



## 76-100-004 Dynamic Friction Tester



### Field of Application

Linear friction test with exchangeable frictional partners within a temperature controlled chamber.

### Machine Characteristics

The dynamic friction tester is controlled from PC via Coesfeld WIN-Friction software. The machine consists of a highly dynamic linear electro drive, which horizontally moves a t-nut base plate, which holds a friction surface. A measuring head with three-component force sensor for normal, friction and lateral forces holds the specimen and is statically loaded via weight set or optionally via pneumatic cylinder. The test setting is positioned in a tempering chamber.

### Operation Modes

Single Linear Stroke (one way/ back and forth)  
Cyclic Movement (back and forth repetitively)

### Technical Specifications

Friction force: 500 N (other choice up to max 1500 N possible)  
Friction surface: max. 280 mm  
Friction speed: max. 3 m/s for ~100 mm  
Sampling rate: 1.000 Hz  
Temperature: (-20°C)\* to 120°C \* with optional external cooling  
Humidity: optionally via external conditioner

### Dimensions and Connections

Size (HxWxD): 1330x2900x970 mm  
Weight: 700 kg  
Mains: IEC309 Plug IP44 3P+N+E 32A 380V / 50Hz  
Cooling: electric drive in/out plug connection, Ø 12 mm, 25°C, rate 8l/min  
Cooling: chamber in/out plug connection, Ø 12 mm  
Air: in plug connection, Ø 5 mm, max. 8 bar

### Accessories

Pneumatic Grip for Sample Fixture  
Pneumatic Normal Force Loading  
Cooling Machine

Humidity Conditioner  
Various Friction surfaces