



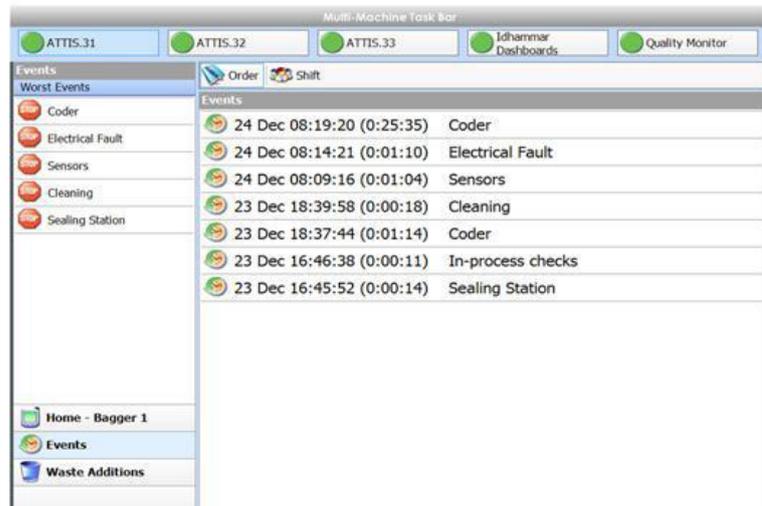
Idhammar OEE Line Data Portal - intelligent capture of production line data to drive continuous improvement

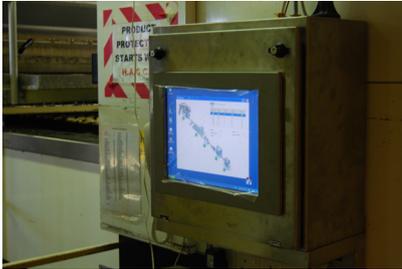


THE IDHAMMAR OEE LINE DATA PORTAL goes beyond mass data acquisition to ensure that the data captured is meaningful and useful in informing OEE analysis and driving continuous improvement.

Designed for touch-screen capability, the OEE Line Data Portal (LDP) is available for both manual and automatic data capture, collecting information about product counts, waste counts and a range of stoppage events fundamental to the calculation of Overall Equipment Effectiveness (OEE). The LDP enables production specialists to improve factory efficiency through more accurate OEE data and by presenting the information in an easily configurable graphic format for faster, better informed analysis.

The Idhammar OEE LDP System can be installed on any Windows XP compatible device, including standard PCs with touch-screens, Panel PCs and standard Desktop PCs. This highly flexible software can be operated with or without automatic feeds from production machines or lines and supports data acquisition from process control systems or via data collection and touch-screen systems.





Idhammar Manual LDP in action at a large food manufacturing site

Idhammar Manual Line Data Portal

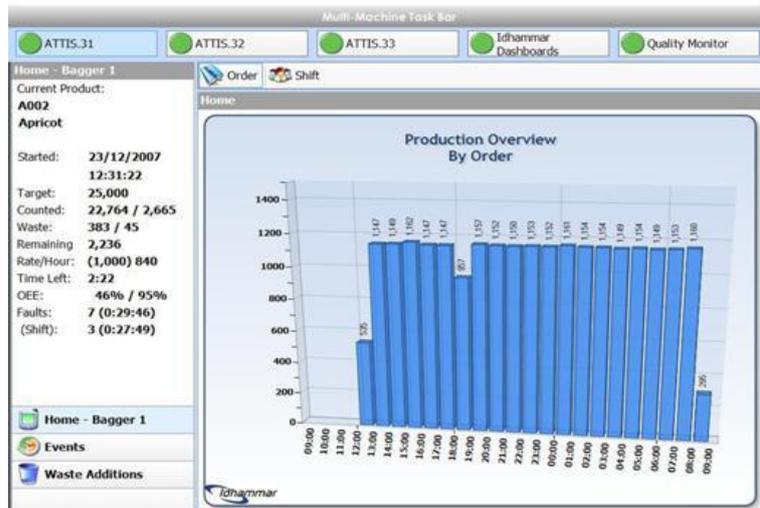
The Manual LDP system enables users to enter information about product counts, waste and stoppage events as they happen in a structured and controlled way. The software is designed for touch-screen capability providing operators with a simple, fast and easy to use method of data entry. As the Manual LDP is part of the Idhammar Line Data Portal suite, it can provide manufacturers with a useful stepping-stone to a fully automated line data capture system.

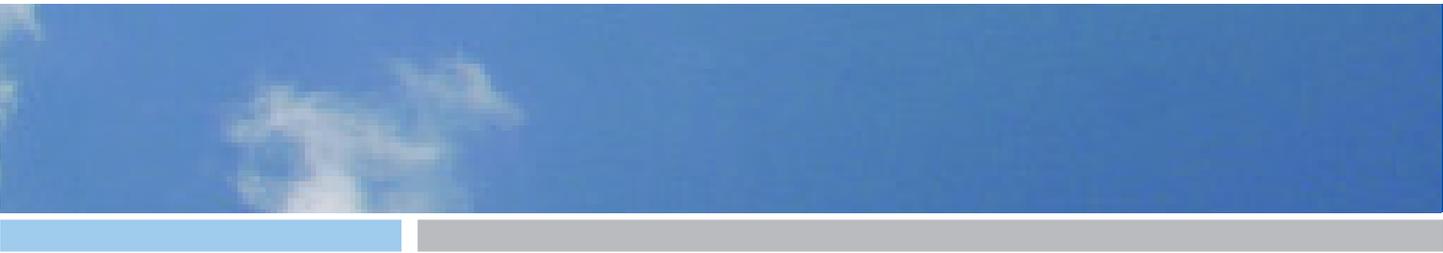
Idhammar Automatic Line Data Portal

While manual data capture methods generally provide sufficient insight to improve OEE scores to a certain extent, once OEE scores reach 65% or more, the losses experienced are likely to be as a result of more subtle performance issues. Discovering these issues requires accurate, real-time data acquisition. For example, while 240 x 15 second stops in an 8 hour shift are almost impossible to record manually, collectively they still account for an hour of lost production.

Whilst fully automatic process control systems such as SCADA, provide extremely accurate time-based information, on their own they fail to obtain the full causal information behind the stoppage. For example, an operator seeing a fault at the end of the line chooses to stop the line by opening the nearest machine guard. As a consequence the alarm list records "guard open", when in reality this had nothing to do with the stoppage.

To overcome this issue, the Idhammar OEE Automatic LDP System is designed to ensure ongoing operator involvement providing users with both accurate and meaningful OEE information. This is achieved by using touch-screen PCs linked to machine-run, product count signals and/or PLC.





When we record good product, reject counts and failure times automatically but ask the operator to confirm loss event reasons, we improve accuracy and keep the operator fully informed of the losses. This approach delivers the following three benefits:

1. Every loss is recorded, including minor stoppages to ensuring that everything is accurately measured and monitored.
2. The operator is fully involved and quickly aware of the situation including real-time management information to support decision making:
 - Time to finish this product at current performance
 - Worst stoppage events this and last shift
3. The paper-less data capture removes a significant administrative burden and provides easily accessible, reliable and accurate audit trail.

Implementing automated line data capture increases accuracy, enables deeper real-time analysis into hidden issues and reduces paperwork on the factory floor. As well as providing a quick and easy means of gathering manufacturing performance data, the Line Data Portal provides the operator with up to the minute information on machine performance for the current run.

Flexible configuration

The Line Data Portal can be operated with or without automatic feeds from a production machine or line. Up to five monitoring points can be linked to a single LDP. Where automatic feed is available, the Line Data Portal can be configured for up to five monitoring points to accept the data necessary to calculate OEE including:

- Machine start and stop time
- A range of different fault signals
- Product and waste counts

Real time failure analysis

Details of each stoppage event will be transmitted to the central OEE server but will also be available at the LDP device. Users will benefit from immediate access to the stoppage log together with an analysis of the events which happen most frequently and/or cause the worst time losses.

Operator management information

Operators are shown key information for each production run including:

- Start date and time
- Estimated completion date and time
- Product counts - produced, waste, remaining
- OEE - both average and variations over time
- Stoppage log
- Ten top stoppages



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:

Idhammar OEE - for core OEE analysis and Improvement Agenda

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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Visit: www.idhammarsystems.com