Truck scale with SysTec weighing terminals & self service stations

W&M approved SysTec weighing electronics in use at Scheller Mühle GmbH

The traditional company **Scheller Mühle GmbH** is one of the largest milling companies in Germany. High-quality products such as wheat flour, semolina and many more are convincing in terms of quality. As an example, the product line ‚Mehlzauber' (‚Magic Flour') was named by the trade paper ‚Lebensmittel-Zeitung' one of the 100 most successful brands in the trade. The Bavarian company has two production facilities with busy logistics operations. State-of-the-art **truck scales with intuitive self-service stations** ensure precise and efficient handling of truck movements. The scales were designed and installed by **Waagenbau Dohmen GmbH**, which relies on powerful **SysTec weighing terminals** of the **IT8000E** type.

The key facts

- 2 production facilities: durum wheat mill with 200 tons, soft wheat mill with 300 tons per day
- W&M approved truck scales with driver-operated function
- Automated license plate recognition when truck arrives at scale with data retrieval from ERP system
- Simple check of zero point via large character display before the truck drives onto the scale - with option to correct setting via keyboard of operating terminal

Products

- IT8000E: W&M approved and rugged SysTec weighing terminals for continuous truck scale operation
- PC *ScaleView* from SysTec as approved weight indicator
- Connection of additional devices, e.g. remote display
- Truck scale design with self-service station by Waagenbau Dohmen GmbH
- Intercom system at the scales enables communication between operator and Scheller office staff

Customer benefits

- Optimization and acceleration of weighing through partially automated processes after license plate recognition
- Reduced personnel workload thanks to intuitive self-service stations and digitized weighing processes
- Accurate weight determination - smart weighing systems
- Easy integration of the weighing terminal into the overall system through interfaces
- Robust and durable SysTec weighing terminals for outdoor use (IP69K)
- User-friendly application software TRUCK/ONLINE for truck scales
- 4 different systems communicate with each other: The IT8000E weighing terminals, the ERP system, the software Do-Profi and the silo management
- High operational security: The complete weighing process is monitored by cameras (incl. video storage on the server)

© Photos: Scheller Mühle GmbH

From Pfaffenhofen to entire Germany

Thanks to innovative technology and investments, the Scheller Mühle, founded in 1843, today has a production volume of 500 tons per day - up to 15,000 metric tons of grain are stored in 32 cells for the different product varieties.

To transport branded goods such as ‚Mehlzauber' from Pfaffenhofen in Bavaria to destinations all over Germany, numerous truckloads have to be weighed and dispatched every day.

To make this as efficient as possible, Scheller has invested in innovative truck scales supplied by Waagenbau Dohmen. The goal is digitalized weighing processes fully integrated into the software architecture.

Scales with self-service stations

At the newly built W&M approved vehicle scales on the premises of the Scheller factory, control cabinets were installed equipped with SysTec weighing terminals type IT8000E. The truck drivers can enter the required data easily and quickly at the self-service stations. This accelerates the weighing process and reduces the workload on personnel at site. Camera systems automatically read the license plate and data stored in the ERP system can be retrieved.

The network and interface capability of the SysTec weighing electronics is of great advantage here. Four different systems communicate with each other: the IT8000E control system, the ERP system, the DoProfi software and the silo management.

The staff in the offices is keeping an eye on the weight values of the SysTec weighing terminals at any time. On the plant site, the operator sees the approved weights on the operator terminal, on which the PC ScaleView software is running. In case of questions, the operators (or drivers) can contact the Scheller staff via intercom system. The complete weighing process is monitored by cameras, so that all actions are documented. Video data are stored on the server.

‚In our eyes, the IT8000E weighing terminal has proven itself as the best for such complex applications. Without the flexibility offered by the IT8000E and its complex customization options, customer-specific projects of this nature would not be possible for us', says Marvin Dohmen of Waagenbau Dohmen GmbH.
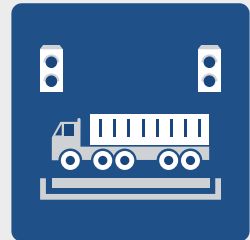

© Photos: Waagenbau Dohmen GmbH

Truck scale above and self service station below

At a glance: IT8000E weighing terminal

- W&M approved as non-automatic and automatic scale, (approved in EC, USA, etc.)
- Universal use: Numerous standard application programs
- Customizable: Free programmability
- Robust: Stainless steel housing (ingress protection IP69K)
- High ease of operation: Bright TFT color display 5.7" with wide viewing angle and large weight display; alphanumeric keyboard
- Ex-area: For hazardous areas SysTec offers the version IT8000E Ex2/22 and for zones 1/21 the version IT8000Ex
- Several housing options: Wall-mount / desk-top version as well as version for panel-mount installation
- Numerous interfacing options: 2 internal and up to 6 external scale connections, can be integrated into PC networks via Ethernet or WLAN, connection to label & network printer, PLC connection via fieldbus
- High operational security: Powerfail-safe data storage, password protection, battery-backed real-time clock, remote diagnosis

© Photo: Scheller Mühle GmbH

![SysTec Discover smart weighing logo]

A strong project team - © Foto: Waagenbau Dohmen GmbH

Further information regarding the project service providers

Discover smart weighing

Waagenbau Dohmen GmbH
seit 1924

SysTec Systemtechnik und Industrieautomation GmbH

Since 1994 SysTec has been developing and producing W&M approved industrial weighing indicators and filling controllers for static and dynamic scales.

More than 150,000 installations are successfully in use worldwide. The innovative SysTec weighing systems work reliably in numerous applications: These include filling systems for liquids and bulk materials, shipping / receiving scales, beltweighers, vehicle scales, checkweighers, piece counting scales, mobile weighing systems and all kinds of customer-specific applications. In addition to standard products, SysTec also offers customer-specific system solutions and custom-made hardware and software. Comprehensive technical advice completes the range of services.

The production and development site for SysTec weighing terminals and software solutions is Germany. The company is located in Bergheim-Glessen, near Cologne. The production of the weighing terminals and software is subject to international OIML standards.

Discover more: www.systecnet.com

Waagenbau Dohmen GmbH

Waagenbau Dohmen GmbH, founded in 1924, is a medium-sized company that is now managed in the third generation by the two brothers Martin and Peter Dohmen.

The product portfolio includes scales for weighing ranges from milligrams to tons. The heavy-duty scales are developed and manufactured in the Würselen plant - as complex weighing systems with high quality standards.

Since 1996, programming of application software for a wide range of weighing systems has also been part of the scope of supply of the traditional company. Here, the inner workings of the scales are brought to perfection.

Discover more: www.waagenbau-dohmen.de