

# Shoe Abrasion Resistance and Durability Test System - SWR230

<http://www.uskoreahotlink.com/products/testing-inspection/friction-wear-tribometers/>

The **SWR230** is intended to be used for durability and abrasion resistance testing of shoe soles and other rubber or polyurethane products.

This system can control various load patterns using static load control and allows repeated contact between the shoes and abrasion belt in accordance with the pre-set test conditions to simulate movement. Different abrasion areas can be tested by adjusting the contact angle of the shoes to simulate different walking techniques and postures. During the test, the friction coefficient is measured and abrasion monitored by the vision camera system.

## Control Parameters

- Rotational Speed (RPM)
- Vision Camera
- Time (sec)
- Load (N)
- Distance (m)
- Cycle

## Recording Parameters

- Rotational Speed (RPM)
- Vision Camera Photographing
- Sliding Distance (m)
- Sliding Speed (m/s)
- Test Cycle (cycle)
- Test Time (sec)

## Standard Specifications

<b>Test Load Range</b>	Max. 100kgf
<b>Loading System</b>	AC Servo Motor
<b>Friction Force Sensor</b>	250lbs Non-linearity 0.1% R.O. Non-repetitive 0.05% R.O.
<b>Test Speed</b>	Vertical Contact Speed: 0.1 – 2Hz Abrasion Belt Speed: Max 5km/h
<b>Test Method</b>	Position and Load Control
<b>Test-End Conditions</b>	Time, Count, Distance, etc.
<b>Power</b>	3kW, 220V, 50/60Hz
<b>Sample Size</b>	Shoes: Universal Abrasion Belt: 500mm

