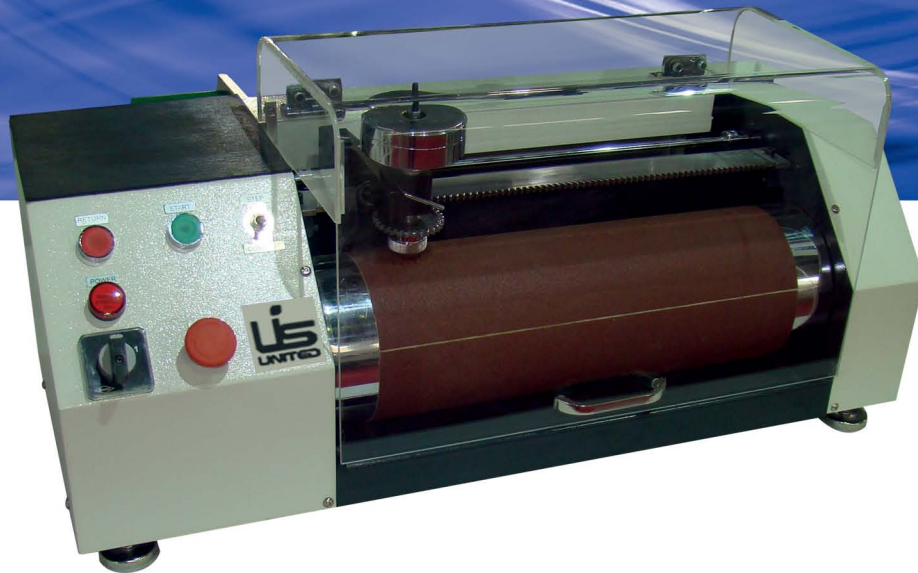


SAT-500



Rubber Abrasion Testing Machine

SAT-500

Features

- Meets DIN 53516, ISO 4649 Standards
- Special Specimen Holder
- Specimen Holder Rotation
- Anti – Friction Linear Bushing for Dead Weight Pan
- Adjustable Length of Abrasion
- Abraded Material Collection Tray
- Step & Continue Mode for Drum Motion
- Easy to Operation & Maintenance
- Safety Guard
- Very Low Cost



Application

For Rubber Industries.

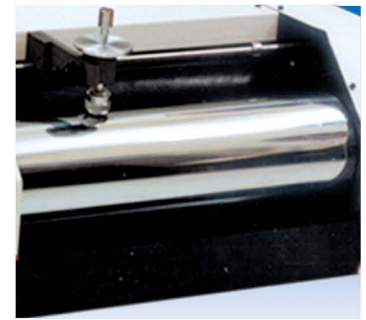
UIS SAT -500 Abrasion Tester used to determine resistance of elastomers under frictional forces .

Relative velocity between two contacted surfaces create frictional forces which caused volumetric loss of the weak surface .

Materials such as rubbers in work (tires, drive belts, shoe soles and heels) contact with solid materials and abrasion will be occurred .

Abrasion continuation is a failure problem and it should be considered in design and production.

Abrasion Test based on DIN 53316 & ISO 4649 is a good criterion to evaluate the resistance of rubber due to frictional wearing .



Specimen Holder and Dead Weight Loading



Description

According to DIN 53316 & ISO 4649 standard, a circular test piece of the elastomer to be tested is traversed under constant contact pressure and at a constant speed through a defined abrasion distance across an abrasive cloth attached to the surface of a rotating cylinder and the loss in mass is determined. The abrasive grade of the cloth is determined by the same procedure as the loss in mass of the standard elastomer and is required to lie within a specified range of values .

The loss in mass of the elastomer under test converted to volume loss from its calculated density , and the volume loss then referred to a specific nominal abrasive grade .

Technical Specifications

Standard	DIN 53516, ISO 4649
Drum Diameter	φ150 mm
Drum length	500 mm
Drum Speed	40 RPM
Abrasion Length	20-40 m (Adjustable with Mechanical Limit Switches)
Specimen Diameter	φ 16 mm
Specimen Thickness	6-15 mm
Specimen contact load	10 N (7.5N, 5N On Request)
Specimen Holder Rotation	0 or 0.9 RPM (Selectable)
Specimen Holder Adjustment	15.5 – 16.3 mm
Dimensions	82 x 34 x 45 cm (Width x Depth x Height)
Weight (Approx.)	85 kg
Power	220 ± 10 VAC ,50-60 Hz, 500 watts, 1KW .(110 VAC ON Request)
Operation Temperature	10-38° C , 10-90% Humidity , Non condensing

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