CETR Multi Contact Tribometer (CETR-MC)

Description

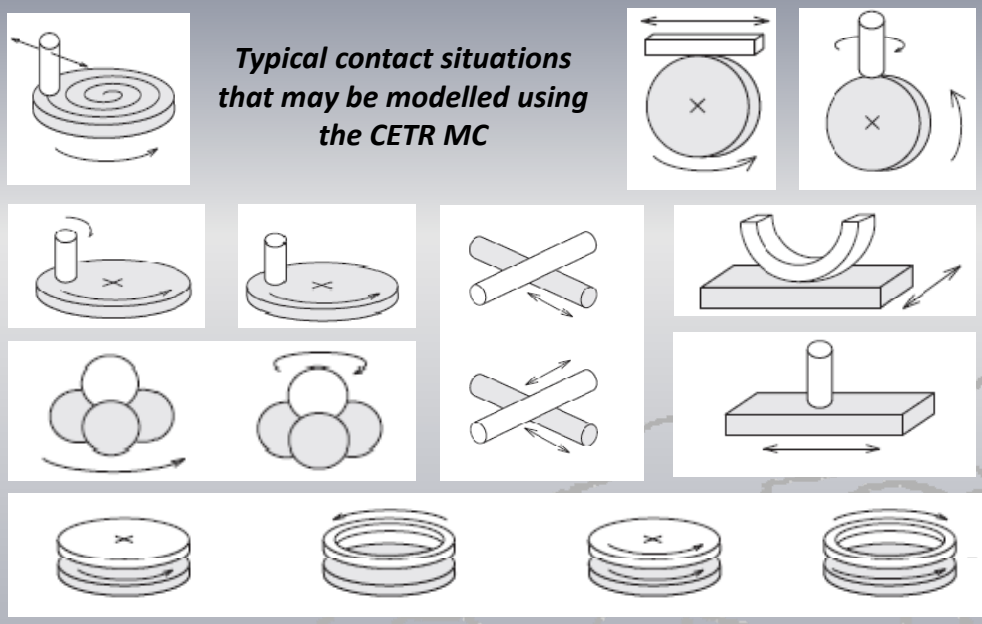
*The CETR-MC is a state-of-the-art **Tribological Station** with interchangeable modules allowing it to perform many tests, either derived from the standards (4 balls, Falex, Timken, SRV) or with more complicated contact situations. It is possible, for example, to perform tests at various Rolling-to-Sliding ratios or to slide creating spiral tracks while keeping a constant linear speed...*

*In addition, the CETR is equipped with many **complementary sensors** allowing a perfect understanding of the phenomena taking place during the tests: **Acoustic Emission (AE), Electrical Contact resistance (ECR) or even a micro displacement capacitance sensor** to monitor the wear as the test proceeds.*

This machine is our most versatile piece of equipment for modelling any contact situation in terms of geometry, speed and pressure that our customers may present to finally develop an adequate solution to their problem.

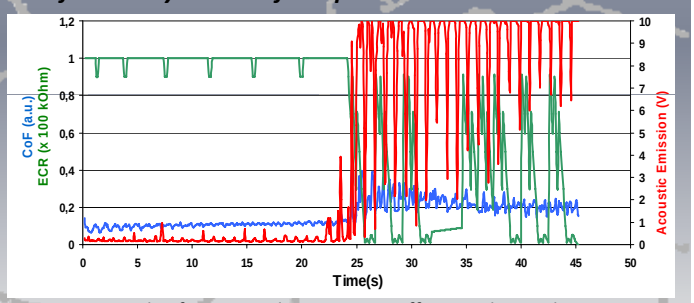
Conditions

Typical contact situations that may be modelled using the CETR MC



Characteristics :

-6D Force-Torque sensor: Torque & Force on X,Y and Z axis (0,1 to 20N.m, 10 to 1000 N)
-Fully programmable , fully computer controlled (speeds, forces, positions)
-Position or Force servo-control system.
-High Frequency Multichannel Acquisition
-Contact Acoustic Emission
-Electrical Contact Resistance
-Wear quantification by means of a capacitive sensor
-...



Example of some results: Friction coefficient; Electrical Contact Resistance and Acoustic Emission

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