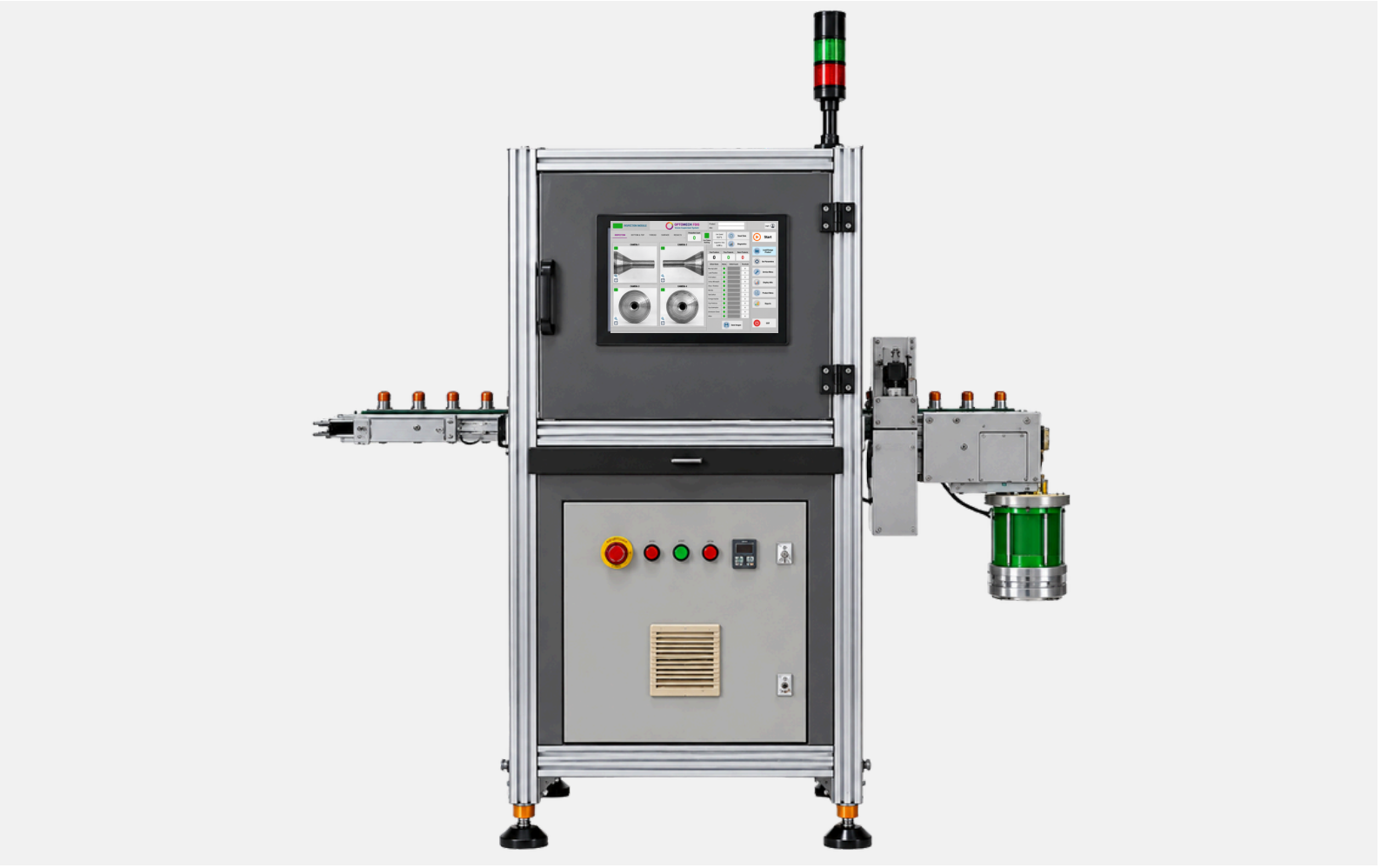
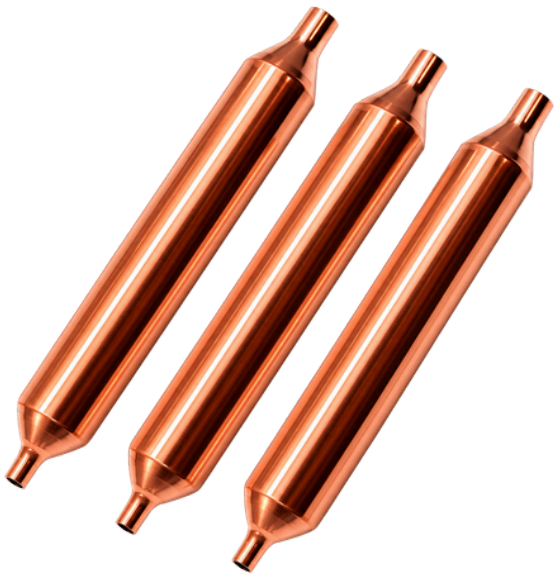
OPTOMECH
Your Quality Our Vision

FDIS

Filter Drier Inspection System





FDIS is a fully automatic system for detecting defects of the filter driers

Advantages & Specifications

Advantages

- **100% Automated Inspection –** Every part is inspected automatically with no manual sampling.
- **High-Accuracy Measurement –** Telecentric optics provide accurate measurement with up to ±0.010 mm accuracy.
- **Burr Detection –** Vision-based inspection detects fine burrs on Cap and Condenser ends.
- **Secure Part Handling –** Custom conveyor and holding fixtures ensure consistent part positioning.
- **60 PPM Production Speed –** Designed to match the required production rate without compromising inspection.
- **Optomech FDIS Software –** User-friendly software with recipe management, parameter setting and automatic OK/NG decisions.
- **Complete Data Traceability –** Inspection results are recorded with measured values and timestamps.
- **Proven Vision Platform –** Based on Optomech's established automated inspection technology.
- **Single-Supplier Solution –** Complete solution from optics, cameras and conveyor to software, panel, installation and commissioning.

Specifications

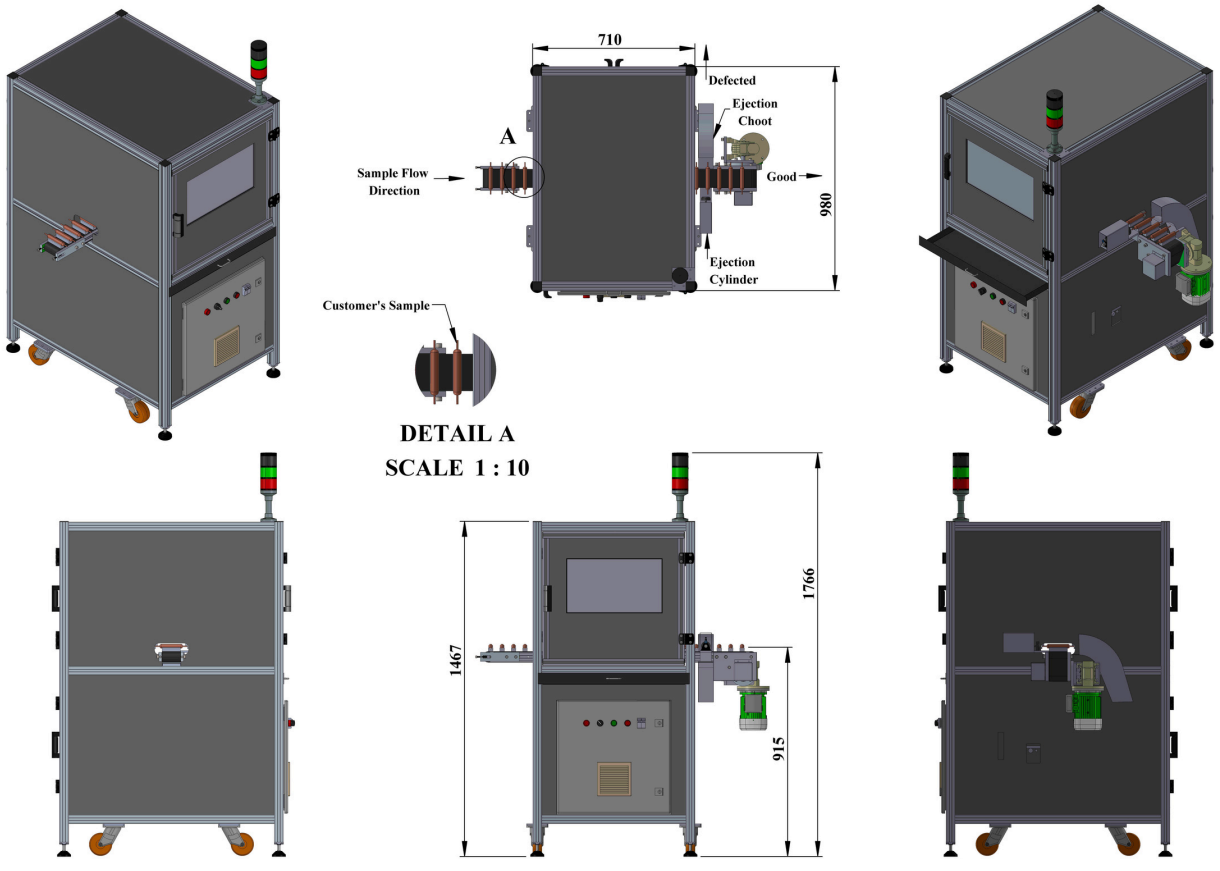
Model	Filter Drier Inspection System
Inspection Throughput	Up to 70 parts per minute
Number of Cameras	4 (High-Resolution Industrial Cameras)
Lens Type	Telecentric Lenses — precision grade, distortion-free imaging
Part Loading	Manual loading — horizontal orientation, 1 part at a time
Conveyor	Belt conveyor with custom part-holding cradles / holders
Defect Rejection	Pneumatic cylinder ejection of NG parts into dedicated reject bin
Good Part Collection	Dedicated collection bin downstream of ejection zone
Display	19-inch FHD Industrial Monitor — live view + measurement results
Industrial PC	Dell OptiPlex PC, Windows 11 Pro
Inspection Software	Optomech FDIS Software — recipe management, tolerance settings, data logging.
Power Supply	220V AC, 50 Hz, Single Phase
Compressed Air Required	6 bar, clean and dry
Enclosure	Fully enclosed — ambient light rejection, dust and vibration protection
Status Indication	3-tier tower light: Green (OK) / Amber (Warning) / Red (Fault)

Software Features & Machine Layout

Software Features

- **Recipe-based inspection:** Multiple Drier Filter variants can be stored, named, and recalled instantly by the operator.
- **Per-dimension tolerance setting:** Upper and lower limits for each of the 6+ dimensions can be set independently through an intuitive GUI.
- **Live multi-camera view:** Real-time display of all 4 camera feeds simultaneously with measurement overlays and pass/fail highlights.
- **OK/NG decision engine:** Automatic real-time accept/reject decision based on all active inspection parameters.
- **Production counters:** Total parts inspected, OK count, NG count, and pass rate — updated every cycle.
- **Inspection data logging:** Timestamped records of every part's measured value for traceability and SPC analysis.
- **Defect category logging:** Logs which specific parameter(s) caused each rejection for process feedback.
- **User access control:** Operator / Supervisor / Admin levels with password protection to prevent unauthorized parameter changes.
- **Alarm management:** Visual and audio alerts for system faults, high NG rates, and maintenance events.

Machine Layout



Machine: DFMS-Drier Filter Measuring System

Note: All Dimensions are in mm



Optomech Engineers Pvt. Ltd. was founded in Hyderabad, India in the year 1981.

Optomech has over 45 years of experience of manufacturing, servicing and marketing of products involving vision technology for quality inspection.

We are closely orientated towards the needs of the market. We are one of the leading providers of vision technologies for quality inspection. Renowned companies place their trust in the solutions and services provided by Optomech.

For us at Optomech, 'Professional After-Sales Service' is not just a simple catch phrase; it is our company philosophy. We accompany you all the way from the initial consultation up to final installation and training – and beyond.

You will benefit from our many years of experience and will be able to deal with the challenges encountered when implementing the new technology.

Quick Measuring Machine



Video Measuring Machine



Bottle Inspection System



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We reserve the right to modify the product specifications, in the interest of product development