Multi-Finger Scratch and Wear Tester

This instrument uses a tungsten carbide scratch to detect surface damage from physical contact. It assesses wear resistance of plastic parts in automotive interiors/exteriors, hard materials, paint, ink, soft metal, and carpet.

Overview

Precision Surface Resistance Testing

The Multi-Finger Scratch and Wear Tester is a precision instrument designed to measure the susceptibility of material surfaces to scratching, marring, gouging, and engraving. By utilizing a five-finger scratching mechanism, it simulates real-world physical damage that falls outside the category of ordinary wear. This equipment is essential for quality control and R&D, particularly for evaluating plastics, coatings, and rigid organic materials in automotive and industrial applications.

Standards & Compliance

Industry Standards

- Ford BN 108-13
- General Motors DMN3943
- Daimler-Chrysler LP-463DD-18-01

Certifications	CE, ISO 9001:2000, SGS

Technical Features

Suitable Materials

- Smooth or grained plastics
- Paints and coatings
- Soft metals
- Linoleum
- Rigid organic materials

Key Capabilities

Scratch Resistance • Marring Evaluation • Gouging Analysis • Engraving Testing • Adjustable Scratching Force

Testing Mechanism	Five independent spline-shaft fingers with varying weights on a pneumatically driven platform