

Practical Manufacturing Execution (PME) Applications

CIBER PME is powered by the SAP MII engine and is extended with CIBER applications and Original Equipment Manufacturer (OEM) Partner Apps to provide a complete solution for manufacturing organizations. These solutions each provide needed functionality to facilitate smoother user interaction, decision support and information that is easy to access. Each App can be employed as needed to ensure your organization is only buying what is required, rather than getting solutions that will not be used.

These OEM Apps include:

Overall Equipment Effectiveness (OEE) Analysis

Analysis, monitoring and improvement of machine and plant efficiency require a professional solution that meets the requirements of modern production companies. PME-OEE Analysis provides a meaningful overview of the production status, and thereby significantly contributes to increasing profitability.

Benefits include:

- Direct creation of value by employees: pure production time / total paid time
- Reliability: average time between failures, (i.e. when the equipment functions properly)
- Maintainability: Characteristic of design and installation which determines the probability that failed equipment or a system can be restored to normal operation within a given timeframe using the prescribed practices and procedures. Its two main components are the ability to be serviced and repaired.

Scheduling Board

On-time delivery, cost reduction and resource optimization are criteria that modern production companies must face in order to participate in today's delivery chains. PME Scheduling Board serves as the core tool of a transparent and optimized production-control system, giving you holistic control of your processes and resources.

Benefits include:

- Increased transparency in production
- Reduce throughput times
- Improved machine utilization
- Minimize semi-finished inventory
- Achieve efficient scheduling
- Generate additional integrative benefits

Time and Attendance

As a powerful system for effective planning, collection and management of personnel work times, PME Time and Attendance enables you to conduct holistic, modern time management. PME Time and Attendance also provides individual work-time management with short-range reaction to plant events.

Benefits include:

- Reduced personnel management costs
- Simple and flexible arrangement of work times
- Increased efficiency through integration with planning
- Motivate employees with information
- Simple operation yields acceptance by employees

Machine Data

PME Machine Data is a high-performance system for automatic transfer of data on machine states, piece counts and processes. Providing and evaluating up-to-date information about machines provides you with decisive benefits to optimally exploit your capacity potential.



PME Applications include:

- OEE Analysis
- Scheduling Board
- Time and Attendance
- Machine Data
- Plant Data

Benefits realized:

- Achieve more transparency in production
- Minimize cost of idle time
- Remove error in data reading
- Collect machine data without expensive terminals
- Optimize machine capacity utilization

Plant Data

Complete transparency and up-to-date production data are decisive for on deadline, optimized shop management. PME Plant Data is a powerful information system for your production that enables you to optimize your competitiveness.

Benefits include:

- The data lends transparency in your production
- Enables flexible design in reporting procedures
- Complete order and charge tracking
- Simplify paper logistics
- Integration opportunities
- Save time and avoid redundant data input
- Improve the quality of your data

Production Info

PME Production Info provides production data information in management-oriented form at the right time and place. Analysis such as capacity utilization, causes of failures or waste, machine operation times and degree of utilization are easily accessible to make quick decisions.

Benefits include:

- Extracts information from your data
- Simple user interface
- Automated reporting
- Standardized data querying

- Flexible authorization for security
- Flexible reporting in a standard environment

Plant Control

Analysis, monitoring and optimization of machine and plant efficiency require a professional solution that meets the demands of a modern production enterprise. PME Plant Control is an MES solution specializing in indicator analysis and includes machine data collection. With this practice-tested control system, a click of a button provides you with a meaningful overview of the state of your production system and helps increase profitability.

Benefits include:

- Quick introduction of system for indicator analysis
- Supports the monitoring for improvement of processes
- Transparency into your production
- Extendable to mobile devices
- Dashboards, alarms and graphs available to view

Why CIBER?

CIBER is results-oriented and quality focused. Our subject matter experts and technical experts use best practices to help you bridge the gap from where you are today to where you want to take your manufacturing initiatives in the future. Talk to us, we can help.

Learn More

To learn more about CIBER PME and all of our solutions, **call 800-242-3799, or visit www.ciber.com**

About CIBER, Inc.

CIBER, Inc. is a global information technology consulting, services and outsourcing company applying practical innovation through services and solutions that drive tangible results for both commercial and government clients.

CIBER addresses key vertical industry markets by combining in-depth industry knowledge with a solid track record of delivery. We design and build solutions collaboratively with our clients, leveraging our strategic alliances with market-leading software and technology suppliers around the world.

Founded in 1974, CIBER has more than 8,500 employees and operates in 19 countries, serving clients in North America, Europe and Asia/Pacific. Traded on the New York Stock Exchange, CIBER (NYSE: CBR) has annual revenue of more than \$1.1 billion.



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