



WIP Manager 1.0 from GE Digital

Instant visibility of all Work in Process (WIP) for heavy industrial manufacturing

Manage WIP today, predict WIP tomorrow

WIP Manager from GE Digital, part of our Brilliant Manufacturing suite, provides plant-floor visibility of all work in process for heavy industrial customers challenged to lower working capital and increase schedule adherence in days, not months.

Built on Predix, the operating system for the Industrial Internet, WIP Manager is designed for complex discrete manufacturing environments, taking your manufacturing to the next level. It manages your work in process—helping you accelerate your competitiveness.

Developed and honed within GE’s manufacturing businesses, WIP Manager incorporates our manufacturing best practices and high-performance technologies, and years of operational intelligence expertise. The solution is adaptable to multiple manufacturing environments—ranging from the production of long-cycle, complex products engineered to order to discrete products being configured to order.

Outcomes

- Save time by knowing where orders are in the plant without walking the shop floor
- Reduce WIP by knowing when orders will be processed by work centers
- Lower indirect labor costs by coordinating material movement and increasing schedule adherence
- Reduce clutter of shop floor by materials waiting for future orders, operate more “in the now”
- Reduce plant floor “starve time” due to lack of materials required for a process step

01 Increase material visibility

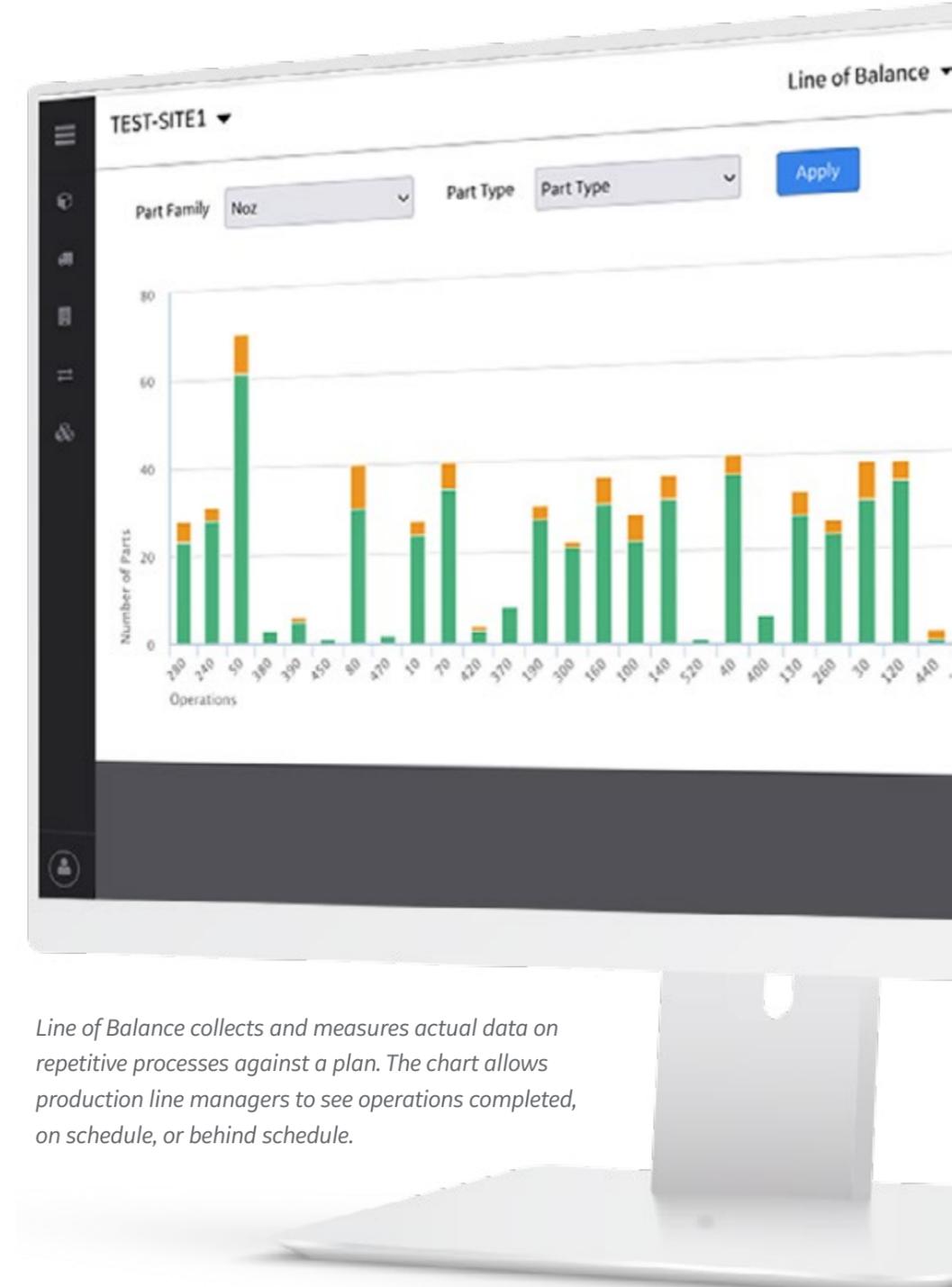
The WIP Manager application provides visibility, analysis, and intelligence on all work that is in process on the shop floor. It tracks production and service processes through work orders, which are created in your enterprise resource planning (ERP) system, and matches them to an operational route through the shop floor, which is imported from your manufacturing execution system (MES). Once the work order is created and the required materials are available, work center operators can begin the operations listed on the work order to build or repair the specified parts.

02 Ensure the right material at the right time and at the right place

Depending on the parts being produced or repaired, the operations on a work order follow a specific path (called a route) through the factory. Using other factory systems, operations are sequenced into particular routes, and this data is made available for viewing in the WIP Manager Work Order Details page. Route operations are listed sequentially for each selected part.

03 Increase or maintain manufacturing schedule adherence

Work order statuses provide at-at-glance information on whether or not your work order is proceeding through the shop floor as it should, or if a problem has arisen at some point. Work order statuses are identified based on one or more parts on the order having the most problematic status; for example, if parts are on hold, then the entire work order is identified as on hold until the status for all parts changes.



Line of Balance collects and measures actual data on repetitive processes against a plan. The chart allows production line managers to see operations completed, on schedule, or behind schedule.





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Features

WIP Visibility:

- Visualization of order queue at stations
- Visualization of working capital cost locations, including NCR queues
- Dynamic queue times for each work center

Order tracking:

- Highlighting slow or stuck orders
- ETA of orders based on progress
- Real-time material tracker with historical genealogy
- Order subscriptions (push notifications on order updates)

Material movement management:

- Simple and non-time intensive material movement data collection (RFID, barcode, manual)
- ERP integration, orders, routings

Scorecards at your fingertips:

- Work order detail
- Average queue
- Line of balance
- WIP status
- Parts progress
- Average queues by part count
- Reworks and rerouting
- Shop floor tasks
- And more

WIP Manager ingests and displays work order data from your enterprise resource planning (ERP) and manufacturing execution system (MES) and then instructs and tracks all steps in the execution.

Find out how WIP Manager can help you improve performance, meet your operational goals, and reduce shop floor inventory levels.

LEARN MORE

Hardware requirements

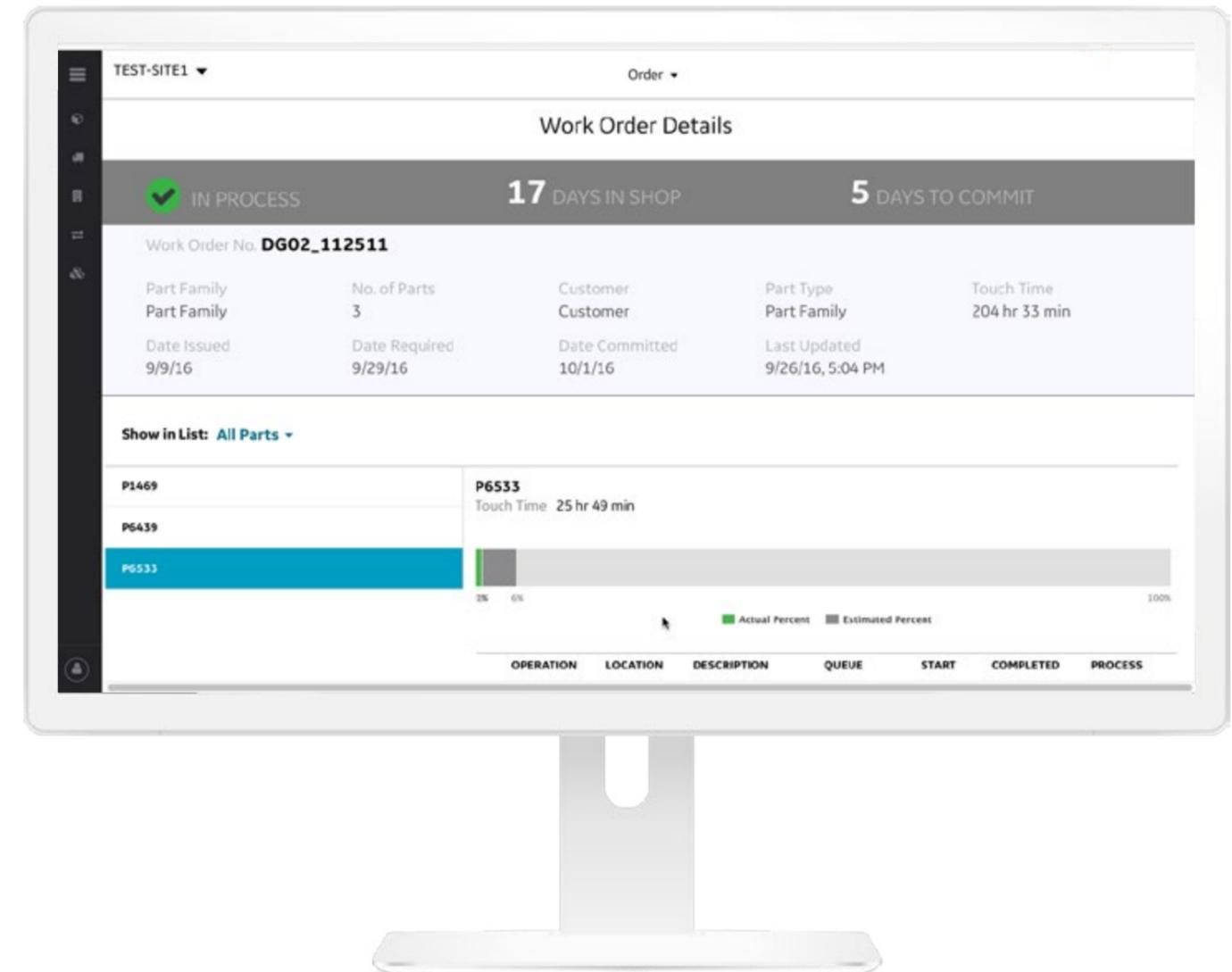
WIP Manger is a Predix-hosted solution that can be accessed through an Internet browser. No on-site hardware is required other than a small secure device called a Field Agent, which is provided by GE.

Software requirements

We recommend using one of the following browsers:

- Google Chrome
- Apple Safari (for use with iPad)
- Microsoft Edge

Hardware and software requirements are representative and may vary by customer deployment. Please consult the product documentation for more details.





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Services

In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve operational excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital has the right services offering for you.

[Advisory Services](#) We can help you plan and start your IIoT journey in a way that aligns to your specific business outcomes.

[Managed Services](#) We can help you maintain your critical machines from one of our remote locations around the world using model-based predictive-analytic technology.

[Implementation Services](#) Our team will help develop a collaborative, multi-generational plan that will marry your existing investments to the right process enhancements and technology.

[Education Services](#) We specialize in education services to ensure that you're leveraging our solutions to the fullest extent with our training and certificate programs.

[GlobalCare Support Services](#) Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

[Wurldtech Security Services](#) Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Related products

GE Digital's [Brilliant Manufacturing](#) suite helps digitize your manufacturing plant or factory with insights that optimize your processes.



[Efficiency Analyzer](#) →

Get a single, up-to-date view of your entire production process.



[Plant Pulse Optimizer](#) →

Provide broader visibility with a panoramic view of all production activity for all factory personnel via real-time, multi-shift-based KPIs.

[Predix](#) →

Innovate and transform your business with the cloud-based operating system for the Industrial Internet, purpose-built for industry.

Continue your IIoT journey

Transforming your business requires innovative foundational solutions that lay the groundwork for optimized performance.



[Historian](#) →

Optimize asset and plant performance through time-series industrial data collection and aggregation, leveraging Predix IIoT connectivity.



[Workflow](#) →

Guide operators with dynamic, interactive electronic work instructions and eSOPs for more consistent operations and optimized processes.



[Discrete Manufacturing Software](#) →

Stay competitive with reduced WIP, tighter control on quality and a streamlined supply chain.

PREDIX

About GE

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

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