



ENGINEERED MATERIALS

TODAY'S CHALLENGES

Manufacturers of engineered materials face disruptions today that are transforming their daily operations.

Manufacturers are under pressure to deliver greater value to their customers via product tailoring and unique offerings. This requires effective management of every aspect of the **adaptive manufacturing enterprise**.

Product must be delivered to meet exacting customer specifications while optimizing the

use of expensive raw materials. Customers also expect deeper traceability of component usage data and as-built process knowledge to meet stringent regulatory and traceability requirements and to provide a foundation for **continuous process improvement**.

Global engineered materials manufacturers need timely and accurate insight into plant operational status to optimize management of raw materials and finished goods.

FUTURE TRENDS

To enable continuous change, **digital transformation** will become a strategic initiative which will **eliminate manual practices like the use of spreadsheets**.

The transformation involves the adoption of new technologies and the improvement of planning and forecasting. Digital transformation will also deliver the benefit of faster time to knowledge and better decision making.

IoT will increase access to the real-time status of manufacturing progress, provide early warnings of potential issues and deliver large amounts of operational data into advanced repositories like data lakes. IoT capabilities will also highlight information across the entire supply chain through monitoring of smart industrial products. Machine learning will be applied to this data to enable analytics that delivers competitive advantage.

IMPERATIVES FOR KEY DECISION MAKERS

Successful COOs will bring IoT and other **advanced technologies** to the shop floor and warehouse to improve quality and delivery. They will also focus on bridging the IT/OT gap through innovative integration methods that help meet the demand for new product variety.

CEOs need to ensure their company is agile enough to execute rapidly on key decisions that impact people, processes, practices, partners and solutions. The CEO will continually need to balance cost, innovation, risk and investment.

CIOs will need to move from old, **insecure systems** with difficult to manage customizations to adaptive solutions. The IT organization needs to help the company rapidly respond to changing business models, to consolidation and to the turbulent external environment.

The VP of Supply Chain has become a strategic role. Agile management of inventory mandates better planning and control of in-process materials and finished goods. It will also require better insight and collaboration with suppliers.



HOW CAN QAD HELP?

QAD has been a trusted solution partner to engineered products manufacturers for decades. QAD offers solutions that allow manufacturers to selectively apply financial, planning and operations capabilities to best support their needs.

QAD Adaptive ERP is designed using industry best practices and provides a comprehensive yet flexible solution for global manufacturers. QAD has been delivering cloud ERP solutions to multinational manufacturers since 2007. QAD Adaptive ERP deployed in the QAD Cloud is a proven solution that is easy to implement, manage and upgrade, freeing up resources for strategic initiatives.

QAD Enterprise Platform, the application platform for QAD Adaptive ERP, simplifies the adoption of advanced technologies for engineered materials manufacturers to support their ongoing digital transformation. Manufacturers can extend their solution using the platform's low/no code development capabilities.

For more information on how **QAD Adaptive ERP** can help your company, please contact QAD at +1-805-566-6100 or email info@qad.com.



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