

Automating Application Testing for the Manufacturing Industry with **UiPath Test Suite**

UiPath has made it easier than ever for organizations in the manufacturing industry to fully maximize their enterprise automation capabilities. Building on its status as a leader in process automation for manufacturing, UiPath consistently looks for ways to help manufacturing customers transform their operations through automation—including automating the testing process with UiPath Test Suite.

In the manufacturing industry, IT teams spend an average of 30% to 40% of their budgets on testing, according to reports by the National Institute of Standards and Technology (NIST). Additionally, over 80% of testing efforts are devoted to manual testing, which can be time-consuming and error-prone. While manufacturers recognize the benefits of test automation, legacy testing solutions can be difficult to automate. Plus, many automated testing tools have a low ROI because teams don't use them post-implementation.

Enter UiPath Test Suite, the resilient testing solution powered by the UiPath Business Automation Platform. UiPath Test Suite can help manufacturing organizations deliver high-quality and secure products through automation-led testing. With the end-to-end UiPath Business Automation Platform, manufacturers can ensure that their applications follow regulations and accurately process production data. UiPath customers have reduced test cycles by as much as 50%, improved automated test coverage by two to three times, and reduced overhead costs by up to 30%. The UiPath Platform is also purpose-built for enterprise automation, featuring reusable component libraries that organizations can share across test, IT, and business process automation teams.

An easy-to-learn, low-code approach empowers testers to create their own test automations, which frees up application developers for other mission-critical work. UiPath Test Suite also integrates seamlessly with your existing testing tool landscape and can interact with any type of application. These capabilities allow you to test full-scale, end-to-end processes across legacy applications, desktop applications, and modern browser applications. With UiPath Test Suite, the manufacturing industry can accelerate automation initiatives, enhance product quality, and meet the stringent demands of regulatory compliance.



After 20+ years, the time has come to stop paying the testing tax

30-40%

of a typical manufacturing IT budget is allocated to application testing

80%

of testing efforts are devoted to manual testing in the manufacturing industry

\$1.8 billion

total cost of inadequate software testing practices in the manufacturing industry

What makes UiPath different?



A comprehensive and integrated approach for cloud migration

As the manufacturing sector rapidly transitions from on-premises legacy applications to cloud-based solutions, the UiPath Platform provides a seamless migration path for a wide range of applications, including critical enterprise resource planning (ERP) systems.

Manufacturers leveraging UiPath have experienced reduced migration timelines, minimized downtime, and streamlined workflows while validating the functionality of ERP systems in the cloud environment. UiPath Test Suite enables manufacturing companies to test their ERP systems during migration with a single, incredibly user-friendly workflow designer. This designer requires no programming skills, simplifying the effective testing of systems like SAP, Oracle, Laserfiche, QAD, and more. With UiPath Test Suite, manufacturers can comprehensively test a wide range of applications, both complex and real-time, by leveraging native integrations, API consumption, and user interface (UI) automation capabilities.



190+ supported technologies: modern and legacy

UiPath offers exceptional versatility in testing various manufacturing applications. By combining native integrations with flexible API consumption and industry-leading UI automation capabilities, UiPath Test Suite can test a virtually limitless set of target applications. This adaptability allows for seamless automation and testing of both modern and legacy systems, ensuring smooth interactions across the manufacturing ecosystem.

Moreover, UiPath excels in end-to-end testing, validating critical process interconnections between ERP systems, manufacturing execution systems (MES), and other applications. It helps ensure data consistency, accurate material handling, and efficient order fulfillment throughout the manufacturing value chain. Manufacturers can confidently navigate complexities, achieve seamless software integration, and maintain high-quality standards and operational efficiency. Comprehensive testing capabilities through UiPath empower manufacturers to stay ahead in the competitive manufacturing landscape.



Robust AI Vision capabilities for industrial modeling and automation software

UiPath Test Suite leverages advanced image recognition and AI machine learning technologies to streamline and automate functional, integration, and regression testing across industrial applications. These applications include computer-aided design software (CAD), supervisory control and data acquisition software (SCADA), and many other human-machine interfaces (HMIs), product lifecycle management software (PLMs), and manufacturing execution systems (MESs). UiPath uses its AI Computer Vision to handle complex and non-uniformly shaped objects that appear across many manufacturing software applications.



Synthetic test data generation mimicking real-world scenarios without disrupting actual production processes

By using advanced automation technologies, UiPath Test Suite extracts and loads data from various sources and transforms it into test environments that mimic real-world environments, even those containing sensitive data. Through UiPath data-driven testing capabilities, test robots can dynamically consume this data and test multiple scenarios at scale, reducing errors and saving time. With this powerful solution, manufacturing organizations can improve testing efficiency and ensure compliance with industry regulations.



Maximizing efficiency with minimal resources

UiPath is an efficient tool with a user-friendly interface for simple application automation and testing in the industrial sector. Users can take advantage of the platform's full potential with the help of the UiPath Academy's thorough and free training. The UiPath Community Forum acts as a focal point for assistance, idea exchange, and teamwork on solutions, all of which increase productivity. Additionally, prebuilt automation components and UiPath Solution Accelerators are available in the UiPath Marketplace and can be quickly integrated into workflows to speed up operations and boost productivity. UiPath maximizes productivity while consuming the least number of resources in the manufacturing industry.

UiPath Test Suite is part of a converged automation platform



UiPath Business Automation Platform



Your Processes

Your Applications
Systems of record – ERP, CRM, HCM | Communications and Collaboration | Personal Productivity

Your People



AUTODESK
AutoCAD



TEAMCENTER

Mastercam



3-5x

Automation Development

90%

Automation Rates

3x

Release Speed

70%

Component Reuse

30-40%

Cost Reduction



For more details, please visit us at:

<https://www.uipath.com/solutions/industry/manufacturing-automation>

UiPath The Foundation of Innovation™