

# Scratch Resistance Tester for Material Surfaces

This machine tests the scratch resistance and durability of material surfaces. A scratch head makes contact with the material surface and moves to evaluate the scratch level and color change.



## Overview

### Precision Scratch Resistance Testing

This material surface scratch resistance tester is designed for evaluating the durability and surface integrity of various materials, including auto interior upholstery, plastics, rubber, leather, and coatings. It features high-precision PLC control with a user-friendly touch screen interface, allowing for automated horizontal, raising, and falling actions. This instrument is essential for quality control, new product performance validation, and inspection organizations requiring consistent, repeatable testing results.

## Technical Specifications

### Scratch Head Material Options

- Stainless steel
- Tungsten carbide

Testing Method	Cross Hatch scratch testing
Stroke Range	200 mm
Speed	200 mm/s
Number of Scratch Marks	6-11
Cross Hatch Moving Space	0.5mm - 2mm
Available Scratch Weights	2N, 3N, 5N, 7N, 8N, 10N, 12N, 15N, 20N

## Compliance & Standards

### Applicable Standards

Standard Code	Description
PV 3952	Plastic Interior Components Testing
Ford BN 108-03,13	Resistance to pilling
BMW 0180, PA-P 028	Cross hatch testing
DAF KEUR 00824-401	Cross-cut test
GME 60401 / GM 14829	Cross hatch testing
Jaguar-Land Rover TPJLR.52.004	Resistance to Scratch
GMW 14688	Scuff and Mar testing
NES M M0159	Scratch Resistance of Interior