

Virtually integrated manufacturing systems for electronics



Improve production management of your global manufacturing lines

Highlights:

- Enhances visibility into market dynamics and supply chain status with one, integrated view
 - Offers end-to-end production control by integrating globally distributed manufacturing lines
 - Streamlines planning operations with global supply chain planning, factory simulation and near real-time scheduling
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Product innovation remains a high priority, but electronics CEOs are recognizing that industry leadership is determined not only by how companies innovate, but also by what they choose to change. Increased market dynamics and operational complexity are prompting electronics firms to look at other areas to innovate, such as their manufacturing processes.

IBM Electronics Industry Solutions – intelligent supply chain management and manufacturing can help transform your electronic product and part manufacturing processes by helping improve supply chain management through a unified view of your entire supply chain. Our solution can provide a competitive edge by helping improve your strategic sourcing, collaboration and enterprise resource planning to support manufacturing processes. It integrates with your current enterprise systems to facilitate tighter supply chain and manufacturing linkages, so you can take advantage of economies of scale and respond more quickly to market changes. The solution can also facilitate on-demand integration with your associates to further streamline operating costs and thus help improve revenue generation.

Enhancing visibility into market dynamics and supply chain status

When everything is connected using a single, integrated view, work can be performed more effectively and efficiently. By tying manufacturing information to the supply chain, our solution can help you improve productivity and return on investment, as well as help reduce cycle time. These linkages lead to a more agile enterprise that can better



respond to the electronics industry's continually changing landscape. By enhancing visibility, we can help you quickly adapt to and meet volatile supply and demand conditions, helping improve profitability and cut costs.

Offering end-to-end production control and integrating manufacturing lines

With our solutions, you can globally integrate manufacturing processes—including sales, marketing and operations—throughout your value chain. By integrating and interconnecting these manufacturing lines, you can better understand customer needs and more efficiently target customer purchasing patterns, as well as recognize or anticipate trends. You can actively manage different operations, expertise and capabilities to open up your organizations—and focus outwardly to connect more tightly with partners, suppliers and customers.

Streamlining planning operations through simulation and near real-time scheduling

Our solution has an integrated system for factory capacity planning, work-in-process, lead time and output forecasts for complex manufacturing lines using near real-time scheduling. You can monitor material and component production status, as well as integrate planning operations in a virtual factory. Our solution can modify internal job priorities based on the current production situation and built-in rules that you configure, assuring jobs are completed as scheduled. The result is product output performance according to plan.

Why IBM?

We have the global presence, experience, scale and capabilities to optimize your manufacturing fabrication. We offer a unique combination of assets that can enable a rapid startup of your line, integrating equipment and applications you need. We help manufacturing industries around the world become more productive, efficient and responsive—and tackle problems they once thought were unsolvable—through systems, processes, services and infrastructures that are more instrumented, networked and intelligent.



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