

MANUFACTURING EXCELLENCE FOR MEDTECH

Boost agility and performance of your global manufacturing operations to produce high-quality medical devices



ENHANCE EFFICIENCY AND TRACEABILITY ACROSS ENGINEERING, MANUFACTURING AND THE SUPPLY CHAIN TO INCREASE TIME TO MARKET.

Now more than ever, the increasing demand for personalized and complex medical devices leads companies to evolve their manufacturing technologies and operational capabilities to drive up quality and productivity, while reducing manufacturing costs. At the same time, they have to rely on a strong value network to industrialize faster and adopt new ways of producing these devices for patients worldwide.

Companies often struggle with efficiently managing and analyzing data for their global manufacturing operations. Yet, by doing so effectively, they can reduce manufacturing costs, address global regulations and improve operational performance across the value network. Opt for the **Manufacturing Excellence for MedTech**— the industry solution experience that allows companies to strengthen agility and produce high-quality medical devices.

Key benefits:

- Up to 30% increase in production capacity
- 33% increase in on-time delivery and forecast accuracy
- 25% reduction in total time to market and batch release time

Engineer, predict and virtually commission lines and plants before real implementation

Producing personalized medical devices on-demand is a significant challenge. The ability to address the growing needs of people afflicted by various diseases remains a top priority to stay competitive. But, delivering a one-of-a-kind device is complex and often costly for businesses.

Companies must adopt a new paradigm to synchronize their industrial assets with manufacturing processes and enable full visibility for all stakeholders to collaborate effectively. This is possible with **digital manufacturing**, which enables companies to standardize and optimize processes while scaling up knowledge and the reuse of data across the entire product lifecycle.

With **Manufacturing Excellence for MedTech**, engineers can **model, optimize and commission** the production line through a virtual experience before the actual product introduction. It allows engineers to quickly understand and implement engineering changes as well as adapt the production line on-demand to accelerate new product introduction (NPI) without additional costs and delays.



Improve production throughput and quality through synchronization and execution of global operations

To continuously produce high-quality and customized solutions to patients globally, the medical device industry needs to synchronize and coordinate manufacturing operations across the value network. However, this is a massive challenge for most companies.

Manufacturing Excellence for MedTech reinforces corporate unity by managing information from global manufacturing operations in a single environment. It promotes collaboration with its built-in manufacturing analytics and reporting features and delivers a real-time view of operational performance on a global scale.

Streamlined forecasting, **planning and scheduling** are essential to driving manufacturing profitability. The solution supports this by providing powerful production flow synchronization across corporate, plant and quality control levels with constraint-based resource optimization.

By preparing equipment with the right parameters, operators and quality control analysts, companies can reduce inventory and batch release time. Accurate data collection and analysis allows for faster root cause analysis while avoiding production downtime.

Reduce cost of quality and establish end-to-end traceability

Manufacturing Excellence for MedTech allows companies to gain a clear view of critical operations, comply with regulatory authorities and maintain high quality while increasing production capacity. The solution enables companies to establish traceability through regulated quality standards and compliance. Companies achieve real-time visibility from various divisions, from the plant floor to the executive office.

The solution provides a real-time view of global manufacturing operations to maximize process performance, quality and compliance risks. It enables easy data access, automated aggregation and advanced contextualization for quick identification and isolation of defective materials.

Manufacturing Excellence for MedTech reduces manufacturing costs by avoiding costly mistakes that can harm the company's reputation, such as non-conformances and regulatory recalls.

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

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