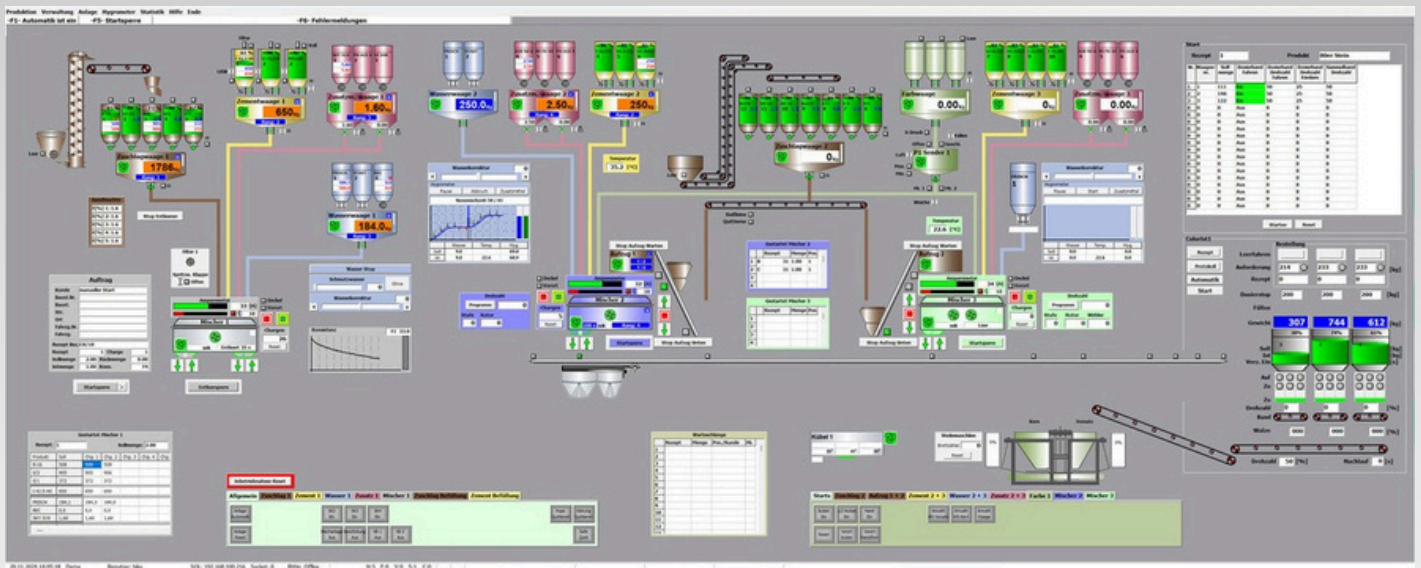


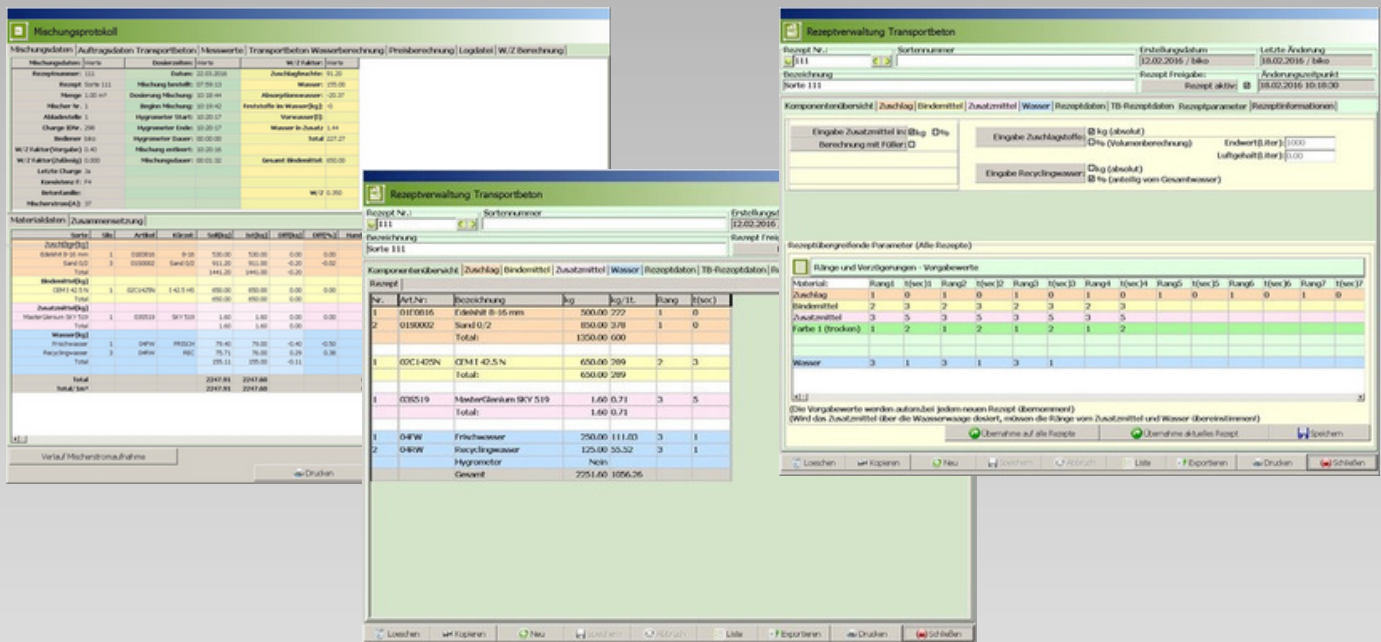
Process control system for readymixed concrete TB-WIN



The TB-WIN process control system enables manual and automatic control of concrete mixing plant processes. Its modular design allows for the creation of a plant control system tailored precisely to your requirements. Only the hardware and software modules necessary for the production process to be controlled are put together.

The TB-WIN process control system consists of:

- 1 Siemens industrial PC
- 1 TB-WIN management and process control software
- 1 Windows operating system
- 1 SQL database
- 1 Siemens PLC with fieldbus technology (Profinet/Profibus)
- 1 software for remote maintenance



TB-WIN is responsible for managing all master data such as recipes, articles, raw materials, statistics etc. Clear menus and self-explanatory buttons provide the user with maximum ease of use and a very good overview. Even basic knowledge of the Microsoft operating system Windows is enough to get used to TB-WIN quickly and easily.

All lists and statistics can be accessed with various sorting orders and displayed over any time period. All statistics are presented in tabular or graphical format.

TB-WIN features a data export module that allows you to export all statistics. Furthermore, any amount of data can be recorded. Data size is irrelevant; even with increasing data volumes, the processing speed remains unchanged. The data can be transferred to a central invoicing/ERP system via USB stick or over a network. The data can then be individually reviewed or processed.

Database SQL Server / client-server application / standalone backup system

Data export Data export in ASCII or Excel format for later data processing with Excel (*.csv)

The Recovery Set is used to easily restore all Bikotronic software packages and databases. The recovery can be easily performed by the customer.

Remote maintenance

All functions of the system can be tested, adopted and changed via this connection.

Spare parts availability The TB-WIN computers are based on standard industrial PCs. This ensures reliable spare parts procurement through standardized PC components.

Statistics

- All statistics can be displayed in freely selectable time windows.
- Consumption statistics with management of material disposals target and actual with difference calculation
- Recipe statistics, article statistics: Listing by produced articles with consumption of gravel, cement, aggregates, paint and water for each article
- Production statistics with output of all components contained in the recipe with breakdown target/actual and difference calculation
- Statistics of the mixing protocols for each individual batch
- Daily production
- All operations on the system are recorded and written to a log file. These can be viewed on the screen or printed out.

Password-protected areas

Each menu item can be password protected: No access, read only, read and write access

Additional features

Post-processing of delivery notes and protocol printouts from the database, on external data media or storage on the network server

Interfaces to other software systems are no problem

Data export in ASCII or Excel format for later data processing with Excel SQL Server

Input materials such as aggregate, cement, admixtures, water, 50 of each as a default, inventory management for each silo, data export of the inventory as a text or Excel file (*.csv)

The **TB-WIN administration module** facilitates the processing of main and pre-planned orders.

Material disposition

Disposition for all components

Disposition via selection of individual orders

Automatic quantity calculation

In **the recipe management**, suitability, concrete families, exposure classes, product groups, components, emptying times, scales, mixer closing times related to partial quantities etc. are stored.

Customer addresses, comments and blocking indicators are stored in the **master data management** and can be accessed via customer number or search term.

It is possible to assign construction site data to the customer or vehicle data including load quantity, license plate number, driver name etc.

TB-WIN