

Idhammar OEE Systems – discover your hidden factory



MOST PRODUCTION MANAGERS are clear on the areas of major loss within their process, however getting to the root cause of these issues and doing something about them can be far more challenging. The Idhammar OEE System provides the foundation to measure, monitor and improve your Overall Equipment Effectiveness (OEE), enabling you to discover previously hidden losses, cost justify improvements and monitor their impact on the bottom line.

The Idhammar OEE System extends the use of OEE as a simple measure of effectiveness, to a vital management and decision support tool. From single to multiple production lines, and from one to a number of plants in a group-wide structure, the Idhammar OEE System is all you need to exploit the full power of OEE and achieve world-class lean operations.

The five key benefits of an OEE System

Our clients have reported the following benefits from using the Idhammar OEE System:

- 1. A boost to profitability** as lost opportunity and waste is uncovered and reduced
- 2. More efficient manufacturing** resulting in the ability to produce the same volume in less time (SILT), or to produce more within the same time (MIST)
- 3. Significant energy savings** as less energy is wasted on inefficient production
- 4. Increased management capability** with valuable performance reports which are quickly and easily generated to inform decision making and control risk
- 5. Better teamwork** and less finger-pointing within the plant helps to maintain focus on the improvement agenda

“Small improvements in OEE can result in big improvements to profitability, a 10% improvement in OEE can result in a 50% improvement in ROA (return on assets), with OEE initiatives generally ten times more cost-effective than purchasing additional equipment.”

R. Hansen, OEE for Operators 2001

Features & benefits of Idhammar OEE Systems

The Idhammar OEE System has been designed from the ground-up in conjunction with manufacturing professionals who have the hands-on experience and practical know-how to ensure that it is easy to use, functionally rich, and fit for purpose. The OEE Systems feature:

Intelligent data capture to speed up processing and accuracy

Idhammar OEE operates independently of how data is gathered. The Idhammar Line Data Portal system, designed for touch-screen capability, permits links to online PLCs and SCADA systems, but is also available for both manual and automatic data capture (see OEE LDP datasheet for details).

Clear graphical displays to inform and engage users

Whether using the standard system to generate core OEE reports, or the Dashboard and Andon modules to display real time performance data on the shop floor (see OEE Reporting datasheet for details), the graphical user interfaces clearly report a range of performance metrics. With highly flexible, user-defined fields such as production areas, asset hierarchy, failure events, process data and products, the information generated is specific to your production environment and easy to interpret.

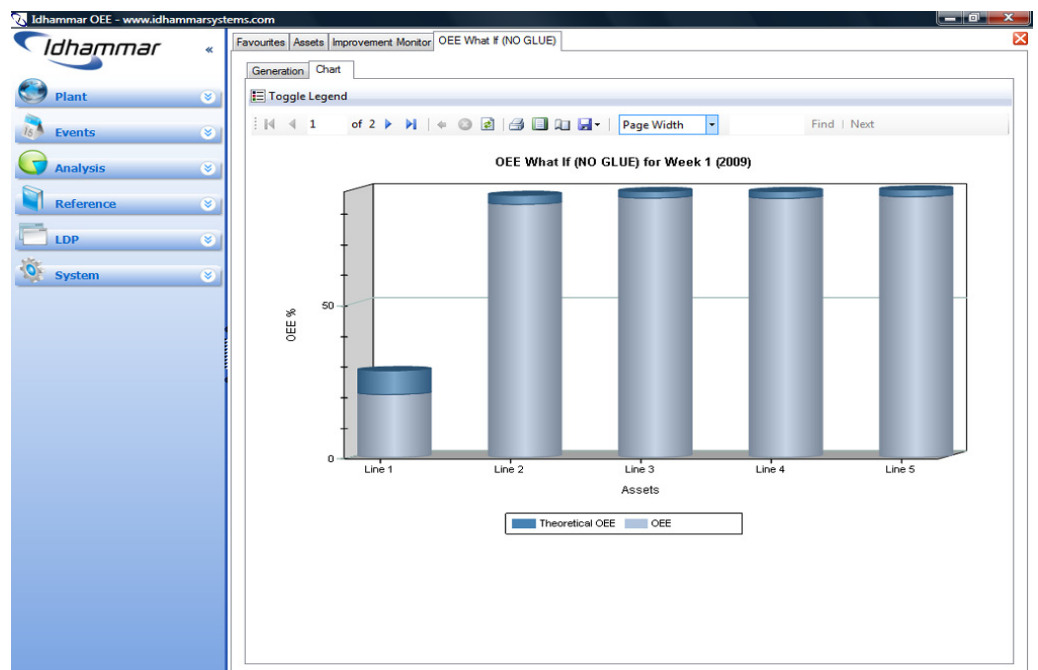
Ability to drill down to discover previously hidden losses

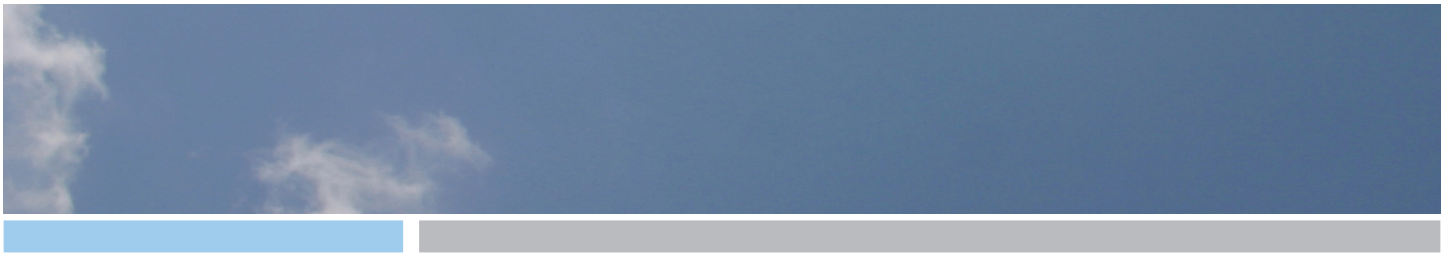
The Idhammar OEE System provides the functionality to drill-down multiple levels from any element of a graph to uncover the facts behind the production issue - from group level, to division, site, line, and key asset.

'What If' analysis filters to support decision making and manage risk

Analysis filters may be switched on or off to show the impact on availability following the elimination of a particular issue (fault, failure or process step). These filters can be applied to individual lines, product categories, events, trends or across entire entities.

Fig 1. What-if Analysis: what happens to the OEE score when glue-unit failures are filtered out?





Fully integrated Improvement Agenda to make action unavoidable

Idhammar OEE's unique Improvement Agenda provides a foundation for essential loss management strategies. Measuring and analysing OEE is only the first step, the improvement agenda helps to structure objectives, steps and flags to plan, monitor, and encourage progress.

Fig 2. Example of the Improvement Agenda being used to drive change

	Improvement	Asset	Status	Priority	Created By	Date Created	Target Finish Date	Date completed	Assigned To	Reviewer
✓	Alert supplier to problem	Line 1	Completed	Normal	Alan Clark	10/07/2009 11:26:29	10/07/2009 0...	10/07/200...	Alan Clark	Alan Clark
⏸	Check temperature sensors	Line 1	Waiting	Normal	Alan Clark	10/07/2009 11:24:30	28/08/2009 0...		Clare Jones	Alan Clark
🔄	QC check batches	Line 1	In Progress	Normal	Alan Clark	10/07/2009 11:22:54	21/08/2010 0...		Phil.Green	Alan Clark
🚫	QC to Audit Supplier	Line 1	In Progress	High	Alan Clark	09/02/2009 09:12:14	31/03/2009 0...		Dave Brown	Clare Jones
🚫	Reduce Glue System Failures	Line 1	In Progress	High	Alan Clark	08/01/2009 09:28:56	31/03/2009 0...		Phil.Green	Dave Brown

Flexible reporting to support continuous improvement

User defined reporting is available in addition to a wide range of standard graph and text reports, providing up to the minute performance metrics at the touch of a button. Some of the most popular reports within the range of over fifty standard reports on offer include:

- OEE score with elemental breakdown - Availability, Performance, Quality
- Set-up performance
- Downtime by Events or Time showing number of failures and/or minutes lost
- Cost of downtime and waste as cash values
- Worst events for a selected Date, Time, or Entity range
- MTBF and MTRR showing the average time between failures/ repair times
- Real-time unit production, viewed by Entity, Time, Date etc.
- 'What if' analysis – calculated as an OEE improvement percentage
- Best of best report for a view of what could be achieved based on the highest value points at different times
- Increased units, showing the extra units which could be produced with each 1% improvement in OEE
- Shift performance

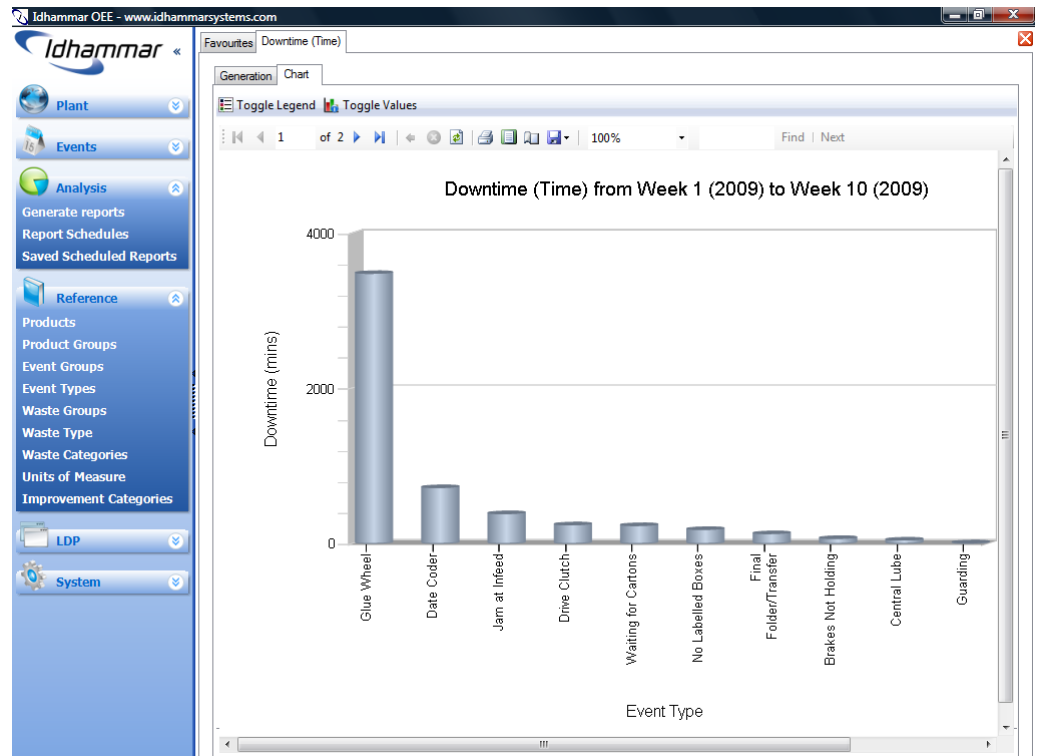
Secure user access to protect your investment

Users can be set up with different access capabilities, limiting access to areas dictated by role requirements.

Multiple site support to ensure the system keeps driving benefits

The Idhammar OEE System is fully scalable from a smaller single site, to large multi-site, multi-national implementations. Web-based access supports group-wide analysis and reporting.

Fig 3. Downtime Report by Event Type



Complementary Products

The Idhammar OEE System is network-ready and designed to run on any standard PC with Microsoft XP or later. Flexible and scalable, the basic package supports up to 5 client connections. The best of breed Idhammar OEE System solution is future proof and fully upgradeable with a range of complementary products from Idhammar which include:

OEE Line Data Portal - for intelligent data capture solutions in both manual and automated environments.

OEE Dashboards - for real-time operational intelligence reports across the plant.

OEE Andon Display - for motivational messages at the end of production lines.

OEE Quality Monitor - for paperless control of compliance and reporting.

OEE Energy Monitor - for full visibility of energy consumption and efficiency.

Separate datasheets on the products are available via the Idhammar website:

www.idhammarsystems.com/resource_library

For more information on how the Idhammar OEE System can support lean manufacturing and operational excellence programmes in your organisation:

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Email: info@idhammarsystems.com or

Visit: www.idhammarsystems.com