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Machine data management
Optimizing machine use for greater transparency and quality. All machine data are centrally acquired and processed. This enables a systematic monitoring of the system as well as individual evaluation and analysis or respectively the OEE determination of the production cell, line or entire plant.

Part monitoring and tracking
Full transparency throughout the entire process – from the part to the end product or vice-versa. Quality checks become more significant, for example, receiving information about the entire production process permits identification of each charge safety and quickly in the case of product recalls.

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Increase of company security and automatic time recording. Whether ID or biometric data – the freely scalable access control system can be adapted to all security requirements. Work times can be automatically recorded and processed in ERP (e.g. SAP) or in our time management solution.

The solution:
Intelligent production data management
Our production data management for discrete production and assembly creates a direct link between the ERP level (Enterprise Resource Planning) and the production process. Thus our production data management creates a barrier-free information flow by removing the production units. Necessary, up-to-date production data and information about the respective workplaces are made available quickly by a central capturing, analyzing and controlling platform of the planning and production level.

A survey of the standardized function modules
- Plant data acquisition
- Machine data management
- Part monitoring and tracking
- Personnel time recording and access control

Additional data is available from:
Siemens AG
Industrial Solutions and Services
Postfach 32 60
90092 Erlangen, Germany
Fax: +49 (0) 9131 7-46370
E-mail: it4industry@siemens.com
www.siemens.com/openshopfloor

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Cross Industry IT Solutions
Systematically detecting improvement capabilities in the production and turning them into profit
Industrial Services
The challenge:

A transparent production process – crucial for profitability

Global competition and customer orientation demand a flexible, swift and, above all, cost-effective production. The key is therefore to maximize productivity and quality and optimize all stages of production. However, in spite of extensive automation, unpredictable disruptive factors and prolonged downtimes often prevent this goal from being reached.

For process optimization to be effective over the long term, up-to-date and reliable data from all production sectors and enterprise levels must be available at all times. This data is the basis for making goals, correct decisions, and provides a foundation for measuring results.

What does production management achieve?

• Information is processed transparently and close to the production, so that potential for improvement can be objectively detected.
• Measures can be taken to minimize costs and time-intensive segments of the production chain.
• Production KPIs (key performance indicators) measure the efficiency before and after the corrective actions taken and make it possible to intervene and control economic improvement.

At over 50 percent, the contribution of production in the overall value chain is crucial for profitability.

How our production data management supports you to optimize your production process

Full process transparency – central acquisition, analysis and visualization of process and production-relevant information

Reduction of unplanned system downtimes and optimization of machine running times – support through machine data management

Leading process improvement as well as reduction of cycle times and material stock through automatic production data management

Safeguarded and documented quality – through parts monitoring and tracking

Improved safety and lower costs – through intelligent access control and time recording

Our production data management is made up of standardized, modularized and scalable software packages, which can be used in production preparation as well as directly in the production units.

A central system platform ensures optimal combination of the functions and linkage to existing data processing infrastructures such as production planning systems (e.g. SAP).

The standardized interfaces safeguard your investment and ensure require ability in new development stages in machine data management.

The solution offers functions on the machine level as well as on the control level. It Parsons the barrier-free information exchange and the cross-linking of all levels as also the direct integration into the company-wide enterprise resource-planning world.

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Several hundred successful customer projects in various industrial sectors

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Success stories:

Figures that show significant increases in efficiency

Metalworking company for the production of high-performance machines:

By precisely measuring downtime, organizational as well as technical improvements could be applied, which led to a reduction of up to 50 percent in unplanned activity. The introduction of fully automated measuring directly at the machine permitted the discrimination of manual recording of machine times.

Producer of automation systems (IGC):

By inducing abnormal failure times as the world cycle life in the production, it was possible to strongly boost availability. The availability measured on DBS Overall Equipment Effectiveness was increased by 5 percent, which in this case means a cost saving per line of more than EUR 60,000 annually.

Well-known automotive manufacturer in the power train production:

An all-factory automation assembly station for the availability of remotely monitored by OEE. By doing this, downtimes from minimised and maximum ability to deliver was increased.

Leading automation component supplier of balancing systems:

All measured production data are automatically acquired, visualized online and archived. The required system availability of at least 85 percent is realized and can be verified at any time.

Producer in the production of refrigerated and convenience foods:

The available production capacity is of decisive importance. The highly automated acquisition and analysis of the relevant machine data achieve 98 percent, and deviations can thus be dealt with immediately.

Well-known company in the production of household appliances:

The available production capacity is of decisive importance. The highly automated acquisition and analysis of the relevant machine data achieve 98 percent, and deviations can thus be dealt with immediately.

There’s no doubt that your capital investment will be profitable: Our solutions expertise and extensive project experience guarantee your success.

Working closely with our customers, we have consistently achieved significant gains in efficiency in various industry sectors. We invite you to profit from maximum flexibility and profitability with our services and our experience in the implementations of standard products and systems from Siemens in the areas of industrial IT – from the shop floor, process automation and control, the production management level and strategizes to company-wide enterprise systems.

Global economy and the automotive industry stand to gain from our product

• Reduction of unproductive times of up to 50%*
• Reduction of data acquisition times of up to 75%*
• Reduction of setting up times (tooling etc.) of up to 32%*

depending, among other things, on the production process, etc.

The standard module for determining production KPIs makes it possible to systematically control “hidden” potential for improvement in the production, such as:

• Part flexibility
• Reduction of organization times
• Reduction of unproductive times
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Figures that show significant increases in efficiency

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For process optimization to be effective over the long term, up-to-date and reliable data from all production sectors and enterprise levels must be available at all times. This is the basis for making quick, correct decisions, and provides a foundation for measuring results.

Full process transparency – central acquisition, analysis and visualization of all important machine data through集约化机器管理数据

Leading process improvement as well as reduction of cycle times and material stock through automatic production data management

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Our production data management is made up of standardized, modularized and scalable software packages, which can be used in production preparation as well as directly in the production units. A central system platform ensures optimal coordination of the functions and linkage to existing data processing infrastructures such as production planning systems (e.g., SAP).

The standardized interfaces safeguard your investment and ensure required reliability in later development stages in combination with the basic software.

The solution offers functions on the machine level as well as on the control level. It protects the barrier-free information exchange and the cross-linking of all levels and also the direct integration into the companywide enterprise resource-planning world.

Metalworking company for the production of high-performance machines

By precisely measuring downtimes, organizational as well as technical improvements have been made. The machine availability was increased by up to 50% in an important part of the production. The calculation of production performance is now possible.

Well-known automotive manufacturer in the power train production

An all automatically assembled components, the availability was continually monitored and deviations were detected at the earliest possible moment. The availability increased by 8% and could be maintained at over 90% in the following months.

Leading automotive component supplier of balancer systems

All required production data were automatically acquired, visualized online and archived. The required system availability of at least 85% is realized and can be maintained at any time.

Well-known company in the production of household appliances

The available production capacity is of decisive importance. The highly automated company and analysis of the relevant machine data achieve 85%, and deviations can thus be dealt with immediately.

At over 50 percent, the contribution of production in the overall value chain is crucial for profitability.

Global competition and customer orientation demand a flexible, swift and, above all, cost-effective production. The key is therefore to maximize productivity and quality and optimize all stages of production. However, in spite of extensive automation, unpredictable disruptive factors and prolonged downtimes often prevent this goal from being reached.

A transparent production process – crucially improved productivity and efficiency

The standard module for determining production KPIs makes it possible to systematically unleash hidden potential for improvement in the production, such as:

- Reducing machine downtimes by 50%* during normal operation
- Reducing of unproductive times of up to 50%* and
- Reduction of machine availability of up to 75%*
- Reduction of setting-up times (tooling etc.) of up to 32%*

For process optimization to be effective over the long term, up-to-date and reliable data from all production sectors and enterprise levels must be available at all times. This is the basis for making quick, correct decisions, and provides a foundation for measuring results.

What does production management achieve?

- Information is processed transparently and close to the production, so that potential for improvement can be objectively detected.
- Measures can be taken to minimize costs and time-intensive segments of the production chain.
- Production KPIs (Key Performance Indicators) measure the efficiency before and after corrective actions have been taken and make it possible to react to and correct problems in an early stage.

This continuous feedback is the basis for a sustained increase in profitability.

How our production data management supports you to optimize your production process:

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Success stories:

- Several hundred successful customer projects in various industrial sectors

The challenge:

Success stories:

There's no doubt that your capital investment will be profitable. Our solutions expertise and extensive project experiences guarantee your success. Working closely with our customers, we have consistently achieved significant gains in efficiency in various industry sectors. We invite you to profit from maximum flexibility and profitability with our bundled solutions expertise combined with investment-safe implementation of standard products and systems from Siemens in various industries.

Figures that show significant increases in efficiency

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• Measures can be taken to minimize costs and time-intensive segments of the production chain.
• Production KPIs (key performance indicators) measure the efficiency before and after the corrective actions taken and make it possible to monitor and control economic improvement.
• The contribution of standardized, modularized bundled solutions expertise combined with investment-safe implementation of standard products and systems from Siemens in all levels of industrial IT – from the shop floor, process automation and control, the production management level and intralogistics to companywide enterprise systems.

At over 50 percent, the contribution of production in the overall value chain is crucial for profitability

Several hundred successful customer projects in various industrial sectors

A central system platform ensures the optimal combination of the functions and linkage to existing data processing infrastructure such as production planning systems (e.g., SAP). The standardized interfaces safeguard your investment and ensure require ability in later development stages in conjunction with the life cycle of the products.

The solution offers functions on the machine level as well as on the control level. It permits the barrier-free information exchange and the cross-linking of all levels and also the direct integration into the companywide enterprise resource planning world.

Table: Breakdown

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metalworking</td>
<td>60%</td>
</tr>
<tr>
<td>Automotive</td>
<td>20%</td>
</tr>
<tr>
<td>Electronics</td>
<td>10%</td>
</tr>
<tr>
<td>Food &amp; Beverage</td>
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Metalworking company for the production of high-performance machines by precisely measuring downtime, organizational as well as technical improvements (breakdowns and failures) could be applied, which led to a reduction of up to 50% in unproductive activity. The introduction of fully automated measuring directly at the machine permitted the discontinuation of manual recording of machine times.

Producer of automation systems (PLCs)

Executive summary

• Reduction of unplanned system downtimes and optimization of production-relevant information

At all fully automated assembly stations, the availability was continually monitored by OEE. By doing so, downtimes could be minimized and maximum ability to deliver could be assured.

Leading automation component supplier of balancing systems

The available production capacity is of decisive importance. The highly automated acquisition and analysis of the relevant machine data achieve this, and deviations can thus be dealt with immediately.
Plant data acquisition
Reducing processing times, increasing adherence to delivery dates. All production order confirmations, for example, quantities, output or consumption amounts, are centrally acquired and available to the management in up-to-date form.

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Optimizing machine use for greater transparency and quality. All machine data are centrally acquired and processed. This enables a systematic monitoring of the system as well as individual evaluation and analysis or respectively the OEE determination of the production cell, line or entire plant.

Part monitoring and tracking
Full transparency throughout the entire process – from the part to the end product or vice-versa. Quality checks become more significant. For example, receiving information about the entire production process permits identification of each charge safety and quickly in the case of product recalls.

Personnel time recording and access control
Increase of company security and automatic time recording. Whether ID or biometric data – the freely scalable access control system can be adapted to all security requirements. Work times can be automatically recorded and processed in ERP (e.g. SAP) or in our time management solution.

Our production data management for discrete production and assembly creates a direct link between the ERP level (Enterprise Resource Planning) and the production process. Thus our production data management increases the transparency of the production process further. With the system the production operator does not need to search for his individual production project. Instead, he can see the current state of the project and initiate the required activities. The system further reduces the number of paper documents, which in turn increases the sustainability of the production process.

The solution:
Intelligent production data management

Additional data is available from:
Siemens AG
Global E-Commerce and Services
Postfach 32 90
D-91087 Erlangen, Germany
Fax: +49 (0) 9131 7-46370
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A survey of the standardized function modules

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