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# SERIES VR-6500

# LUPKE REBOUND RESILIENCE TESTER

## Outline

The impact resilience coefficient of a sample is obtained by measuring the percentage of the impact force (energy) that is initially applied when the vulcanized rubber is shocked and deformed and then recovered from the deformation. This machine is a device called a Lupke type that has been used most often from the two test methods specified in JIS K6255 (Repulsion test method). The retained iron bar is dropped naturally from a place with a drop height of 100 mm along a circumference with a radius of 2000 mm to give a shock to a cylindrical sample, and the rebound height of the bar is read to measure the impact resilience.

VR-6512 visually reads the rebound height of the bar. The VR-6522 uses a magnetic line sensor to automatically and accurately read this instantaneous stationary position, and calculate the impact resilience specified in JIS K 6255 and summarize the results. Since it is done automatically, anyone can easily perform highly accurate tests.

**MODEL VR-6512**

JSA QMS.EMS ISO 9001 ISO 14001 JSAQ1320,JSAE1529

MS JAB CM001

株式會社 上島製作所

UESHIMA SEISAKUSHO CO.,LTD

## Features

○ It has sufficient robustness and weight to prevent resonance during a test.

○ The impacting bar is held by the magnet to secure accurate dropping height.

○ Since the impact resilience coefficient is strongly affected by temperature, the temperature around the sample can be adjusted with a heater.(option)

○ A level is attached to the equipment, making it possible to check the level at any time.

○ The VR-6522 automatically measures the repulsion elasticity value in 0.1% units with a magnetic sensor, eliminating human errors by the operator.

○ The VR-6522 sets and displays the number of preliminary impacts until the rebound height becomes constant, and measures the repulsion elastic modulus after three regular impacts and calculates the center value according to the measurement method prescribed in JIS K6255. It automatically calculates the average value of the test with two test pieces and prints out.

## Specifications

| MODEL | VR-6512 | VR-6522 |
|---|---|---|
| Standard | JIS K6255-1996 | |
| Impacting Bar | Diameter: 12.50±0.05mm, Length: approx.356mm, Weight: 0.35±0.01kg | |
| Bar Suspension Height | 2000mm | |
| Falling Height | 100mm | |
| Sample Size | Thickness: 12.5±0.5mm, Diameter: 29.0±0.5mm (cylindrical shape) | |
| Sample Holding Method | Mechanical holder with a spring of 35±5N | |
| Sample Holder Temp. | Between 40 and 120°C controlled by heater (Optional) | |
| Readout of Results | Readout of the resilience scale | ・Automatic reading by the sensor with a resolution of 1/256<br>・Setting and display of the number of preliminary hits<br>・Prints results and center value of three impact tests, average of two test pieces. |
| Electric Power Required | AC100V 1A 50/60Hz | AC100V 10A 50/60Hz |
| Outer Dimensions | 1252(W) × 400(D, beam: 920) × 2638(H)mm | 1385(W) × 420(D, beam: 920) × 2645(H)mm |

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