

Diamond Needle Scoring Tester

This tester is mainly used to evaluate shear, scratches, planing, scratches and engraving properties of rigid organic materials, coating adhesives, powder coatings, anodizing materials, soft metals, plastics and glass. It is a precision instrument used for assessing material durability and performance under stress.



Overview

Precision Material Testing

The Diamond Needle Scoring Tester is a specialized instrument designed to evaluate the durability and surface integrity of rigid organic materials, coatings, and soft metals. By simulating shear, scratching, and engraving forces, it provides essential data for quality control in industries ranging from furniture manufacturing to materials science. The device features an adjustable load system and variable sample accommodation, ensuring repeatable and accurate testing results across diverse material types.

Technical Specifications

Maximum Test Pressure	5 N
Specimen Rotation Speed	5 ± 1 r/min
Test Force Accuracy	± 2%
Specimen Diameter Range	∅90 ~ ∅100mm
Load Adjustment Range	0 - 1000 g
Compatible Sample Thickness	1/2 inch to 4 inches

Compliance & Standards

Supported Standards	ISO 4586-2, ASTM C217, DIN 53 799, DIN 68 861-4, GB/T 17657-1999, JIS K6902, UNI 9428, AS/NZS 2924.2
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Key Features

Testing Capabilities

- Shear resistance evaluation
- Scratch and planing testing
- Engraving property analysis
- Protective coating adhesive quality assessment

Available Cutting Tools

Tungsten Carbide • Conical Drill