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VALUE STREAM TECHNOLOGY™

High Volume Manufacturing

Enabling Zero Tolerance & Total Performance Improving Productivity, Quality and Availability with OEE Key Performance Indicators

PERFORMANCE

Total Performance & Zero Tolerance

Total Performance and **Zero Tolerance**, next to Total Quality are the most important cornerstones in today's manufacturing environments.

High volume manufacturers with automated, semi-automated or machine-oriented manufacturing operations, such as Automotive Suppliers, High-Technology and Consumer Product factories, need to **focus on the main key performance indicators** and provide the market with high production quantities, high quality, manufactured with the highest equipment availability and performance.

Today's Operations focus is: reaching the highest possible performance measured in **Overall Equipment Efficiency (OEE)**, taking into account: Performance Efficiency, Quality Rate, and Equipment Availability.

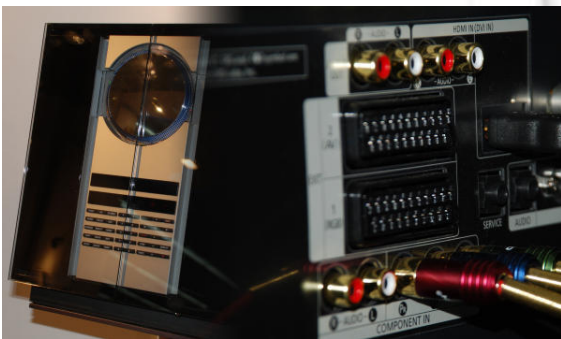
Having this information available **real-time and aggregated at any organizational level** is the dream of plant directors and manufacturing managers.

Measuring, auto-capturing and monitoring performance information is required on-line, **eliminating manual efforts** in reporting and data consolidation. Manufacturing status, change over times and any type of interruption or issue are to be reported **directly** at the assembly lines and machining centers, providing **real-time OEE** and other information to supervisors, line and plant management. The goal is to reduce downtimes, increase quality and production rates constantly.

Value Stream Technology provides **State-of-the-Art real-time Performance Key Indicators** to High Volume Manufacturers in Automotive, High Technology and Consumer Products industries.

REAL-TIME

OEE



WORKFLOW



- **Simple and fast reporting** and retrieval of manufacturing key information in **shift performance portals**

- All **Information is available real-time**: manufacturing, personnel, logistics, maintenance **key performance indicators**, shift results & handover

- Shift performance portals are **much more than pure data collection**:

- Information is converted in real-time performance monitoring w/ **Overall Equipment Efficiency (OEE)**
- Information flows real-time to **Early Warning Portals**
- Issues are **visible and color-coded** for immediate action
- Issue information flows to responsible personnel and departments instantly, **recovering total performance fast**

- **Key performance indicators** are real-time available, increasing personnel equipment and plant performance significantly

- **Action Management** assigns clear responsibilities for actions and follow-up; **resolving issues fast**. Strategic actions **ensure issues never appear** again

- Comprehensive reporting and **root/ cause analysis** provide sufficient information for improvement

- **Reducing** down times and change over times, **costs and efforts**

- **Increasing efficiency and profit margins** of your operations significantly



For more information

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Increasing Performance with Efficiency Monitoring

Shift Performance Dashboards, Early Warning Portals, and real-time OEE, the result of extensive research, development and teamwork with world-wide leading manufacturing organizations, is one of the most important solutions in *Value Stream Technology* application suites.

With this solution suite manufacturing teams and supervisors control each manufacturing area, assembly lines, and workstations, on-line. Line and plant managers receive all performance information real-time, automatically available and consolidated in *Early Warning* and *Performance Information Portals*, visible on the shop floor in visual *ePerformance Andon Boards*, on manager's PCs, handhelds and wireless PDA's. During the manufacturing process supervisors simply assign personnel and products to assembly stations with *drag & drop*, and report any issue on-line with *point & click, ...that's it!*

These processes **minimize efforts** and **maximize performance control**. Information of all work areas is easily captured and automatically consolidated at any level of your organization. Issue information real-time flows to everyone who should know about it. Issues can be **resolved immediately** without losing any time. Equipment and tool issues are instantly visible to maintenance responsible, material and supply issues to line logistics and warehouse management. An integrated *Action Management* allows assignment, tracking of activities and measures issue solution results. This streamlines supply, reduces downtimes, and encourages **Total Performance** fast and efficiently.

Constraints allow **defining your goals**, and color-coded results show quickly where they do not **meet your expectations**. Based on better information your teams can focus on elimination of unnecessary performance issues and losses.

- **On-line Shift Performance Dashboards**

- Fast and simple on-line reporting of manufacturing information
- Product sequence & times
- Change over times & duration
- Personnel times & utilization
- Issues & constraints
- Interactive performance calculations & real-time OEE



- **Simple and fast 'point & click' reporting of any issues**

- Equipment issues & downtimes
- Supply issues & downtimes
- Personnel issues
- Change over processes
- Breaks/ interruptions
- Equipment & tool integration

- **Simple 'drag & drop' assignment** of personnel, products, issues, and shift activities

- **Real-time Overall Equipment Efficiency (OEE)** calculations and aggregation at any organizational level

- **Real-time information flow to Early Warning Portals**

- Color coded action information
- Potential and actual issues
- Workflow, immediate reaction

- **Shift end result verifications**

- Lost time identification
- Production results
- Shift hand over report

- **Comprehensive Report Dashboards**

- Interactive statistics
- Root/ cause analysis
- Drill down, filter, multi-level grouping, and sorting

