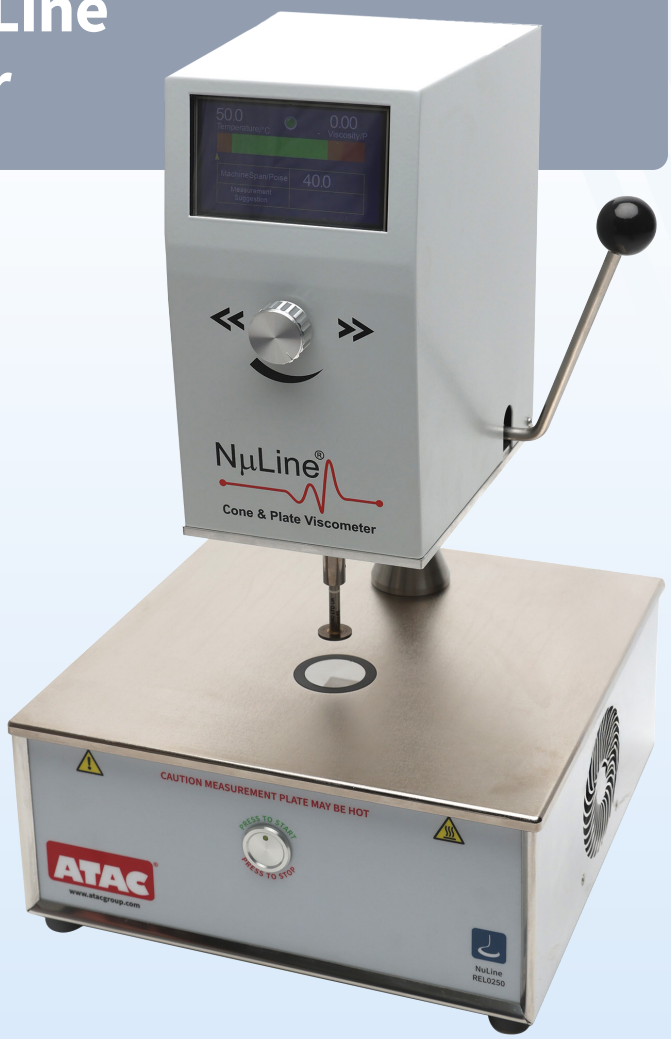
NuLine®
Cone & Plate Viscometer

ATAC®

REL

The newly upgraded NuLine Cone & Plate Viscometer



Two Temperature Versions

- **Low Temp – 5°C to 150°C**
- **High Temp – Ambient to 250°C**

The latest successor to the original ICI Viscometer:

- covers the whole viscosity range up to 13,500 Poise
- is accurate to within 1%
- has a 4.3” colour display available in English and seven additional languages.

Used to measure viscosity in a wide range of process applications

Cosmetics

Paints & Varnish

Resins

Oil

Inks

Foodstuffs

Pharma

Bitumen

Technical Specifications

The NuLine Cone & Plate Viscometer is based upon the original Cone & Plate Viscometer developed by ICI, and developed further once acquired by REL. The original analogue version was used for the BS3900 standard.

High Accuracy

Better than 1% of span using standard calibration oils

Excellent Software

PC interface software allows users to analyse and record results, & run shear rates or time sweeps

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Selectable units for instrument range, plate temperatures & viscosity readings

Small Sample Size

Sample size typically 0.2ml

Ease of Use

Viscometer is pre-calibrated, certificated, & ready to use straight out of the box

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Can be calibrated to operate with multiple cone sizes in the same machine

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Stored calibration data for all six cone sizes for easy change-over

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Easy self-calibrating routines for easy set-up

Superior Speed Settings

Low speed mode with speeds of 5-90 RPM in 0.1 RPM increments

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Variable speed settings: 5 RPM in integer increments up to 900 RPM

MADE IN BRITAIN®

Manufactured to BS EN ISO2884-1:2006

Why upgrade to the 2025 model?

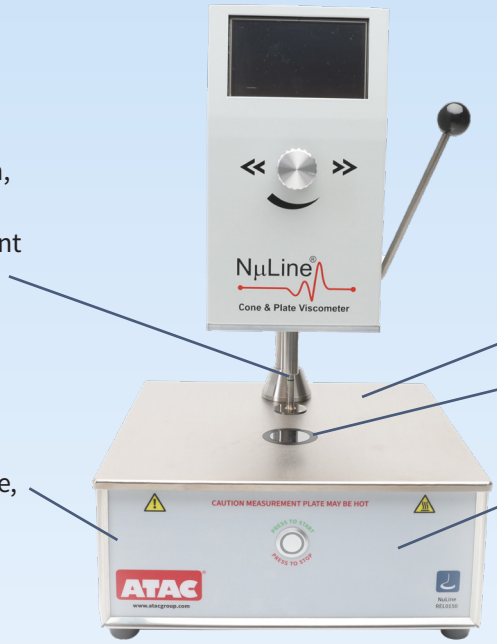
Analytical Technology and Control Ltd (ATAC) has a long history of designing and manufacturing instruments to measure viscosity. The current NuLine Cone & Plate Viscometer is just the latest version of a line of viscometers that stretches back to the very first, and original, cone & plate viscometer.

GREATER STABILITY

Strengthened pillar design, improved head stability, reduced risk of misalignment

GREATER PRECISION

Improved temperature control, software & hardware, increased accuracy



IMPROVED APPEARANCE

Easier cleaning & resistance to staining & fingerprints due to:

Nickel-plate

Improved insulator ring

Front & back polycarbonate overlays

A viscometer with a fine heritage

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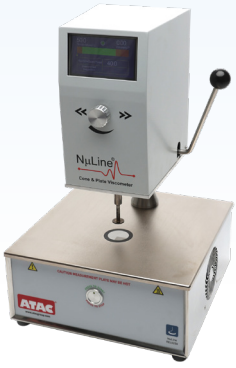
1950's → 2025

The original ICI Viscometer

The REL Analogue & Digital Viscometers



The NuLine Viscometer

Designed by ICI for its Paint Division, the original cone & plate viscometer was acquired by Research Equipment London Ltd when ICI was restructured. They developed a digital version of the original model. REL was eventually acquired by ATAC, who continued to develop the digital version into the NuLine.

ACCESSORIES

There are a range of accessories available, including additional cones, cone covers, temperature calibration kits, thermal grease, cone coupling setting tools, plate level gauges, & calibration oils.

These are available for purchase from our website at **www.totallaboratoryservices.co.uk,** or email us at **sales@totallaboratoryservices.co.uk**.

SPEEDS	Variable 5 to 900 rpm in integer steps or 5 to 90 RPM in 0.1 RPM steps (software selectable mode). Digital speed control typically better than 0.02 RPM
CONE TYPES	2 Poise, 5 Poise, 10 Poise, 20 Poise, 40 Poise, and 100 Poise
TEMPERATURE RANGES	5°C to 150°C and ambient to 250°C with variable temperatures, both ranges are available with variable temperatures having a resolution of 0.1°C and control typically +/- 0.1°C
SELECTABLE UNITS	°C or °F, rpm or sec-1, Poise or Pa.s.
FEATURES	Piezo Push-to-Read button unaffected by contaminants, standard push button as an option Integrated stick mouse for software control Precise beryllium-copper spring-based torque measurement Simple automated cone calibration using NIST standard oils Automated temperature calibration (additional equipment required)
ACCURACY & REPEATABILITY	Better than 1% of span using standard calibration oils
POWER	85-240VAC 50/60 Hz single phase universal power, 150 watts
WARM UP	10 minutes from ambient
DIGITAL DISPLAY	4.3" colour LCD display
PC INTERFACE & FIRMWARE	USB connection to external PC with free, windows-based, measurement software (English only). The instrument firmware is also upgradable via USB. Bilingual display. Multilingual firmware that can be customised by request.
DIMENSIONS	**Height** = 510mm, **Width** = 302mm, **Depth** = 302mm **Weight**: Low-temperature = 13.5kg, High-Temperature = 13kg

MADE IN BRITAIN®

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