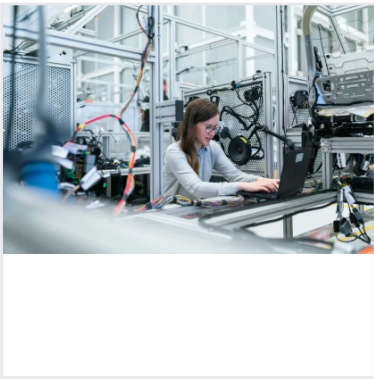


leak detection machine

Internal Product ID: ENFT-FMM-069



Unit of Measurement	Piece
Brand	ENFT
Place of Origin	China
Certification	Manufactured Under Strict Quality Control
Min. Order Qty	15
Supply Ability	100 Sets/Month
Delivery Time	45 Days After Receipt of Advance Payment

Overview

Leak detection machine matching with filter OEM.

Description

Leak Detection Machine for Automotive Filters | High-Precision Leak Testing Equipment

A Leak Detection Machine is a specialized testing system designed to verify the sealing performance and air-tightness of automotive filters before they leave the production line. It helps manufacturers detect leaks in air, oil, and fuel filters, ensuring every finished product meets OEM quality requirements. At ENFT, our leak detection machine is engineered to match filter OEM specifications, providing fast, accurate, and repeatable leak testing that reduces defective products, improves production efficiency, and enhances customer confidence. Whether you operate a new filter manufacturing plant or upgrade an existing production line, this equipment plays a critical role in maintaining product quality and meeting international manufacturing standards.

Product Description

What Is a Leak Detection Machine?

A Leak Detection Machine is an essential quality control system used during automotive filter manufacturing to inspect whether finished filters are completely sealed. Even a small leak can reduce filtration efficiency, shorten service life, and lead to product failure. This machine automatically detects leakage before products are packaged or shipped, helping manufacturers maintain consistent quality and comply with OEM production standards.

For companies producing air filters, oil filters, or fuel filters, leak testing has become a mandatory step in modern production lines. By identifying defective products before they reach customers, manufacturers reduce warranty claims, improve brand reputation, and increase customer satisfaction.

Why Is It Used?

The primary purpose of a leak detection machine is to verify that every filter leaving the production line is free from leaks and capable of performing under real operating conditions.

It enables manufacturers to:

- Detect defective filters before packaging.
- Improve product consistency.
- Meet OEM quality requirements.
- Reduce production waste.
- Increase customer trust.
- Maintain international quality standards.

Instead of relying on manual inspection, automated leak testing delivers higher accuracy, repeatability, and production efficiency.

Who Is This Machine Suitable For?

The ENFT leak testing equipment is suitable for:

- Automotive air filter manufacturers.
- Oil filter production plants.
- Fuel filter manufacturers.
- OEM automotive parts suppliers.
- Aftermarket filter manufacturers.
- Quality control laboratories.
- New filter production line investors.
- Existing factories upgrading their inspection

leak detection machine

process.

How Does the Machine Work?

The machine to detect water leaks performs a controlled pressure test on each filter. Once the filter is positioned in the testing fixture, the system applies pressure and monitors pressure stability over a defined period. Any pressure loss beyond the acceptable tolerance indicates leakage, allowing defective filters to be automatically identified before packaging.

The entire process is designed to deliver fast, reliable, and repeatable testing while maintaining high production efficiency.

What Makes ENFT Leak Detection Machine Different?

Unlike conventional inspection methods, the ENFT machine to find water leaks combines precision, reliability, and compatibility with OEM filter standards.

Its key advantages include:

- High-accuracy leak detection.
- Stable testing performance.
- Fast inspection cycle.
- Easy integration into filter production lines.
- Compatibility with OEM filter specifications.
- Reduced product rejection after shipment.
- Lower manufacturing costs through early defect detection.
- Improved factory quality management.

When Should You Invest in a Leak Detection Machine?

A leak detection machine system becomes essential when:

- Your factory is increasing production capacity.
- You need to improve product quality.
- Your customers require OEM-standard inspection.
- You plan to export automotive filters.
- You want to reduce defective products.
- You are establishing a new automotive filter manufacturing plant.
- You aim to automate quality inspection.

For manufacturers focused on long-term growth, investing in leak testing equipment delivers measurable improvements in production efficiency and customer satisfaction.

Technical Specifications

Specification	Details
Product Name	Leak Detection Machine
Application	Automotive Filter Leak Testing
Compatible Products	Air Filters, Oil Filters, Fuel Filters
OEM Compatibility	Match with Filter OEM
Machine Weight	60 kg
Volume	0.1 CBM
Testing Function	Leak Detection & Quality Inspection
Inspection Type	Automatic Leak Testing
Production Integration	Suitable for Filter Manufacturing Lines
Manufacturer	ENFT

Key Features

- High-precision leak detection.
- Designed to match OEM filter specifications.
- Compact and space-saving design.
- Stable inspection performance.
- Easy operation.
- Fast testing cycle.
- Reliable quality

leak detection machine

verification.

- Reduces defective products.
- Supports continuous production.
- Suitable for multiple automotive filter types.
- Durable industrial construction.
- Low maintenance requirements.

Benefits

Using the ENFT Leak Detection Machine helps manufacturers achieve significant operational improvements.

Benefit	Value
Improve Product Quality	Detect leaks before shipment
Reduce Production Waste	Eliminate defective filters early
Increase Customer Satisfaction	Deliver reliable products
Meet OEM Standards	Consistent inspection results
Lower Warranty Costs	Reduce field failures
Improve Factory Efficiency	Faster quality control process
Protect Brand Reputation	Maintain consistent product performance
Support Export Requirements	Better compliance with international quality expectations

Example

A filter manufacturer producing thousands of filters per day can use the Leak Detection Machine to identify defective units before packaging, preventing faulty products from reaching customers and significantly reducing costly returns.

Applications

The Leak Detection Machine is widely used in:

- Automotive air filter production.
- Oil filter manufacturing.
- Fuel filter manufacturing.
- OEM filter production.
- Aftermarket filter factories.
- Quality control departments.
- End-of-line inspection stations.
- Automated production lines.
- New automotive filter factories.
- Export-oriented manufacturing facilities.

Operating Process

Step 1

Place the finished filter into the testing fixture.

Step 2

Secure the filter according to the machine setup.

Step 3

Start the automatic leak testing cycle.

Step 4

The system applies controlled pressure and measures sealing performance.

Step 5

The machine analyzes pressure stability.

Step 6

Pass or Fail results are displayed immediately.

Step 7

Approved filters proceed to packaging while defective filters are removed from production.

Request a Free Quote Today

Improve your automotive filter quality with the ENFT Leak Detection Machine. Contact our engineering team today to receive a customized quotation, technical consultation, and expert recommendations tailored to your filter production requirements. Whether you are launching a new factory or upgrading an existing production line, ENFT is ready to help you build a more efficient, reliable, and high-quality manufacturing process.

☐ Contact ENFT now and get a customized solution for your filter production line.

Frequently Asked Questions

1. What does a Leak Detection Machine test?

It tests the sealing integrity of automotive air filters, oil filters, and fuel filters by detecting leaks before products leave the production line.

2. Is this machine compatible with OEM filter specifications?

Yes. The machine is designed to match OEM filter requirements, ensuring accurate and reliable quality

leak detection machine

inspection.

3. Which industries use a Leak Detection Machine?

It is primarily used by automotive filter manufacturers, OEM suppliers, aftermarket filter factories, and quality control departments.

4. How does leak testing improve manufacturing quality?

Leak testing identifies defective filters before packaging, reducing waste, preventing customer complaints, and improving overall product consistency.

5. Why should manufacturers choose the ENFT Leak Detection Machine?

Because it offers accurate leak detection, OEM compatibility, compact design, reliable inspection performance, and seamless integration into modern automotive filter production lines, helping manufacturers produce high-quality filters with greater efficiency.