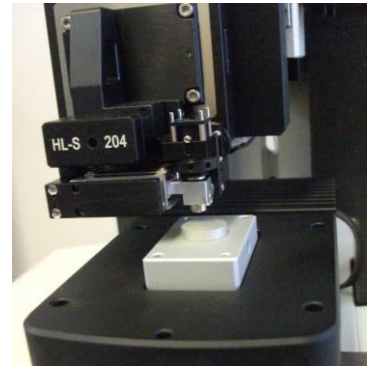


Laboratory of tribotechnology

(friction and wear testing – wide range of loads, temperatures and geometries)
 RNDr. P. Hvizdoš, PhD., Institute of Materials Research, SAS, phvizdos@saske.sk

Nanotribometer CSM NTR2

- Extremely precise measurements at loads up to 1 N
- Rotational and reciprocal movement
- Precise testing of small specimens, biomaterials, polymers

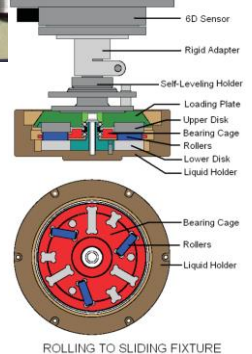
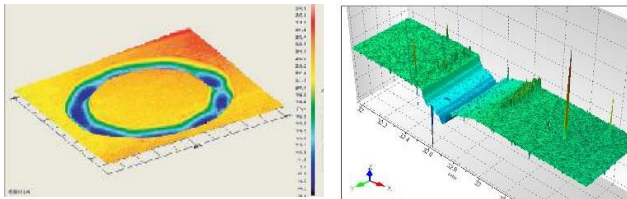


High temperature tribometer CSM THT

- pin/ball on disc
- Load up to 10 N
- Temperatures up to 800 °C

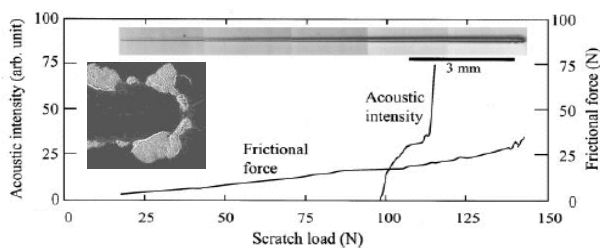
Universal tribometer Bruker UMT 3

- Wide range of possible testing modes
- Rotational and reciprocal movement
- Testing in dry and lubricated conditions
- Testing of bearings – balls, rollers
- Higher loads (5-1000 N)



Applications:

- Measurements of friction coefficient, wear, and wear resistance
- Characterization of lubricants, testing in liquids
- Testing of superhard protective coatings in wide temperature range
- Investigation of wear damage mechanisms
- Scratch testing up to 200 N – adhesion and stability of protective coatings



ROLLING TO SLIDING FIXTURE