

# Oscillatory Abrasion and Wear Tester

This oscillatory wear meter tests the transparency of materials and coatings on glass and lenses. It evaluates the abrasion resistance of organic coatings, plastics, metals, and other materials.



## Overview

### Oscillatory Abrasion and Wear Tester

This precision instrument is specifically engineered to evaluate the abrasion resistance and wear properties of transparent materials, organic coatings, metals, and plastics. By utilizing a reciprocating sand table mechanism, it simulates real-world wear and tear through random scratch patterns. The system offers high versatility, supporting multiple abrasive media types and adjustable parameters for customized testing protocols.

## Technical Specifications

### Oscillation Speed

**100 rpm**

Minimum Speed

**200 rpm**

Maximum Speed

### Stroke Length Options

- 1 inch
- 2 inches
- 3 inches
- 4 inches

## Standards & Compliance

### Compliant Standards

ASTM F735, ARCA AR-C STP 5.2.5 (Bayer Wear Test)

## Testing Capabilities

### Primary Applications

- Transparency testing for glass and lenses
- Abrasion resistance of organic coatings
- Metal wear evaluation
- Bayer test for ophthalmic lenses
- Liquid slurry corrosion/wear testing

### Supported Abrasive Media

Quartz sand, Alumina, Emery, Glass beads