vane probe is rotating and the torque on the Vane probe is measured. The speed profile is freely programmable.



eBT-V in P-mode

eBT-V in V-mode

Design

- compact
- easy and fast change of the operation modes
- no cables
- the system is driven by a rechargeable battery
- operation control via smartphone
- wireless transmission of measurement results and display on smartphone
- suitable for quality control and especially for use on the construction site.

Drive and electronics are supplied with battery for network-independent operation. Data transfer via Bluetooth®. The raw data and the measurement evaluation can be exported as an Excel file.

Technical specifications:

	P-mode	V-mode
Speed range	0-40 °/sec	0-40 rpm
Torque, max.	10 Nm	
Sample volume	approx. 20 l or 40 l	approx. 15 l

Delivery:

rheometer eBT-V, 1x Vane-Probe and 1x sample container (15 l) for the operation in V-mode incl. device holder, 2x probes and one sample container (40 l) for the operation in P-mode, Akkupack NiMH, charger, Smartphone, user manual.

Optional:

- sample container with 20 l volume for the operation in P-mode
- Trolley for the eBT-V specimen container for easier transportation of the sample

Order information:

Order no.	Description
B0010	Rheometer eBT-V
B0020	Trolley for the eBT-V specimen container
B0003	Specimen container with 20 l volume