

Falex- « Pin and Vee » test module (CETR MC)

Description

Conditions

Standard based tests

InS
 Innovation
 Nanomaterials
 Strategy

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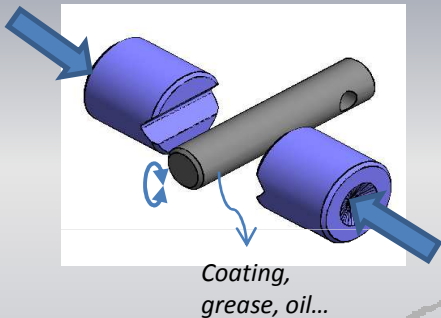
This device which allows the performance of Falex “ Pin&Vee ” tests **is mounted on CETR-MC platform.**

In the so-called **Pin&Vee test**, the pin –a cylinder spinning at speeds from **0.1 to 3000 rpm**-is trapped between the vee blocks. The load, that is radially applied, the rotation speed and the generated torque that overcomes the friction between surfaces are continuously recorded.

Together with this module, the **complementary sensors of the CETR-MC** can be used to give a wider view of the processes taking place in the contact,; i.e. galling or seizure.

The geometry can be adapted to more complex contact situations.

- Direct Load: 50 - 5000 N
- Rotation speeds : 0-3000 rpm.
- Torque max (Tz): 4000 N.mm



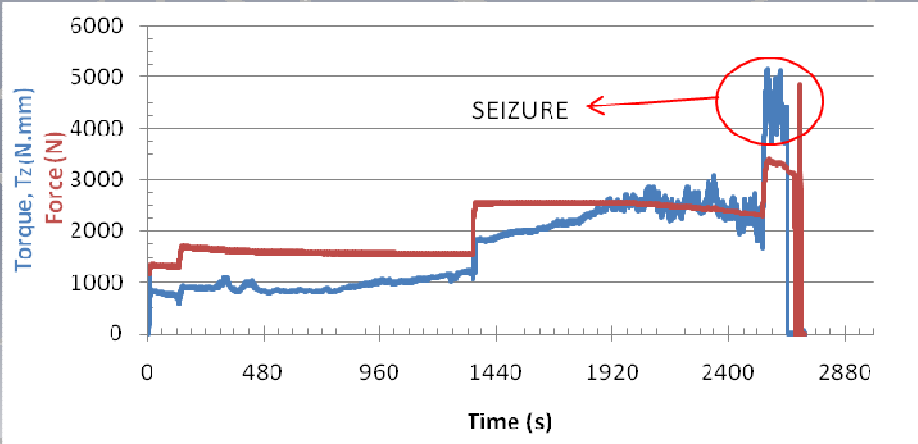
NOTE: Being the maximum applied direct load of 5000N, tests can only cope with the low capacity tests detailed on the standards.

ASTM D2625: Endurance (Wear) Life and Load-Carrying Capacity of Solid Film Lubricants (Falex Pin and Vee Method)

ASTM D2670: Measuring Wear Properties of Fluid Lubricants (Falex Pin and Vee Block Method)

ASTM D3233: Measurement of Extreme Pressure Properties of Fluid Lubricants (Falex Pin and Vee Block Methods)

ASTM D5620: Evaluating Thin Film Fluid Lubricants in a Drain and Dry Mode Using a Pin and Vee Block Test Machine



Seizure endurance for a standard oil