

LIFE SCIENCES & HEALTHCARE

MADE TO CURE FOR BIOPHARMA

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



IMPROVE AGILITY AND PRODUCTIVITY ACROSS DEVELOPMENT, MANUFACTURING AND SUPPLY CHAIN

To meet today's needs, pharmaceutical companies must maximize efficiency and produce high-quality, innovative therapeutics at reduced costs. At the same time, they have to rely on a strong value network to quickly adapt their facilities and adopt new ways of producing to provide these treatments to patients worldwide.

While many companies rely on paper-based communication and procedures to operate their global manufacturing operations, business line managers see multiple opportunities to optimize technology transfer costs with lower risks, address global regulatory constraints and improve operating performance across the value network. **Made to Cure for Biopharma** Industry Solution Experience enables companies to boost the agility and performance of their operations to produce high-quality medicines.

Key benefits:

- 25% gain in production throughput
- 30% increase in production capacity through layout optimization
- Up to 60% increase in manufacturing efficiency
- Drive to zero batch failure and deviation
- Lower inventory by 35%
- 33% increase in on-time delivery and forecast accuracy
- 80% reduction in QC release activities' time
- 80% reduction in human error

Design, optimize and commission manufacturing lines and processes before implementation

As pharmaceutical manufacturing lines transition towards small batch production of precision medicines, companies need to achieve end-to-end manufacturing line optimization to produce sustainably.

Companies must adopt a new paradigm to optimize their complex industrial plants, processes and products. This is possible with **digitalized manufacturing**, which enables effective collaboration between diverse stakeholders.

With **Made to Cure for Biopharma**, 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.



Optimize global manufacturing operations with lean practices and production scheduling and execution

The main challenge for companies is to synchronize all manufacturing operations across the value network as they strive to consistently produce high-quality medicines to patients worldwide.

Made to Cure for Biopharma reinforces corporate unity by managing information from global manufacturing operations in one single environment.

Streamlined forecasting, **planning and scheduling** are essential to driving manufacturing profitability. The solution supports this by providing the power of production flow synchronization and constraint-based, finite-capacity resource optimization.

Companies can also **reduce inventory and lead time** while **increasing production** by aligning raw materials and components with production, quality control and equipment maintenance processes to eliminate obsolete inventory.

Optimize product quality, yield and costs across the manufacturing value network

A proper continued process verification is a crucial initiative for any pharmaceutical company to comply with regulatory authorities, monitor processes and maintain a consistent state of control while improving manufacturing productivity.

Made to Cure for Biopharma provides a real-time view of global manufacturing operations to maximize process performance and increase visibility into process operations, quality and compliance risks. The solution allows easy data access, automated aggregation and contextualization.

Companies can create a robust and sustainable commercial production process **by monitoring and correcting the performance of critical production operations** in real time through automated alerts. Real-time monitoring improves decision-making during batch production and establishes a data-driven culture for process-knowledge sharing and collaboration.



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