

A stylized representation of the Comos Basic logo. The word "Comos" is in red with a white globe icon, and "Basic" is in white. They are set against a background of glowing orange and red light trails and a grid pattern, suggesting a high-tech or industrial environment.

Comos Basic

Comos Basic –
the secure software upon
which to base your machine
and plant engineering

Comos Basic – the ideal basic platform from which to launch Engineering Projects

Security and transparency from the very beginning – that is what saves costs, time, and manpower, especially in the field of engineering. Our software will make a substantial contribution and a sound basis for your plant engineering – right from the very first steps of basic engineering. Furthermore, the workflow is both simplified and speeded up.

Complex requirements call for highly efficient engineering processes

Both engineers and machine and plant operators have to face constantly increasing challenges in the service of progressive globalisation. That is why efficient, well-conceived Life Cycle Asset Information Management has become indispensable. Every company wanting to maintain its market position is forced to chase maximum efficiency to ensure its competitiveness. Only consistent data management across the total plant life-cycle can create the pre-requisites for optimised engineering processes and reduced processing times.

“ Comos Industry Solutions’ response to these challenges is Comos Basic. ”

Comos Industry Solutions’ response to these challenges is **Comos Basic**, an object-oriented and database-neutral basic software for machinery and plant engineering that provides optimum support for the customer by representing his business-specific processes.

During many years of intensive customer-oriented work, **Comos Industry Solutions** has developed this software solution for you. This brochure aims to provide important information about the variety of advantages that **Comos Basic** is offering.

For explanatory notes on technical terms used, please see the Glossary on page 8.

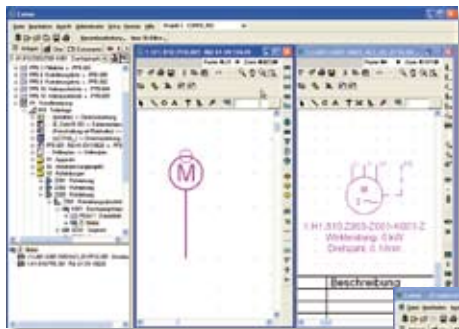


A tried and tested basis for successful engineering

Comos Basic aims at cross-departmental plant engineering and documentation as well as the development of an asset information system. This extends to providing technical support during operation. All plant components including, for example, piping, consumers, measuring points, or other objects are managed, described (with features) and evaluated. Thus, **Comos Basic** forms the basis for the entire Life Cycle Asset Information Management and constitutes the foundation for all modules based upon it. The decisive advantage of **Comos Basic** is its consistent object-oriented data-modelling and evaluation feature. To such a level of stringency, this feature is only available from **Comos Industry Solutions**. Optimum handover of data between different disciplines at the interfaces

ensures security and transparency. Data interchange in a data model with the ability to communicate, provides an interface for the import and export of external applications, making **Comos Basic** the ideal tool for both cross-departmental and cross-location engineering. All of this adds up to **Comos Basic** providing a sound basis for the interplay of different companies in one project.

Optimise your workflow!



Consistent object-oriented data modelling and evaluation

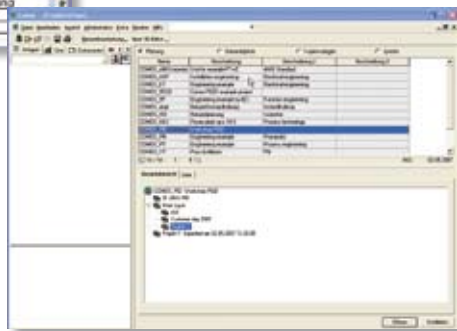
Consistent object-oriented data modelling and evaluation

During each phase of engineering, all work is strictly done on an object-oriented basis. The bidirectional connection of the

Highly efficient simultaneous engineering through Working Layer technology

This new “Working Layer” technology permits the simultaneous work of different departments or companies on several versions of the project (in parallel or hierarchically). This division into different life-cycle phases, e.g. basic and detail engineering is therefore being supported.

Controlled status Working Layer Technology



Global Engineering

The multilingual software **Comos Basic** enables worldwide participation on a project from different locations, even in different time zones! Master data may be centrally managed, with location-specific solutions being aligned to the master database any time. Moreover, **Comos Basic** supports the terminal server solution Citrix®.

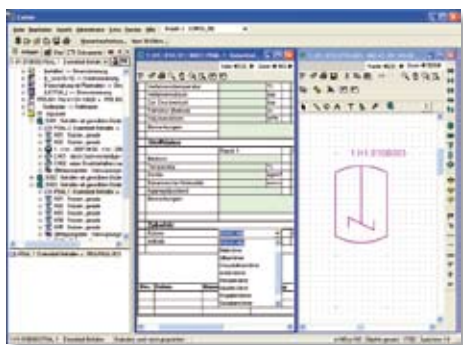
graphics and database prevents inconsistencies. Easy navigation from one object to another simplifies and speeds up project work.

Simple development of cross-departmental standards

Using **Comos Basic**, cross-departmental standards may consequently be issued. These standards may then be called-up at any time and defined according to the specific requirements of the respective users. The database, which is included in the scope of supply, already provides for such standards. The standards may then be used immediately, without requiring prior adaptation.

Optimum handover of data between the engineering view and the operator view

The high quality of data and the prevention of data losses at the interfaces, reduces the time needed for revisions and consequent plant downtime to an absolute minimum. The operator of the plant may also directly use the engineering data.



Direct data input
in documents

Easy handling through intuitive user guidance

Comos Basic may be used without in-depth knowledge of the database. The simple user-guidance facility allows the user to move safely on the users to move easily and quickly through the interface after only a very short training period.

Data interchange with external applications

A data interface between external applications and **Comos Basic** permits problem-free bidirectional data interchange. With **Comos MotionX**, **Comos Industry Solutions** has created a platform for internal and external data interchange based on the world-renowned XML standard.

Open architecture

The open architecture of **Comos Basic** permits a perfect adaptation to user-specific requirements. Seamless integration into existing EDP landscapes at your customer's premises is possible and makes a substantial contribution to their system's integrity.

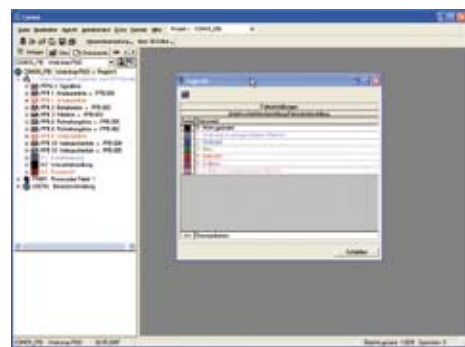
Secure document management

Integrated document management always enables you to keep track, even for complex projects involving a high volume of data. The data is centrally collected (filing system according to EC 61355) and can be made

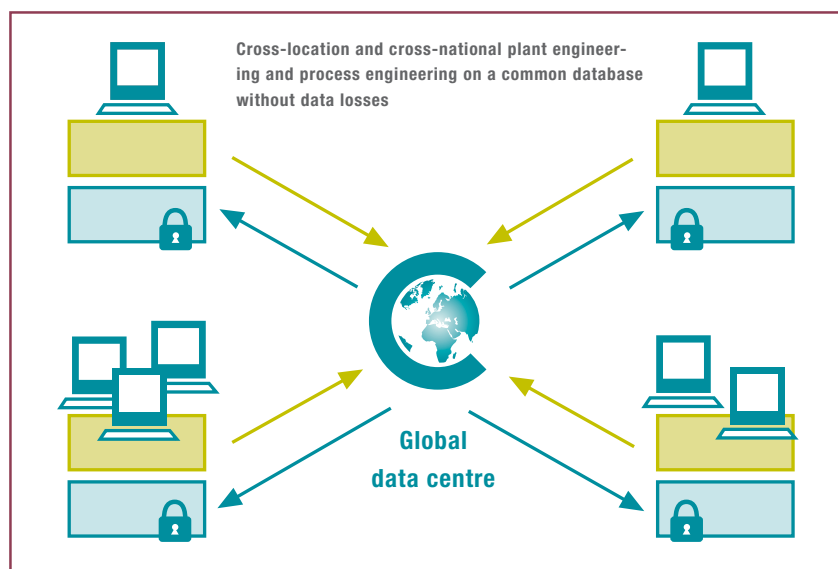
subject to revision as a whole. Extended functionalities, such as the versionising or check-in and check-out of documents, may be obtained in **Comos PQM**, our software solution for large-scale project and plant documentation.

Tagging Systems enable unequivocal data

Tagging Systems (a framework for name generation or object tagging) enable the consistent, unequivocal tagging of all managed data thus ensuring a high quality of data. (Application-specific tagging systems, such as AKZ or KKS (already included in the standard database)) can be implemented. A system-internal alias function optimally supports customer-specific tagging requirements.



Status overview and monitoring of the
Working Layer Technology





From Independent Consultant to Global Corporation, we offer software to meet your needs

Flexibility and easy implementation within existing EDP environments are important criteria for software, which is aimed at providing valuable support for multiple customers from a variety of business lines. Comos Basic fulfils these criteria making it the ideal tool for companies of any size.

As the basic component for consistent data management across the total life-cycle of a machine or plant, **Comos Basic** offers decisive advantages and substantial assistance for engineers, builders and operators. The software is perfectly suited to performing simultaneous global engineering and may be used for both cross-location and cross-

departmental projects. However, also businesses such as, engineering offices can profit from using this approach. Time and cost saving through consistent data and easy handling ensures competitiveness and drives high productivity.

Comos Basic is the ideal tool for all departments involved in engineering. It creates the pre-requisites for a perfectly co-ordinated co-operation.

Comos Basic is already successfully in use within many branches of industry such as, chemistry, petrochemistry, power station technology, pharmaceutical industry, oil and gas, water technology, and paper processing industry. This positive customer feedback affirms our approach and further motivates us.

Profit from our know-how

“ Strict object-orientation guarantees universally consistent data and enables a substantial reduction of project cycle times. ”

“ All functionalities are available on one user interface; there is no need to start other programs or applications. ”

“ Controlled data flow across all engineering levels is ensured. Nothing is left to chance, sources of error are minimized and quality of data is increased. ”

“ The core competence of **Comos Industry Solutions** is software development. The high degree of specialisation and the expert knowledge of our staff in this field serves one objective only – your success. ”

“ **Comos Industry Solutions** staff members, expert in the respective fields will introduce our products at your premises in a target-oriented manner. ”

We develop for your future

For us, the market is constantly on the move. Stagnation in development effectively means a step backwards. Our detection of along with our capitalisation on the trends, drives further development and optimisation of our products. The consistent adaptation of development activities to customer's requirements are a matter of course for **Comos Industry Solutions**.

Already, the following further developments are in planning which will be realised in the oncoming version of **Comos Basic**:

New user interface with WPF (Windows Presentation Foundation)

With this substantially improved new generation of user interfaces (compatible to Windows Vista®), you will be well prepared for the future.

Comos Webserver

This pure Internet application enables worldwide access to planning data generated in **Comos**.

Did we catch your interest? We

will be pleased to answer your questions and submit an offer tailored to your special requirements. **We are looking forward to getting to know you better!**



Glossary

Object-orientation

Object-orientation is based on the holistic definition of a real-world entity and its accurate graphical representation. The graphical and alphanumeric parameters within the database form the unit known as an object.

Simultaneous Engineering

Instead of sequentially working from individual development steps, simultaneous engineering allows parallel individual workflows within project work. Through simultaneously working on independent processes and the overlapping of interdependent activities with a continuous exchange of information, the product development process is speeded-up.

Universal data flow

Using universal data flow, data is entered only once and is then automatically made available to all departments and applications involved within the project. There is no resorting to manual tracking. By means of consistent inheritance and interlocking mechanisms, everyone involved in the project may have access to current and consistent data – any time, everywhere.

Working Layers

Working layers are overlapping views on an engineering project permitting parallel working without manipulation of the common database. They are designed for the versioning of as many project stages as you like. They are capable of accessing deeper working layers, and can create own objects in their respective layer. Thus, modifications can be tested first and, if required, be rejected and deleted.

Global Engineering

Global engineering refers to the simultaneous working of different departments involved in project work in different countries (even in different time zones) on one project. From every location round the globe, the data can be viewed and edited according to selective access authorisation.

Data modelling

Through data modelling, inconsistencies and redundancies in data management can be avoided, speeding-up data access. This can be supported by stored rules.

As a world-leading provider of comprehensive Life Cycle Management systems, **Comos Industry Solutions** offers professional software solutions and services. The integrated **Comos** concept is designed to cater for both customer-specific requirements and established industrial processes. The individual modules can be used as either stand-alone software or as a complete software suite. **Comos** is the complete solution for end-to-end basic and detail engineering processes, catering for all industrial plant life-cycle phases. The **Comos** philosophy, products and services have long been trusted by plant designers, operators and contractors.

More information, as well as contact data for our company locations around the world, can be obtained here:

E-mail: info@comos.com
Internet: www.comos.com

A Siemens Business