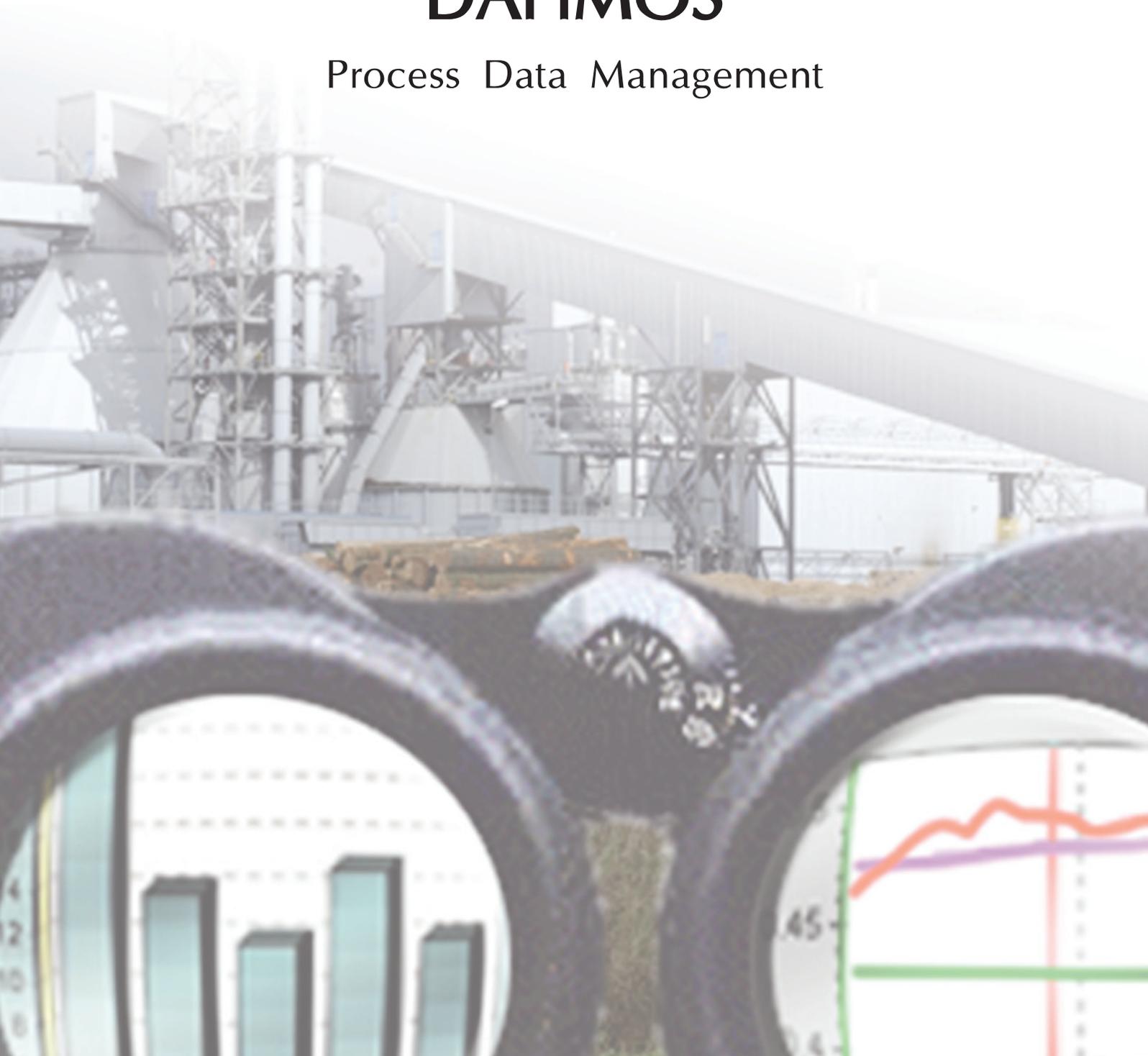Siempelkamp

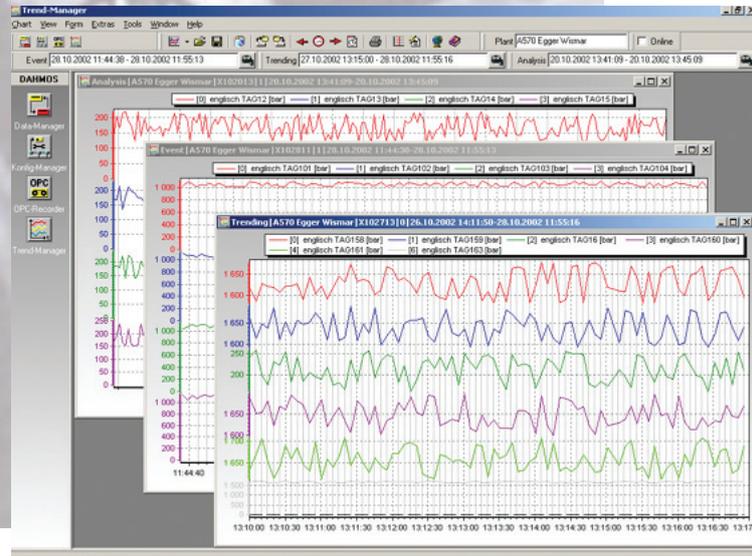**Maschinen- und Anlagenbau**

DAHMOS

Process Data Management

Modern Process Data Management Provides Universal Business Benefits

High performance data acquisition with user-friendly, intuitive handling: With the introduction of **"DAHMOS"** (Data Acquisition Handling and MOnitoring System) Siempelkamp Maschinery and Plants has developed a data base system which achieves this double claim. Process data acquisition, filing, and evaluation is effected by configurable program modules, which ensure adaption flexibility to the plant-specific conditions at a high extent. The optimized trending of relevant process values recovers critical plant events immediately, and causes and relationships are quickly identified using intelligent analysis tools. So the operating personnel can react promptly.

The short learning curve for setup and operation, targeted data analysis tools, built-in fault detection and reliable process management features translate into convincing advantages and solid business benefits for the user. Investment payback is realized after a short time when extended plant downtimes and the corresponding costs are avoided by quick and detailed problem diagnostics.
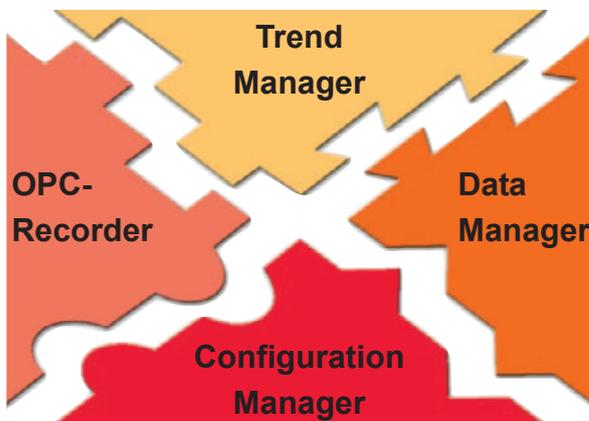
Modular system structure

DAHMOS is a scalable Windows-based system, which can be adapted to suit the operating company's requirements by means of simple configuration, and without the need for additional programming. The system consists of four modules:

- The *OPC Recorder* captures up to 2,000 different process parameters from various plant controllers and stores it in a database.
- In the *Configuration Manager* is determined which data is to be acquired.
- The *Trend Manager* provides comprehensive evaluation and analysis tools for the recorded process data.
- Data administration and data import and export tasks are executed by means of the *Data Manager*.

The modules can be installed on every PC as independent programs.

Considerable system benefits for different user groups

Targeted process analysis for the process technologist

By using the different recording modes short-term snap shots are possible as well as long-term observations. Data is available for evaluation of causal relationships in the process in order to optimize the product quality and material usage. With the help of the trigger functions data recording can be released depending on user-defined parameter limits.

Thus exactly defined plant situations can be captured and analyzed. Via data import and export evaluation is possible also on a remote computer e.g. in the office or in the laboratory.

Quick commissioning

DAHMOS is a high-quality measuring instrument to quickly derive the correct process settings for new plants during commissioning. The rapid data acquisition reduces set-up time for the control circuit optimization. The commissioning engineer can easily and flexibly select the relevant data points and trigger conditions.

Reliable process management

DAHMOS offers improved process management because of individual facilities to display all process variables. As a result, critical problems can be detected early on, often always when coming up, and corrected immediately. Rejection rates and less quality can thus be minimized.

The system is very easy to operate and learn, ensuring extremely short training times. The insertion of new data points can be executed by all plant personnel with no need of special knowledge as well.
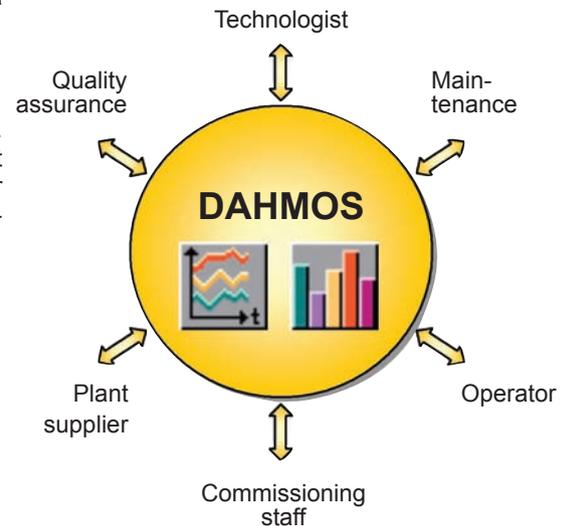
Targeted support

Recorded data evaluation is not linked to the data acquisition: Files can be exchanged between different departments of the plant user, but also as with the plant supplier via e-mail, or on CD. A special file handling system ensures that data is easily assigned and archived. Now suppliers can carry out evaluations as well and offer targeted support - also via remote data access.

Easy introduction of the system

The system is scalable (number of data points, software modules) and can flexibly be customized to meet any plant's needs without any additional programming. The OPC interface ensures data acquisition from various controller manufacturers and plant suppliers.

Data capturing at the highest performance

The different recording modes satisfy a wide variety of demands on rapid data capturing. Trend mode is for continuously capturing and saving all process data with recording rates of up to one second.

Event mode initiates data capturing with up to 100 ms* recording rates for up to 500 values depending on trigger conditions which may be individually set. Highest demands are fulfilled in OPC-analysis mode because recording rates of 20 ms* for up to 50 values may be achieved here. Data capture may also be commenced and terminated with different trigger conditions with lead and follow-up times that may also be individually set.

Highest performance with 10 ms* recording cycles may also be realised with DAHMOS. This requires the specially developed NetDavid OPC server and optionally available special control software.

* The recording times may depend on the PLCs employed, the quantity of data to be captured and on the control program. Customers must upgrade the existing control program by separate function components if they wish to use analysis mode with recording times of up to 10 ms, which means that the times set in the existing control program may be affected.

Complete system ready to use

The software of **DAHMOS** is available on CD. If desired **DAHMOS** will be delivered as complete system with hardware and software:

- Industrial PC ≥ 3,0 GHz, 1 GByte RAM, ≥ 147 GByte hard disk drive

- Windows™ XP operating system
- DVD-burner (for data archiving) incl. burner software
- Standard network card for process connection
- Option: Connection to the PC network via standard network card (e.g. 3Com)

- Option: Remote access via modem or network gateway
- Option: Additional software for remote access (e.g. NetOP), data compression program (e.g. WinZip)

Siempelkamp
Maschinen- und Anlagenbau

Siempelkamp Maschinen- und Anlagenbau GmbH & Co. KG

Siempelkamp (Wuxi) Machinery Manufacturing Co. Ltd., China

ATR Industrie-Elektronik GmbH

Siempelkamp Handling Systeme GmbH

Siempelkamp CZ s. r. o.

STROTHMANN
Machines & Handling
W. Strothmann GmbH

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