

BROCHURE



CEREXIO MACHINE HEALTH MONITORING SYSTEM

Industry 4.0 definitions demand the collaboration between Cyber-Physical Systems and smart digital capabilities, and we make that definition an actionable strategy to narrate your success story. Cerexio Machine Health Monitoring System is a multifaceted solution for your physical asset managers to oversee end-to-end machines and equipment in your industrial zones under a smart, scalable and analytical lens.

Know your assets better with Cerexio Machine Health Monitoring System- the best Asset Manager 4.0 of an asset-dependent industrial age.



KEY HIGHLIGHTS

Safeguarding Success By Enhancing Machine Efficiency with AI, IoT and More

Cerexio Machine Health Monitoring System leverages the potential of IoT, AI, Digital Twin, Predictive and Prescriptive analytics, and various other advanced digital capabilities; this solution is designed to extend the operational lifespan of your machines through a unified approach.



AUTOMATION AND SEAMLESS INTEGRATION

Cerexio Machine Health Monitoring System, combined with our instrumentation and Programmable Logic Controller (PLC) services, elevate the intelligence, speed, and efficiency of your machinery. This system incorporates AI and ML automation, predictive capabilities, and other digital features to enhance the operational efficiency and lifespan of your machines.



IMMERSIVE VISUALISATION

Witness the life cycles of individual machines or entire systems through simulated environments, allowing you to explore your physical assets in the virtual realm. Utilising AR/VR technology, simulative digital twins, and real-time dashboards empowers your machine service providers to gain in-depth insights into machine conditions, performance, and criticalities.



UNMATCHED ANALYTICAL PROWESS

Cerexio brings a decade's worth of analytical expertise driven by AI-based machine analytics, providing comprehensive insights into future machine performance variations, condition degradation, and maintenance budget considerations. Keep your decision-makers optimally informed with Cerexio's unchallenged analytical excellence.



PREDICTIVE MAINTENANCE EXCELLENCE

By employing sophisticated algorithms and predictive analytics embedded in Industry 4.0 technologies, the system anticipates potential issues and prescribes proactive maintenance strategies. This not only minimises unexpected downtimes but also optimises maintenance costs, ensuring your machinery operates at peak performance consistently.



DATA-DRIVEN DECISION MAKING

Empower your decision-makers with Cerexio's commitment to data-driven decision-making. The system leverages advanced data analytics, utilising Industry 4.0 smart digital technologies to provide actionable insights. By harnessing the power of big data, Cerexio ensures that your decision-makers have access to real-time and historical data, facilitating informed and strategic decision-making for improved operational performance.



EDGE COMPUTING EMPOWERMENT

By processing data locally at the edge of the network, the system reduces latency and enhances real-time decision-making. This not only ensures faster response times but also minimises the strain on central servers. Embracing edge computing, Cerexio optimises the efficiency of your machinery, making it a cornerstone of your Industry 4.0 strategy.

Precision Monitoring and Undying Proactive Performance Starts Here

Cerexio Machine Health Monitoring System stands at the forefront as the premier software solution for contemporary users of industrial assets, aiming to optimise expensive physical asset systems with reduced risks, costs, and wastages.

3D/4D Factory Modelling



Experience a simulative platform with Cerexio that empowers asset managers to analyse and submit requests remotely. Our digital twin solution ensures swift machine optimisation with unparalleled visualisation, surpassing market alternatives.

AI-powered Machine Prognostics



Harness the smart analytical framework of our system, tailoring machine prognostics reports to user-defined information. This dynamic approach saves time, streamlining the decision-making process based on specific requests.

Energy Consumption Oversight



Monitor greenhouse gases, compressed air, and other parameters affecting labourers and the environment with Cerexio Machine Health Monitoring System. Its machine learning models ensure overall eco-friendliness through state-of-the-art green technologies.

ESG-compliant Power Management



Stay ahead in asset management with Cerexio's continuous improvement, uniquely addressing ESG policies. This system stands as the sole solution integrating ESG principles for safer, smarter, and greener manufacturing.

CEREXIO MACHINE HEALTH MONITORING SYSTEM MODULES

Exemplary Cybersecurity Measures



Cerexio's proprietary security protocols guarantee futuristic data protection, encryption, privatisation, and anti-theft mechanisms. Safeguard your sensitive asset and financial information, ensuring unauthorised users remain barred from access.

Proactive Risk Indicators



Detect harmful impacts during machine utilisation or maintenance with our solution's failure prediction and real-time fault detection technologies. Powered by AI and ML, the Failure Mode And Effects Analysis (FMEA) Module enhances asset manoeuvring capabilities.

Robust IT Integration



Seamlessly integrate Cerexio Machine Health Monitoring System with MES, ERP, Asset Maintenance, Project Management, and other IT frameworks. Keep permitted stakeholders updated in real-time with comprehensive end-to-end asset information.

Smart Machine Calibration



Elevate performance with Cerexio's Smart Machine Calibration, leveraging advanced algorithms for peak efficiency. Enhance reliability and reduce downtime, upgrading your industrial operations with precision and intelligence.

Unlimited Sensor Input Channels



Integrate IIoT with Cerexio to consolidate sensor data (vibration, force, temperature, pH Value, RPM, thermocouple, RTS, thermal video, etc.). Uncover hidden root causes behind machine performance declines and spontaneous breakdowns within a single, intelligent system.

BENEFITS

Empowering Industries Through Smart Data Insights and Operational Excellence

Explore the benefits of Cerexio to understand how our comprehensive asset data perspective empowers you to make efficient, asset-friendly, and time-saving decisions for your industrial facilities and sites. With Cerexio, experience a new era of operational intelligence, where data-driven insights pave the way for innovation, cost-effectiveness, and sustainable growth.



DECADE OF INSIGHTFUL VIGILANCE

Benefit from a 10-year legacy of anomaly detection, asset health profiling, and compliance reporting, positioning you ahead of industry trends and challenges with unrivalled foresight.



ISO COMPLIANCE ASSURANCE

Ensure your asset conditions align with ISO 55000 and ISO 13374 industry standards. Cerexio guarantees compliance, providing a solid foundation for robust asset management within regulatory frameworks.



SECURE DATA SHIELD

Fortify your data with stringent authorisation and authentication protocols. Cerexio keeps data phishers and virtual thieves at bay, ensuring the utmost security for your sensitive information in the digital realm.



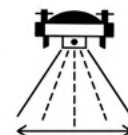
GREEN MANUFACTURING INTEGRATION

Make your factories not only smarter but greener. Cerexio integrates green manufacturing models into its Machine Health Monitoring System, optimising operational processes for enhanced sustainability and environmental responsibility.



STRATEGIC MAINTENANCE

Cerexio offers extensive yet scalable machine profiles, unveiling insights into Remaining Useful Life (RUL) and Reliability-Centred Maintenance (RCM) strategies. Enhance management efficiency and extend asset lifespan.



WIRELESS SENSOR NETWORKS

Ensure reliability with wireless sensor networks enabled by expert instrumentation services, focusing on thermal imaging and vibration analysis. Cerexio guarantees a robust foundation for continuous machine health monitoring.

INDUSTRIES

Embark on a transformative journey with Cerexio Machine Health Monitoring System, a state-of-the-art solution designed to elevate operational excellence across diverse sectors. Our cutting-edge technology seamlessly integrates into various industries, offering unparalleled insights and control over your industrial assets. From optimising performance to enabling predictive maintenance and ensuring compliance adherence, Cerexio caters to a wide spectrum of fields. Discover a comprehensive solution tailored to your industry needs, providing a smarter, greener, and more efficient future for your operations.

- Aerospace
- Agriculture
- Automotive
- Chemical and Petrochemical
- Construction
- Energy (including Renewable Energy)
- Food and Beverage
- Healthcare
- Manufacturing
- Mining
- Oil and Gas
- Pharmaceutical
- Telecommunications
- Transportation and Logistics
- Utilities
- Water and Wastewater Management

CONTACT US

Don't Hesitate to Get in Touch With Us for Further Clarification or to Book a Demo This Week.

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