Prevas Improve

Efficient and profitable manufacturing is something everyone strives for. But do you know how efficient your manufacturing really is? And why it is not even more efficient? Many think they have an idea. But the difference between having an idea and actually knowing is vast.

Improve your manufacturing efficiency

A five percentage-point increase in efficiency for a machine with an availability rate of 5,200 hours/year and an hourly cost of SEK 750/hour justifies an investment of approximately SEK 200,000, payable over one year.

Industrial manufacturing equipment is not used in an acceptably efficient manner. A large amount of time is wasted due to stoppages, delays, speed reduction and rejection processing. In many cases, there is up to a 35% margin of unexploited machine time. This potential can be used to produce more products or to reduce manufacturing costs.

Examples of reduced manufacturing costs include:
- lower maintenance costs
- less need to make new investments in machines
- reduction in the number of shifts

Fact-based optimization
The first step towards increased efficiency is to produce a factual profile about the time losses present in the manu-

facturing process. Currently, machine stoppage times are most often reported manually, which means that only major stoppages are recorded. Automatic registration of the equipment's operational status is required in order to obtain a complete picture of shorter, recurrent stoppages. Short, frequent interruptions, which may sometimes be interpreted as a part of the machine's normal behavior, amount only to unexploited production time in the end. Improve's reports offer you accurate documentation in black and white.

Web-based information sharing
Improve is a web-based standard system for production monitoring that will help you gain an overview of how your machine complex is used and where time losses occur. Rankings, diagrams and reports allow you to analyze stoppage times, time breakdown, and key figures. By identifying bottlenecks in the flow and causes of frequent operational stoppages, you can methodically optimize your system to eliminate loss and increase manufacturing efficiency.

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Prevas develops intelligence in products and industrial systems
Prevas is an innovative IT company with a strong corporate culture that offers its customers solutions with a world-class competitive edge. Prevas has been delivering profitable and future-proof solutions for more than 20 years. At Prevas, we consider the capacity

to build long-term relationships with our customers and gain deep insight into their business paramount to creating added value. Our strong corporate culture, combined with our project methodology, quality assurance, and delivery reliability have qualified Prevas for many successful assignments from leading global enterprises.

Basic or advanced data collection

In its most basic form of production monitoring, Improve gathers signals on status changes in the machines. These changes are then recorded in the database. Operational stoppages and delays are automatically identified, and Improve works without any need for manual control. To develop more targeted analysis documentation, however, the user may want to complete these entries with explanations as to what caused the stoppages in question.

It is also possible to carry out more advanced monitoring by gathering additional information from the machine's control system when this is available. By reading error codes, such as "Transmitter 37B faulty", Improve can automatically classify various types of operational stoppages, such as "Electrical failure" in this case. New error codes can simply be added to the classification list and linked to the right error type. In such a way, the system can be configured during operation. Other types of data that can be read from the machines include tool numbers, part counters, cycle time and other parameters specific to the machine supplier.

All the statistics you need

The information in the database is used to produce reports and analyze conditions in your manufacturing. All users in the company can retrieve key figures and statistics in their usual web browser, including everything from a simple presentation of the machine's current status, via top-ten ranking lists and diagrams of operational stoppages and their causes, to a presentation of time breakdown and key figures, such as OEE.

Benefits of using Prevas Improve

- no client installations; only a standard web browser is needed
- simple connection for automatic gathering of operational data
- possibility for more advanced data gathering from newer equipment
- automatic identification of stoppage times
- manual entry of additional information where needed, such as for stoppage causes
- simple to add and change machine settings
- customer-specific adaptability and ability to expand with new reports
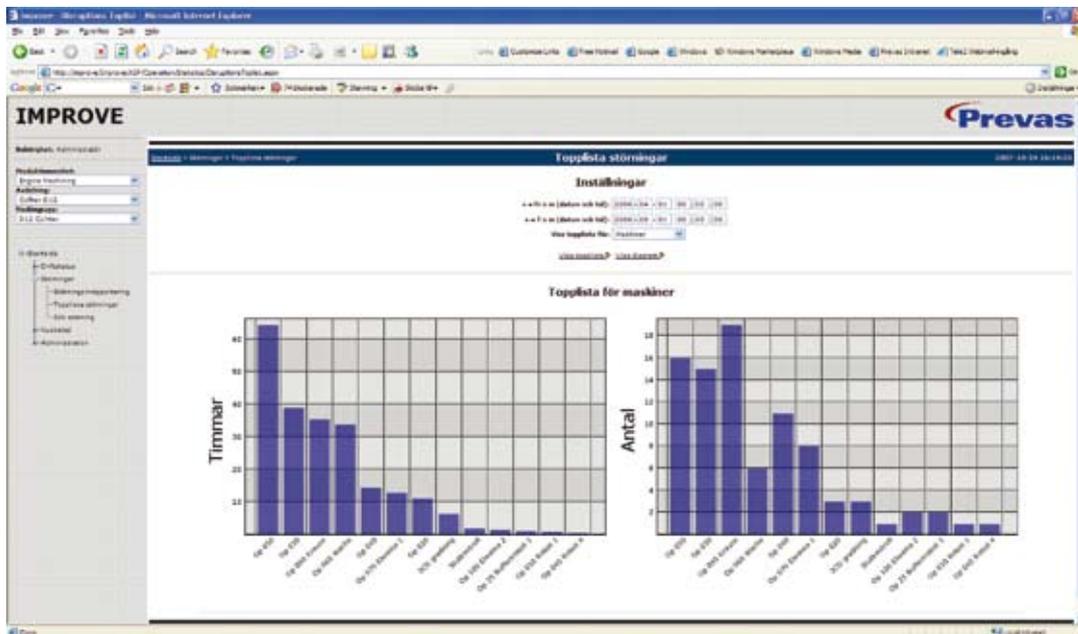

DIAGRAM OF OPERATIONAL INTERRUPTIONS IN THE INDUSTRIAL COMPLEX SHOWN IN IMPROVE'S WEB-BASED USER INTERFACE

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