The PROPERIS RRL series is the Tribology meter for a rubber.

For Evaluation of the Friction & Slip value of soft materials
Cover four test modes required in equipment development

- **Slip rate measurement unit**
  (The slip rate measured by the transport load)

- **Friction coefficient measurement unit**
  (Friction force measurement in the slip rate of 100%)

- **Slip rate measurement mode**
  - Automatically set the load force of the transport load equivalent
  - Accelerated testing the transport reliability degradation due to paper dust adhesion

- **Friction coefficient measurement unit**
  (Friction force measurement in the slip rate of 100%)

- **Roller rotational friction measurement mode**
- **Roller fixed friction measurement mode**
- **Wear test mode**

Highfrequency Viscoelasticity Corporation
Worthful test can do without an actual machine!

- Slip rate measurement (roller rotation)
  - Measuring the amount of movement without marking the sample medium, calculate the Slip rate from the difference between the roller rotational amount.
  - Paper dust adhesion degradation it can promote test at the micro slip state.
- Friction coefficient measurement (roller rotation, roller fixed)
  - Since the inertia of the measurement system is small, you can understand the real phenomenon
  - It will reproduce the very actual friction from low speed to high speed.
- Wear test is also available.
- Since the speed range is wide, it is possible to understand and optimize the rubber physical properties.

Results are automatically displayed with USB data link to EXCEL of PC.

- There is no record mistake because measurement parameter is able to list.
- automatically create graph.
Examples of paper dust adhesion accelerated test using the functions of this machine

Adhesion degradation accelerated test using the wear test mode
・Since the roller rotation and a medium back and forth can be tested while changing the conditions, you can adapt to different operating conditions.
・Use the promotion medium, you can substitute the actual test of the long-term in one round trip.

In coefficient of friction measurement mode, visualizing the grip recovery

Slip rate measurement mode
・To quantify the adhesion of paper dust degradation
・You can consider whether possible recovery in the load force of the actual equipment.
・Directly connected to the optimization of the pickup roller control.

A rubber grip is restored by the tangential force
RRL type friction evaluation apparatus specification

- Mountable roller Size: φ40mmMAX × 幅30mmMAX
- Roller rotation speed : Max3000rpm
- Medium moving speed : Max600mm/s
- Measurable speed of media movement amount : Max10000mm/s
- Maximum measurable friction force : 2N
- Body size WDH:600X600X900mm
- Controller size WDH:600X700X770mm
- Power supply : 100~250V
*Price and delivery time, please contact us by e-mail.

Since the specifications are subject to revision without notice for improvement, please contact us in case of use.

The Useful point of this apparatus

Product development
- Media handling equipment
  Equipment to handle bill and copy paper, film, etc.
  Tire
- Skill of tribology application technology, decisive factor of success in the differentiation and stabilization of the quality of performance
- Rubber roller selected in accordance with the media and equipment characteristics
- Prolonged maintenance cycle
  Performance stabilization

A logical and standardization of evaluation methods, contribute to the sophistication and efficiency of research and development.

Technical issues
- Quantitative evaluation method of the tribological properties of the rubber roller
- The friction accelerated deterioration test method due to the adhesion of paper dust
- Rubber material development with less paper dust adhesion degradation
- Improvement of media

Logical thinking of the evaluation (Advanced)
Share the data that is reproducible by suppliers and product developers (efficiency)

Development, manufacture and sales
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