



## Slurry Rheometer System

- ▶ Slurry Software Package especially designed for the needs of the mining industry
- ▶ Measurements according to ISO 3219 and sedimentation free measurements with a special vane type system
- ▶ Calculations of yield point, sedimentation stability, flowability
- ▶ Automatic temperature measurement
- ▶ Toolmaster™: automatic component recognition and configuration system

## Slurry Rheometer System

A complete rheometer system for slurry measurements.

We are proud to introduce a rheometer system for the comprehensive characterization of slurries.

## Special Slurry Software Package

The completely new, user friendly software has been designed especially for the needs of the mining industry. All test procedures are easily accomplished.

- ▶ Guided operation
- ▶ Automated routines
  - Flow and viscosity curves
  - Thixotropy measurement
  - Yield stress calculations
  - Casson regression
  - Herschel-Bulkley regression
  - Bingham regression



## A set of special slurry measuring systems

- ▶ Concentric cylinder geometry with sandblasted or profiled bob
- ▶ Stirrer with 4 long blades for high sensitivity
- ▶ Special stirrer to prevent sedimentation

## Robust RheolabQC rheometer

The RheolabQC is a rotational rheometer based on the Searle principle. It features a high-precision encoder and a highly dynamic EC motor which is also used in the Physica MCR rheometer series and provides excellent speed regulation.

The RheolabQC is a robust, high-precision rheometer based on the newest and most innovative technologies used in R&D rheometers, providing superior quality and outstanding value to customers.

Package I	Package II
RheolabQC with active temperature control	RheolabQC Immersion Setup
Software RheoPlus Rotation	
Concentric cylinder system with profiled or sandblasted bob	
Special stirrer with 4 blades	
Transport case	



## Technical specifications

Speed range	0.01 to 1500 <sup>***)</sup> rpm
Torque range	0.25 to 75 mNm
Shear stress <sup>*)</sup>	0.5 to 3x10 <sup>4</sup> Pa
Shear rate range <sup>*)</sup>	10 <sup>-2</sup> to 4000 1/s
Viscosity measuring range <sup>*)</sup>	1 to 10 <sup>9</sup> mPas
Automatic temperature measurement <sup>**)</sup>	-20 to 180 °C
Internal angle resolution	2 µrad
LAN-Ethernet interface	PC
Serial interface RS 232	PC, printer
PS/2 interface	Keyboard, bar code reader

<sup>\*)</sup> depends on the measuring system used

<sup>\*\*)</sup> depends on the temperature control device used

<sup>\*\*\*)</sup> max. speed with torque derating

## Main variables

Dynamic viscosity	$\eta$
Shear rate	$\dot{\gamma}$
Shear stress	$\tau$
Speed	$n$
Torque	$M$
Temperature	$T$
Time	$t$
Kinematic viscosity	$\nu$
Yield point	$\tau_0$
Deformation	$\gamma$
Compliance	$J$

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## Instruments for:

Density & concentration measurement	Colloid science
Rheometry and viscometry	X-ray structure analysis
Sample preparation	CO <sub>2</sub> measurement
Microwave synthesis	High-precision temperature measurement



Specifications subject to change without notice.

Your distributor: