

# Filter Material Testing Machine

This filter material testing machine optimizes and develops filter materials, ensuring quality assurance during production. It tests filter materials according to international standards, focusing on dust capacity and filtration efficiency relative to pressure difference and particle size.



## ADDITIONAL IMAGES



## Overview

### Comprehensive Filter Material Analysis

This advanced test bench is designed to optimize and develop filter materials while ensuring rigorous quality assurance throughout the production process. It provides a compact, laboratory-ready solution that evaluates critical properties like dust capacity, filtration efficiency, and pressure resistance. By utilizing standardized testing protocols, the system delivers reliable data for research, development, and industrial quality control.

## Key Features

### Testing Capabilities

- Dust capacity testing across wide concentration ranges
- Grading and counting filter efficiency analysis
- Weight-based filtration efficiency measurement
- Differential pressure vs. flow rate evaluation
- Pulse cleaning performance and aging tests

### Supported Standards

EN 779, ISO 11155-1, ISO 11057, VDI 3926, ISO 5011, DIN 71460

## Technical Specifications

### Particle Size Measurement Range

**0.2  $\mu$ m**

Minimum Size

**40  $\mu$ m**

Maximum Size

### Tube Material

1.4301 Stainless Steel

### Test Pipe Diameter

100 mm

## System Integration

### Software Capabilities

- Automated experimental testing per standards
- Real-time data acquisition and recording
- Manual control and calibration management
- Maintenance scheduling prompts

### Utility Requirements

Single-phase power • Compressed air