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# Digital Transformation for Manufacturing Processes

***A Unified Solution for UK Manufacturing***

**Submitted by:** much. consulting (Odoo Gold Partner)

**Solution:** Odoo ERP - Manufacturing Implementation

**Category:** Manufacturing Process

**Sub-categories:** Assembly, Packaging & Shipping, Process Control, Testing/Validation

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## 1. Executive Summary

We transform the physical manufacturing process by digitising the "Traveler" or "Job Card." **much. consulting** implements the **Odoo Shop Floor** application and **IoT integration** to guide operators through complex assembly, automate shipping logistics, and enforce rigorous process control.

This ensures that the physical process on the floor matches the digital plan in the office, enabling a "Single Platform" environment where human operators, connected machines, and automated logistics (AGVs) work in sync.

## 2. Addressing Core Business Challenges

*We address the critical execution phase of manufacturing: Assembly, Logistics, and Validation.*

### A. Assembly & Process Control

*Guiding the operator and controlling the workflow.*

| Challenge (Current State) | Solution (Odoo + much. consulting) |
| --- | --- |
| **Tribal Knowledge:** Only specific operators know how to assemble complex parts. If they are sick, production stops. | **Digitally Assisted Assembly:** Step-by-step interactive SOP's and guides (videos/PDFs) are displayed on the tablet. Any trained operator can follow the standard process, reducing training time for new hires. |
| **Lack of Pacing:** No visibility on whether an operator is ahead or behind schedule until the shift ends. | **Real-Time Cycle Tracking:** The tablet tracks the duration of each step against the target time. **Industrial Analytics** dashboards alert supervisors immediately if a station is becoming a bottleneck. |
| **Component Errors:** Operators accidentally pick the wrong screw or part for a custom assembly. | **Barcoded Validation:** The system requires the operator to scan the component before assembly. If it's the wrong part, the system blocks them from proceeding, ensuring **"Right First Time"** production. |

### B. Testing, Inspection & Validation

*Enforcing quality within the process (In-Process Inspection).*

| Challenge (Current State) | Solution (Odoo + much. consulting) |
| --- | --- |
| **"Pencil-Whipping":** Operators tick "Pass" on paper forms without actually checking the measurements. | **Mandatory Data Capture (IoT):** For critical steps, we connect digital calipers or testers directly to the Odoo IoT Box. The measurement is captured automatically. If the value is out of tolerance, the process halts. |

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| Challenge (Current State) | Solution (Odoo + much. consulting) |
| --- | --- |
| **Regulatory Compliance:** In regulated sectors (**Pharma/Aerospace**), paper records are insufficient for audits. | **Digital Validation Records:** Every test result is time-stamped and linked to the operator's digital signature, ensuring full compliance with **EU GMP Annex 11**, **FDA 21 CFR Part 11**, and **AS9100** standards.. |

## C. Packaging & Shipping

*Streamlining the "Final Mile" of the factory.*

| Challenge (Current State) | Solution (Odoo + much. consulting) |
| --- | --- |
| **Packing Errors:** Sending the right product to the wrong customer due to mix-ups at the packing bench. | **"Scan to Pack":** The system forces a scan verification of every item going into the box. It is physically impossible to close the packing slip if the items don't match the order. |
| **Dispatch Bottlenecks:** Manual typing of addresses into carrier portals causes delays. | **Carrier Integration:** Odoo pushes weight and address data to the carrier API (FedEx/DHL/UPS/Royal Mail/DPD) and instantly prints the shipping label. Tracking numbers are auto-emailed to the customer. |
| **Inefficient Movement:** Goods sit waiting for a forklift driver who doesn't know they are ready. | **Automated Logistics:** For advanced sites, Odoo triggers **AGV (Automated Guided Vehicle)** missions to collect finished pallets from the packing line and move them to the shipping bay automatically. |

## D. Process Control & Optimisation

*Using data to drive continuous improvement.*

| Challenge (Current State) | Solution (Odoo + much. consulting) |
| --- | --- |
| **Hidden Inefficiencies:** Management knows overall output is low but cannot pinpoint which specific step is the cause. | **Granular OEE Analysis:** By digitising every start/stop and scrap event, we provide a heatmap of process inefficiencies. We identify exactly which machine or process step is the constrained resource. |

| Challenge (Current State) | Solution (Odoo + much. consulting) |
|---|---|
| **Static Processes:** Improving a process requires re-printing thousands of paper travelers. | **Agile Process Definition:** Process engineers can update the routing in Odoo, and the change is pushed to all tablets instantly. Continuous improvement becomes a daily reality, not a yearly project. |

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## 3. The much. consulting Advantage

*Why choose us for your Made Smarter journey?*

- **Shop Floor Reality:** We understand that software must work for the operator wearing gloves. We design simple, big-button interfaces that simplify their job rather than complicating it.
- **Hardware Integration:** We bridge the gap between software and hardware. We configure **Odoo IoT Boxes** to talk to your scales, cameras, and printers so your team doesn't have to.
- **Sector Experience:** From **Pharma**, through to **Automotive** assembly lines and **Food & Drink** packaging, we have deployed these specific process controls to reduce waste and ensure compliance.

**Validated Execution:** Our process controls are trusted by high-tech leaders like **iThera Medical** (MedTech) and **VoltStorage** (Energy Storage) where we have successfully deployed digital travelers that enforce SOP compliance and capture critical quality data in real-time.

## Ready to Discuss Your Digital Journey?

Contact us today to schedule a free consultation.

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