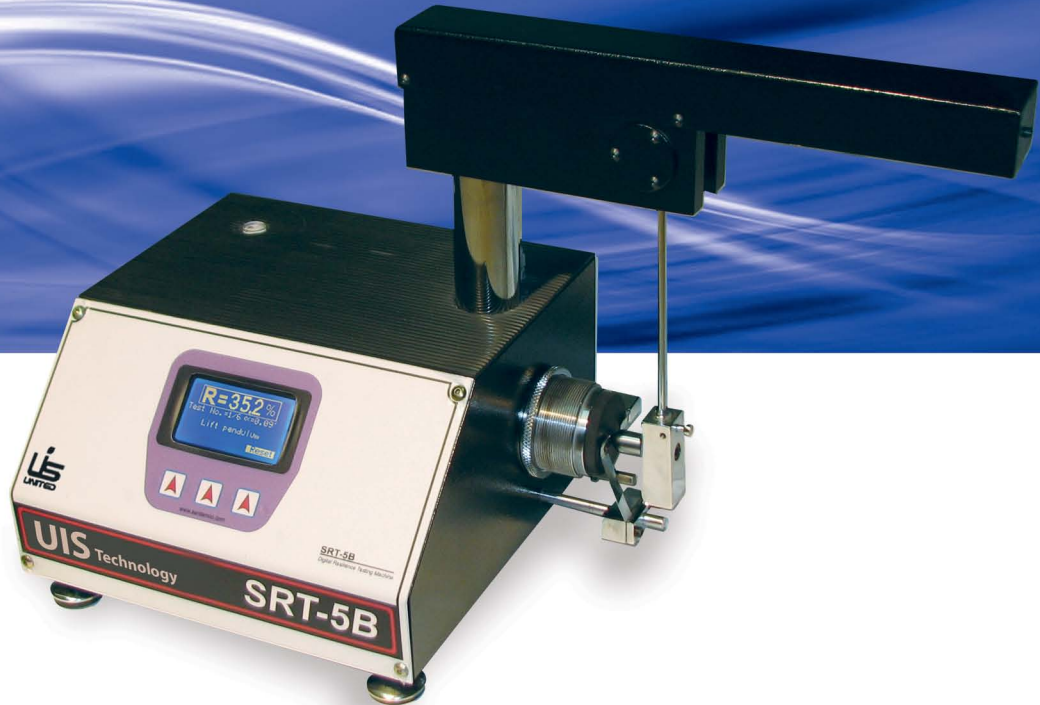


UIS Technology

Materials Testing Equipment



SRT-5B

Rubber Resilience Testing Machine

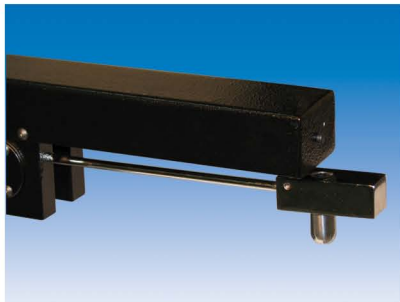
SRT-5B

Features

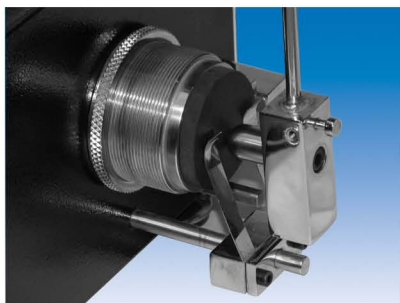
- Meets ASTM D 7121 ,DIN 53512 , ISO 4662 Standards
- Digital LCD Read out
- Automatic Release Device
- Adjustable Anvil for Various Specimens Thicknesses
- Average Option For Last three Tests According Standards
- Pendulum Designed Based on Center of Percussion
- Easy Operation & Maintenance
- Very Low Cost



Low Cost , High Performance



Automatic Release Device (Magnetic Type)



Adjustable Anvil & Mechanical Protect of pendulum

Description

According to ASTM D1054 and DIN 53512 and ISO 4662 standards, SRT-5B Resilience Tester has a precision pendulum and a robust anvil which the specimen could be placed on it simply .

Adjustable anvil position permits the operator to test specimens with different thicknesses .

An Automatic Release Device (Magnetic Type) provides to carry out the test without initial falling error (which may occur when use mechanical releasing device) .

Also, calibration option available to set falling height (angle) by calibration key on the machine panel.

The pendulum is designed based on minimum distance between Pendulums Center of Percussion and strike line. This dynamic property eliminate all lateral forces during strike in bearings and transfer all amount of pendulum's energy to the specimen.

The pendulum is released with a certain height (Angle) and after strike the rebound height (Angle) will be measured by an Incremental Encoder. The ratio of Rebounded Height / Initial Height (Resilience Value) will be displayed digitally on the machine panel in percentage (%). according ASTM standard, six tests should be carried out and average of the last three tests should be reported .

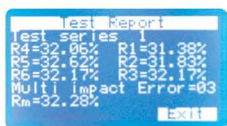
SRT-5B could be done the above mentioned procedure and report the final result digitally.

Application For Plastics Industries

UIS SRT-5B Resilience Tester used to determine rebound property of Rubbers Standard Specimens .

Rubbers are good materials for energy absorbtion. In many applications (Such as Dampers) , rubbers used to reduce rebound strike and vibration damping.

This property may determine by rebound falling weight or pendulum test .



Average of Last Three Tests



LCD Display

Technical Specifications

| | |
|--------------------------|---|
| Standard | ASTM D7121 , DIN 53512 , ISO 4662 |
| Pendulum Release Angle | 90 ° |
| Pendulum Capacity | 0.5 J |
| Measuring Device | Incremental Encoder (1024 Pulse /Rev) |
| Release Device | Automatic , Magnetic Type without any Friction & Vibration During Releasing Time. |
| Specimen Type | Circular (Disk) Type |
| Specimen Diameter | φ 25-φ50 mm |
| Specimen Thickness | 5-25 mm |
| Pendulum Impact Velocity | 2 m/sec |
| Pendulum Hammer | 7.5 mm |
| Tip Radius | |
| Dimensions | 67 x 28 x 39 cm (With x Depth x Height) |
| Weight (Approx) | 27 kg |
| Power | 220 ±10 VAC , 50-60 H, 40 watt (110VAC on Request) |
| Operation Temperature | Ambient 10-38 °C , 10-90% Humidity , Non Condencing |