

MERLIN FOEE"

MERLIN FOEE™

Using Financial OEE to uncover profits on the shop floor

Financial Overall Equipment Effectiveness ($FOEE^{\text{TM}}$) enables an organization to link its shop floor performance to actual profit dollars. Furthering Data-Driven Manufacturing initiatives and building on the foundation of OEE, FOEE compares and displays the financial percentage of profit value of products manufactured in a run relative to the world class product run performance.

Effectively links throughput accounting, theory of constraints and historical OEE. FOEE promotes LEAN manufacturing and operational excellence initiatives, while minimizing costs and maximizing value.

BENEFITS

- Hourly profit rate of individual products on individual machines
- Quickly determine the highest profit generating machine/product combination
- · Discover the hidden factory
- Identify setup time losses
- Monitor performance progress on a specific machine and product
- Value information for Continuous Improvement teams
- Pro-active planning and scheduling strategies based on actual data
- Impactful visualization of the production process
- Empowers the organization to set SMART goals
- Enables higher revenue and lower cost providing a competitive edge
- Visually display production profits

MERLIN FOEE[™]

Further harnessing the power of MERLN Tempus Enterprise Edition, MERLIN FOEE calculates the average profit throughput rate by utilizing the data, the number of units produced and the total scheduling time by machine and by products, which is already tracked and collected by MERLIN Tempus Enterprise Edition.

The derived average throughput rate along with data associated to sales units, unit material cost and hourly OPEX cost of the machine, is used by MERLIN FOEE to calculate the Contribution of Constraint hour (CCh). The module then compares the average CCh, previously calculated, with the best ever CCh and displays the FOEE for the organization.

Highlighted features of MERLIN FOEE™

- · Comprehensive operations grid
- Matrix & Heat Map with values color coded from Highest (green) to Lowest (red), rates per hour, IFO, throughput
- Optimized Schedule 'Sandbox' Recommendations
- Machine/Product OEE Performance Curve(s)
- FOEE Result and Profit Contribution by Product and by Machine
- FOEE Performance Comparison across Products on a Machine
- FOEE Performance Comparison of a Product across capable Machines
- Additional Continuous Improvement Value Tools
- World Class Benchmarking option
- Product setup comparison, OPEX, COGS, ideal ranking
- Browser based display for any device



MERLIN is an IIoT Shop-Floor-To-Top-Floor communications platform that provides manufacturing analytics in Real-Time.

Browser Based Percent FOEE per Product

ABOUT MEMEX™

The Industrial Internet of Things (IIoT) powered by machine to machine (M2M) connectivity coupled with software capable of collecting, analyzing, and intelligently presenting streams of manufacturing data represents no less than the next Industrial Revolution. MEMEX with its visionary attitude has been on the leading-edge of the convergence of the industry trends in Computing Power, Connectivity of Machines, Industry Standards, Advanced Software Technology, and Manufacturing Domain Expertise. Leading this transformation is MEMEX Inc., the developer of MERLIN, an award winning IIoT technology platform that delivers tangible increases in manufacturing productivity in Real-Time.

MEMEX, with its comprehensive understanding of the manufacturing industry, is the global leader in machine to machine connectivity solutions.

Committed to its mission of "Successfully transforming factories of today into factories of the future" and encouraged by the rapid adoption and success of MERLIN, MEMEX is relentlessly pursuing the development of increasingly innovative solutions suitable in the IIoT era. MEMEX envisions converting every machine into a node on the corporate network, thereby, creating visibility from shop-floor-to-top-floor.

MEMEX, with its deep commitment towards machine connectivity, offers solutions that are focused on finding hidden capacity by measuring and managing Real-Time data. This empowers MEMEX's customers to effectively quantify and manage OEE, reduce costs and incorporate strategies for continuous lean improvement.



PRODUCTIVITY

10%-50% average productivity increase



PAYBACK

payback in less than four months with an Internal Rate of Return (IRR) greater than 300%



PROFITS

20% + profit improvement based on just a 10% increase in OEE



CONNECTIVITY

connects to any machine, old or new

Contact MEMEX to implement IIoT data-driven manufacturing now.





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