

Visual Factory Workstation Portal

Electronic Visual Work & Quality Instructions - Interactive Workstations - The Key to Zero Defect and Lean Manufacturing

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VALUE STREAM TECHNOLOGY™



' Higher product quality &
faster assembly processes '

Imagine - your assembly teams, even new hires, seem to intuitively know how to accurately assemble your products. Learning curves are reduced to a minimum, but your operations and products meet 'Total Quality' and 'Zero Defect' goals. 'Rework' seems to be a foreign word, operations are smoothed, workload is well balanced, and through-put and performance is close to one hundred percent.

A vision only? Take a look at Visual Factory™ and see how you can make this vision become reality?

Integration of manufacturing engineering, planning, and operations, as well as visualization of processes and work & quality instructions provide the key to a door locked for a long time.

Visual Factory is an application suite strategically supporting lean manufacturing operations with electronically distributed Visual Work & Quality Instructions™ and an Interactive Workstation Portal™ for Total Performance, Total Quality, comprehensive product & quality data documentation, and drastically higher assembly accuracy.

The business applications are tailored to manufacturers in Automotive, High Technology, Consumer Product and Industrial Machinery industry sectors, assembling products with the goal of zero defect, zero tolerance, total quality assembly operations.

Drastic reduction of training needs for new hires and at new product and change introductions, complete and consistent actual documentation of all manufactured products, and accelerated operations provide higher performance, higher through-put, accurate assemblies, and result in higher profit margins.



Without any doubt **visual instructions** bridge language and understanding barriers, reduce assembly errors, and increase productivity and quality. However, the issue so far was: How to create visual instructions fast and efficiently? How to integrate change and its impact? And finally, how to distribute this information without costly personnel efforts?

CellFusion's solutions in rapid design of **visualization-based work instructions**, so-called E-OMS (Electronic Operational Method Sheets) build the basis for development and instant distribution. With Manufacturing Engineering applications your personnel can develop visual instructions within just a few minutes, leveraging latest technology, and distributing all information electronically to shop floor operations.

These visual instructions are the basis to guide assembly workers through assembly and quality assurance processes. Introducing electronic visual instruction to manufacturing operations opens the door to **a new dimension of integration and efficiency**. When beginning Value Stream Technology development, the visual instruction was already the center of information, but the application evolved to a comprehensive **Interactive Visual Workstation Portal™**, the **strategic shop floor portal for assembly process visualization, total quality, productivity, product documentation, change introduction**, and many other optional interactive functions.

All interactive applications are fully integrated into the visual instruction and 'point & click' based for extremely fast action and control. They are **workflow connected to constraint-based pro-active monitoring applications** and manufacturing portals, and they build the source for a transparent plant with zero defect, zero tolerance manufacturing & supply operations.

During the assembly process any engineering change is introduced and highlighted, with so-called '**BlueLining**', the **Visual Change Introduction**. **Product quality checklists and measurements** are being entered on the fly. Actual time, any assembly relevant information, and scanned **serial & lot numbers** are reported in an instant, enabling manufacturing operations to create **comprehensive product, quality & tracking documentation** in the background, without additional efforts. Red and green alert signals provide information about correct material usage, and through-put is reported by operation with a single click, enabling responsible personnel and managers to locate specific products and customer orders. Actual or potential machine & equipment issues can be reported in a fraction of a second, initiating real-time information flow to the responsible departments.

And certainly any **quality issue of assemblies or materials can be reported within a fraction of a second** using simple point & click, and the quality issues and **first passed yield** information automatically flows to **Pro-active Total Quality Management™** process applications and into all portals, even real-time to suppliers.