

Oscillation Abrasion Tester for Material Wear Resistance

This tester is designed to evaluate the transparency of materials and coatings on surfaces like glass and lenses. It is also used to assess the abrasion resistance of materials, including organic coatings, plastics, and metals.



Product Overview

Oscillation Abrasion Testing

The Oscillation Abrasion Tester is a professional-grade instrument engineered to evaluate the wear resistance and durability of transparent materials, coatings, and various substrates. By simulating daily wear through the controlled reciprocating movement of abrasive media, it provides critical data for quality control and material research. The system supports versatile testing configurations, including liquid slurry and sand-based abrasion, to accommodate diverse industrial applications.

Technical Parameters

Oscillation Speed

100 rpm

Minimum Speed

200 rpm

Maximum Speed

Stroke Length Range

0.25 to 6 inches

Supported Abrasive Media

Quartz Sand, Alumina, Emery, Glass Beads, Liquid Slurry

Operational Details

Key Testing Applications

- Bayer test for lenses
- Transparency degradation analysis
- Abrasion resistance of organic coatings
- Wear resistance of plastics and metals
- Corrosion and slurry wear testing

Maximum Sample Surface Exposure

1 mm

Compliance

Quality Certifications

CE • ISO 9001:2000 • SGS