

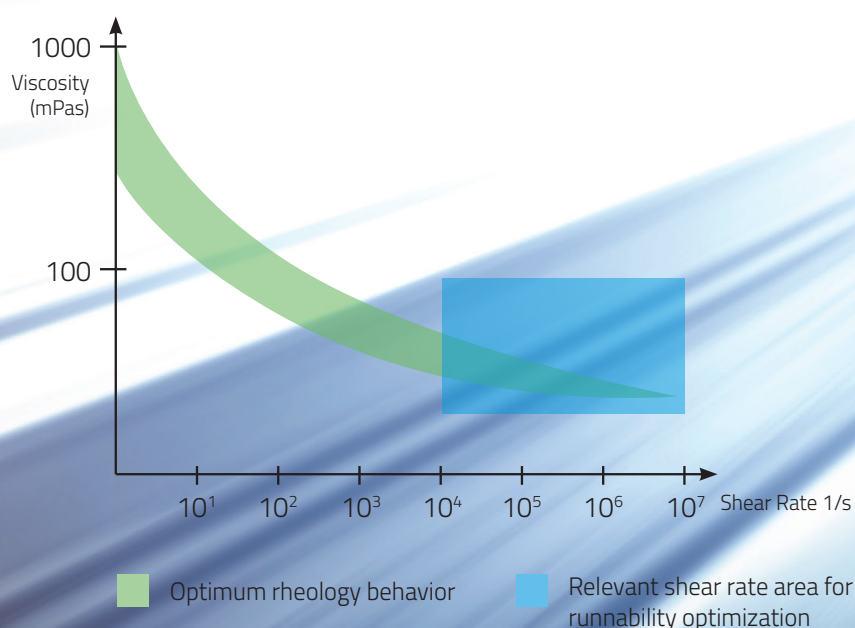
Next Generation ACA Viscometer

ACA AX-100

For Optimum Coater Runnability



- Fast and easy **SHEAR RATE DEPENDENT VISCOSITY** measurement for coating colors
- Shear rates up to **1 000 000 1/s**, very high correlation to coater **RUNNABILITY**
- Excellent and reliable tool for **RAW MATERIAL QUALITY CONTROL, COATING DEFECT DIAGNOSTICS AND COATING DEVELOPMENT**



Quick and easy tool for solving root causes of common coating problems

- X** poor coating runnability
- X** coating defects
- X** web breaks at coater

AX-100 tells you if the root cause is rheology based or not

IF NOT » Check the base paper or mechanical issues

IF YES » Investigate your coating color and raw materials further

... and this alone saves you lots of valuable time and money!



Did you know?

While investigating the root cause production goes down. Minimizing the downtime saves you a ton of money.

Locating the root cause is the most time consuming phase. Is the problem caused by the base paper, mechanical issue or **coating color rheology**?

Coating problems are a significant reason for wasting money in production. (Typically **10 - 20 € /tn**).

Scope of delivery

- AX unit
- 24VDC CE power source
- Installed software
- Washing cylinder assembly
- Measurement cylinder assembly
- Capillaries with holder and seals

AX is meant to measure only non explosive water based liquids. It is using high pressure as 100bar maximum. The pressure is reached with pneumatically actuated cylinder. This cylinder is pushing the piston inside the measurement cylinder leading to the flow through the capillary.

Pressure and the flow values are taken up and AX software is displaying viscosity, shear rate etc. results on the Touch PC Screen.

The results can be transmitted by Ethernet connection or saved into memory stick. All movements are pneumatic.

Technical data

Accuracy of position potentiometer	+/- 0,05 mm
Max. peak pressure at	0,7 Mpa 100bar
Accuracy of pressure transducer	+/- 0,3%
Air consumption	7 bar minimum and 100 l/min
Electrical connection for the unit supply	230 VAC/50Hz / 6A
Weight, the main unit	<60 kg
Dimensions, the main unit (depthxwidthxheight)	458 x 304 x 1176 mm
Mounting on the table with load capacity	>200 kg
Recommended table size (depthxwidthxheight)	600 x 800 x 750-800 mm
Room temperature	nominal +20 Celsius (+17...+25 Celsius)
Humidity nominal	40% RH
Pneumatic inlet fitting as std.	type CEJN 320-5152

Want to learn more about coating rheology? Rheology Seminars are designed for teams that want to get a better understanding of coating rheology. Read more: www.aca.fi/seminars