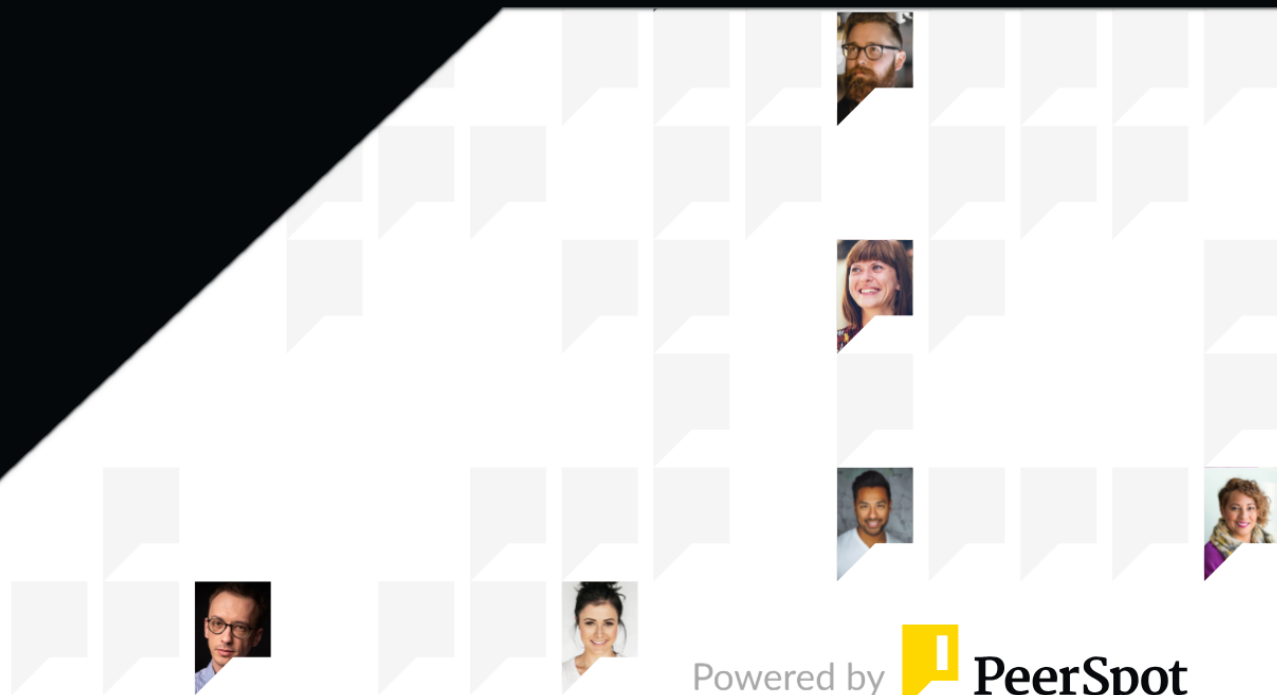




GE Proficiency Smart Factory MES

Reviews, tips, and advice from real users



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Product Recap



GE Proficy Smart Factory MES

GE Proficy Smart Factory MES Recap

GE Proficy Smart Factory MES is an advanced manufacturing execution system designed to optimize production processes and drive operational excellence. It provides in-depth insights and control over manufacturing activities, ensuring efficiency and reduced waste.

GE Proficy Smart Factory MES enables a seamless manufacturing experience by offering comprehensive monitoring and management capabilities. It supports decision-making with real-time data analytics, offering insights to enhance productivity, improve quality, and maintain compliance. Its adaptable architecture ensures that it can meet the evolving needs of modern factories, allowing manufacturers to streamline processes and enhance operational efficiency.

What are the key features of GE Proficy Smart Factory MES?

- **Real-Time Data Analytics:** Offers actionable insights into production performance and efficiency.
- **Workflow Management:** Streamlines and automates workflows to improve process efficiency.
- **Quality Management:** Ensures compliance with quality standards and reduces defects.
- **Compliance Tracking:** Manages regulatory compliance requirements effectively.
- **Scalability:** Adapts to growing manufacturing environments and increased production needs.

What benefits should users expect when reviewing GE Proficy Smart Factory MES?

- **Increased Efficiency:** Optimizes resource utilization and workflow processes.
- **Cost Reduction:** Minimizes wastage and reduces operational costs.
- **Enhanced Quality:** Consistently maintains high-quality standards in production.
- **Improved Compliance:** Simplifies regulatory compliance management.
- **Flexible Integration:** Easily integrates with existing systems and processes.

GE Proficy Smart Factory MES has been implemented in industries such as automotive, pharmaceuticals, and food processing. It aids these industries by enhancing production line visibility and efficiency, ensuring compliance with industry-specific regulations, and driving continuous improvement initiatives. Its adaptability allows for tailored implementations to meet specific production requirements, ensuring a fit-for-purpose approach wherever deployed.

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“The hardware of GE Proficy Smart Factory MES is very strong, and the software is very easy and useful for me.”



Yulianto Artawan

Field Services Engineer at Tetrapak



“GE Proficy Smart Factory MES has positively impacted my organization, as the production has gone up to 33% in the financial year that they introduced the MES system and we upgraded the systems.”



Dheeraj Saicheerla

Consultant at a manufacturing company with 1,001-5,000 employees



“The most positive impact of GE Proficy Smart Factory MES was the immediate gain in accuracy in measuring OEE, and in practical results, I was able to reduce unaccounted downtime by about 12% in the first few months.”



Gabriel Cerqueira Nascimento

Automation Technician at Automind



“I have seen a return on investment from using GE Proficy Smart Factory MES, as it enhanced productivity, leading to an increase in the number of parts manufactured, which resulted in good revenue generation for the business.”



Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees



“GE Proficy Smart Factory MES facilitates improved data capture, processing, and reporting across organizational levels, from supervisory to managerial to business levels.”



Verified user

Principal Consultant MES at a tech vendor with 10,001+ employees



“With GE Proficy Smart Factory MES, it has affected daily operations by making it a lot easier for them, taking a little bit of load off of their paperwork, but also allowing the customer to really see what is going on and see where they can make some improvements.”



Robert Smith, P.E.

Principal at Bedrock Engineering Ltd.



“GE Proficy Smart Factory MES has positively impacted my organization in many ways, for example, what we used to accomplish in a day as production has increased quite a bit, and our performance and quality of products have also improved, leading to a noticeable increase in OEE.”



Pramod Kumarsingh

Service Delivery Leader at a tech vendor with 10,001+ employees

What users had to say about valuable features:

“The features I appreciate most in GE Proficy Smart Factory MES are the ability to create trends when I troubleshoot during my daily work.

“I can also edit the program in GE Proficy Smart Factory MES, and before I download it to the PLC, I can test it first to ensure my program is working correctly.

“GE Proficy Smart Factory MES has been very useful in my daily work because it is user-friendly. I can also go online and change the IP address easily, which is simpler compared to other solutions.

“Troubleshooting with GE Proficy Smart Factory MES is easier than other options..”

Yulianto Artawan

Field Services Engineer at Tetrapak

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“The best features GE Proficy Smart Factory MES offers include quality control, and it also provides a feature like Plant Apps that we can integrate. In quality control, we validate whether the quality values for that specific part are correct or not, and we can set limitations, including lower limitations.

A helpful or unique aspect of GE Proficy Smart Factory MES is that it helped to read tags from the IGS or Historian service, which was a unique feature. It also created workflows and schedulers, making it even more unique.

GE Proficy Smart Factory MES has impacted my organization positively, as there was a dashboard that represented the live productivity of the plant, where the downtime of the machines and everything was shown, which was helpful in assessing the performance of the machine.

Specific outcomes show that GE Proficy Smart Factory MES helped my organization, as there was a dashboard integrated tightly with the machines installed at the factory site, which helped us know the current health of the machines..”

Verified user

[Read full review](#) 

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

“The best features GE Proficy Smart Factory MES offers include its Plant Application, with three main features that calculate performance, availability, and quality. What stands out the most to me is the quality part, which is very important for any manufacturing plant.

The quality feature of GE Proficy Smart Factory MES stands out to me because quality is crucial. For instance, it helps us determine how many parts we have produced correctly the first time without needing rework, which is vital to gauge the efficiency of our plant.

GE Proficy Smart Factory MES has positively impacted my organization in many ways. For example, what we used to accomplish in a day as production has increased quite a bit, and our performance and quality of products have also improved, leading to a noticeable increase in OEE, though I prefer not to reveal the exact percentage of improvement.

The improvements in OEE and quality from GE Proficy Smart Factory MES have changed our daily operations and decision-making. Previously we faced many downtimes without a strategy to rectify them quickly, but now we can foresee potential downtimes and act quickly with our maintenance team, resulting in less machine downtime and increased availability, which allows us to produce more..”

Pramod Kumarsingh

Service Delivery Leader at a tech vendor with 10,001+ employees

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“The best features GE Proficy Smart Factory MES offers include the integration to Microsoft, enterprisewide development, and the IoT where I can get that information relatively easily without having to put expensive instruments out there.

“GE Proficy Smart Factory MES has positively impacted my organization by helping clients a lot. I am a system integrator.

“GE Proficy Smart Factory MES helps solve pains such as reporting for mandated government agencies that require their reporting, and traceability with batching and with the quality on the side doing that. It has made the paper trail more electronic and more accessible.

“With GE Proficy Smart Factory MES, it has affected daily operations by making it a lot easier for them. It takes a little bit of load off of their paperwork, but it also allows the customer to really see what is going on and see where they can make some improvements..”

Robert Smith, P.E.

Principal at Bedrock Engineering Ltd.

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“The best feature of GE Proficy Smart Factory MES for me is the ability to integrate with my plant's current SCADA, which is GE iFIX.

“GE Proficy Smart Factory MES helps to completely eliminate manual entries on paper clipboards. Previously, I depended on the operator's memory or notes at the end of the shift to know the reason for a stoppage. Today, the system captures micro-stoppages and failures directly from the machines, allowing management to make decisions based on real and accurate data in real time.

“The most positive impact of GE Proficy Smart Factory MES was the immediate gain in accuracy in measuring OEE. By integrating the systems, I discovered that my real efficiency was different from what was reported manually. In practical results, I was able to reduce unaccounted downtime by about 12% in the first few months. Additionally, setup times decreased drastically because the maintenance engineering team began to have more reliable data to address the true root causes of failures.

“Based on the data and traceability from GE Proficy Smart Factory MES, tickets and work orders are opened for the maintenance team to act on. Integration is easier, and the history is easier to access..”

Gabriel Cerqueira Nascimento

Automation Technician at Automind

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“The best features of GE Proficy Smart Factory MES include its various modules enabling full-fledged MES implementation, offering production, maintenance, quality, and beyond. It integrates with PLC SCADAs using OPCs, and Prophecy Historian is completely integrated for time series data collection. These features facilitate evaluation of order efficiencies, OEE, yield, and other KPIs. Integration with ERP at the ISA-95 top layer and multi-method integration with external systems is possible, enhancing user experience with thick and thin clients for daily operations using a Microsoft SQL database.

In day-to-day operations, the most valuable features are production and quality, which handle data related to gross and net production. They automatically capture downtimes and provide a comprehensive list of highlighted drill-down reasons for downtime, significantly contributing to OEE as a primary KPI. Additionally, the Historian feature collects necessary time series data in line with MES requirements, allowing for advanced reporting and alarm-triggering for operators and supervisors or executing commands back to PLC SCADAs, enhancing decision-making processes.

GE Proficy Smart Factory MES facilitates improved data capture, processing, and reporting across organizational levels, from supervisory to managerial to business levels. The reporting structure allows business stakeholders to drill down to specific plants and production lines, monitoring efficiencies in real time and identifying underperforming areas. This effective real-time monitoring provides insights into production performance, offering opportunities for internal brainstorming and action planning to improve KPIs..”

Verified user[Read full review](#) 

Principal Consultant MES at a tech vendor with 10,001+ employees

Other Solutions Considered

“I have not previously used a different solution before GE Proficy Smart Factory MES, as I have been utilizing GE Proficy Smart Factory MES since the start of my career..”

Verified user

[Read full review](#) 

Principal Consultant MES at a tech vendor with 10,001+ employees

“Whether I previously used a different solution depends on the client, but the last two clients I had that were big projects already had iFIX.

“Before choosing GE Proficy Smart Factory MES, my clients did not evaluate other options or use a previous product..”

Robert Smith, P.E.

[Read full review](#) 

Principal at Bedrock Engineering Ltd.

“I previously worked with OSI PI and Plant Information, and transitioned to GE Proficy Smart Factory MES because I wanted to explore more within MES.

“I did not evaluate other options before choosing GE Proficy Smart Factory MES. I was using OSI PI and found GE Proficy Smart Factory MES to be a much better tool for understanding event frames, user access, roles in the plant, and how the line and unit work..”

Shivangi Narendra

Software Engine at a consultancy with 10,001+ employees

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ROI

Real user quotes about their ROI:

“The return on investment for GE Proficy Smart Factory MES was perceived through the direct increase in machine availability. By being able to identify hidden stoppages that were previously not recorded by operators, I was able to justify predictive maintenance that avoided larger breakdowns. The reduction in downtime quickly covered the tool's implementation costs..”

Gabriel Cerqueira Nascimento

Automation Technician at Automind

[Read full review](#) 

“I have seen a return on investment from using GE Proficy Smart Factory MES, as it enhanced productivity, leading to an increase in the number of parts manufactured, which resulted in good revenue generation for the business.

The productivity increased by at least twenty-five percent with GE Proficy Smart Factory MES, and that is the minimum percentage I can share..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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Use Case

“My main use case for GE Proficy Smart Factory MES is that we implemented this in one of the factories two to three years ago as smart manufacturing to calculate the OEE and other KPIs.

We have many use cases for GE Proficy Smart Factory MES because we use it for day-to-day activity. It is not only limited to OEE, as we also manage quality, performance, operations, and end-to-end traceability. Everything is included in this particular MES..”

Pramod Kumarsingh

Service Delivery Leader at a tech vendor with 10,001+ employees

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“I typically work with many types of PLC, but I focus more on GE Proficy Smart Factory MES, so I can connect to GFanuc PLC and then upgrade to RX3i from LM90.

“I usually take the alarm trigger from the sensor and then gather data from the sensor regarding pressure values and temperature values. I create trends using GE Proficy Smart Factory MES so I can identify the root cause of my issues. This has been very helpful for me..”

Yulianto Artawan

Field Services Engineer at Tetrapak

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“My main use case for GE Proficy Smart Factory MES is for discrete manufacturing, as it is used for routings and BOM.

I use GE Proficy Smart Factory MES for routings or BOM in my day-to-day work, where for every part, routings were created in SAP, and that used to flow to Proficy MES. The routing contains the operation steps and the sub-steps that are involved in manufacturing that particular part.

Regarding my main use case, GE Proficy Smart Factory MES also connects to tags. For example, in my case, I was reading the raising temperature tag value, and it was created and mapped..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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“My main use case for GE Proficy Smart Factory MES is for recipes and batch executions.

“When using GE Proficy Smart Factory MES for recipes and batch executions, it depends on the customer process, but in reality, they get the orders, they get the scheduling, and then it goes into the manufacturing system where we can push it around depending on what needs to be done first or if it's a small order or big order.

“Additionally, I do quality checks with GE Proficy Smart Factory MES. They go back and take labs and then enter them in for each batch..”

Robert Smith, P.E.

Principal at Bedrock Engineering Ltd.

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“I use GE Proficy Smart Factory MES in complex industrial architectures to perform production order sequencing, genealogy, traceability of materials and batches, and primarily the calculation of operational efficiency. My focus is to consume data coming from shop-floor controllers to understand exactly where performance losses are and which raw materials make up the final product.

“I use GE Proficy Smart Factory MES to collect data from GE iFIX SCADA and Proficy Historian. The MES consumes this data from the historian and the supervisory system, transforming the raw process variables into calculations.

“GE Proficy Smart Factory MES is currently deployed on-premises. My architecture connects the shop floor directly to the execution layer. Field equipment and PLCs communicate through industrial protocols such as Modbus, DNP3, and IEC 61850 directly with GE iFIX SCADA and Proficy Historian. Proficy MES continuously consumes this database from the historian and supervisory system, transforming raw process variables, such as piece counts and motor status, into structured calculations for quality, traceability, and OEE..”

Gabriel Cerqueira Nascimento

Automation Technician at Automind

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“GE Proficy Smart Factory MES is primarily used for MES implementation and support across a variety of industries, including mining and consumer goods. The platform is utilized within the ISA-95 architecture for consumer goods clients, implementing modules such as production, maintenance, and quality. It is used to execute process and planned orders on the shop floor, capturing data on downtime, production, and quality against specific orders, and calculating plant KPIs based on this data. The platform also supports reporting structured data stored in the Prophecy database, using interfaces like Prophecy displays for operators or supervisors. Integration with plant systems such as PLC SCADAs and ERP at the top layer is also a crucial element of my use case.

Integrating GE Proficy Smart Factory MES with plant systems like PLCs and ERP systems impacts daily operations positively, offering smooth execution. Although challenges with SCADA communications do arise, these fall under standard IT support and are managed and rectified efficiently. For recurring issues, problem methodologies such as RCA are employed to identify root causes and implement corrective actions. Overall, integration has been beneficial with no major negative impact..”

Verified user[Read full review](#) 

Principal Consultant MES at a tech vendor with 10,001+ employees

Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

“The implementation process for integration with SCADA is quite complicated. Developing operator client screens for Proficy MES is quite rigid. The classic interface is somewhat outdated and, although there is an effort to migrate to the web, developing customized screens for operators on the shop floor is still laborious. The system also consumes many server resources and requires very strict SQL database management to avoid losing performance over time..”

Gabriel Cerqueira Nascimento

Automation Technician at Automind

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Customer Service and Support

“Customer support for GE Proficy Smart Factory MES gives quick results sometimes, but there are delays at times, so I would appreciate quicker responses from their end..”

Shivangi Narendra

Software Engine at a consultancy with 10,001+ employees

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“The customer support experience for GE Proficy Smart Factory MES is pretty good. They will get in touch within one or two working days and help resolve the issue..”

Dheeraj Saicheerla

Consultant at a manufacturing company with 1,001-5,000 employees

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“The customer support for GE Proficy Smart Factory MES is good.

I would rate the customer support of GE Proficy Smart Factory MES an eight on a scale of one to ten..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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“The customer support for GE Proficy Smart Factory MES is good.

“I would rate the customer support for GE Proficy Smart Factory MES an eight on a scale of one to ten..”

Robert Smith, P.E.

Principal at Bedrock Engineering Ltd.

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Other Advice

“My advice to others looking into using GE Proficy Smart Factory MES is to do less customization in the actual product. I would rate this product an eight out of ten..”

Verified user

Software Development Engineer Advanced at a tech services company with 5,001-10,000 employees

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“My advice for others looking into using GE Proficy Smart Factory MES is that it is best for the process industries, mostly cosmetics or any batch manufacturing industries that are on a huge scale. I do not recommend it to medium-scale industries.

“I have additional thoughts about GE Proficy Smart Factory MES before we wrap up. It is quite a stable application. After you implement it, there are no issues working on it. Even if you have some issues, we have the vendor support, and the issues will be resolved as soon as possible. It is lovely working with GE as an application. It is a good application to use. I would rate this product a 9 out of 10..”

Dheeraj Saicheerla

Consultant at a manufacturing company with 1,001-5,000 employees

[Read full review](#) 

“GE Proficy Smart Factory MES delivers on what it promises at the manufacturing execution layer with extreme reliability. I give this product a rating of eight out of ten because of the robustness of the industrial processing. However, it loses two points due to the technical learning curve for high customizations and for being a

heavier system in terms of IT infrastructure than more recent cloud-based architecture solutions.

“I recommend GE Proficy Smart Factory MES to people who already have the GE ecosystem or who have high-criticality manufacturing processes that require uninterrupted traceability. I only advise ensuring that the IT and database teams participate actively in the project from day one, because the health of GE Proficy Smart Factory MES will depend on the server infrastructure..”

Gabriel Cerqueira Nascimento

Automation Technician at Automind

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“Regarding GE Proficy Smart Factory MES's AI capabilities, I think its governance and security is good, but that just depends on how you implement it onto the OT network. The tools are there, and I hope everybody uses them to keep it secure.

“Regarding the accuracy and reliability of GE Proficy Smart Factory MES's AI capabilities, right now, my customers have not implemented the AI part, but I have delved into it myself, and I think it is going to turn out pretty well.

“My advice for others looking into using GE Proficy Smart Factory MES is to just know your entire scope of what you want to do to allow you to budget for your capital project. I would rate this product a nine on a scale of one to ten..”

Robert Smith, P.E.

Principal at Bedrock Engineering Ltd.

[Read full review](#) 

“I rate GE Proficy Smart Factory MES a seven out of ten.

I choose a seven out of ten for GE Proficy Smart Factory MES because it has many capabilities, but there is room for improvement, which is why I leave three points available for enhancements.

Regarding GE Proficy Smart Factory MES's AI capabilities, I think its governance and security are very strong, as it provides a very secure solution with two to three layers of security, so we do not need to worry. It has good cloud and on-premises features.

I consider the accuracy and reliability of output from GE Proficy Smart Factory MES to be 90 percent.

My advice to others looking into using GE Proficy Smart Factory MES is that if you are considering discrete manufacturing, you should definitely go with GE Proficy, as it is well-suited for that purpose.

I have additional thoughts about GE Proficy Smart Factory MES. It is a good solution for discrete manufacturing, and it is a well-established product, so anyone thinking of implementing an MES should definitely consider this option. My overall review rating for GE Proficy Smart Factory MES is seven out of ten..”

Pramod Kumarsingh

Service Delivery Leader at a tech vendor with 10,001+ employees

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“GE Proficy Smart Factory MES is deployed in public cloud in my organization.

“I received the license for GE Proficy Smart Factory MES from my company. Every year, my company releases notes to renew my license.

“GE Proficy Smart Factory MES is what we use for simple programming, and I can access it very easily.

“I would recommend GE Proficy Smart Factory MES to others if they want simple

software with a simple application that is easy to understand.

“As long as the program is password-protected and cannot be uploaded by everyone, I think GE Proficy Smart Factory MES is secure.

“Everything appears to be already perfect in GE Proficy Smart Factory MES.

“GE Proficy Smart Factory MES is better for my organization.

“GE Proficy Smart Factory MES is very accurate for output.

“The hardware of GE Proficy Smart Factory MES is very strong, and the software is very easy and useful for me. I would give this product a rating of nine out of ten..”

Yulianto Artawan

Field Services Engineer at Tetrapak

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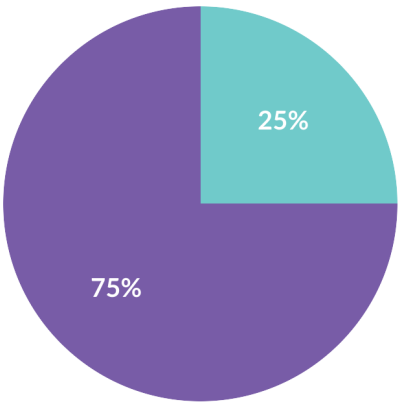
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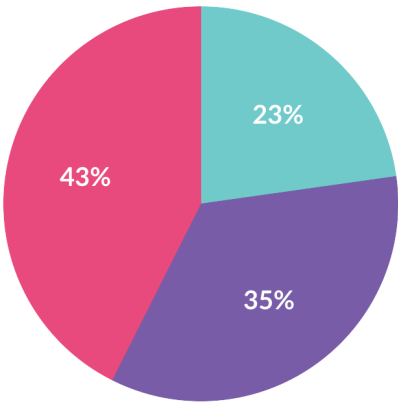


Company Size

by reviewers



by visitors reading reviews



 Large Enterprise  Midsized Enterprise  Small Business

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