

## Test Method: SATRA TM174

### RESOTECH DIN SOLE ABRASION TESTER (ROTATING DRUM METHOD) MODEL NO. RESOTECH SCH-021



This Is Ideal For Testing Rubber, Urethanes And Other Synthetic Soling's To Assess Their Resistance To Abrasion In Normal Everyday Wear. The Principle Of The Test Is Simple But The Unique Three-Head Design Of The RESOTECH Abrasion Tester Reduces The Time Taken Per Test. A 150mm Diameter Drum Is Rotated At 40rpm By A Precision AC Motor With Variable Speed Control. This RESOTECH machine has a self-tracking suction head which can be connected to a standard vacuum cleaner, removing the need for constant operator attention. A sample cutting knife is also available and is suitable for use with rotary pillar drill. DIN abrasion standard includes ISO 4649, DIN 53516, ASTM D5963, SATRA TM174, and etc.

### Application

DIN Abrader (Abrader) consists of a rotating drum whose surface would be stick with sandpaper. DIN Abrasion is one of the most common rubber abrasion test methods. Equipped with a rotational block, DIN abrasion machine can do both rotating and non-rotating tests. Clamp the rubber sample on the specimen holder, the DIN abrasion machine would rub the sample on the drum under a certain

inclination and a certain load. Then to measure the sample volume loss after rubbed for a certain distance.

### Features:

- Can do rotating test and non-rotating test;
- **Button Control & Advanced Touch Screen Control** for your choice;
- Detailed operation manual & video are provided for DIN Abrasion Test Procedure (See the bottom of this page. Operation Video);
- DIN abrasion tester accessories are provided. Pre-rub metal block, brush to clean abrasive paper, abrasive paper, standard rubber, sample cutting device and etc.

### Specification

Model	RESOTECH SCH-021
Load	2.5 ± 0.1 N; 5.0 ± 0.1N; 10.0 ± 0.2 N
Lateral displacement	4.2mm±0.04mm per revolution of the drum
Drum	Diameter 150 ± 0.2 mm, length 500mm
Rotating Speed	40 ± 1r/min
Wear Stroke	40 ± 0.2 m ≈ 84 cycles
Test Method	Rotation and non-rotation
Angle of dip	3°
Abrasive Paper	60#
Standard	SATRA TM174, ASTM-D5963, ISO 20871:2001, BS EN 12770: DIN53516
Power	1ϕ 220V

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