

DynaMon

Automated Reporting System with
Integrated Management of Targets and Measures



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BASIC INFORMATION

Short Definition of Reporting Systems

Standardized and automated reporting system is regarded by users as one of the most important tools for successful control management.

This includes the calculation and presentation of technical key metrics from production as well as distribution and explanation of other evaluations.

The core requirements for a well-functioning reporting system are:

- ◆ Standardized methods for data collection
- ◆ Objectivity and actuality of the data collected
- ◆ High availability of the evaluations
- ◆ Comprehensibility of the evaluations
- ◆ User-oriented reports for different users (workers, management, etc.)

The higher the degree of automation of key figure management, the more efficient and cost saving it is in everyday use.

Since the turn of the millennium, “interactive reporting” has begun to be more and more prevalent, linking the report data with the associated actions and objectives.

Such interactive capabilities is how the reporting system is created to transparency, on the basis of a semi-automated and therefore a highly efficient improvement process.

Cosmino® DynaMon Areas of Application

Cosmino® DynaMon is a module of the Cosmino® MES^{plus}. It combines a comprehensive and award-winning reporting system with sophisticated key figure management.

As one of the first fully automated reporting systems for technical key metrics, Cosmino® DynaMon has set market standards and is perceived both by competitors and customers as a benchmark.

An overview of the most important functions:

- ◆ Automatic data transfer from external data sources
- ◆ Centralized, fully automated creation of final reports and evaluations
- ◆ Use of standardized reports, which however remain individually adaptable
- ◆ Requests, documentation and evaluation of measures relating to specified reports or key metrics
- ◆ Visualization of management objectives with monitoring of target violations
- ◆ Can be used as a permanent benchmarking system – even across multiple sites, including clustering



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BASIC INFORMATION

Ready-to-use Philosophy

Cosmino® DynaMon, like all Cosmino® modules is a lean solution and can be integrated into any IT environment.

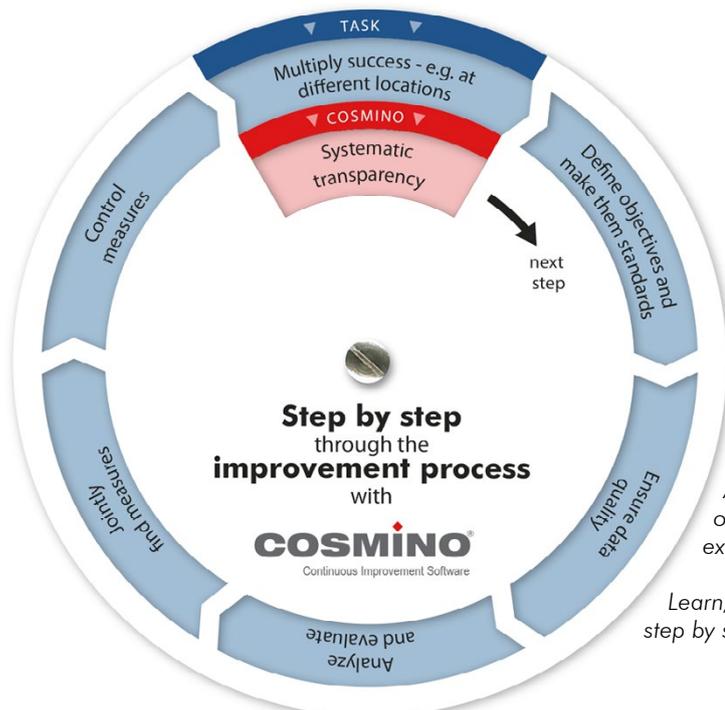
DynaMon can be used either as a standalone solution or fully integrated into the Cosmino® Suite.

In every detail of the solution there is know-how from more than 25 years of development, which on a daily basis saves time – for example with well-proven standard evaluations that are generated fully automatically. Genuinely “ready-to-use”.

If you would like to expand the functions of Cosmino® DynaMon, there are currently 16 further Cosmino® Modules available (see page 11).

Your Cosmino® DynaMon Advantages

- ◆ Easy to understand evaluations and reports in a uniform report layout (diagram or table form), which is instantly identifiable company-wide
- ◆ Created for transparency, because correlations can quickly be recognized and logically explained (downtime, errors, material, etc.)
- ◆ Clearly structured for operation, since it is focused on the decisive data and key metrics
- ◆ Current reports are reliably available as they are created fully automatically
- ◆ No more time expense whatsoever is required for creating reports
- ◆ Individualized evaluations, as data is compressed and processed according to preset criteria
- ◆ Automated printout of all graphics for a paper-based shopfloor visualization
- ◆ Automatic transfer of fixed targets in all charts
- ◆ Can be used from any networked workstation because it is browser-based
- ◆ At all times traceable key metrics from the highest aggregate key metric (e.g. plant OEE) concerning drilldowns, to the losses at each individual workplace



The Cosmino® user is guided step by step through all work steps of the improvement process.

As the workflow is defined, training and familiarization effort is minimal, and operating errors are largely excluded.

Learn, how Cosmino® supports you step by step: www.cosmino.de



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INNOVATIVE OPERATING CONCEPT

Over 25 years of experience has shown us that a reporting system is only as good as its usability. Therefore Cosmino® DynaMon is so easy to understand that virtually every employee can use it immediately – without expensive training.

For example, when you click on an evaluation bar further information is displayed (histories, Pareto analysis, etc.).

The different information always remain interconnected. Click, for example, simply from the plant to the department and the workstation to the product produced there. You see at a glance hidden sources of error and optimization potential.

A highlight is the simultaneous display of mixed value classes. This allows you to view one and the same values of the annual average values and monthly values, or to compare departmental and individual workplace values; or product families and products.

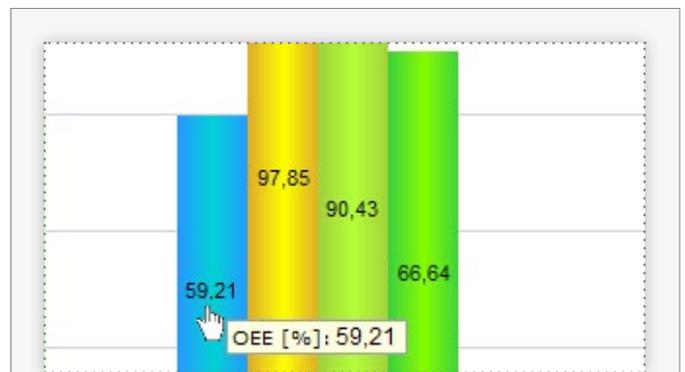
The reports always show the desired level of detail, and questions concerning the “Why” can be precisely answered.

Your Cosmino® DynaMon Advantages:

- ◆ Intuitive navigation: call up linked data and information levels with a mouse click or fingertip
- ◆ Easy comparability through a uniform display of data across all hierarchical levels
- ◆ Minimal distribution effort via e-mail dispatch (no license costs per recipient) and pre-sorted batch print for shopfloor boards
- ◆ Objective validity, since outliers always remain visible (no “dilution effect” due to deceptive departmental average values)
- ◆ Minimum training requirements



Mixed value classes at a glance: left the work center groups, next to the corresponding places, and the dark lines show target or limit values; symbols for measures and escalations are clickable



Position the mouse over a bar to get more detailed information; a click on a bar opens detailed evaluations

The solution has been awarded several times for good applicability in independent customer benchmarks.

3

DATA IMPORT AND DATA ACQUISITION

As a comprehensive reporting system, Cosmino® DynaMon integrates data from the most diverse sources into your reporting system:

Data Import

Use DynaMon as a reporting system for existing data collection systems such as SFDC, MES or CAQ. Further data formats and individual interfaces are available upon request.

Entry of Scannable Paper Documents

As a particularly cost-effective possibility of data entry, the unique Cosmino® paper document recording system is available to you.

Scannable documents (e.g. shift receipts or fault tally sheet) are filled out by the workers and easily recorded by a scanner. The entered values are recognized by Cosmino® automatically.

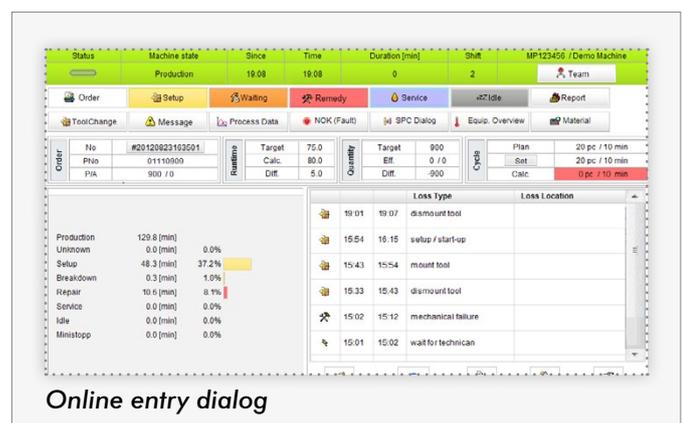
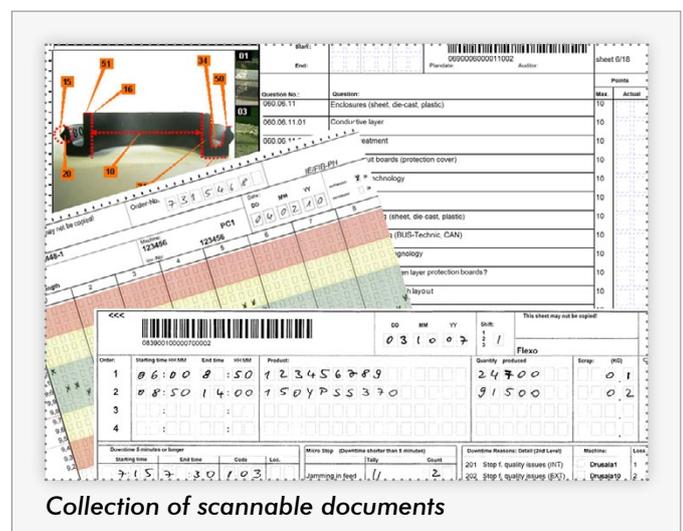
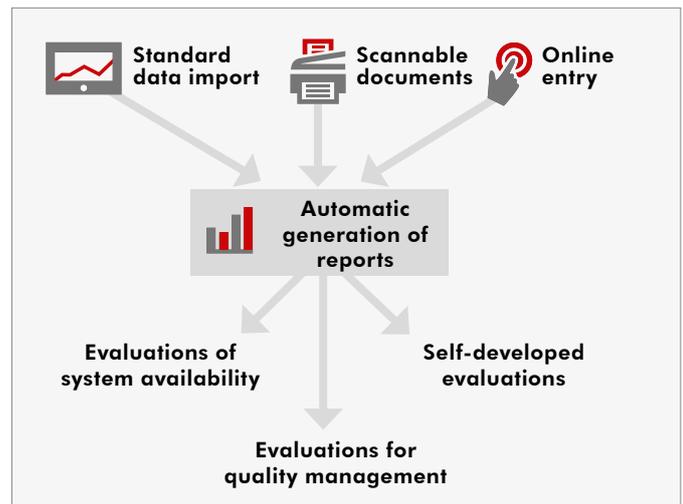
Online Data Entry

Enter data online via a touch panel or with a standard PC with a web browser. If there is a direct machine connection, Cosmino® also reads this data.

Your Cosmino® Advantages:

- ◆ Universally applicable by means of various possibilities to take over data from other systems or recording it manually
- ◆ Reliable through high data quality, since all data is automatically validated (based on customized validation rules)
- ◆ Integration in SAP-BW

Further information can be found in the Cosmino® IntelliScan and Cosmino® Worker-Point brochures.



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PREDEFINED STANDARD REPORTS

As a real “ready-to-use” system, Cosmino® DynaMon reduces a lot of work with the pre-designed standard reports.

Start right away with your evaluations for equipment availability and quality management – all without costly set ups or coordination processes.

Have standard reports be created automatically after a predefined time schedule. Or if necessary, request an evaluation by simply selecting the desired time periods and characteristics to be evaluated.

There are several shopfloor and management evaluations available to you.

Typical evaluations for equipment availability also include:

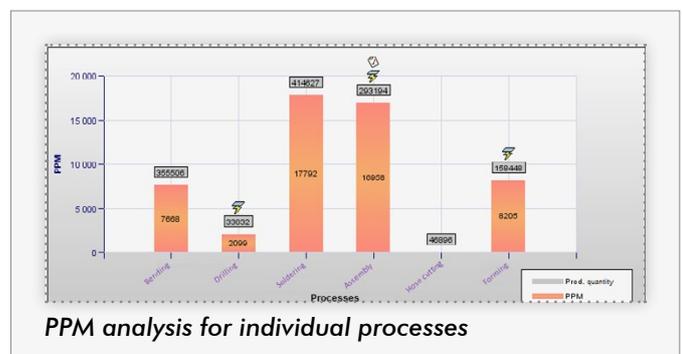
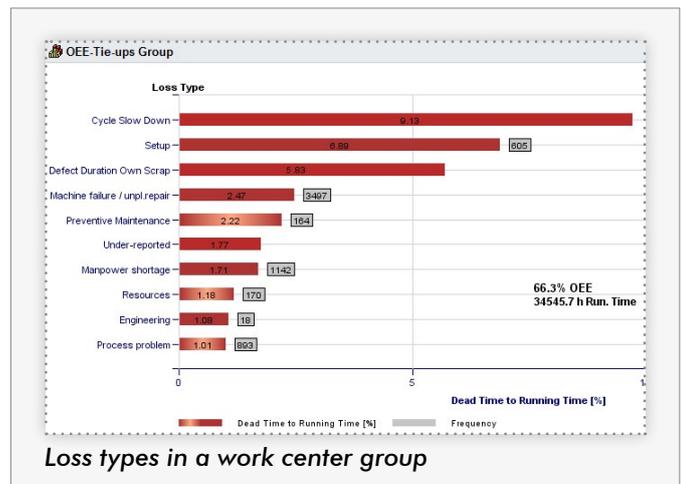
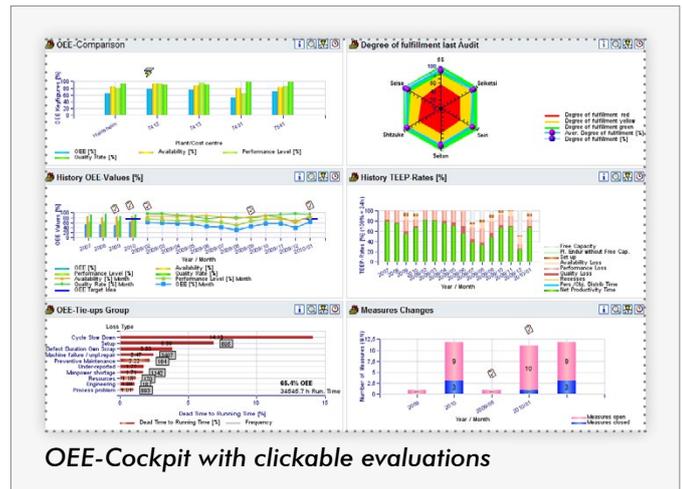
- ◆ OEE-Cockpits with loss-time analysis
- ◆ ABC analyzes of loss types, frequency and duration

also

- ◆ Degree of performance of the last audit and
- ◆ Development of measures.

Your Cosmino® DynaMon Advantages:

- ◆ Measurable time and cost savings through complete automation of the creation of reports (no manual work required, no loading time, no support required)
- ◆ Consistently objective, accurate validity which is accepted of through standardized reports (with absolute and relative values)
- ◆ Greatly improved comparability of company divisions through the use of the same kind of evaluations
- ◆ Evaluations available anywhere, as DynaMon runs in the browser



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IN-COMPANY DEVELOPED REPORTS

In addition to the practical standard reports, Cosmino® DynaMon creates in-company reports for example, for customer specific evaluations.

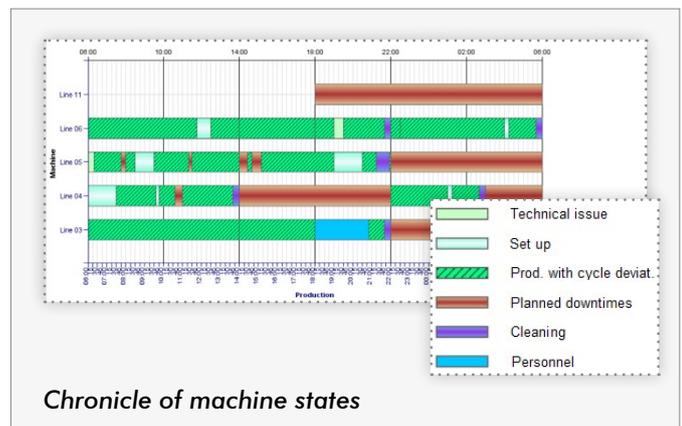
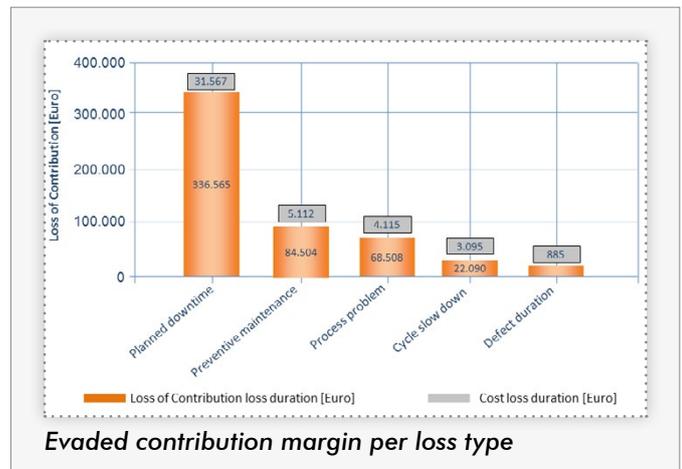
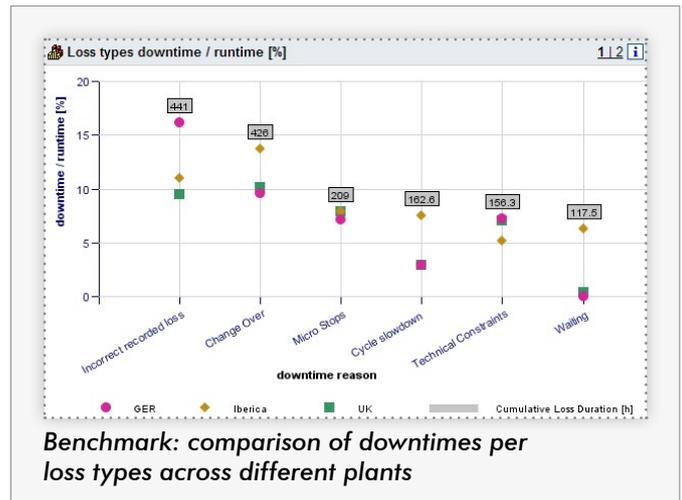
These individual reports you define one time, afterwards they are created time-controlled automatically.

Here are some examples of user-defined reports from our customers:

- ◆ A balanced scorecard
- ◆ Rate of sick leave
- ◆ External rate of error costs
- ◆ Duration of complaint
- ◆ Rework rate
- ◆ Formula modifications
- ◆ Premiums
- ◆ Loyalty to delivery dates time
- ◆ Benchmarking: comparison of certain key metrics or costs extended across different plants
- ◆ Cost and contribution margin evaluation
 - Illustrate loss minutes in Euro
 - Evaded contribution margin
 - Costs for losses to loss duration

Your Cosmino® DynaMon Advantages:

- ◆ Extremely flexible through the option of defining almost any desired evaluations yourself
- ◆ Easy integration into a pre-existing business enterprise reporting system
- ◆ Valuable support for controlling decision-makers through objective, perfectly prepared data and facts from the production
- ◆ Greatly accelerated analysis phase of improvement processes because the savings potential can be estimated very accurately



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BENCHMARKING

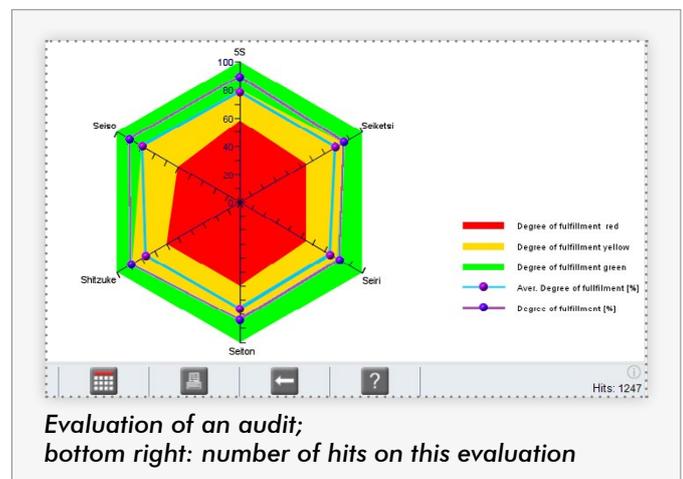
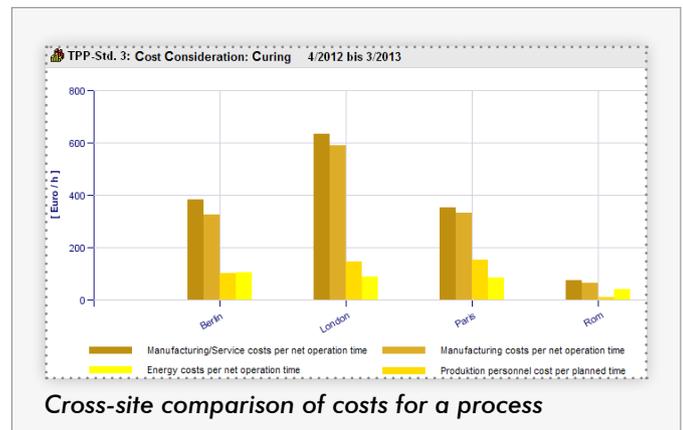
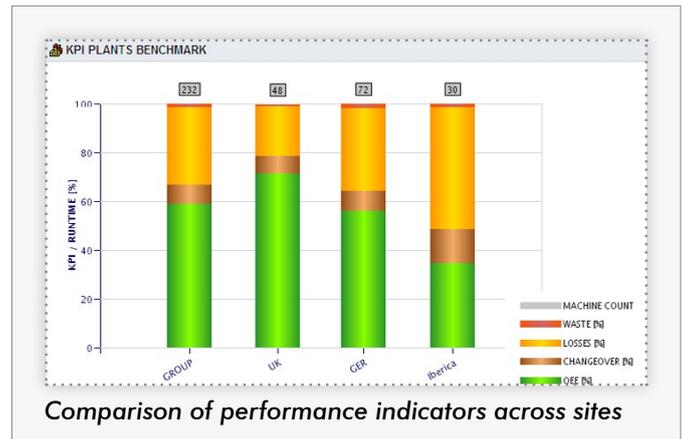
At different locations, the effectiveness of comparable systems or production workplaces is rarely identical.

With Cosmino® DynaMon you reach the main objectives of a benchmarking process quickly and unerringly:

- ◆ Objective comparison between similar systems or workplaces
- ◆ Identification of optimization potentials and “Best Practices”
- ◆ Collecting and visualizing information previously “invisible”
- ◆ Building up a central knowledge database and information platform

Your Cosmino® DynaMon Advantages:

- ◆ No burden on the production network because the evaluations are typically calculated on a separate server
- ◆ Machine-related data can always be found, even after relocation or change of cost center (correct chronological illustration)
- ◆ Motivation of employees through performance standards and the direct comparison of own and others’ successes
- ◆ Well-proven with a hit rate over 10,000 per month



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TARGET AND ALARM MANAGEMENT

Target Management

Cosmino® DynaMon frees your staff from time-consuming tasks like manually handling target values and limit values, entering them into diagrams and monitoring.

Define all target or limit values according to your preference – for example for the OEE or downtime. DynaMon shows these objectives in each evaluation of the allotted period of time as horizontal line. This gives you an overview and transparency.

Targets are automatically taken over for future months, reducing the administrative burden to the absolute minimum.

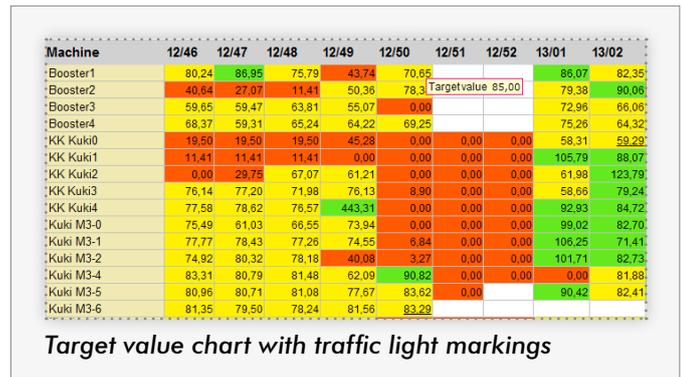
Alarm Management

If target or limit values are violated, DynaMon informs you both visually and by e-mail. Thus, over or under exceeding target values remains at all times transparent – even when there is no time for working through the evaluations.

Special alarm icons and color codes in the relevant diagrams and tables prevent the violations of the target values from being overlooked. These alarm notifications are displayed even when the targets violated reach lower and not currently displayed levels.

Your Cosmino® DynaMon Advantages:

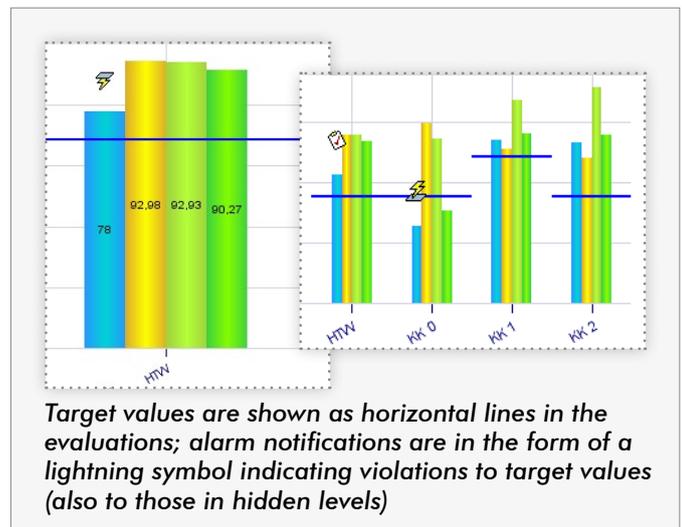
- ◆ Time saving as once targets are defined, they are automatically displayed in diagrams
- ◆ Improved transparency, as the responsible production personnel are informed at an early stage- for example, about losses, shift results, success processes, measures, degree of target achievement, hidden escalations
- ◆ Outliers can no longer be overlooked due to visualization and notification to the personnel responsible



Target value chart with traffic light markings



Defining new targets



Archive with further screen shots:
www.cosmino.de/en/software/dynamon/



Define, Initiate and Evaluate Measures

Evaluations indeed show you potential for improvement. But it is only when measures are actually implemented that you optimize your process.

As a comprehensive solution for continuous improvement, Cosmino® supports you here specifically,

- ◆ To draw the right conclusions from the knowledge mutually gained,
- ◆ Then to initiate the best measures and finally
- ◆ To examine the success of these measures in real time.

The practice-oriented linking of ideas and measures with products, workplaces, evaluations, types of errors, etc., ensures a transparent overview and the easy retrievability.

Your Cosmino® Advantages

- ◆ Time saving through the flexible application of improvement suggestions from reports, audits or meetings as well as directly to the system
- ◆ In-depth knowledge of users through detailed descriptions and documentation (before / after) with the help of pictures, sketches as well as any attachments (photo, video, and voice recordings)
- ◆ Complete support of the continuous improvement process, all with one solution
- ◆ Maximum transparency and knowledge sharing through centralized data management (knowledge data base): double processing is avoided, existing ideas can easily be built up
- ◆ Easy installation, administration and monitoring of due dates and tasks

Further information can be found in our Cosmino® ImproveManager brochure

1

Dead Time to Running Time [%]

Loss Types

Dead time to running time [%] Cumulative loss duration [hh:mm]

2

Machine Kofu 2 Z 250

Process

Tool

Product

Fault type

Team

Audit

Loss type Cycle slow down

Loss location 1511 Conveyor belt

Fault location

Affected organisation

Figure Calculated cycle time (per piece)

Current Value From 11.06.2013 2 / Seconds

Target Value At 11.06.2013 1 / Second

Type Performance

Target Description machine runs too slow; conveyor belt is not running constantly

Responsible Gerdes, Peggy

Implement Descr tighten conveyor belt

Given by Gerdes, Peggy

Chance Priority Little effort little effect

3

Dead Time to Running Time [%]

Loss Types

Dead time to running time [%] Cumulative loss duration [hh:mm]

Create measures in just 3 steps for a direct evaluation application:

Step 1:
The improvement measure is simply created by clicking on a bar

Step 2:
The improvement order is automatically linked with the work center and the loss type

Step 3:
Above the bar, you see the icon for a linked measure

INTEGRATION INTO THE COSMINO® MES^{plus}

COSMINO AG supports you in getting the full potential of your manufacturing and achieving the best results:

- ◆ More output
- ◆ Better quality
- ◆ Increased reliability
- ◆ Reduced costs
- ◆ Full transparency

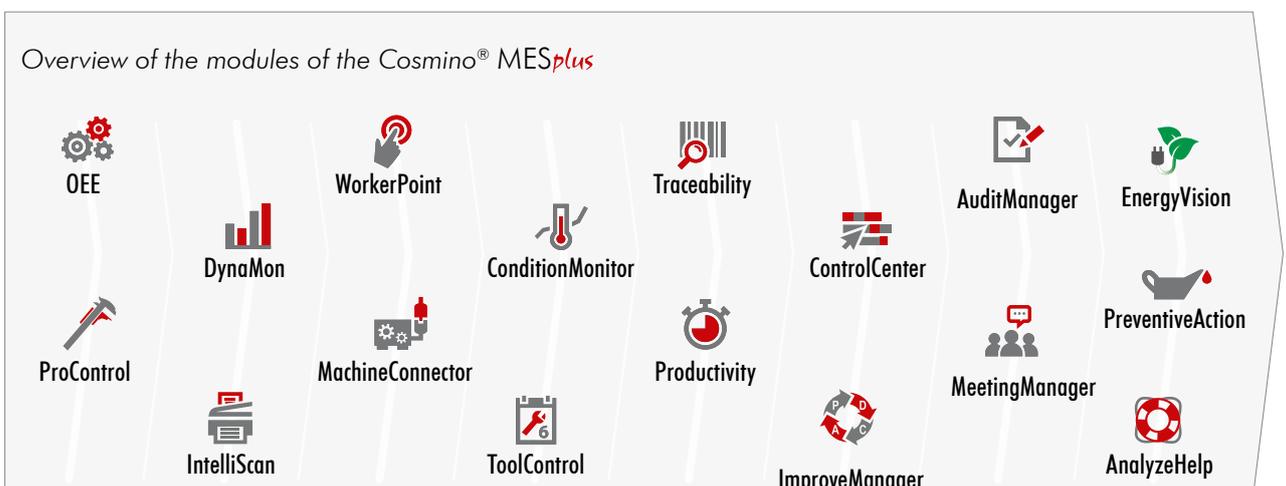
Our software belongs to the field of Manufacturing Execution Systems (MES) and can therefore be your navigator on the path to Industry 4.0 (Integrated Industry).

Thanks to more than 26 years of project experience, we can count global companies like BMW AG, Daimler AG and Continental AG among our clients today.

Thanks to its modular, standardized architecture, Cosmino® MES^{plus} offers particularly medium-sized companies from various industries important support in the optimization of their processes and products.

Your Cosmino® MES^{plus} Advantages

- ◆ Focus on people (their knowledge will be developed and used)
- ◆ Causes instead of symptoms for downtimes (by integrating the employee's knowledge)
- ◆ Reporting system oriented on measures (award-winning, fully automated and easily understood)
- ◆ Integrated improvement management system (measures are linked to metrics)
- ◆ Quick start (*express*) is possible (automate data from paper forms; get digital data by scanning)
- ◆ Award-winning Online Data Acquisition Dialog (acquires data and displays information)



COSMINO AG has specialized
in consulting, software development and service
in the fields of Manufacturing Execution Systems (MES) and
continuous improvement processes since 1988.



COSMINO AG supports industrial companies of any size achieve full potential of their manufacturing systems and shows how the best possible result can be achieved using the existing resources. From data acquisition to improvement management, the potential of all employees will be brought to bear.

Have we awakened your interest?
Our sales team is looking forward
to making contact with you!

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