

Dry Sand Rubber Wheel Abrasion Tester

This tester determines abrasion resistance of materials. It uses sliding friction to evaluate engineering plastics, powder metallurgy, and alloy bearings under specified conditions according to ASTM G65-04.



Product Overview

ASTM G65 Compliance

This Dry Sand Rubber Wheel Abrasion Tester is designed strictly according to the ASTM G65-04 standard. It provides a precise method for evaluating the wear resistance of engineering plastics, powder metallurgy, alloy bearings, and other materials by simulating sliding friction under controlled conditions. The system features a robust two-part design, separating the mechanical host from the digital control system to ensure accurate measurement and repeatable results.

Technical Parameters

Power Requirements

380 V

Input Voltage

2.2 kW

Input Power

Maximum Test Force	200 N
Spindle Speed Range	10 - 200 r/min
Sand Flow Rate	10 - 500 g/min
Temperature Measurement Range	Room temperature - 200 °C

System Features

Core Capabilities

- Two-part design (Host and Control System)
- Adjustable loading, speed, and time parameters
- High-precision spindle with bearing support
- LCD display for speed and time monitoring
- Automatic alarm and shutdown protection
- Real-time sample temperature monitoring

Certifications

ASTM G65-04 • CE • ISO 9001:2000

Operational Details

Loading System Weights

Weight Increment	Quantity
1N, 2N, 5N, 10N, 20N, 50N	Six discrete weights for 1-200N loading