

TRACKWISE[®] **MANUFACTURING** **DIGITAL** **PROCEDURES**

Transform Complex Manufacturing Operations:
with Intelligent, Recipe-Based Work Instructions



Honeywell



PHARMACEUTICAL AND BIOTECH MANUFACTURERS FACE UNPRECEDENTED COMPLEXITY IN THEIR PRODUCTION ENVIRONMENTS,

further intensified by the necessity to comply with some of the world's most rigorous regulatory standards. Traditional paper-based procedures and static digital logbooks fall short when managing intricate multi-step processes, complex decision trees, and dynamic recipe variations. Operators struggle with unclear instructions, manual data entry errors, and inconsistent execution across batches. Regulatory compliance demands precise documentation and traceability, while competitive pressure requires operational excellence and reduced cycle times. These challenges compound when managing specialty products, personalized medicines, and complex biological processes that require adaptive, intelligent guidance throughout production.

SOLUTION OVERVIEW

TrackWise Manufacturing Digital Procedures delivers advanced functionality specifically designed for recipe-based work instructions that demand sophisticated logic and decision-making capabilities. Unlike basic logbooks, this solution provides dynamic, workflows that adapt in real-time based on process conditions, recipe parameters, operator inputs, better enabling operators to work from the right version, at the right step and that mandatory sign-offs are captured in real-time.

The platform transforms static procedures into interactive, guided experiences that incorporate conditional logic, automated calculations, equipment integration, and real-time decision support. Digital Procedures enforce data entry at the source, automate range checks, and flag anomalies before batches progress, significantly reducing the cost of quality failures with built-in quality checks and automatic documentation generation that supports regulatory compliance while optimizing manufacturing efficiency.



KEY FEATURES



Conditional Logic Engine:

Advanced branching workflows that automatically adapt procedures based on real-time process conditions, recipe parameters, and operator decisions.



Recipe Integration:

Seamless connection with formulation management systems to dynamically populate procedures with batch-specific parameters, quantities, and specifications to support S-88 Standards.



Equipment Connectivity:

Direct integration with process equipment, analyzers, and control systems for automated data collection and real-time parameter verification.



Dynamic Calculations:

Built-in computational engine that performs complex calculations, adjustments, and conversions automatically based on recipe requirements and process conditions.



Smart Quality Checks:

Built-in systems that guide operators through critical quality control points with automated pass/fail determinations and exception handling.

KEY BENEFITS



Eliminate Manufacturing Errors:

Reduce human error through guided procedures, automated calculations, and real-time validation checks that prevent costly batch failures.



Accelerate Regulatory Compliance:

Better enable audit readiness with automatic documentation generation, complete batch genealogy, and built-in 21 CFR Part 11 support.



Improves Production Flexibility:

Rapidly deploy new products and recipe variations without lengthy procedure rewrites, reducing time-to-market.



Optimize Operator Efficiency:

Reduce training time and improve productivity with intuitive, self-guided procedures that adapt to operator experience levels and process complexity.



Enhance Process Consistency:

Achieve batch-to-batch reproducibility through standardized execution paths and automated parameter control, improving overall product quality.

CONCLUSION

The TrackWise Manufacturing Digital Procedures solution represents the next evolution in manufacturing execution, moving beyond simple data collection to guided processes. By combining recipe-based logic with real-time adaptability, pharmaceutical and biotech manufacturers can achieve the operational excellence and regulatory compliance required in today's demanding market environment. Transform your manufacturing operations from reactive to predictive, from manual to digital, and from compliant to competitive advantage.

TrackWise Manufacturing represents the next generation of manufacturing operations management, purpose-built for the unique challenges of pharmaceutical and biotech production. Transform your manufacturing operations today and discover how TrackWise Manufacturing can accelerate your digital transformation journey while reducing complexity and cost.

For more information

To learn more, visit
www.trackwise.com

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