

Pin on Disc Friction & Wear Tester

test method

Determines the wear of materials during sliding using a pin-on-disc apparatus. Materials are tested in pairs under nominally non-abrasive conditions.

features

The Koehler Pin on Disc Tester is primarily intended for determining the tribological characteristics of a wide range of materials under various conditions of normal loads and temperatures. A stationary pin mounted on a holder is brought in contact against a rotating disc at a specified speed. As the pin is sliding, the resulting frictional force acting between the pin and disc is measured. Both normal load and speed can be set as desired.

data acquisition software

Data Acquisition System incorporates sensor and signals with a combination of data acquisition hardware and software to create a complete measurement system. Our Pin on Disc Testers measures Real Time Data of physical properties of test materials. Friction, Wear, and Temperature can be analyzed and correlated with different test materials.

ordering information

catalog no.	description
K93500	Pin on Disc Tester 115V, 60Hz
K93590	Pin on Disc Tester 230V, 50Hz
K93596	Pin on Disc Tester 230V, 60Hz
K93900	Data Acquisition Software
accessories	
K93500-1	Environmental Chamber
K93500-2	Lubricant Recirculation System
K93500-3	Pin Heating System, up to 250°C
K93500-4	Specimen Holders (ball, square, rectangle)
K93500-5	Wear Discs



K93500 Pin on Disc Tester

specifications

Normal Load Range: up to 200N
Frictional Force Range: up to 200N with a resolution of 1N with tare facility.
Wear Measurement Range: ± 2 mm with tare facility
Sliding Speed: 0.26 to 12 m/s
Disc Speed: 100 to 2000 rpm
Preset Timer Range: up to 99hrs:59min:59sec
Wear Disc Diameter: 165 mm
Wear Disc Track Diameter: 10 to 140 mm
Specimen Pin Diameter/Diagonal: 3 to 12 mm
Pin Length: 25 to 30 mm