



## Krebs Measurement System

- ▶ Krebs package especially designed for the needs of the paint, building and mining industry
- ▶ Measurements according to ASTM D562 using a special Krebs geometry at 200 rpm spindle speed
- ▶ KU-Range: 40-150 KU
- ▶ Toolmaster™ – automatic component recognition and configuration system
- ▶ Temperature measurement during the test

## Complete RheolabQC functionality is still available

- ▶ Manual and software (RheoPlus) controlled operation
- ▶ Concentric cylinder system (according DIN 53018 and DIN ISO 3219), vanes and stirrers

## Krebs Measurement System

... a complete rheometer system for Krebs measurements

## Special Krebs package

The complete and user friendly package has been designed especially for the needs of the paint, building and mining industry.



## Robust Rheometer RheolabQC

The RheolabQC is a rotational rheometer based on the Searl 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 line of rheometers is a robust series of precision instrumentation based on the newest and most innovative technologies used in R&D rheometers, providing superior quality and outstanding value to customers.

### Krebs specification

Display information	Krebs units [Ku]
Measurement range	40 – 150 KU
Speed range	200 rpm

## Krebs package

- ▶ RheolabQC Immersion
- ▶ Flexible Cup Holder
- ▶ Krebs Spindles
- ▶ Temperature Probe (optional)



### 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 RS232	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	$J$
Krebs viscosity	$\eta$ Krebs

## Anton Paar Germany GmbH

Helmuth-Hirth-Str. 6, D-73760 Ostfildern, Germany - Europe  
Tel: +49 (0)711 72091-0, E-mail: info.de@anton-paar.com,  
Fax: +49 (0)711 72091-630, Web: www.anton-paar.com

### 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: