

# Tribotonic

## Tribology and Petroleum Support

Monday 4<sup>th</sup> September 2023

Introducing the Falex Multi Contact Testing Tribometer (MCTT), a versatile, bench-top instrument for the evaluation of friction, wear and abrasion characteristics of materials, coatings, and lubricants.



When the Falex team came to look at the re-development of the multispecimen instrument, versatility was at the forefront of their thinking. As a single instrument, the system accommodates an ever-increasing number of test geometries and conditions allowing investigation into a wide variety of materials, coatings and lubricants for wear rates, PV limits and determinations of static and dynamic coefficients of friction.

### Specification

The computer controlled motor drives the upper vertical shaft while the lower vertical shaft is held fixed and measures the applied torque.

Additionally, the pulley configurations allow for speed ranges between 15 rpm to 3600 rpm.

The Reversible Drive provides Oscillatory Motion Control from 5° to 720° (angle of motion dependent on test speeds and loads) highlighting the instruments in field flexibility.

ASTM D3702	Standard test for wear rate and coefficient of friction in self-lubricated rubbing contact using a thrust washer testing machine
ASTM G99	Standard test method for wear testing with a pin on disk apparatus
Proposed	Standard test method for predicting coefficient of friction and wear properties of hydraulic fluids using a cyclic stress vane apparatus

Popular Test Adapters
Vane pump
Rack-on-pinion
Thrust washer
Powder friction
Walking cam
Pin on disk

To find out more about the Falex product range or to look at our Pin & Vee instrument, please visit booth 544 at Lubricant Expo.