

Tribology and Indentation Testing Systems

MICROTEST engineers a family of advanced equipment for instrumented tribological characterization and indentation studies of a wide range of materials. These equipment include:

- Pin-on-Disk Tribometer, MT
- Micro Indenter and Scratch Tester, MTR3
- Abrasion Wear Tester, MTDA
- Multi-Function Tribometer, MTEM4

Pin-on-Disk Tribometer, MT

Microtest Pin-on-Disk tribometer provides highly accurate and repeatable wear and friction testing using rotary or linear motions compliant to ISO and ASTM standards.

The tribometer determines the magnitude of friction and wear as two surfaces rub against each other. A pin or ball probe of a desired material is placed on the disk-shaped sample and loaded with a precisely known normal force. The sample is either rotating or reciprocating in a linear track. The resulting frictional forces acting between the probe and the sample are measured. Additionally, the wear for both the sample and probe is calculated from the volume of the material lost during the term of the test. The normal force, temperature, wear rate, friction coefficient, number of turns, rotation/reciprocation speed and all other testing parameters are registered and displayed in real time.

The Pin-on-Disk tribometer is compatible with medium/high temperature (furnace), lubrication (spray), electrical resistance contact, tribo-corrosion and triboscopy options to meet individual tribological testing requirements.

