

SRV[®]5 Test System

test method

The basic SRV[®]5 system has an electromagnetic linear drive, which generates - as the relative motion of the test contact - a periodic sinusoidal translational movement in the frequency range from 0001 Hz to 500 Hz with strokes of 0.01 mm to 5 mm (oscillation). The primary principle behind the basic SRV[®] system with oscillation movement is determining the friction coefficient of a material pairing with or without an intermediate medium, based on the following definition.

SRV[®]5 oscillation system

- Conforms ASTM D6425, ASTM D5706, ASTM D5707, ASTM D7217, ASTM D7421, ASTM D7420, ASTM D7594, ASTM D7755, ASTM G99, ASTM D6185, and related specifications
- Specification of the test variables frequency, stroke, test force, test temperature, and test duration
- Pressure of the opposing body onto the main body at a defined normal force
- Oscillation of the opposing body on the surface of the main body with a sinusoidal movement pattern
- Measurement of the lateral friction force resulting from the motion of the opposing body on the main body
- Calculating and recording of the friction coefficient during the entire test
- Measurement and recording of total wear during and after the test

features

Type of movement: The oscillation module allows continuous or discontinuous translation at sliding speeds of 0.0001 m/s up to 0.5 m/s. Optional control functions are available for simulating practice-compliant movement patterns.

Contact geometries: Friction contacts with abstracted contact geometries (e.g. standard tests) and a wide range of application-specific contact geometries can be realized. A wide range of standard test bodies in secured SRV[®] quality is available. For application-specific contact geometries, your original parts can be integrated into the friction contact without time-consuming preparatory work. Tests can be used with or without an intermediate medium. The friction conditions simulated in this manner run from mixed to dry friction.

Possible combination with the rotation drive (Combi Drive): The rotation and oscillation drives as well as their measurement sensors can be combined. This results in a wealth of simulation options.

ordering information

catalog no.	description
SRV5	SRV5 Testing System



Optimol Instruments Prüftechnik GmbH
Flößergasse 3, 81369 München – Germany

Tel: +49(0)89/4509 120
Fax: +49(0)89/4509 1289
E-Mail: info@optimol-instruments.de
optimol-instruments.de



configuration options

- Basic Oscillation System
- Rotation System
- Vacuum Test System
- Extreme Atmospheres System
- Rolling 2 Disk System

software features

Our specially developed system software can be used cross-platform in all test system variants. It is designed to process huge amounts of data. Its basic tasks include system control, operation and test evaluation. Clearly structured functions allow convenient recording, evaluation, analysis, and presentation of measurement results.

- Software can be used across platforms
- Easy recording, evaluation, analysis, and presentation of measurement results
- Ergonomically positioned monitor with touchscreen operation
- Online display and evaluation of results
- Graphical and numerical representation of results
- Simple data management facilitates structured testing
- Network capability, network-wide system control
- Network-wide view of process data
- Remote control of the test system across all locations via VPN channel
- Overview of current machine status on display



85 Corporate Drive, Holtsville, New York 11742
1-800-878-9070 (in u.s. only) TEL: +1 631 589 3800 FAX: +1 631 589 3815
Email: sales@koehlerinstrument.com www.koehlerinstrument.com