VYTURR

OrbiIQ

Total Process Control & Traceability

In the relentless arena of manufacturing, navigating without full visibility is a risk no enterprise can afford. Total Process Control & Traceability System serves as your strategic ally, empowering you with a comprehensive view through systems like MES (Manufacturing Execution Systems). It enables meticulous monitoring of every critical stage in the production process—from the source of raw materials to the intricate interactions with suppliers, the operational dynamics of machines, the meticulous efforts of operators, the precise timing of processes, the identification of batch numbers, and the stringent quality checks.

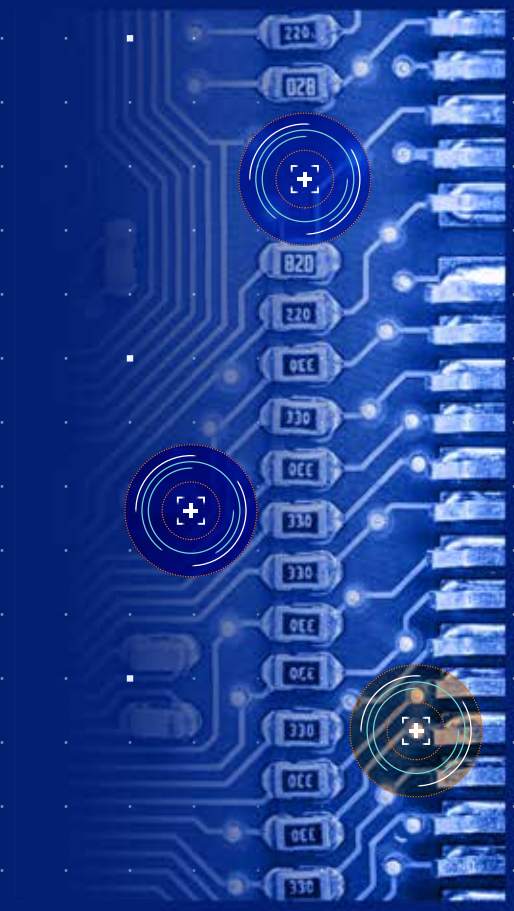
Lacking this essential visibility, manufacturing ventures into risky territory, akin to a blindfolded walk across a tightrope where unforeseen setbacks are poised to strike. Total Process Control & Traceability System transcends being a mere feature; it is an indispensable tool—a guiding light that ensures each step in your production chain is executed with utmost precision and excellence, safeguarding your operations against potential pitfalls.

60-70% reduction in investigation time thanks to the choreographed data from traceable processes

90% faster identification of affected components during recalls, a backstage efficiency that keeps the show going smoothly

upto **75%** reduction in time to resolve quality issues with companies employing MES systems

The OrbilQ suite delivers advanced WMS, Process Control, Traceability, and Asset Lifecycle Management solutions enhanced by AI to optimize manufacturing and warehousing operations. Each module works independently or as part of an integrated plug-and-play system, offering flexible deployment to suit diverse business needs.



A Total Process Control & Traceability System suite is not just about keeping track of products; it's about enhancing operational efficiency, ensuring compliance, and safeguarding both business interests and customer trust. This is the future of safeguarding customer interest—intelligent, responsive, and secure.

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Problems & Consequences

Quality Control
Poor defect tracking and delayed root cause analysis

Compliance
Regulatory penalties, audit failures

High setup time / model changeover time
New product setup and model Change over time adversely impacts timelines

Customer Trust
Loss of brand credibility and sales

Operational Efficiency
Longer downtime, poor batch-level visibility

Cost
High recall costs, waste of raw materials

In this digital age, Vyturr's Total Process Control & Traceability System suite is the thread that binds OEMs and customers to manufacturers, crafting a fabric of trust that is both resilient and responsive to the demands of modern commerce.

A Clear Edge

with AI-Integrated features within Vyturr's Total Process Control & Traceability System

Causal Analysis in Artificial Intelligence
Utilizes process data to ascertain the origins of issues, enhancing diagnostic precision.

Real-Time Anomaly Monitoring
Implements systems for immediate notification of behaviors that deviate from established specifications.

Predictive Maintenance
Employs analytical models to interpret usage patterns, facilitating the prediction and prevention of equipment failures.

Digital Twin Differential Analysis
Engages in the detection of variances from an optimal process flow while comparing with its virtual replica.

Advanced Pattern Recognition
Capable of identifying consistent quality issues and establishing correlations, optimizing quality control measures.

Automated Regulatory Compliance
Ensures real-time monitoring and validation that regulatory procedures are adhered to, enhancing compliance management.

Simulation of Recall Impact
Utilizes historical trace data modeling to confine the extent of recalls, thereby mitigating potential impacts efficiently.

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Total Process Control & Traceability

Achieve precision and compliance across every stage of your manufacturing with **Total Process Control & Traceability System.**

Every part, process, and machine is digitally connected, monitored, and verified ensuring zero deviation from standards.

Key Highlights

Machine / Operation Level Process Parameters:
Configure and validate process settings directly within machine interfaces or operator to maintain consistent quality.

Real-Time Alerts & Auto Stop:
Instantly detect anomalies, trigger alerts, and halt machines to prevent defects.

End-to-End Traceability:
Track every component, process, and operator across production lines.

Data-Driven Quality:
Capture inspection and process data at each stage for live verification.

Compliance Ready:
Built for ISO, IATF, and other quality standards.

ROI Impact

Eliminate rework and defects through automatic validation, scrap reduction

Reduce downtime with proactive deviation alerts

Improve audit readiness and compliance

Enhance operational transparency and accountability

Ensure precision in every step with digital traceability powered by Total Process Control.

Traceability High Level Overview

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Traceability

- Administrative Settings
- ERP Interface Setup
- Master Data Setup
- Production
- Real time data Visualization

ADMINISTRATIVE SETTINGS

- Organization
- Account Policy
- Designation
- Department
- User & Role Management

ERP INTERFACE

- ERP Interface Configuration
- ERP Interface Status
- SAP/Oracle etc

MASTER DATA

- Business Partner (Customer/ Supplier)
- UOM: Unit of Measurement
- Storage Area
- Packing & Paletization
- Material Master
- Project Master
- Operations Master
- Resource Management
- Smart Scan
- Sequence Master

PRODUCTION MANAGEMENT

- Production Management
- BOM
- Process Control (Manual/ Automated)
- Machine Connectivity & Control
- Production Routing
- Work Order
- Traceability

VISUAL IMPACT

- Dashboard
- Reports

Bidirectional Genealogy (FG → RM and RM → FG)

Enables full trace of finished goods back to raw materials, and vice versa.

Supports fast defect isolation, supplier accountability, and material audits.

Unit-Level Traceability

Tracks each serialized unit/component across stations, batches, and processes – not just at the lot or pallet level.

Integrated Barcode & QR-Based Tracking

Scans every movement of raw materials, WIP, and finished goods across work centers.

Real-Time Operator & Machine Data Logging

Captures operator actions, process parameters, and machine states live from the shop floor.

Ensures accountability and validation of critical process steps.

Time-Stamps & Cycle-Time Analytics

Mobile-Enabled Traceability Capture

Work Order & Batch Trace Association

Links every batch or WO to exact production events, tools used, shift schedules, and more.

AI-Assisted Root Cause Diagnosis: Reduces RCA time by 60–70%.

Digital Audit Trails

Resource Usage Traceability

Total Process Control and Digital Work Instructions

Fraud & Counterfeit Prevention

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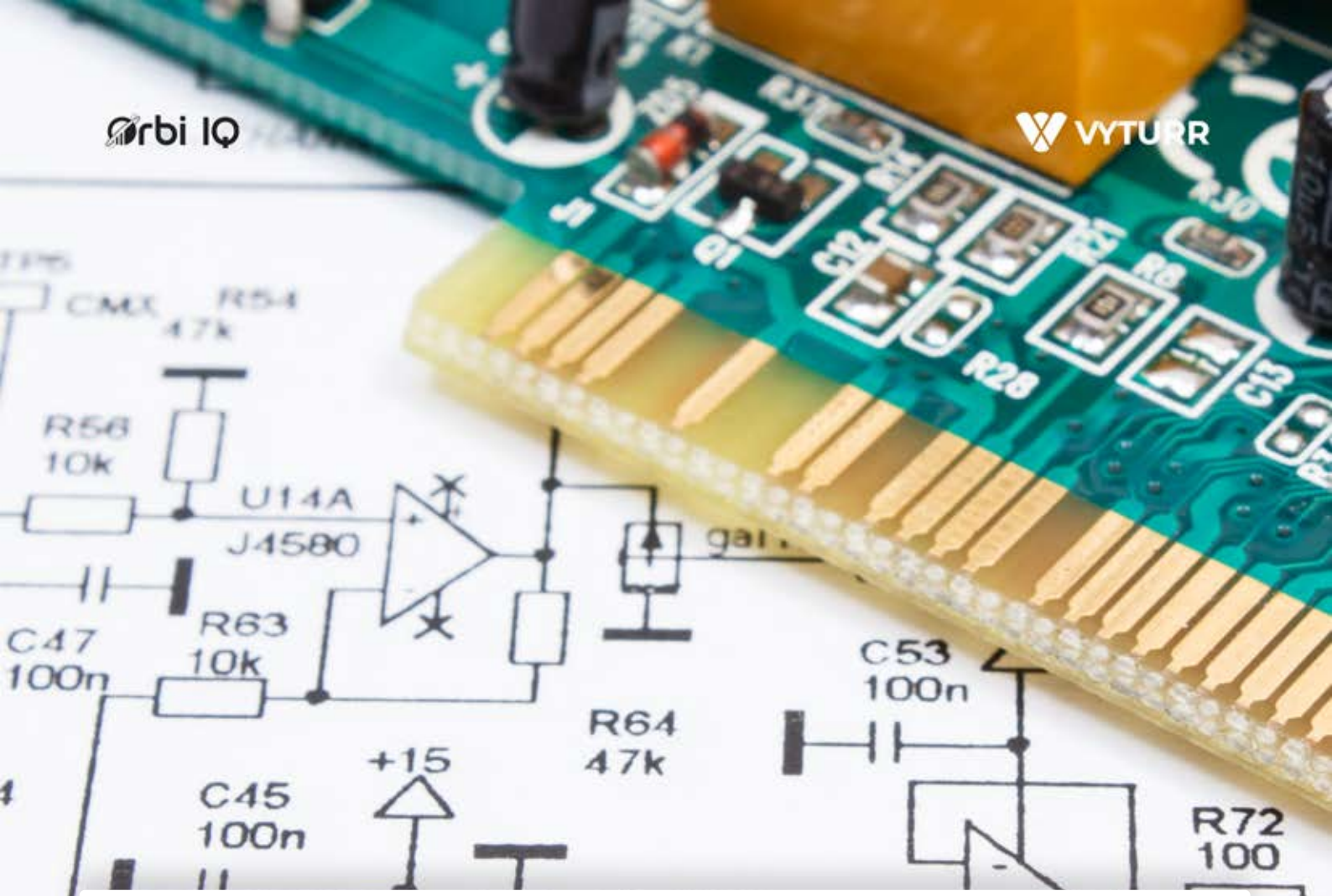

Seamless Automation

Say goodbye to manual logs and clipboard data. Our system directly pulls data from machines, displaying it instantly for real-time visibility.

Built-in ERP Modules

Don't have an ERP? No worries, we've integrated essential ERP functionalities to streamline your operations without the need for external software.

User-Friendly Mobile Interface

Our mobile-first UI is so intuitive that your warehouse and production teams can use it immediately. No training necessary.

Flexible Integrations

Our software adapts to your existing workflows; we ensure compatibility over constraints.

Rapid Deployment and Real Support

Get up and running within days, not weeks, with continuous support just a call away.

Competitive Pricing

We provide great value at a price that makes sense for your business, ensuring affordability without compromising on quality.

Choose us for a smarter, more efficient, and user-friendly approach to managing your operations.

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