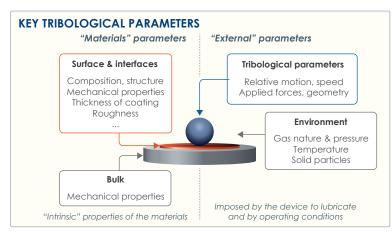
UHV TRIBOMETER with 6-axis force sensor

PREVAC

Module for study of **tribological** and **mechanical properties** between two surfaces in wide range of temperatures, from **UHV** to **ambient pressure** conditions.



- ▶ Range of normal forces: from 0.1 to 15 N
- ▶ Friction measurement: from 0.01 to 2
- Closed loop control of applied load
- ▶ Ball-on-disk rotating tribometer reciprocating or continuous
- Pressure range from 10⁻⁹ mbar up to 1 atm of gases and vapors (H₂, O₂, N₂, H₂O, CH₄, CxHy and others),
- ▶ Temperature:
 - from room temperature to 600 °C for ball sample
 - from -120 °C up to 600 °C for flat sample
- Equipped with:
 - 2 axes upper manipulator for **ball sample holders** (up to ½")
 - 1 axis lower manipulator for **flat sample holders**
- Modular design allows for connecting deposition modules (MBE, PLD, sputtering) or analytical modules (XPS/UPS/ARPES, NAP XPS, IR etc.)





Indentation and

fracture experiments

