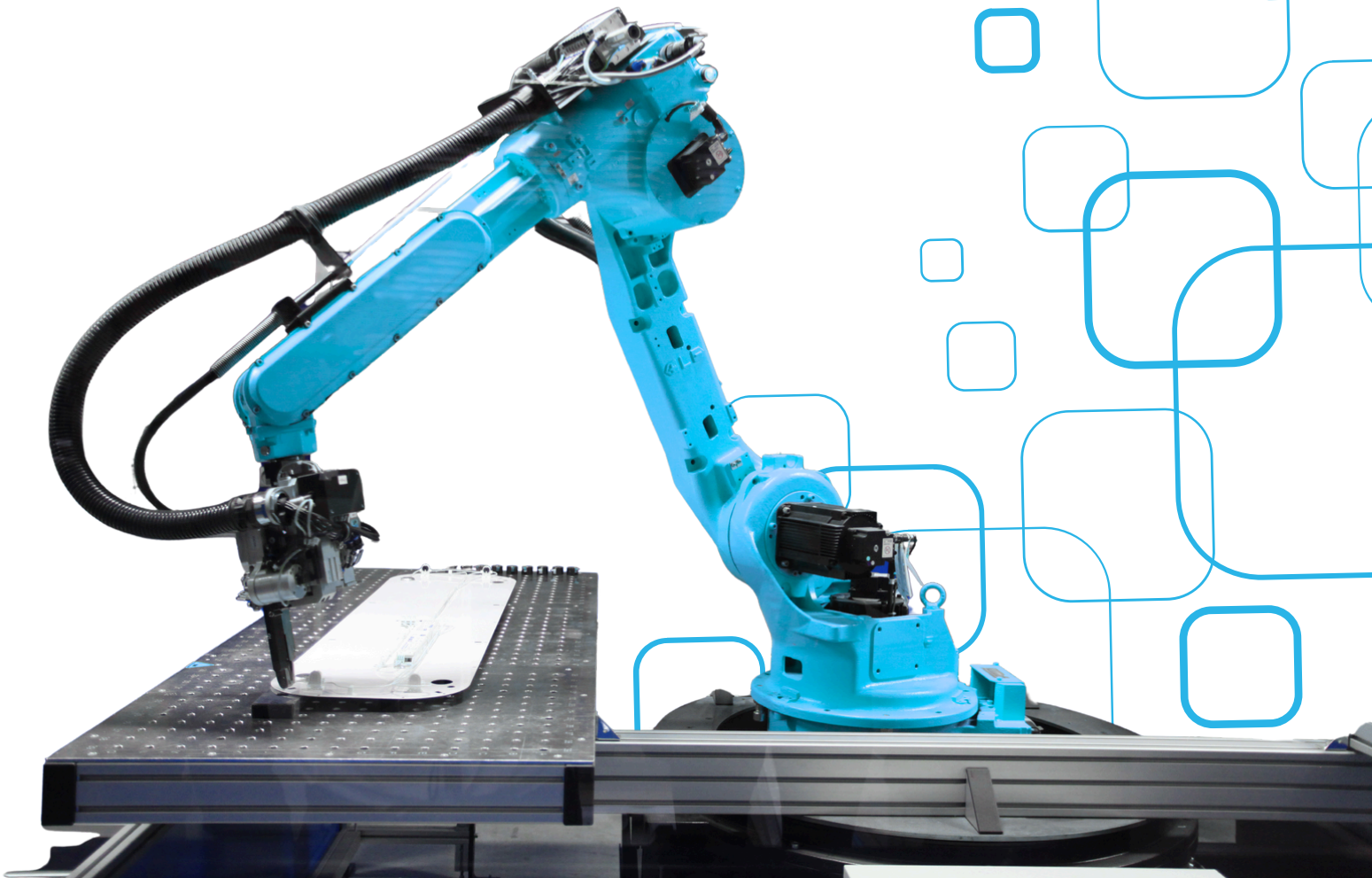


# Cerexio MCT

Manufacturing Control Tower

Optimise Your Manufacturing Efforts with  
Bird's Eye Insights

[www.cerexio.com](http://www.cerexio.com)



# Introduction

## Transform Smart Powers into Great Visibility Enablers and Sharpen Decision-Making with Cerexio

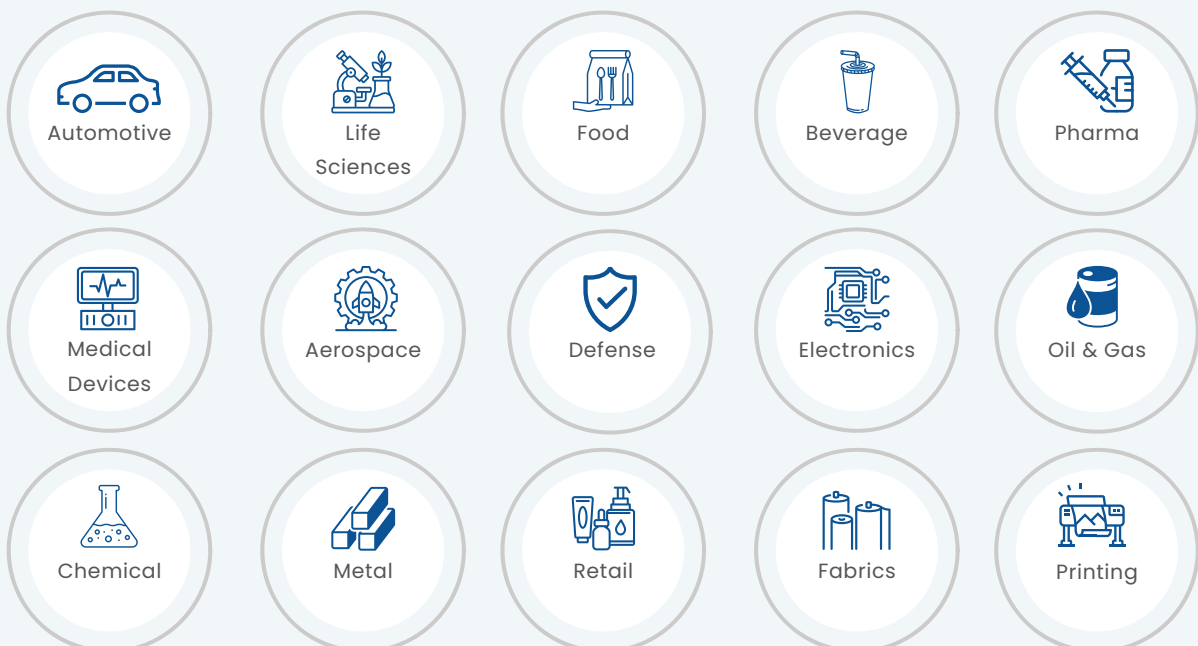
Cerexio Manufacturing Control Tower has been plotted to empower your manufacturing systems with unparalleled operational optimisation, ensuring compliance with legal and regulatory standards across your entire supply chain with magnified precision. Blending the essence of scientific vision with practical screening, this platform becomes the newest player in the manufacturing ground.



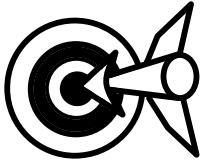
**Top-notch analytical, learning, and decision-making capabilities**

@Cerexio Smart Manufacturing Solutions

### Industries We Serve



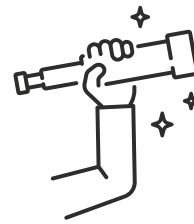
# Key Highlights



## 1. Success-Oriented Approach

### 1. Success-Oriented Approach

Our solution undergoes self-reconditioning as its intelligent machine-learning models dynamically adapt to operational trends, catering to unique market demands.



## 2. Deeper Forecasting

Cerexio empowers your manufacturing, warehousing, and logistics lines to seamlessly navigate peak periods, budget, or resource constraints through the power of AI.

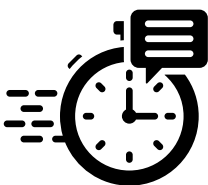


### 3. Native Cloud Architecture

Swift deployment without restricting access to just a few users and embraces the freedom of seamless scalability and accessibility through its flexible and innovative structure.

## 4. Prescriptive Decision Support

Our advanced system empowers manufacturers with unparalleled foresight, allowing strategic interventions to optimise operations.



### 5. Quick Response Enabler

Capacity to foresee and swiftly address potential risks, disasters, and opportunities while staying ahead of challenges and capitalising on emerging possibilities.

## 6. Super Visibilities

Uses Digital Twin, AI, and ML to provide extensive analysis throughout the entire production cycle via virtual representations of physical manufacturing processes or models.



# Industry 4.0 Capabilities We Offer

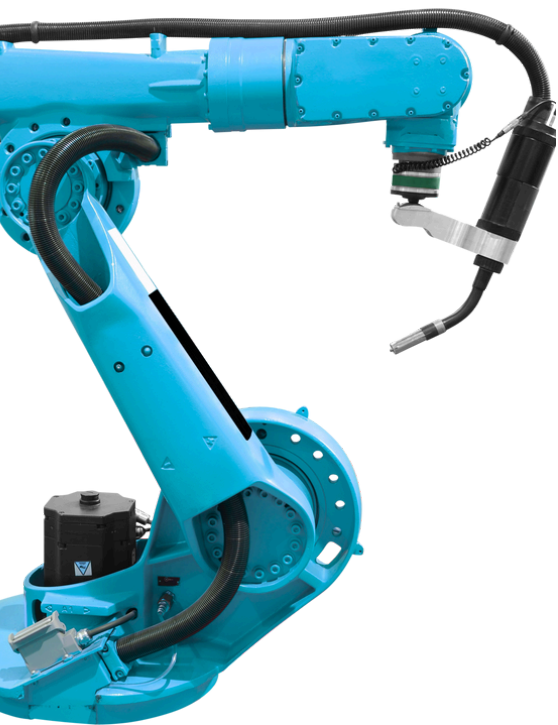
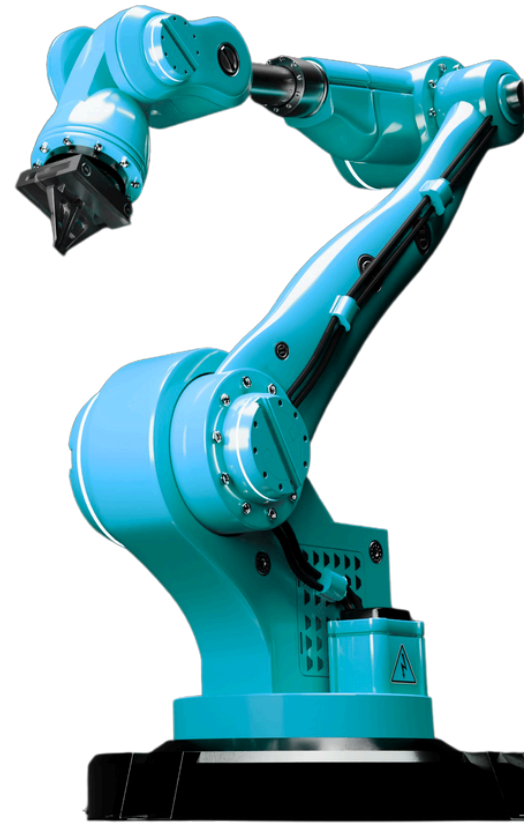
1 AI & Machine Learning

2 Big Data

3 GIS

4 AR/VR

5 Simulation



6 Satellite Remote Sensing

7 CCTV and Laser

8 5G, IoT, Quantum Sensors

9 Digital Twin

10 Robotics and CPS

# Cerexio MCT Modules



## **Simulated Manufacturing Control Centre**

Cerexio solution extracts the values of the interactive simulation platforms, driven by digital twin technology, and provides a comprehensive view of the entire manufacturing network via one centralised platform while allowing swift planning and adjustments to make demand-specific decisions in real time.



## **Smart Order Scheduler**

Cerexio solution walks beyond traditional limitations to efficiently prioritise and automate customer orders, ensuring timely execution of supply chains. Our solution backs up initiatives to meet deadlines through order scheduling while giving more weight to the orders that need to be done immediately.



## **Comprehensive Stakeholder Profile**

Our Industry 4.0 technological consolidation establishes a platform to gather suppliers and third-party service providers influencing your manufacturing operations to gain insights into the profitability of each entity, distinguishing strategic investments aligned with ROI-generating trends.



## **Reverse SCM Trackers**

This solution monitors the return journey of your clients' goods to your firm through smart reactive trackers. The system evaluates the reasons for returns and initiates refund processes seamlessly. Cerexio encourages the control tower to automatically assess potential insurance claims accordingly.

# Cerexio MCT Modules



## RFID Technology

Cerexio Manufacturing Control Tower is equipped with embedded RFID tags and wireless LAN integration that are employed for final products and transport vehicles for swift authentication and accelerated goods transportation to track the precise location of deliverables, eliminating the need for manual availability checks.



## Impendency Forecasting Tools

Cerexio solution is influenced by Predictive and Prescriptive analytics to offer robust forecasting capabilities that easily capture production historical data, market data, and performance statistics to predict demands and required operational upgrades in order to run a smooth operational background.



## Super Analytical Capabilities

Cerexio Manufacturing Control Tower unlocks a suite of analytical tools that back up operating models with intelligent and insightful directives. Our solution is specifically developed to unleash the power of AI to pose pertinent questions and receive flawless answers, all consolidated under a single, responsive platform.



## Spend Refiner

Cerexio solution is empowered with smart technologies to evaluate current spending practices in the manufacturing domain and streamline source-to-contract procedures before engaging with optimal suppliers. It aids in digitising spending processes across all expense categories seamlessly via automation powers.



# Cerexio MCT Modules



## **Change Management**

Cerexio Manufacturing Control Tower extends its digitalised hand to adjust to market demands and fluctuations in real time as it employs a robust change management system that allows manufacturers to plan and implement significant changes in the operational, management, and administrative domains.



## **Dynamic Capacity Optimiser**

Cerexio Manufacturing Control Tower harnesses advanced AI algorithms to dynamically assess and optimise production capacity across multiple facilities. By continuously analysing machine availability, workforce allocation, and material supply, it enables real-time adjustments that maximize throughput while preventing bottlenecks, ensuring that manufacturing operations remain agile.



## **Integrated Risk Management Dashboard**

Our solution incorporates a comprehensive risk management dashboard that consolidates data from supply chain disruptions, equipment health, and market volatility. This proactive tool identifies potential vulnerabilities early, quantifies their impact, and suggests mitigation strategies, empowering decision-makers to safeguard operations and maintain business continuity with confidence.



## **Collaborative Innovation Hub**

Cerexio Manufacturing Control Tower fosters a collaborative environment by integrating communication and project management tools within the platform. This hub connects cross-functional teams, suppliers, and partners to co-create innovative solutions, accelerate problem-solving, and streamline product development cycles, ultimately driving continuous improvement and competitive advantage.

# Cerexio MCT Benefits

## Level Up Productivity and Practicality in Production with the Best Control Technology 4.0

Cerexio Manufacturing Control Tower consolidates the purest essence of Industry 4.0 technologies to ensure the precision and productivity of the manufacturing framework remain on point. From planning production to warehousing and logistics, each element is practically enriched with efficiency and accuracy via smart technologies. The following are some of this solution's primary characteristics:

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### **Modernistic Supply Chain Analysis**

Within our solution lies a framework empowering your supply chain managers to thoroughly research and analyse optimal service providers, which ensures that your deliverables reach their destination seamlessly, adhering to the right place, method, and schedule.

### **Best Customer Care**

Our dedicated business coaches and IT support crew are committed to ensuring that your team maximises the potential of the Cerexio Manufacturing Control Tower at every juncture, as Cerexio offers support beyond implementation, fostering ongoing collaboration and knowledge transfer with the necessary guidance and technical expertise.

### **Digital Modernisation**

Cerexio Manufacturing Control Tower offers a comprehensive and robust strategy to intelligently guide and shape your manufacturing operations into a perfect shape via the strengths of Predictive Technology, AI and ML models, Digital Twin, IoT, Blockchain, and more, keeping more weight on standardisation.

### **Industry-specific Configuration**

The Cerexio platform empowers you to recognise your priorities and customise procedures to align with your distinct requirements and technological preferences. This dynamic approach ensures that our solution allows you to bridge the gap between your present state and the envisioned future.



# Cerexio MCT Benefits

## Engineering the Future — One Solution to Many Problems at a Time.

The Cerexio Manufacturing Control Tower acts as a lighthouse for the manufacturing domain as it extracts the Industry 4.0 digital capabilities under one screen to enhance transparency and visibility, magnifying industry efficiency to an unlimited extent. This leads the operations through a future-proof silk route while keeping its sustainability promise.

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### **Speed-to-Market Opportunities**

Cerexio solution optimises your companies' performance in this dynamic market via prescriptive data insights to adeptly discern demand patterns, providing a strategic advantage in anticipating and meeting your supply chains' profitability benchmarks within a shorter time than you expect.

### **Universal-scale Security**

Cerexio employs end-to-end security protocols and advanced data access authorisation methods to guarantee the safeguarding of your sensitive order details, contract data, and other proprietary information throughout the entire production and supply chain life cycles.

### **Enhanced Decision-Making Agility**

Cerexio Manufacturing Control Tower equips your leadership with real-time, data-driven insights that accelerate critical decision-making processes. By synthesizing complex manufacturing and supply chain data into intuitive visualisations and actionable recommendations, the platform empowers your team to swiftly respond to market changes, operational challenges, and emerging opportunities with confidence and precision.

### **Seamless Integration Ecosystem**

Our solution is designed for effortless interoperability with your existing enterprise systems, including ERP, MES, CRM, and SCM platforms. This seamless integration ensures smooth data flow across departments, eliminates information silos, and enhances cross-functional collaboration, resulting in a unified digital ecosystem that drives operational excellence and continuous innovation.

# Cerexio Client Stories

Cerexio has been at the forefront of digital transformation in manufacturing, empowering companies to achieve operational excellence and sustainable growth. Through its flagship solutions, Cerexio has partnered with industry leaders to solve complex challenges, ranging from throughput optimisation to emission control, while delivering measurable business value.

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## **A company that manufactures and fabricates precision parts, moulds, and dies.**

1

Vertically-integrated manufacturing services since 1978. They had a challenge in digitally transforming factories to improve operational efficiencies and reduce labour costs.

CEREXIO MES improved the throughput by digitally transforming their factory of 200+ moulding machines while the same labour capacity was able to deliver a +10% profit

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## **Cement Manufacturer**

2

According to Forbes, this company was on the list of the 700 largest global public companies in 2015. They had challenges in achieving kiln stability and optimisation.

CEREXIO MES was utilised by them to prevent poor quality, suboptimal throughput, unhealthy emission rates and energy losses by predicting failures in cyclone infrastructure.

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## **ARTC- Advanced Remanufacturing Technology Centre**

3

A Singaporean government agency that researches to facilitate the advanced manufacturing ecosystem in the region.

CEREXIO MES Services and Modules optimised their hyper-personalisation Line- a solution that manufactures personalised products in a fully automated production line.

# Contact Cerexio

Don't hesitate to get in touch with us for further clarification or to book a demo this week. The contact particulars of our company are as below:

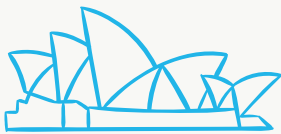


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