# Shop Floor MES

## FACTIVITY

*Dynamically control your shop floor, measure your productivity, measure your asset effectiveness, and respond quickly to changing customer and floor requirements with the Factivity MES.*

Factivity's measurements enable your business to better compete on the basis of time, cost, and quality.

With Factivity MES, you can identify and solve problems and "keep score" with a variety of real-time reports, KPIs, and production metrics.

Factivity is a touch-screen visual tool that provides shop-floor personnel, supervisors, and production management with visibility into, and control over, factory resources and the production process. Whether you have long-time employees or temp labor, Factivity's intuitive interface is the solution.

Using Factivity Ultra, operator screens can be individually tailored to the work area with your specific machine and process requirements.

Factivity is designed for a fast implementation that will immediately start to reduce waste in your production and supply chain processes.
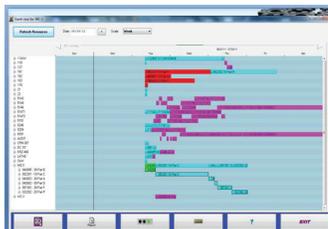
## PAPERLESS JOB PACKETS

More timely and accurate than paper systems, and much more intuitive than bar code RF scanners, Factivity's unique user interface (UI) is designed to allow quick, error-free collection of production data. Job-related information normally found in a job packet or traveler is on the screen and available to the operators at all times. This paperless approach also provides a way for supervisors and schedulers to visually stay in touch with all floor activity and to update job priorities in real-time.

## ERROR PROOFING

Beyond an easy-to-learn UI, Factivity MES checks for errors to help eliminate time wasted with the entry of inaccurate information. The production quantity reported by the operator is validated against the planned quantity on the job. Raw materials and component parts consumed at the operation can be verified against the item being made with correct lot/location information. Alarms can be triggered if too much is posted by the operator or too little is reported when the job is closed.

## INTERACTIVE GANTT SCHEDULING

The ability to visualize the work load in the factory is greatly clarified by Gantt views. Scheduling is made easy by either dragging-and-dropping jobs in the Gantt view or by changing the line-up in the new Advanced Dispatch Edit. Production management has multiple ways to quickly and easily move jobs around and to level the load as demand changes.

## OPERATOR ALERTS

On the main production job screen, pop-up overlays notify the operator about specific part-related alerts when they sign into the job. Verification and auditing of operator actions provides management with better control of operator interactions and their follow-through on these alerts.

## ORDER GROUPING AND NESTING

Sometimes work at an operation is a combination of different parts from many jobs that are run together at one time. This happens at Kiln/Furnace, Laser Cutting, and Slitting operations, for example. Factivity can create a Nest and treat this unique grouping of parts as one operation to simplify operator reporting of raw materials and production.

## SPLIT AND BRANCHED OPERATIONS

**Splitting** allows the factory to run a single job on multiple machines simultaneously, or run smaller quantities on the same or multiple machines. Visibility to the total job quantity is always available while each machine/line/cell works independently and at the same time on a single job to allow faster completion of jobs. **Branching** chains a series of job operations with a defined quantity to be run on separate machines within the same process.

**FACTIVITY**

## EMPLOYEE VALIDATION

Employees signing into a job (job-in) can be validated against the resource being used to verify if the operator is trained and ready to use the asset. Without the right level of skill or classification, the operator will not be able to sign into the job **preventing potential misuse** of machines and equipment.

## ELECTRONIC REAL-TIME ALARMS

To focus management on problems without the necessity to look at reports, Factivity can send electronic messages or alarms to a specific pre-defined person or list of people so they are aware in real time of problems on the factory floor. Alarms can be configured to automatically generate a message **to your PC or smartphone,** so even if you are not at a Factivity station, or even at the production site, you can stay in touch.

## BAR CODE CAPABILITY

Print bar code labels can be printed on demand for applications like "Earn-a-Label" production tracking and inventory tags with (and without) lot number association. Combined with raw material accountability at the line level, Factivity provides the path to shrink material variances and minimize data entry input transaction.

## SPREADSHEET INTEGRATION

Factivity MES collects and then stores all real-time factory data for back end number crunching. Parts, Employees, Production Process, Scrap and Downtime information can be directly placed into pre-formatted spreadsheets for analysis and charting using all the functionality of Excel.

## FACTORY DASHBOARD

Real-time displays of all machines can be seen on giant screen monitors. Several views are available. The "box" view provides a visual analysis of production in a matrix format. The Machine Status view is **customizable** and has a spreadsheet like appearance that allows sizing of rows, columns, headers and font sizes to match your particular viewing requirements.

## WEB BROWSER FACTVIEW

Using a Web Browser and **without the need for additional seat licenses,** anyone with the proper authorization can see a real-time view of factory floor activity. This provides a fast, easy, and inexpensive way for more of your management team and supervisors to view what is currently happening on the production floor. Views include resource activities like Overall Equipment Effectiveness (OEE), operator assignments, and daily job cards. Quality control can investigate job line-ups to better plan their daily activities. Customer service can use the views to investigate due dates on any part (via purchase order look-up) as jobs are moved through the floor. (FACTVIEW is included in the Documents Module).

## MACHINE MONITORING MODULE

SOLD SEPARATELY

Real-Time monitoring of floor assets provides the bridge for updating production and machine status **without operator intervention.** Factivity MM includes Factivity Connect, a Rest API that allows engineers to design and connect machine-facing HMIs to Factivity MES using the software they use everyday.

## DOCUMENTS MODULE

SOLD SEPARATELY

The Documents Module is an electronic floor communication system that delivers various documents (quality, instructions, drawings, etc.) to operators at the touch of a button. FACTVIEW is part of the Documents Module.

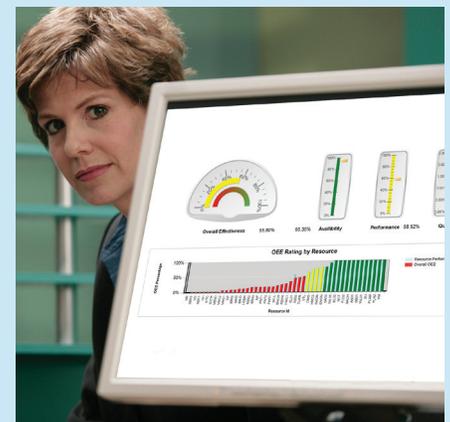## JOB TIME EDIT MODULE

SOLD SEPARATELY

Promotes better Supervisor control over employee job time. The Job Time Edit Module allows supervisors to approve all operator shift records during or at the end of a shift, within company rules.

## FACTIVITY Ultra

Factivity Ultra is a user-designable client screen system that allows you to place the visual elements that are important to your operators on the shop floor.

Factivity Ultra uses many new visual elements in the application. Its flexibility provides customization for the plant and for each area of the factory. It helps manage complexity by displaying exactly the data and actions needed at each work center.

The Factivity Ultra Design Canvas features dozens of elements that allow you to configure the look of your work centers, with buttons, graphs, gauges, keypads, embedded reports, and web browsers.