



View of the batchWare™ batch screen

batchWare™ is the heart of the **ProBatch™** family of concrete automation systems allowing them to be truly Windows® based. In short this means a **ProBatch™** system utilising **batchWare™** can control the plant directly without the need of a second computer or PLC. Since **batchWare™** has direct control, it can provide the typical options and control of traditional batching systems all under the power of Windows®, while adding features such as flexibility, user friendliness and connectivity. These Windows® benefits have enabled the batching computer to expand its role in the concrete industry in ways never before imagined. No longer the disconnected black sheep of an organisation, **ProBatch™** systems through **batchWare™** can be part of an integrated solution while redefining time-honoured words like accuracy and reliability

ACCURACY

As with all areas of **batchware™** the method used to weigh materials is nothing less than revolutionary. **batchWare's™** advanced methods are allowing customers to discover levels of accuracy previously thought unattainable.

Other systems use the old traditional weigh-up method, called "freefall". Since weigh-up is an ever-changing process, most of these systems must incorporate "free-fall learning" in an attempt to compensate for mechanical, pneumatical and material changes. While this has been the industry's predominate method for decades, **batchWare's™** advanced approach has opened the door of obsolescence for this dated material weigh-up method.

Using the latest technology, **batchWare™** actually monitors the plant and scales **during** the weigh-up process, and makes the decisions needed to compensate for these changes as they happen.



This process is called *Intelliflow*, and it allows **batchWare™** to reach targets with little or no jogging of the weigh-up gate. *Intelliflow* accomplishes this by allowing **batchWare™** to "think" during the weigh-up process. After all, in order for a system to use the "freefall learning" method, it must learn from mistakes that have already been made. With *Intelliflow*, we correct for the changes during the batch, virtually keeping mistakes from ever happening.

SPEED

In order for a batch computer to significantly increase plant production, the system must reach the weigh-up targets during the initial drop and maximise the loading of material into the truck on every mix. As previously discussed, *Intelliflow* helps **batchWare™** maximise the weigh-up of mixes by achieving the majority of the individual material targets the first time. This eliminates production inefficiencies due to multiple jog and scale settle times during the weigh up process but little effort has been made in the past to eliminate loading inefficiencies.

Discharge Types is **batchWare's™** answer to maximising the Load rates of every mix into every truck. *Discharge Types* permit **batchWare™** assign a discharge sequence to both the mix and the truck. *Discharge Types* along with *Intelliflow* technology, significantly increase production capacity of most plants by eliminating the need for the system to over-control the discharge gates during the batch cycle. As an added bonus, plant maintenance and wear are less since the gates are not over worked and each batch cycle is shorter



RELIABILITY

With the release of Windows® 2000 and XP, Microsoft® has reached new levels of stability and reliability. Building on the successful operating systems of the past like Windows® NT 4.0 and Windows® 98, Microsoft® created powerful and very stable Windows® products with unparalleled power and user friendliness. Harnessing the power and increased reliability of Windows® 2000 and XP, **batchware™** has been able to maintain a constant focus on reliability.

USER FRIENDLY

In a world where Windows® operates an estimated 90% or more of the computers, it's no wonder that Windows® has impacted the way we function and has become a part of our daily lives. This infiltration has created a familiarity with Windows® that makes it an increasingly easier operating system for everyone to use. Windows® graphical design and "point -and-click" interface cause programs designed for it to maintain some similarity to one another. This fact alone is one of the major reasons Windows® is so popular even for users who are completely unfamiliar with computers. Once mastered

a user can navigate **batchWare™** with ease. Batching concrete on a **batchWare™** powered system requires only a couple of “point-and-click” strokes. This level of simplicity is why **batchWare™** is so well liked.

FLEXIBILITY

Each user of **batchWare™** can customise not only the way screens are set up for use, but also certain colours, functions and even certain languages. The **batchWare™** configuration screen can be set up for the “power” user, exposing its vast array of features, or for a typical operator showing only a minimum of options. This ability to hide the icons on the configuration screen adds a layer of protection from the curious operator. Simply put, **batchWare's™** flexibility begins with user preferences and extends throughout the software providing the same degree of usability found in most other Windows® programs.

CONNECTIVITY

For a truly integrated solution, a batch computer should seamlessly connect to other computers in the company, thereby making it available to all parts of an organisation. Since **batchWare™** resides on Windows®, data transfer options



are numerous. Data transfer can now be accomplished across a local area network (LAN), wide area network (WAN), phone line, ZIP® Disk, or floppy disk, providing any method of transferring information required. **batchWare™** can connect to all major dispatch systems through the Dispatch Interface Option, or data may be accessed by using the export utility to

create a delimited file for import by other programs such as accounting packages.

REPORTING

For some time batch computers have been able to collect information for the current day and print limited reports. At the end of the day the information was cleared and the process started over. **batchWare's™** advanced design changes all that. Since years of data can be stored on a **ProBatch™** system, finding past information is effortless. Reports are no longer limited to the standard reports that come with the system due to the use of an optional report writer. Changes to the standard reports can be made by the user to customise the report to the needs of the company.

OPTIONS

batchWare™ has many available options to help producers maximise their investment in a **ProBatch™** automation system. Popular options such as Dispatch Interface, **ProOrder™**, and **microDispatch™** integrate with **batchWare™** transforming the batch computer into an information gathering resource. The Dispatch interface option creates a conduit between **batchWare™** and most centralised dispatch systems. For operations utilising a decentralised dispatch approach, **ProOrder™** is available. **ProOrder™** is an integrated order

entry/ticketing option that is available in three different versions: **ProOrder™-Lite**, **ProOrder™-Standard** and **ProOrder™-Enhanced**. **microDispatch™** is a multi user order entry/ticketing option that creates a dispatch-like solution for small to mid-sized producers. Please refer to the individual brochures on these products.

FEATURES

•Below are some of the features of **batchWare™**:

BATCHING

- Material trims at batch time
- Loss of flow detection of materials
- Direct & bottled admixtures in mg/mtr or mg/h.w.
- Automatic split batching
- Same screen setup/batching
- Customise batch setup layout on batch screen
- User defined voice prompt
- Demo modes for new employee training
- hot list information section on batch screen
- Adjustable discharge rate using “+” & “-” keys
- Discharge target/actual flow rate on batch screen

MIX DESIGNS

- Unlimited mix design storage
- 16 character alphanumeric Mix ID
- Short and long mix descriptions
- Custom slump table with automatic adjustment
- Custom category field for reports and searches
- Selectable discharge type for optimum loading
- Individual notes per mix design
- Individual slump table assignments per mix design for automatic slump adjustment at batch time

RECORDATION (BATCH WEIGHTS)

- Unlimited storage of all batch weights
- Preview/reprint old batch weights

CONFIGURATION

- User friendly alphabetical list of all setup items
- Customisable per user for security and simplification
- User entry for assignable preference per user

DATA EXPORT

- Export data to most accounting programs
- Fixed-width export for compatibility with past systems
- Selectable delimiter (comma, colon, tab, etc.)
- Field order selection table
- Assignable export ID for saving multiple export layouts

INVENTORY TRACKING

- Graphical display of on hand inventory
- “Trucks low” display and warning settings
- Low inventory warnings settable per material
- Enter material receipts and check inventory status while batching

SCHEMATICS

- Electrical Schematics are stored on the computer and can be repaired
- Schematic viewer contains zoom and pan functions

TRUCKS

- Minimum and maximum load size settings
- Individual discharge rates per discharge type per truck
- “Truck-type” selection for report analysis and haul-truck