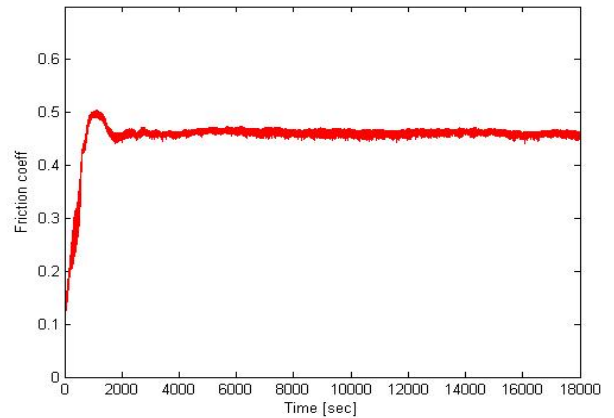


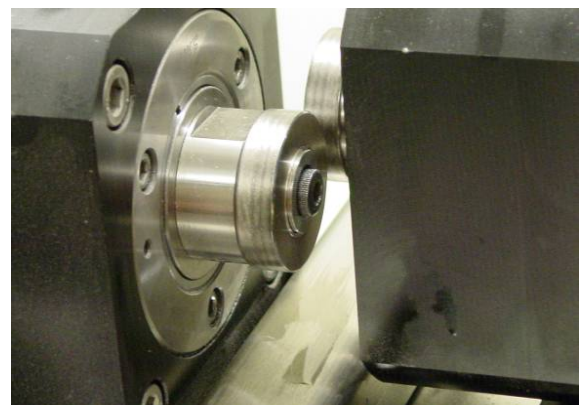
UTM 2000 Twin-disc



The UTM 2000 serves to characterize and simulate friction and wear behaviour and can be used for solid state friction without lubrication, or boundary and mixed friction, with liquid lubricants. This allows tests for characterization of both lubricants and materials. During a test normal force, the temperature of the lubricant inside the circulating oil system, the linear wear of both specimen and the friction force is measured continuously. The two servo drives can be individually controlled which enables testing under pure sliding to pure rolling conditions and also oscillating motion. The specimens are mounted on the end of each shaft on the servo drives and secured and centred with a conical clamping unit. The applied load is measured with a force sensor on the load lever. The friction force is calculated by measuring the traction force between the disc specimens with a torque sensor mounted between one of the servo motors and the shaft where the test specimen is mounted.



Recorded friction data



Disc specimens

TECHNICAL SPECIFICATIONS

Speed:	0.1 – 3000 RPM steplessly adjustable
Load:	0 – 2000 N, dead weight
Friction force:	0 – 50 N
Wear meas.:	LVDT displacement sensor
Temperature:	From RT to 100°C steplessly adjustable

