Merrow Scientific

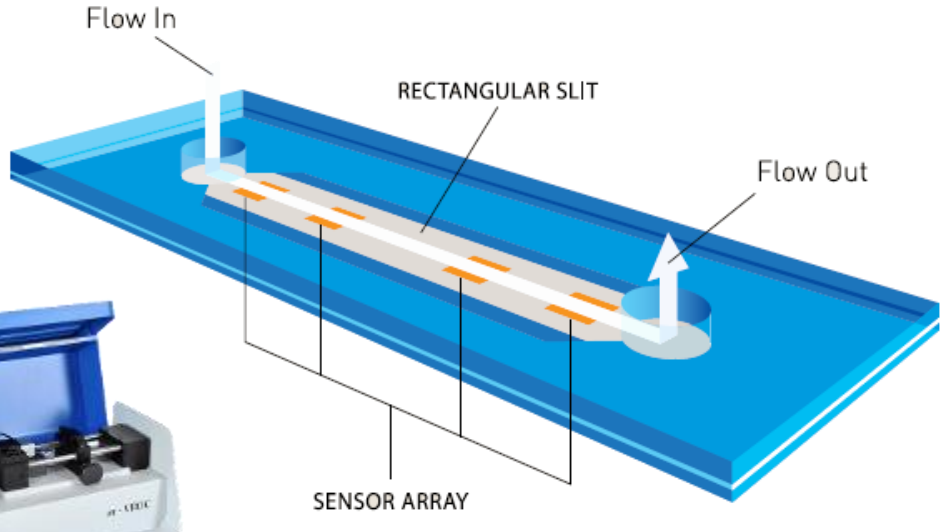
UK representative for a number of overseas manufacturers of laboratory instrumentation

Focus on materials and particle characterisation

Rheosense

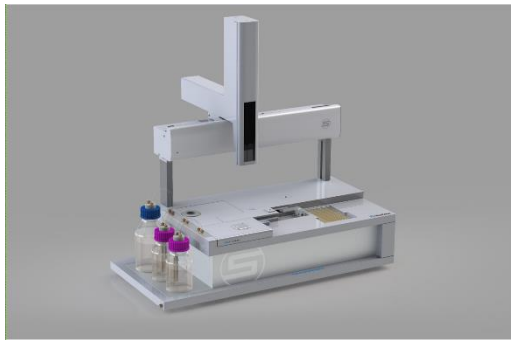
Combination of modern MEMS technology with well proven scientific methodology for measuring viscosity

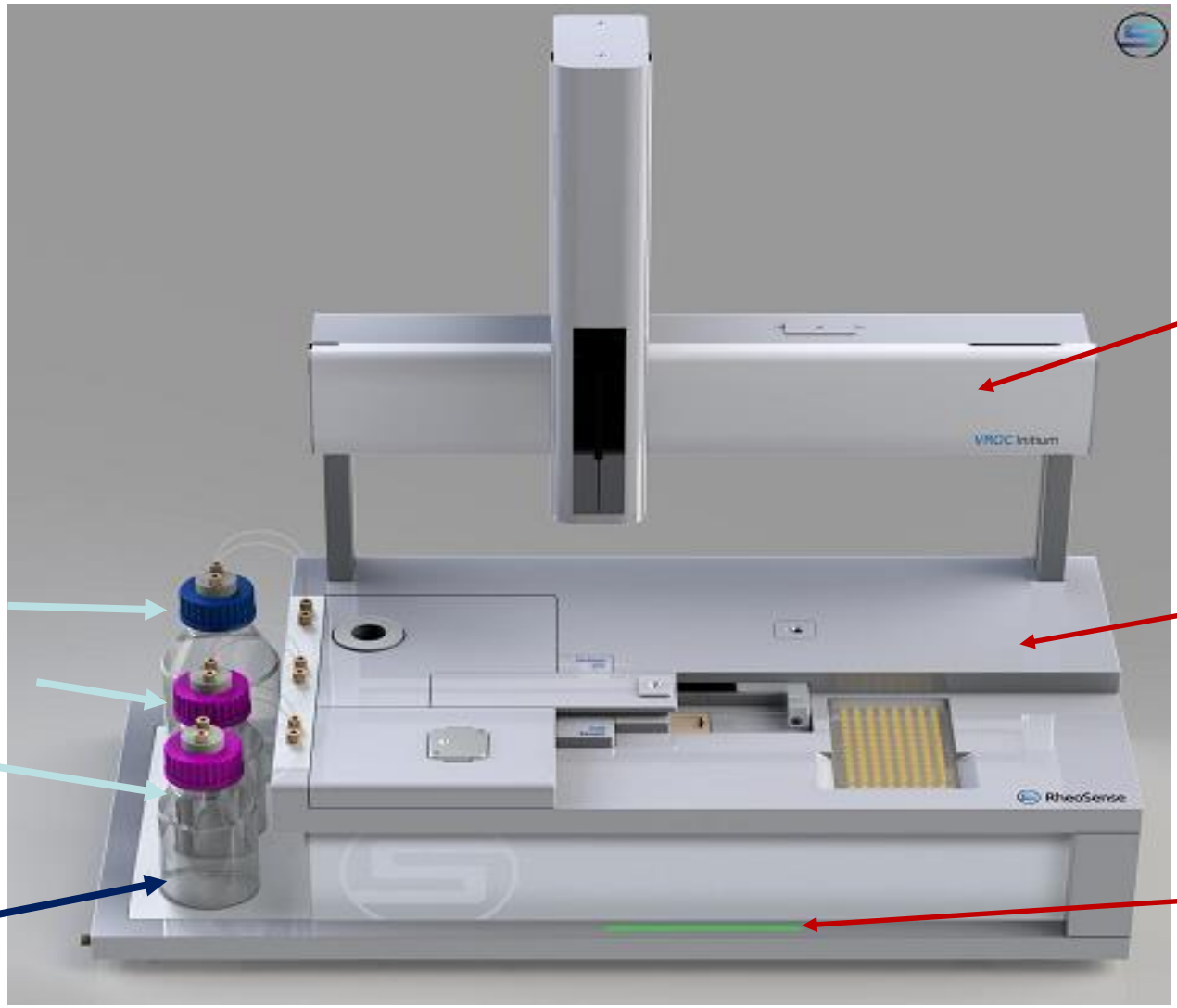
- Microvisc
- m-VROC
- Extensional *e*-VROC

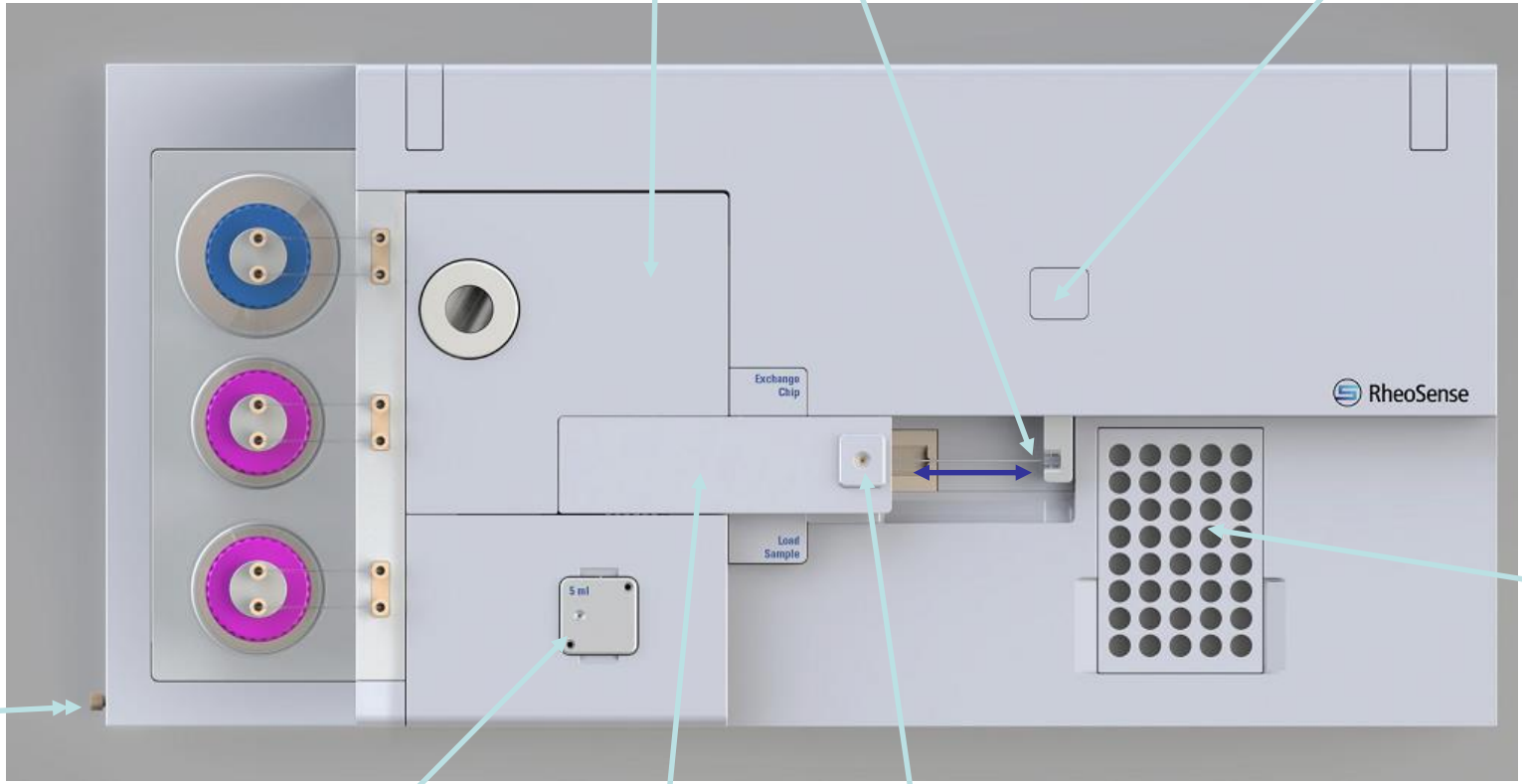


Rheosense Initium

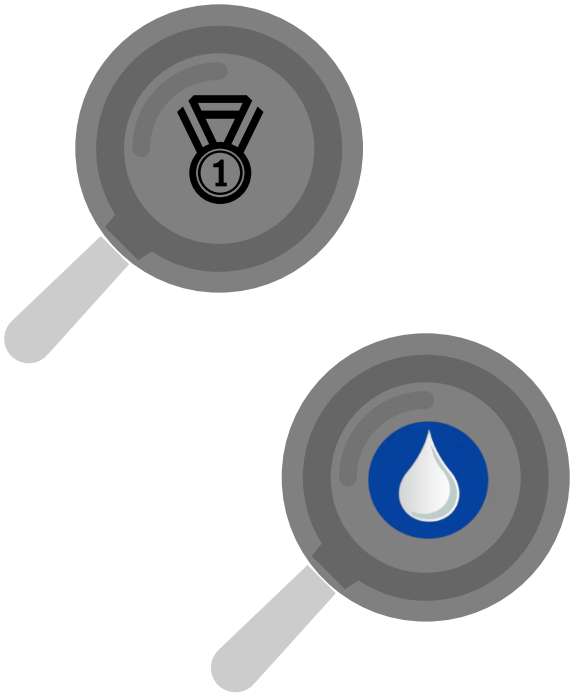
- Builds on success of m-VROC
- High throughput automatic viscometer
- Shear rate and temperature sweeps
- 10µl of sample
- 40 vials/96 well plate
- 1 – 1,600,000 1/s shear rates
- 0.2-100,000 cP
- Temperature range 4-70˚C and heated sample area
- Automated cleaning
- Multi-sweep shearing (backwards and forwards through cell)




Auto Sampler
Primary Solvent
Secondary Solvent
Dry Enhancer
Main Unit
Weight Sensors
Warn if Levels
are Low
LED Indicator
RheoSense


VROC® Chip Inside
Pump
Auto Sampler Syringe Cleaning Port
Exchange Chip
RheoSense
Load Sample
5 ml
40 Vial Rack
96 Well Plate
Custom Rack
Temperature Controlled
Waste Port
5 mL Injection Port
Syringe Inside
100 µl Injection Port

Key Additional Features

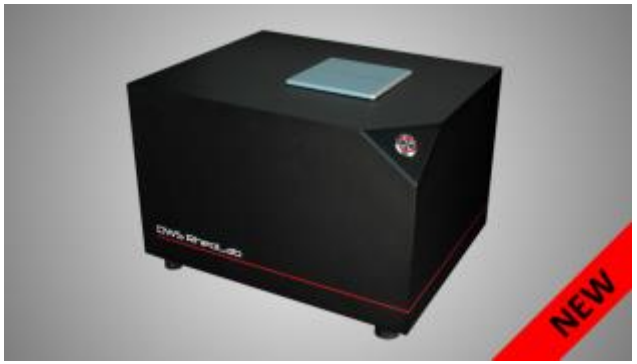


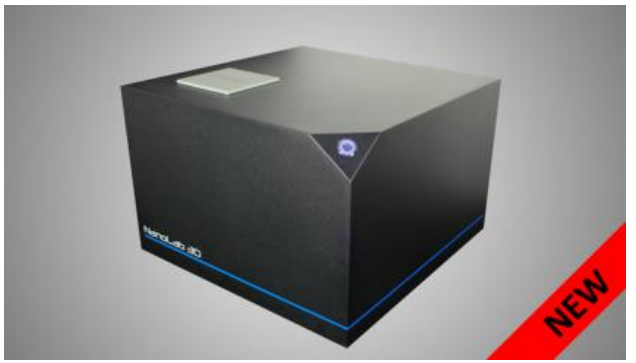
Sample retrieval back to syringe after testing allows continuous rate sweep and temperature sweep testing of the same sample

- Shear Stability Test
- Thermal Stability Test

LS Instruments

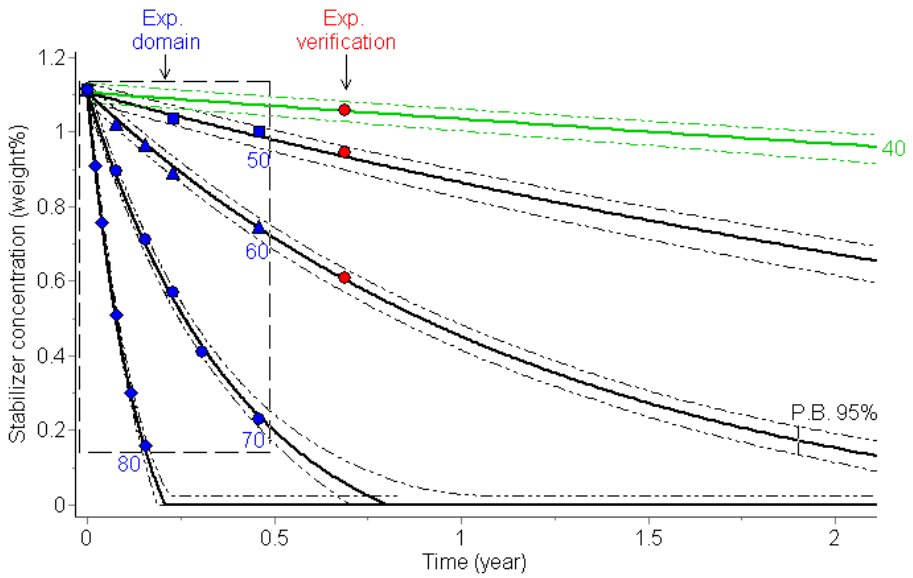
- 3D modulated DLS particle size analysis
- DWS light scattering micro rheometer





AKTS

- Advanced modelling software for investigation of stability and degradation of materials
- Input discontinuous data from HPLC, viscometers etc to model stability of formulations in time periods ahead



Prediction of change of stabiliser concentration

Setaram

- Advanced thermal analysis instrumentation
- Unique 3D calorimeter systems for high accuracy of smaller samples

Plate-shaped DSC rod