

# Multi-Pass Performance Testing Stand

This testing stand automatically acquires the main performance parameters. It provides a controlled environment for simulating real-world conditions and assessing the performance of materials, components, or systems under different parameters.



## Overview

### Advanced Multi-Pass Performance Testing Stand

This high-precision testing stand is engineered for evaluating the filtration performance of fuel, oil, and hydraulic filters. It features automated control systems for real-time monitoring of pressure, flow, and temperature, ensuring accurate data acquisition during experiments. Designed for versatility, the system supports comprehensive testing including filtration efficiency, impurity storage capacity, and flow pressure drop characteristics, making it an ideal solution for R&D and quality control laboratories.

## Testing Standards

### Supported Standards

ISO 19438-2007 (Diesel/Petrol), ISO 19438-2007 (Lubricating Oil), ISO 16889-2008 (Hydraulic)

## Technical Specifications

### Flow Rate Capabilities

**300 L/min**  
Max Test Flow

**300 ml/min**  
Max Sewage Injection

**40 °C**  
Test Temperature

### Flow Range Breakdown

Flow Section	Range
Small Flow	1L/min - 6L/min
Medium Flow	6L/min - 40L/min
Large Flow	40L/min - 300L/min

## System Features

### Core Functionalities

- Automatic test parameter acquisition
- Real-time monitoring of pressure, flow, and temperature
- Automated test report generation and printing
- Integrated alarm and safety prompt system
- Online dilution system (1:5 ~ 1:10 ratio)
- Dual-channel online particle counting

### Construction Materials

Aluminum Alloy Shell • Stainless Steel Panel • Seamless Stainless Steel Piping