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76-100-004 Dynamic Friction Tester

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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