Automated Thrust Washer Tester

test method

Determination of the wear rate and co-efficient of friction for self-lubricated materials in rubbing contact by testing machine that utilize a thrust washer specimen configuration.

automated thrust washer tester

- Conforms to ASTM D3702 and related specifications
- Integrated industrial grade PC with Data Acquisition Software: online data acquisition of frictional torque, temperature, normal load and co-efficient of friction, drive torque
- Predefined standard test protocol
- User defined test customization option
- Accurate Speed control through AC servo motor
- Dynamic closed loop speed control
- Dynamic load control system
- Robust structure design
- Integrated temperature control module
- Safety interlocks for speed, temperature, load and friction force

The Automated Thrust Washer Tester is used to determine the equilibrium rate of wear and co-efficient of friction of materials in rubbing contact under useful operating conditions, that is, combinations of pressure and velocity that utilizes a thrust washer specimen configuration as per ASTM D3702. Test load is directly controlled through a software based close loop servo pneumatic system, which enables precise control over load application. The pneumatic loading method allows the user to have a better control over the test load and application method, unlike conventional dead weight method of loading. User will have better control over the choice of load and test speed which enhances the productivity of the test. As per ASTM standards, the upper specimen is rotated up to 200 RPM. An axil force up to 400 kg can be applied through servo pneumatic close loop loading mechanism.

ordering information

catalog no.	description
K93692	Automated Thrust Washer Tester 220V 50/60Hz, 3 Phase
K93693	Automated Thrust Washer Tester 440V 50/60Hz, 3 Phase

K93692 Automated Thrust Washer Tester

included accessories

Integrated Industrial grade multi touch PC
Set of Hand Tools
Connecting Cable
Data Acquisition Card
Data Acquisition Software
Operating and Maintenance Manual
Calibration and Test Reports of Sensors
Digital Micrometer

specifications

Conforms to the specifications of: ASTM D3702
Benchtop Model
Integrated Wide Screen 15-inch multi-touch industrial grade control panel with IP65 protection
Integrated pneumatic loading system up to 400 kg
USB3.0 port for data transfer

Dimensions: (L x B x H mm)
625 x 500 x 900 mm

On-site Requirements:
Power:
440V, 3 Phase, 50/60Hz or
220V, 3 Phase, 50/60HZ
Pneumatic Supply:
Compressed air up to 5.5 bar (80 psi)

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