

Cerexio MES

Manufacturing Execution System

The Future of Manufacturing Excellence Brought
to Your Factory Floor Today

www.cerexio.com



Introduction

Transform Your Manufacturing Efforts to Bring More Value, Yield and Quality With Lesser Investments

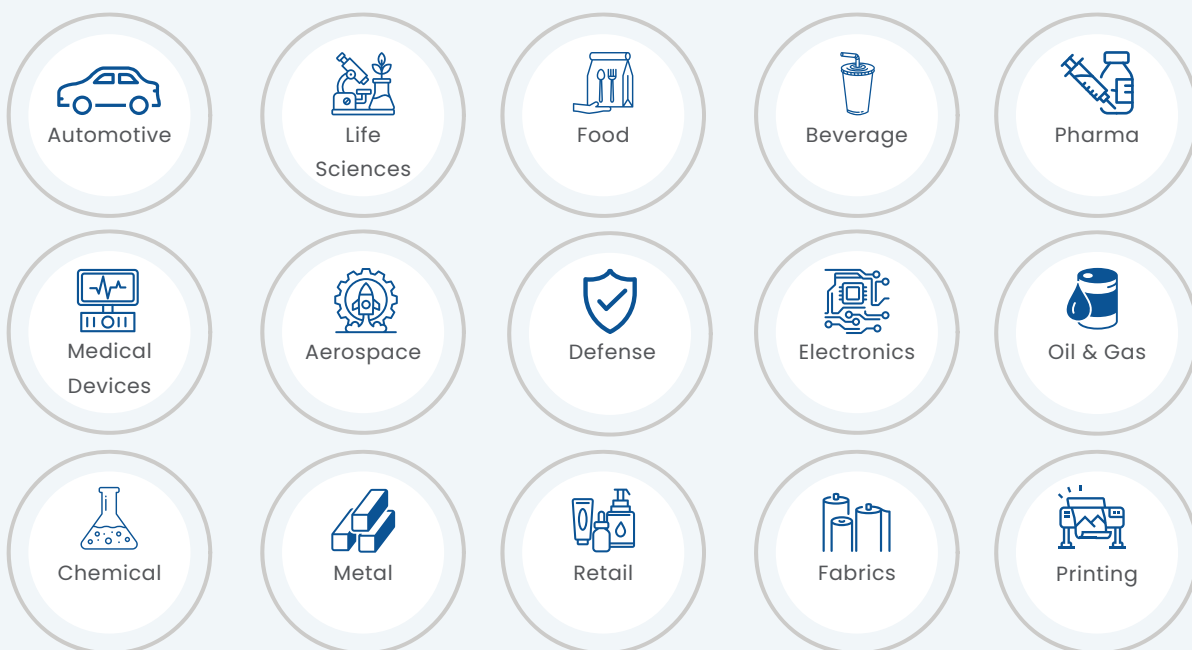
The emergence of Cerexio MES marked a revolutionary evolution in smart manufacturing technology in the manufacturing sector in Singapore. Cerexio MES creates a bridge between your business plans, logistics, supply chain, manufacturing operations and dynamic process control systems using world-class integration, robustness and speed. Familiarise yourself with the key highlights of your favourite MES counterpart.



Smarter, Greener and Leaner Manufacturing Starts Here with Cerexio

@Cerexio Smart Manufacturing Solutions

Industries We Serve



Key Highlights



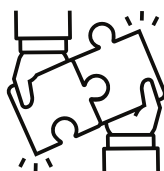
2. Better Yield, Fewer Risks

With the smart digital technologies enabled by Cerexio MES, your manufacturing facilities can meet ISO standards with net-zero human intervention by improving yield, quality and performance in one go.



4. Money Savers

As a result of Cerexio MES, your managers are enabled with a variety of AI tools that allow them to determine KPIs and identify opportunities to reduce costs in the end-to-end product lifecycle.



6. Talent-oriented Labour Utilisation

Get maximum use of labour by putting a stop to labour exhaustion and fatigue while increasing retention rates by giving them their own technology counterparts.

1. A Promising Sustenance

This solution stimulates three pillars: sustenance, quality improvement and supply chain integrity, which gives you a competitive advantage even with limited resources, time and equipment.



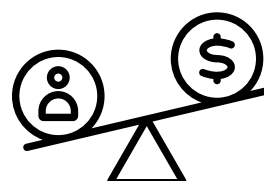
3. Multiple Event-Driven

Using cross-process analysis to investigate and track the influence of each inefficiency and represent correlations in a single, smart dashboard by combining seamless data sources into a single production environment.



5. One System Multiple Solutions

With premium integration, Cerexio MES acts as a core intelligence point to co-related manufacturing process standards with your company's business processes and logistics under a single glass pane.



Industry 4.0 Capabilities We Offer

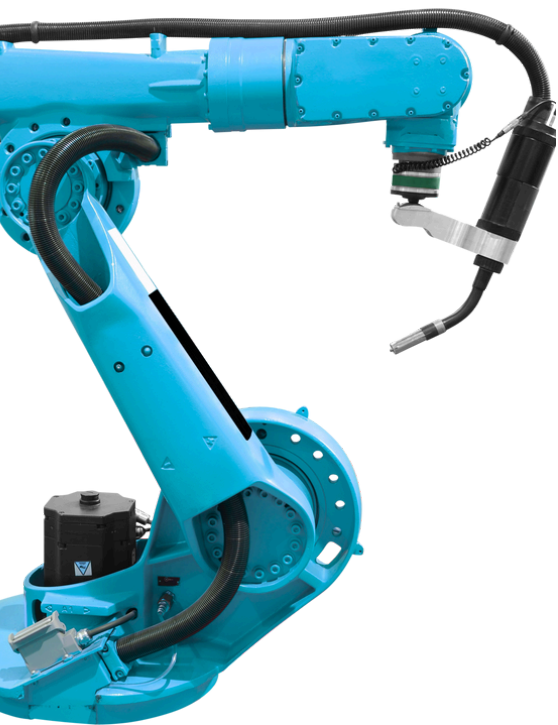
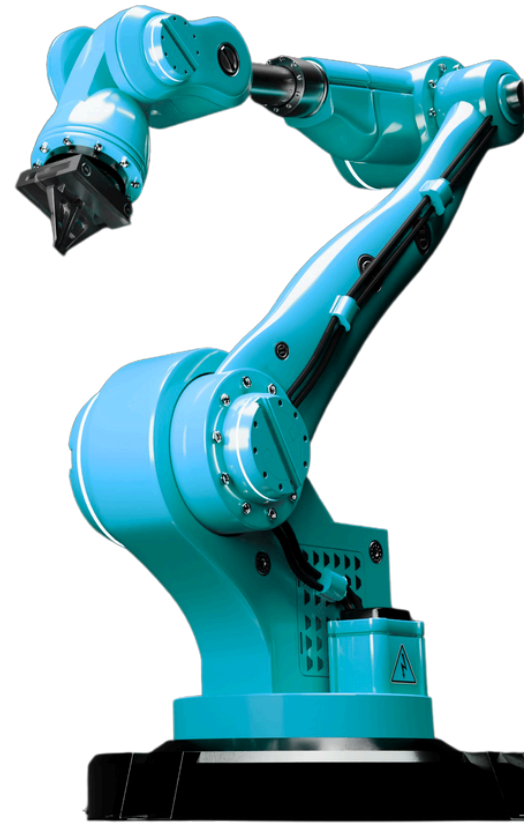
1 AI & Machine Learning

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 MES Modules



Automated Quality Controllers

The inbuilt Quality Control Management module can be utilised to manage all your quality assurance tests on your factory floor. It consists of tools for audit management, data integrity, change controller, NCM management and more.



Factory Waste Management

This solution also inhabits a smart factory disposal management system that helps your managers identify waste and recyclable items without spending time visiting your factories. It documents all waste segregation operations during day-to-day operations.



Warehouse Optimisation Module

The integration capacity of Cerexio MES makes it easier to manage your warehouse events as well. It integrates the WMS sources into the MES function, thus, improving production planning, resource usage, forecast expected buffer stock and improving efficiency even for small batches.



Intelligent Scheduling Tool

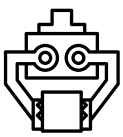
This is an AI-based module that adds intelligence to scheduling and adjusts the scheduling and labour utilisation to the optimum level. Thus allowing your factory managers to assign work based on worker potential to avoid labour fatigue.

Cerexio MES Modules



New-age Data Technology

This module focuses on cleansing the manufacturing data to predetermined standards and future usage and migrating cleansed data to the relevant databases and services with less traffic and resilience to data security threats.



One-to-all Machine Maintenance

With AI-driven IIoT asset control profiles, you can use this tool to predict, prescribe and prevent all machine failures and optimise the uptime of the individual machines or fleets with smart and integrated asset management suites.



Work Order Management

This module focuses on dramatically decreasing asset downtime and ensuring that all your factory work orders are completed in a timely and resourceful manner. It gives the user a comprehensive insight into operations and tracks performance ideally.



Product Information Management

Utilise the modern product information manager of this solution to gain centralised access to products, starting from their production, sales and distribution using the digital channel manager of Cerexio PIM.

Cerexio MES Modules



Smart Tracker and Tracer

By employing this tool, manufacturers can improve the traceability of each part of manufacturing processes in real time. The Supply Chain Process Serial Control is one of the essential features of this module; it promotes unique tracing capabilities.



Supply Chain Controller

Adopt Cerexio MES to get a bird's eye view of the flow of goods and services across your production lifecycle from factories and warehouses all the way to your clients under a single multi-featured glass pane.



Digital Age Message Broker

Multi-Protocol Message Broker deployed in this solution is a proprietary Cerexio technology. It is infused with Cerexio MES to broker all messages among devices and systems in real-time despite the degree of throughput in your manufacturing space.



Timesheet and Payroll Management

Get a full-scale view of the number of hours your employees have dedicated to you and how they meet their potential on time. This tool keeps automated logs of your labour wages and work hours by saving an enormous amount of time, money and effort.

Cerexio MES Benefits

Cerexio Brings Forth Sleek Manufacturing Without Additional Risk or Expenses

With unguided root cause analysis, a coalition between multiple systems and transparent manufacturing process optimisation, Cerexio MES is at the leading edge of pushing manufacturers towards success. Here are some main benefits of adopting Cerexio MES to your manufacturing ecosystems.

Save Millions With A Unwavering Yield

Cerexio MES is known to many manufacturers in Singapore for its amazing features, functions and modules that help in reducing millions of dollars during operations. With healthy assets, optimal labour utilisations and seamlessly accurate tracking and tracing abilities, your manufacturing vicinity too can bolster with Cerexio MES.

Augmented to Manufacturing Demands

One of the fascinating benefits of Cerexio EMS is its unchallenged ability to augment. It uses AI models to adapt itself to meet your specific demands, regardless of your level of production or the complexities of your business plans. It is equally servicing small-scale and large-scale manufacturers alike, making it a true solution.

An ERP-friendly MES Solution

Cerexio MES supercharges changes in demand by relating to ERP-based production plans. This responsive technology allows your manufacturers to control production volumes to align with business and market concerns by forecasting expectations and controlling operations while aligning with your existing ERP.

Net-zero Wastages

May it be expenses, otiose efforts, risks or any other convenience, Cerexio MES is built to be responsive to all wastages. It is trained to keep your decision-makers updated with threats and struggles that keep you distant from your goals and objectives. Therefore, it can be seen as a smart problem-solver.

Cerexio MES Benefits

Build a Firm and Unchallenged System From an Optimised Bottom Line

Cerexio MES specialises in helping forward-thinking manufacturers accommodate futureproof MES modules that ease the transitions from existing manufacturing practices to modern manufacturing standards. Here are some of the main Cerexio MES features you cannot afford to miss.

Cloud-driven Environment Setup

Cerexio offers premium PLC and instrumentation services for their clients on-prem or through the cloud. We set up the cloud servers (such as AWS) for the factory's digital transformation requirement and help your employees harness the fullest potential of Cerexio MES without disrupting your streamlining processes.

Premium Quality Control Measures

Cerexio MES offers the sleekest Quality Management System for modern manufacturers to prosper in the virtual culture by digitising quality events for accurate quality assurance. It is an innovative and highly integrative QA tool to manage all your quality assurance tests on your factory floor.

Full-scale Product Profiles

Cerexio MES allows users to use an AI-based Product Information Manager, that delivers comprehensive, scalable insights on products using real-time information from multiple sources. AI models understand the links between distinct product data points and identify relationships.

User-friendly HMI Interfaces

The client-oriented HMI Interfaces are another main user benefit. The HMI interfaces for Television, HMI devices, Mobile Gadgets, and other HMI devices with appropriate API integrations allow users to employ this solution in a user-centric manner. It's easier, faster, intuitive and fun to use during operation.

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 Manufacturing Execution System (MES), Cerexio has partnered with industry leaders to solve complex challenges—ranging from throughput optimization to emission control—while delivering measurable business value.

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

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.

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:

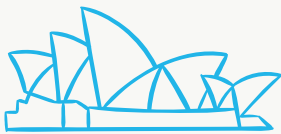


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