

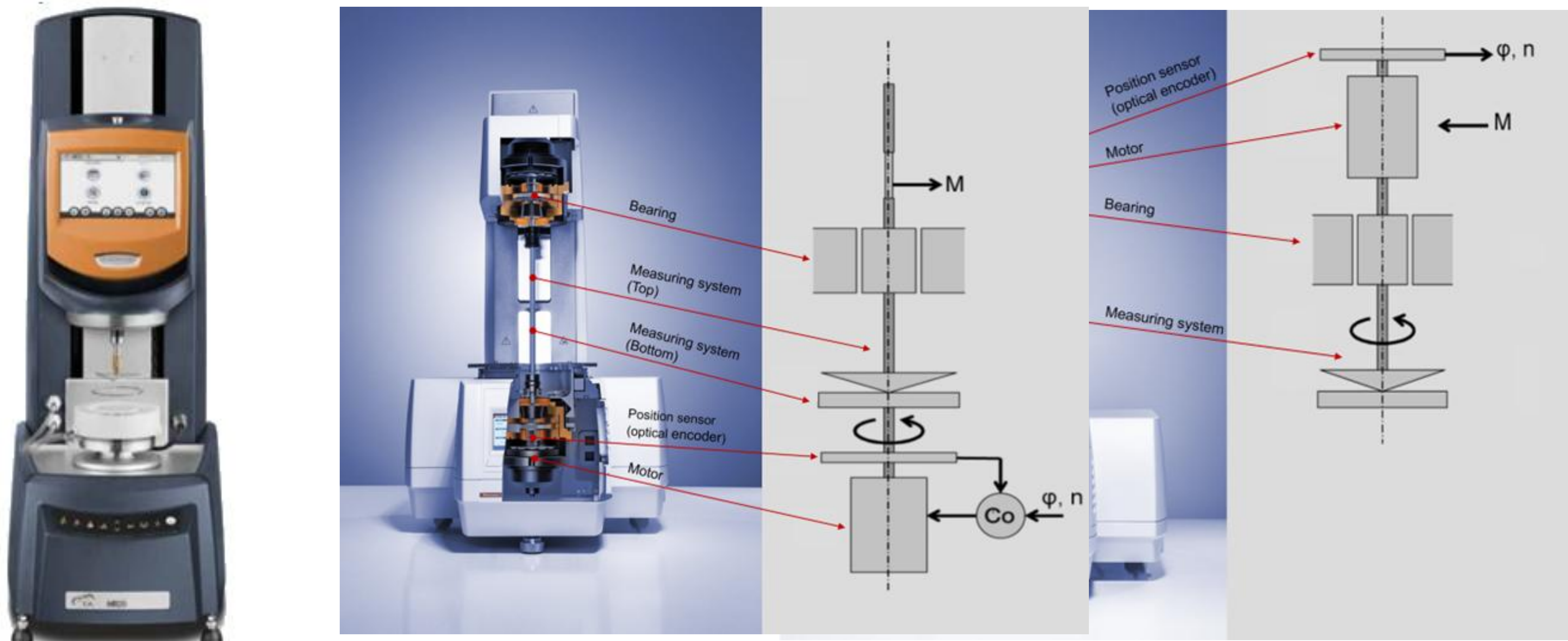
# Hybrid Rheometer

## Rheology of lubricating greases

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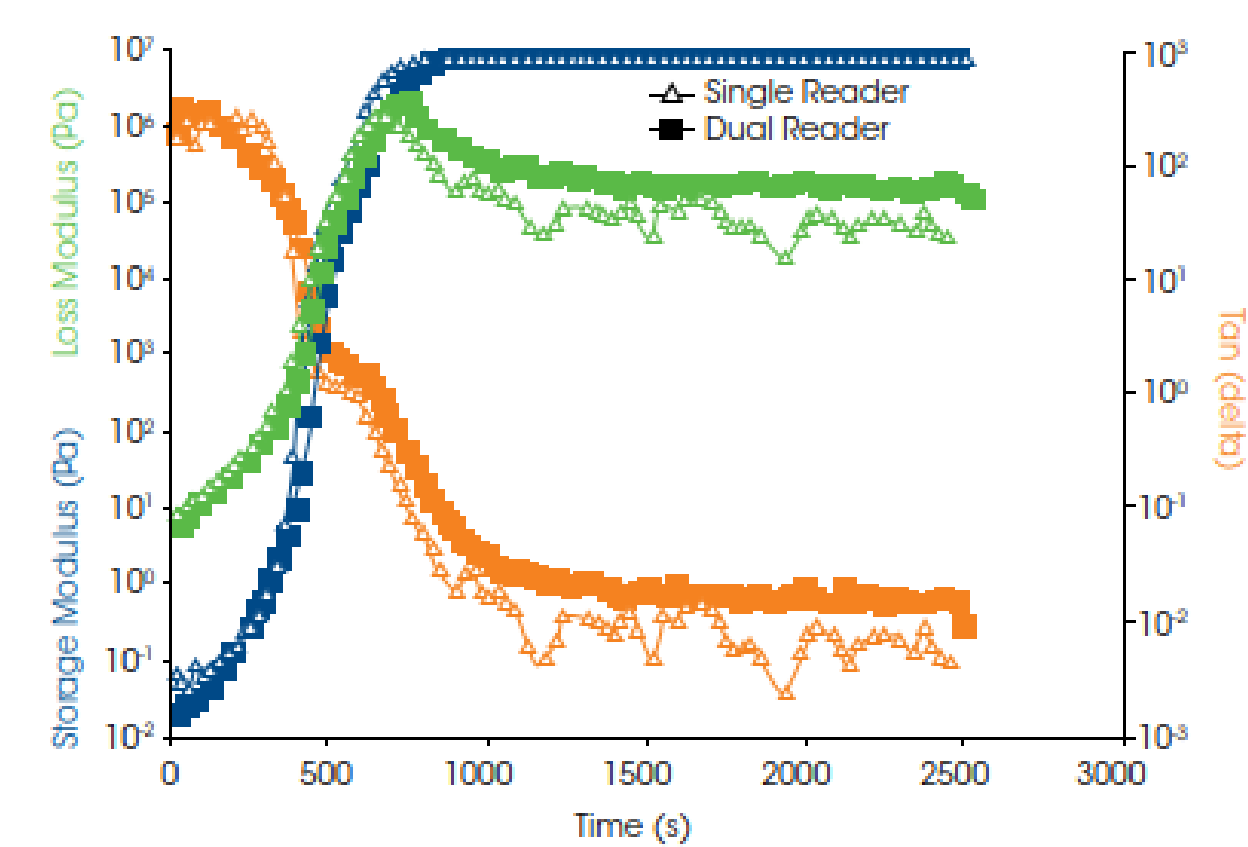
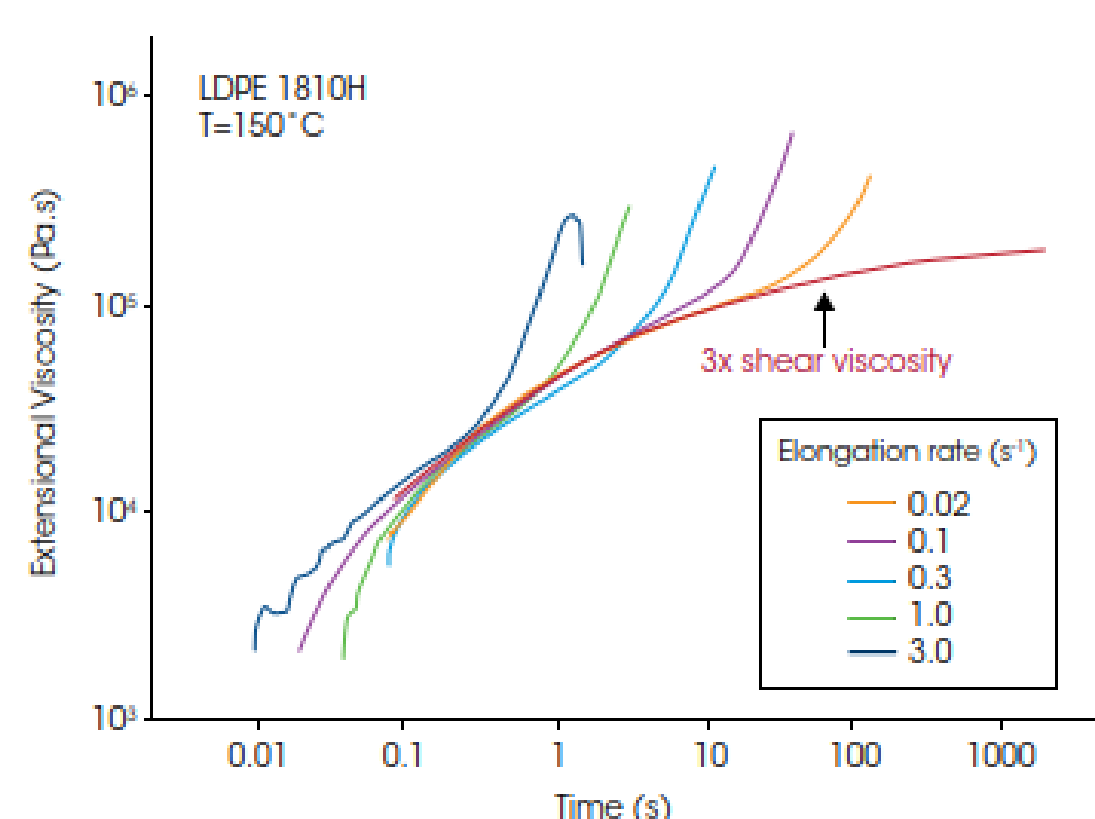
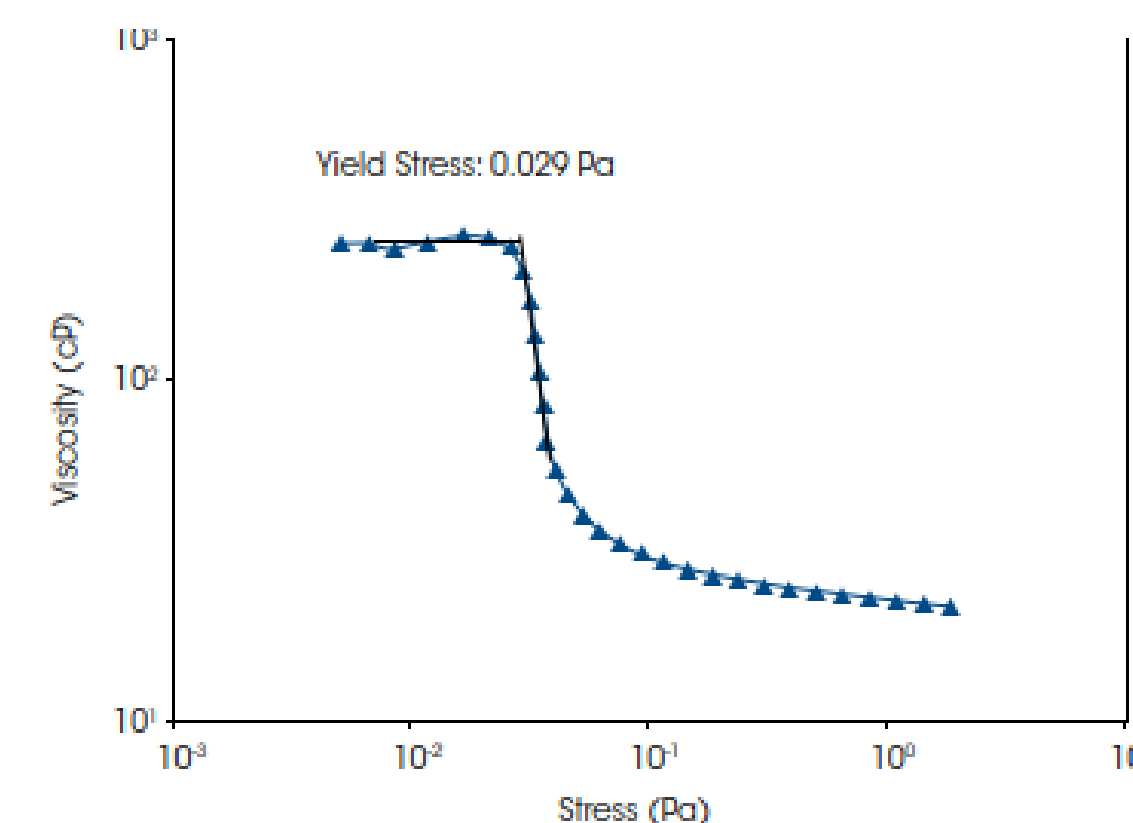
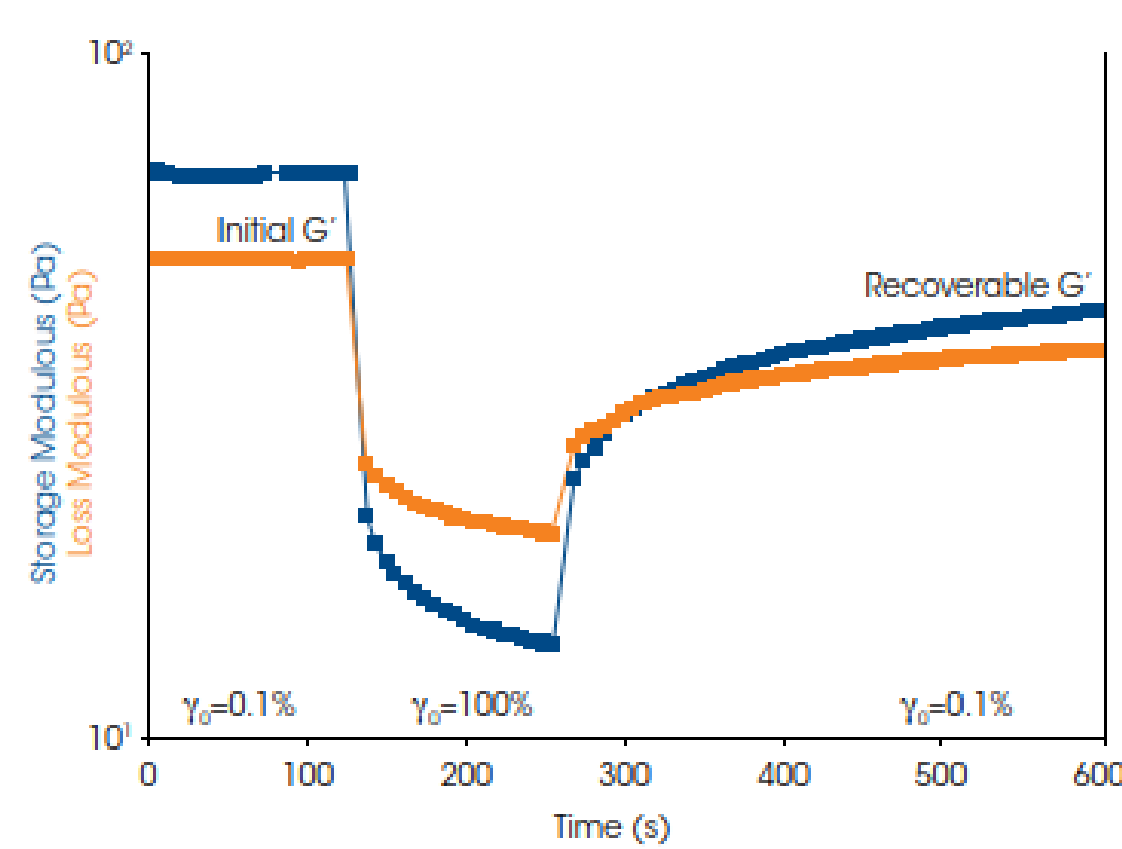
### Working principle

A rheometer is a laboratory device used to measure the way in which a viscous fluid (a liquid, suspension or slurry) flows in response to applied forces. Rheometers that control the applied shear stress or shear strain are called rotational or shear rheometers. The **Discovery Hybrid Rheometer**'s exclusive Optical Encoder Dual Reader improves phase angle precision by 70% compared to conventional single-reader designs. This leads directly to a more accurate measurement of storage modulus  $G'$ ,  $G''$ , and  $\tan \delta$ .



### Results and discussion

Peltier Technology: Advanced, Standard and Stepped Peltier Plates offer a temperature range of  $-40\text{ }^{\circ}\text{C}$  to  $200\text{ }^{\circ}\text{C}$ , heating rates up to  $50\text{ }^{\circ}\text{C}/\text{min}$ , and temperature accuracy of  $0.1\text{ }^{\circ}\text{C}$ .



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