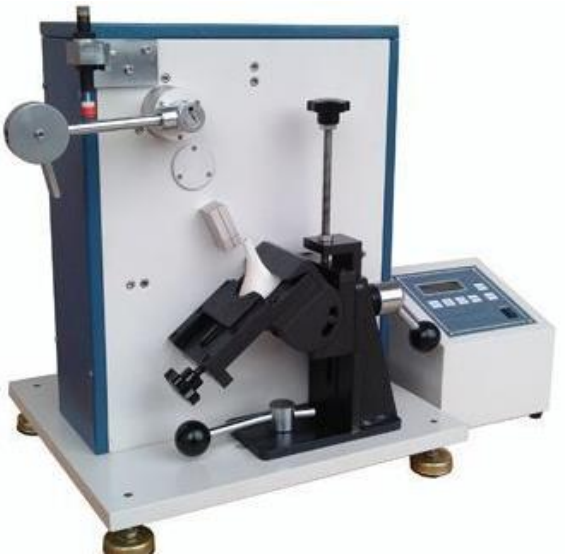
TEST METHOD: SATRA STM 156

RESOTECH HEEL FATIGUE TESTER.

MODEL NO. : - RESOTECH SCH-044



Some high heels are prone to fatigue under the repeated small deformations produced by each step in walking. This machine is designed to check the fatigue resistance of such heels by subjecting them to continuous small impacts which produce similar deformations to those of wear. It is now a well established and valuable test.

The heel is held rigid at the seat in a fusible alloy in one of three special holders provided. A melting pot STM 156MP is required to melt the fusible alloy prior to pouring the alloy around the heel seat.

Adjustments are provided so that the heel, whatever its size or shape, can be set to receive forward impacts at the back of the stem, 6mm from the tip and perpendicular to the stem direction.

The standard impacts of 0.68 joules are delivered at one second intervals by a striker attached to a free falling pendulum. This is lifted mechanically between each drop and automatically caught on the rebound. When the heel breaks, the

machine switches off automatically and a counter indicates the number of blows to cause failure.

Heel Fatigue Test Procedure

Clamp the heel on the machine, adjust the height position and angle of the heel according to the equipment, adjust the hammer in the horizontal position, pre-set the number of impacts, start the equipment. The hammer would impact the heel with the specified energy of 0.68J, 60 cycles per minute. Continuous testing until the heel breaks or reaches the specified number of impacts, the equipment automatically stops, and the number of impacts is recorded. This test method is used to assess the resistance of the heel to the repeated impact with certain mass.

Specification

Model NO.	RESOTECH SCH-044
Counter	LED/ LCD display, 0~999999 cycles can be set
Impact Energy	（0.68±0.02） N.m
Speed	60 cycles/min
Impact Angle	90°
Pendulum Bob	Diameter (57±1)mm, thickness (20±1)mm
Pendulum	Diameter (12.5±1)mm, center bob to center hub (152±2)mm
Striker Head （L×W×H）	（35±2）×（20±1）×（6±0.5） mm, radius R3mm
Power	1∮AC 220V, 50/60Hz
Standard	BS 5131-4.9, ISO 19956, SATRA TM156, QB/T2864