



NOMUDA[™]
VISUALFACTORY

Delivering Manufacturing Excellence With Our Lean MES

VERSION // 1.0
NOMUDA // VISUALFACTORY



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06-07 Case Study – Parker Meggitt



No – determiner

English (/nəʊ/) Not Any “there is no excuse”

Muda – noun

Japanese (無駄) Uselessness, Wastefulness

With these two words NoMuda commits itself to a philosophy of “no waste” in the manufacturing and production sector.

Our mission is to bring this ethos to companies worldwide, enhancing production processes beyond standard Lean practices.

Using cutting-edge digital tools and 25 years of first-hand experience, we created VisualFactory, a full Manufacturing Execution System (MES) solution to eliminate waste, enhance processes, and reduce costs.

VisualFactory MES provides documented adherence to the optimal process, helping to ensure products are manufactured with the fastest, safest, and lowest-cost process, delivering right first-time quality and increased productivity.

NoMuda's methodology ensures peak productivity and efficiency using VisualFactory MES combined with traditional Lean principles.

A transformative approach to manufacturing focused on eliminating waste, maximizing efficiency, and encouraging continuous improvement.

Using advanced digital tools and intuitive visual MES we enable you to optimize processes and elevate them above and beyond your competition.

Do things differently, do things better.



Innovation Through Eliminating Waste

The heart of our methodology. By systematically removing inefficiencies you will unlock hidden value in your operations. Move away from wasteful practices by streamlining production and eliminating tooling errors, miscommunication, and excessive waiting times.



Realizing the Potential of Efficiency

Enhance operational speed and accuracy while improving efficiency. Stand out in competitive markets by offering faster production times, lower costs, better-quality products, and unfaltering reliability. We minimize overproduction and under-utilized stock to ensure you remain agile and responsive to customer demand.



Redefining Excellence with Technology

We emphasize the use of cutting-edge digital technology with our VisualFactory MES which simplifies complex processes and enhances operational visibility. We empower companies to achieve operational excellence that exceeds traditional Lean practices. An intuitive interface and clear visual instructions ensure smooth, uninterrupted production.



Certification and Community-Driven Growth

We believe in cultivating a new understanding of 'exceptional,' elevating those who achieve it by underlining community engagement through certification. Earn NoMuda certifications to provide personal recognition and organizational credibility. Become part of a global community of practitioners dedicated to the next evolution of operational excellence.



Driving Continuous Improvement

Stay ahead of your competition by constantly refining and optimizing processes. Regular assessments and incremental changes help companies achieve growth and maintain their competitive edge.



Delivering Unmatched Value

Eliminating wastefulness (muda) creates increased value for your company. The driving force behind NoMuda's methodology; we help you discover the hidden value by eliminating waste in seven key areas:

- Transportation
- Inventory
- Motion
- Over-production
- Defects
- Wait times
- Over-processing



An Emphasis on Sustainability

With our focus on just-in-time production and Lean inventory management, we help you build a more sustainable, eco-friendly operation. Reduce your carbon footprint and waste by minimizing costly over-production and reducing defective products.



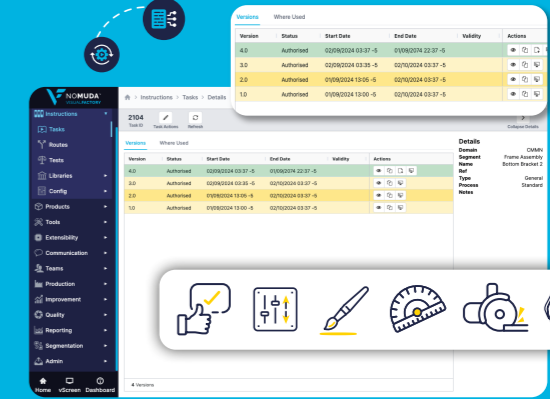
Making informed decisions

Shop floor workers play a critical role in the development of VisualFactory at their facility. The software itself is trained by the users and then in turn instructs operators on best practices, creating a perfect feedback loop between machine and man, where each enhances the other.

UPHOLD BEST PRACTICE DURING EVERY STEP OF PRODUCTION



Eliminating any ambiguity in production processes, our VisualFactory MES is an intuitive digital platform. Save time and enhance production efficiency with the clear instruction VisualFactory provides.



Streamline your processes to increase speed, productivity, and efficiency.

- Simplify Complex Manufacturing Processes**
 Unclear and confusing instructions are the bane of every production line. Eliminate errors and unnecessary delays with VisualFactory's crisp, clear icons and imagery; supports operator understanding and increases efficiency.
- Visual Communication Tool**
 Live digital reporting and visual communication ensure consistency and transparency in all processes. Everyone from shopfloor operator to senior management is kept apprised of real-time production progress.
- In-built Quality Management System (QMS)**
 Quality is embedded at every step of production. This eliminates costly errors and time-consuming remakes by guaranteeing products are built once and built right.
- Remote System Updates**
 We practice what we preach and are constantly endeavoring to improve our own processes and systems. VisualFactory is consistently updated to improve your production process and add further customizable features for integration into your workflow.
- Repair and Maintenance Scheduling**
 Optimize machine performance and schedule preventative maintenance to minimize the inconvenience of machine downtime. Leverage digital reporting features on the shop floor to quickly identify equipment issues and have them resolved before they impact production.
- Seamless Integration**
 VisualFactory MES is designed to be an organic and fundamental addition to your existing processes, working alongside them to enhance and support using ERP integration. Easily connect software to equipment, devices, and machinery on the shop floor and use the data visualization and proactive solutions provided to generate a quantifiable and tangible benefit without disruption to your current setup.
- Proven Kanban System**
 All data input can be traced back to its source and cross-checked for accuracy. This ensures clean, accurate reporting during every stage of the production process and full traceability.
- Pick-to-light for assembly**
 An aid to operators on the shop floor, the VisualFactory uses simple visual prompts to indicate the correct items to pick. This reduces errors and speeds up assembly processes.
- Near-Time Data**
 Achieve daily or shift-based production targets using production data happening on the shop floor. Helps maintain optimum operational efficiency allowing you to meet just-in-time manufacturing goals.



THE CLIENT



Meggitt PLC is a British international company creating components for the aerospace, defense, and energy industries. Their technologies, products, and services can be found in military hardware around the world.

At the forefront of aeromechanical innovation, Meggitt has been in operation for over 75 years and is a global leader in the manufacture of state-of-the-art dynamic sensors, flight control, and hydraulic systems.

6% INCREASE IN PRODUCTIVITY

2,500 SAVED LABOUR HOURS

20% INCREASE IN CAPACITY

£750,000 PAPER TO DIGITAL SAVING



THE CHALLENGE

Being a manufacturer of high-precision components, Meggitt needs its processes to be as efficient as possible, the problem?

They were still using paper-based documentation, and as their production grew this antiquated way of tracking machinery and components needed to be improved.

They needed their processes to be as transparent as possible, so that all operators could carry out their tasks without time and money wasted.

Documentation needed to be traceable at multiple stages of the assembly line.

THE SOLUTION

NoMuda's VisualFactory and digitization have brought Meggitt's processes roaring into the 21st century.

Work instructions are displayed on screens, guiding operators through processes ensuring the very latest instructions are always available immediately at the point of use.

VisualFactory records manufacturing history and testing, removing the time needed to sign and archive documentation. The rigs used for testing are linked directly to VisualFactory, this allows the results to be displayed on screen for review and future reference.

"We have identified our 'hidden factory' with the vRework module that has helped us to understand, document, and improve first pass yield. Operators are happy as they see VisualFactory as an investment in them, making their job easier and helping them to work in the most effective way."

--Digital Program Manager, Chris Perry

VisualFactory also clearly indicates to operators whether a unit has passed or failed a test and then automatically stores the result for future reference.

THE BENEFITS

By using VisualFactory in over 100 workstations in Meggitt's Ventura County, USA, and Coventry, UK, in only one production line, Meggitt has seen a 6% increase in productivity and a 20% increase in capacity.

This has also saved 2,500 labor hours and saved £750,000 all from moving away from paper and toward digitization.

Implementing NoMuda's Lean principles through VisualFactory has proved so successful that Meggitt have a digitisation plan for 34 locations across the world. From America to Europe, to the Middle East, to Pacific Asia,

Meggitt are also in the process of adding 250 vScreens in their Ventura County facilities, 8 vScreens in Coventry, and 12 in Birmingham. The results of Meggitt embracing the NoMuda approach through VisualFactory are clear, and as demand grows within the company for a more widespread application, they keenly look forward to exploring additional modules and discovering just how much more NoMuda's Lean principles and VisualFactory can enable them to achieve.





NOMUDA™

VISUALFACTORY

• Our Offices

• Our Clients

• Our Partners



SIMPLIFY / STANDARDIZE / AUTOMATE



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