

MRM

Success Stories



Θεοδώρου

ΚΩΔΙΚΟΠΟΙΗΣΗ · ΙΧΝΗΛΑΣΙΜΟΤΗΤΑ · ΔΙΑΧΕΙΡΙΣΗ ΠΑΡΑΓΩΓΗΣ

Αγ. Αθανασίου 17 Τ.Θ. 38
19002 Παιανία
marketing@theodorou.gr

Τηλ: 210 6690900
Fax: 210 6640200
www.theodorou.gr

Beverage Industry

Paper Industry

Machine Construction

Filling Industry

Success Story: Food Industry



NÖM AG (a bottling specialist for milk, cartons and/or cups) has grown over the years into a highly complex company with a daily output of about 2.5 million products. Its product range includes such recognized brandnames as Billa, Spar, Merkur etc.. Lot sizes, their management and labeling represent a constant challenge. This also applies to its in-house bottle production.



Success Story: Food Industry

Task

The main reason for the MRM® Box installation was the bottling system and the production data entry. This particular area at NÖM AG had experienced explosive growth. There was a need to filter out and pinpoint disruptive factors of individual equipment units and/or whole process lines with the aid of the system. Only with the aid of exact figures concerning waste or rejects and on hand of those exact facts and data is it possible to determine when and where a new investment becomes cost effective. In addition, there was a need for an exact overview as to the processing steps of 650,000 liters of milk per day. We also had to bear in mind the investment principle of NÖM AG: "When we invest, we want turnaround feedback or at best derive some benefit from it as a whole, otherwise we won't take the step -- no matter whether we are talking about an equipment unit, a program or manpower needs." Board Member, Josef Simon



Success Story: Food Industry

Solution

Systematic production control signifies an understanding of the steps of production flow in a production plant as they become current issues and as they are reproduced into useful data. With the MRM® technology there is maximum standardization, which means that each equipment unit provides the same information when it comes to capturing disruptions. Production control quality, after all, is based on the exact determination of the signals, i.e., the moment is of importance. In this way, with necessary precision, a transparent guidance instrument can be developed.



Success Story: Food Industry

Result

Successful installation of the MRM® Box together with its permanent monitoring of the production lines now allow control of the state of production in real time. This newly derived information serves as a basis for the first significantly successful optimization. "Our newly installed system delivers the information in such a way, that I can mentally process it. I am otherwise unable to keep up with 70 equipment units. I could perhaps do a one time personal inspection, but once I have reached the last unit, the first one might be down again", says Board Member Josef Simon.

Outlook

A large-scale enterprise such as NÖM AG will probably never fully conclude its measures toward optimization. The issues at hand are more likely final touches and the fine-tuning with regard to production planning by the MRM® team. So that all participants are informed of the state of production and not only those who hold supervisory positions, the installation of two additional MRM® large-scale monitors is planned for the use of the employees.



Success Story: Paper Industry

Initial Position

SCA Hygiene Products GmbH in Austria is a subsidiary of Svenska Cellulosa Aktiebolaget SCA. The group of companies develops, produces and markets toiletries, packaging solutions, printing paper and wood materials.

For its location Ortmann (Piestingtal, Lower Austria) SCA Hygiene Products GmbH is looking for a partner for the purpose of linking 136 production equipment units to its main controlling system "PLAIN" (ERP-SCA).

Task

The foremost aim was the exact capture of number of pieces, speed of equipment units, disruption and error messages, as well as the transfer of this information to the main multi-location, company-wide controlling system.



Success Story: Paper Industry

Solution

Each production unit was fully equipped with PC terminals in order to have all order and production data available on location. This enables self-control of the individual production groups since each employee can evaluate and influence the capacity of the equipment unit.

A step-by-step realization during the running operation brought the project to fruition. Older equipment controls had to be partially retrofitted or rebuilt. Guidelines required equipment data to be centrally collected and to be processed via the expanded IT-network. This demanded real time capture of 3,400 data points and 544 process values.



Success Story: Paper Industry

Solution

Experience from other production sites had shown that additionally a broad scope of free resources had to be created. The communication layout was therefore set up with 100 data points and 5 process values per equipment unit. In this way a multitude of disruption messages and their sub-groups can at any time be transferred to the main system in detail.

The WEB-technology of the MRM® solution demonstrated a great advantage. Each IBM server now also processes all signals in a graphic manner and makes them available in real time in the Intranet. Each employee in this way now has independent and password-driven web-browser access to companywide evaluations of "his" equipment unit data. In addition, data interfaces were created to site-specific specifically adjusted data banks. "In this way we can respond much faster to requests for changes or evaluations!" adds Project Director, Hannes Reichmann, [Qualified] Engineer at SCA.



Success Story: Paper Industry

Result

The uniform measurement data now guarantees a global and neutral benchmarking of output capacity.

After manual documentation over the past 10 years, the newly implemented system registered a stepped-up productivity of approx. 50%. From non-employee driven documentation, SCA expects another increase in equipment unit capacity utilization of at least 15%. This can be achieved through exact reporting of the down-time of all equipment units. "20 brief breakdowns of a production unit at 2-3 minutes is a costly undertaking when trying to capture them through a manual system", says the Head of Tube Production, Heinz Simetzberger, BSc Eng. Frequency and length of downtime can now be addressed with much greater intensity and with a better chance of optimization.

Furthermore, we have now created a basis, which allows us to newly calculate maximum capacity of the different production areas and to work toward more concrete goals.



Success Story: Machine Construction

Basic Premise

In the Voith Paper Works in St. Pölten there are about 600 specialists with specific know-how in the various areas they are responsible for example, in projection, construction, production in the plant, optimization of carton and paper packaging machines, and automation and roll manufacturing. More than a third of the worldwide paper products are manufactured on Voith Paper equipment.

Assignment

The top priority was to increase the reaction speed by unplanned down time. Of essential significance here was to maintain top relevant online data of the production line.

Success Story: Machine Construction

Solution

The implementation of the MRM® Box enabled immediate recording of the localization and cause of the standstill on a production line. For example, carton back-ups could be immediately identified and categorized. All of the information was centrally bundled and made accessible to every PC with password allowance via WEB technology.

Success Story: Machine Construction

Results

Consistent measurements guarantee a global and neutral benchmarking of production performance.

"When I first saw the MRM® Box in use and the first graphic evaluations appeared on my PC screen, I was absolutely convinced. Suddenly you could see what was happening in the production right from your desk, at a glance. What's especially helpful for us is having exact information on the individual preparation procedures. As a result of this newly extracted data, we were able to initiate the first measures to increase our productivity. Our primary goal is to cut the preparation time in half, which makes the amortization time of the manufacturing management installation significantly less than a half a year." (Andreas Figerl, Engineer and Head of Production at Voith Paper)

Success Story: Filling Industry



For us a production management system must meet the following expectations and requirements:

- Sustainable production increase with signals to bottle-necks and areas of weakness for the purpose of keeping a balanced line.
- Best possible automatic capture of messages and/or alerts concerning operation and line interruptions.
- Real time and historical reporting system
- For optimization purposes accurate capture of set-up and cleaning timeframes
- Data exchange with an ERP System (SAP)

“In light of our excellent experience with the installed production management system we can, without reservation, highly recommend MRM® Machine Relationship Management and its product.” Michael Höbinger (Asset and Process Improvement Manager, Coca-Cola Beverages Austria GmbH)

MRM[©] Contact

Machine Relationship Management GmbH

A-1020 WIEN Volkertstraße 6-8

Tel.: ++43 1 606 66-61

Fax: ++43 1 606 66-62

www.mrm-systems.com

info@mrm-systems.com



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