

# Ultriva Lean Factory Management (LFM)

## Lean your shop floor

A large percentage of manufacturing firms around the globe are managing factory floor operations with custom-built Excel applications. These applications routinely perform day-to-day mission critical tasks for planners, schedulers, supervisors and technicians. In most cases they are completely undocumented and rarely supported by IT. These silos of spreadsheets limit visibility, real time access and collaboration.

Ultriva's Lean Factory Management (LFM) module optimizes the flow of information and materials through product value streams providing real-time, actionable business intelligence on manufacturing operations. With Ultriva LFM you can align your production resources with customer demand instead of inaccurate forecasts and ensure the right parts are delivered in the right quantities at the right time to work centers. Production schedules can be manipulated by supervisors or they can be automatically queued at production lines based on optimized scheduling criteria. Ultriva LFM continually monitors production operations providing real-time feedback on customer delivery performance and Overall Equipment Effectiveness (OEE) metrics.



### Lean Scheduling and Sequencing

Using the Ultriva Lean Scheduling and Sequencing module, you can send customer orders directly to your shop floor and then allow the schedule to adjust based on sequencing rules you create for the unique characteristics of your business.

A dashboard displays schedules by work cell and tells you whether the cell is over capacity or underutilized on a day-by-day basis. As a result, supervisors can dynamically move schedules around to meet customer want dates.

### Ultriva LFM

- Promotes Lean Production within the shop floor through internal pull and optimized job sequencing
- Formalizes and sustains lean improvements, quick changeover and continuous improvement

### Benefits of Ultriva LFM

- Real-time visibility of demand changes
- Kanban material replenishment
- Lean production scheduling and sequencing capabilities
- Overall equipment effectiveness
- Complete visibility of order status
- Manufacturing performance reporting

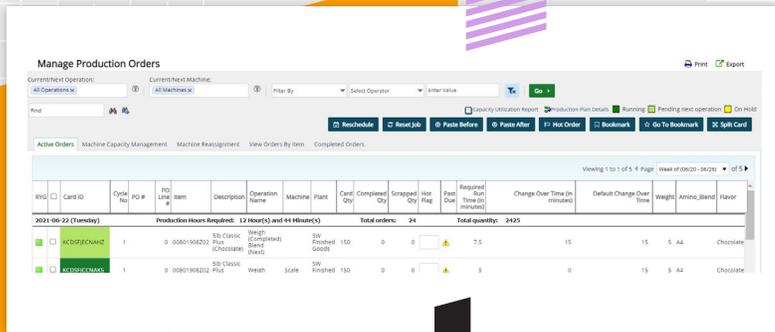
## Implement electronic Kanban at the floor

Ultriva LFM provides the capability to implement an internal electronic Kanban (eKanban) system by establishing Kanban flow loops. While manual Kanban can work in small or simple assembly shops, history has demonstrated that large plants with thousands of parts, or plants that are vertically integrated with hundreds of machines, are very difficult to sustain with manual systems. Ultriva eKanban provides a closed loop replenishment system resulting in no lost or damaged cards, with real time visibility

### Kanban Loops

Kanban Loops can be established between any point of current consumption work center and their respective supplying locations. Work centers are virtual work areas which can be a consuming location (like a final assembly) or a producing location (like a sub-assembly area or a machine cell) and/or a storage location (like a supermarket).

Work centers can be created to support either batch or one piece flow. Then appropriate Kanban signals can be triggered to external suppliers from the point of use. This minimizes the amount of buffer inventory to be carried.



### Operator view

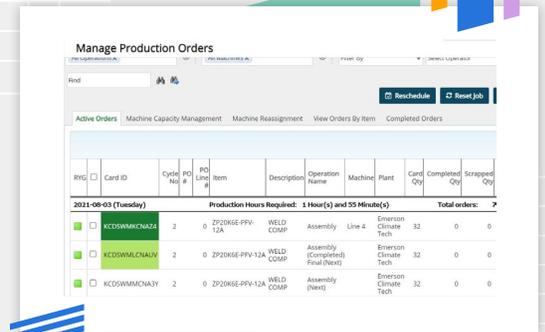
- Operators can login and begin their jobs immediately
- Jobs for the operators can be grouped by product family, attributes, customer or any custom parameter
- Jobs can be grouped for multiple buckets in a day. The bucket interval could be by shift or shorter (4 hours for example)
- Operator can close partial or complete production
- Jobs can be carried forward across shift seamlessly
- Operators can put jobs on hold for any valid reason and supervisor will get visibility to that job (it turns yellow)

## Overall Equipment Effectiveness

For those manufacturers that have production constraints, the Overall Equipment Effectiveness (OEE) module provides your team with the ability to eliminate bottlenecks, optimize equipment and to track OEE metrics to drive continuous improvement opportunities.

### eKanban

Because eKanban is real-time there are no time lags with the information flow, FIFO material usage is ensured, lot tracking and other critical information can be captured. Management dashboards and reports are available to facilitate pro-active management and continuous improvement activities.



### Supervisor view

- A single supervisor can monitor multiple cell production schedules from their desk
- Supervisor can manage schedules based on resource availability or customer demands
- Supervisor can change production sequence within a day or shift to minimize set up or optimize production

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 BD

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TECHNOLOGIES

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## Included for licensed Ultriva users

Upland Ultriva integrates with different MRP and ERP systems from legacy green-screen applications to the latest from Oracle, SAP, Infor, Microsoft Dynamics, and others.



## Ready to get things done?

Let us show you what Upland Ultriva can do.

[Request a Demo](#)

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