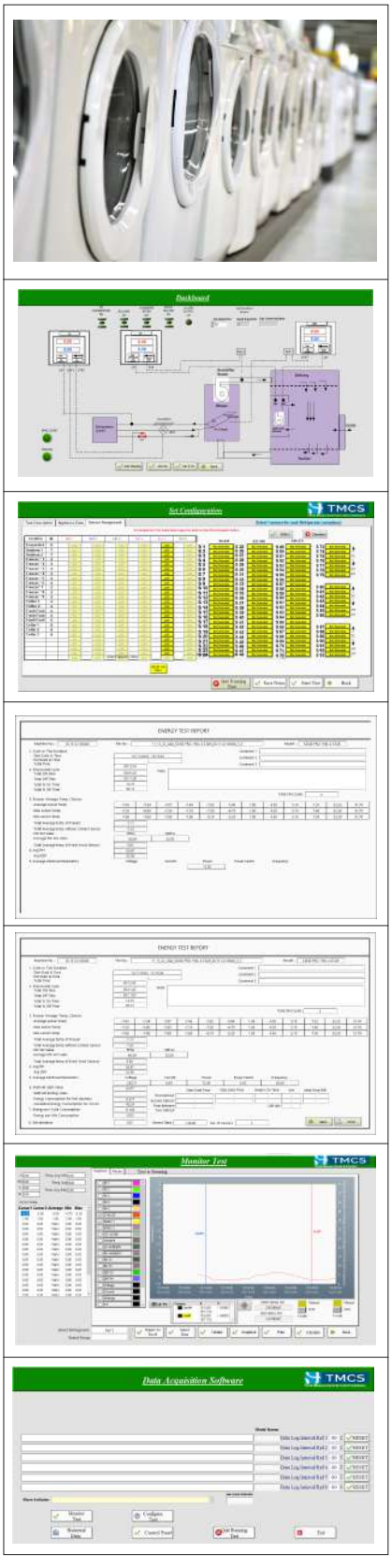
WASHING MACHINE TEST SYSTEM

The washing machine test system is designed to streamline quality checks across the assembly line. With real-time monitoring, data logging and fault detection, it ensures faster, error-free testing for enhanced product reliability and compliance.



Key Highlights

- End-to-end Automated Testing System integrated into the assembly line
- 30 Testing Stations with real-time data acquisition and control
- Traceability with Barcode-Driven Identification at every stage
- LabVIEW-PLC integration for live monitoring, analysis & reporting
- Alarms for component mismatches, missing parts & rework loops
- Enables Smart Manufacturing & Industry 4.0 Integration

Customer Benefits

- 10% Reduction in TCR (Technical Call Rate)
- 5% Reduction in Rejection Ratio
- 30% Faster Test Execution via automation
- Reduced Human Dependency = Lower Error Rates
- Audit-ready reports with complete test & rework traceability

Tests Conducted

- Energy Efficiency Test
- Noise & Vibration Analysis
- Frequency Test
- High Voltage (HV) Test – Current & Voltage
- IR & Leakage Current Test
- Water Filling & Leakage Test
- Short Cycle Run Test
- Vacuum Cleaning Check
- Auto Panel Functionality Test

System Features

- Barcode-based Variant Identification & Logging
- PLC-Controlled Test Benches
- LabVIEW-powered Data Processing & Visualization
- Sensor Integration: RTD, Energy Meters, DAQ Modules
- Error Handling for Connectivity & Component Placement
- Rework Routing with Cause Logging & Resolution Tagging
- Report Generation & Batch-Wise Analysis

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