Features

- Consistent Concrete Quality Accurate Records High Plant Output Rates
- Easy To Operate
- Serial Communications With Central Computer Systems, C-PAK60 Shipping System, C-PAK70 Technical Data Access Package & Remote Maintenance Systems
- Comprehensive Support Services

Description

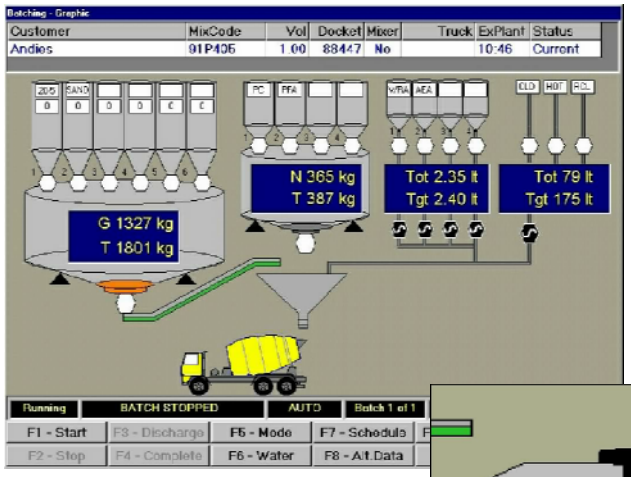
The C-PAK50 Readymix Batching System provides consistently high product quality at high production throughput rates on readymix concrete plants.

It controls the weighing, discharge and where appropriate, the plant mixing of concrete in accordance with stored mix designs and specific load requirements.

It provides for fully automatic operation with varying degrees of operator intervention as and when required.

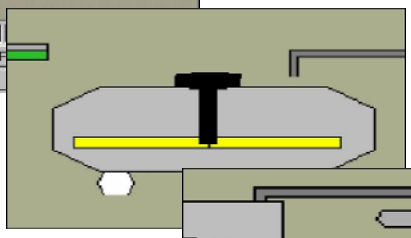
Load Reports are archived for subsequent viewing or hard copy printout. They include theoretical and actual material quantities batched and associated load data such as Customer Name, Site, Docket No, and other Delivery Docket data where appropriate.

A wide range of Configuration, Method and Adjustment settings are available to set-up and tune the system for optimum operation in any type of application.

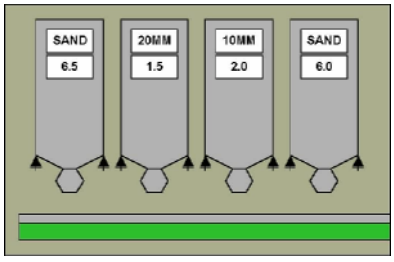


Plant & Method Variations

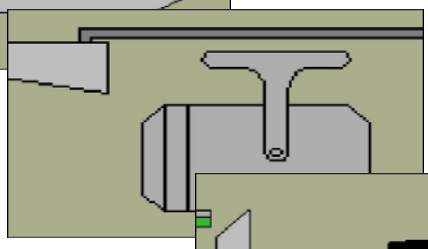
Plant variations include aggregate weigh hopper or backweigh bins, batch conveyor or skip hoist and pan or drum mixer. Method variations include dry batch, wet batch, half wet batch and mortar/screed wet batch.



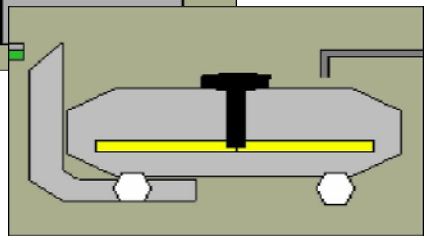
Dry Batch



Backweigh Bins



Wet Batch
(Pan Mixer)



Wet Batch
(Drum Mixer)

Half Wet Batch

Security

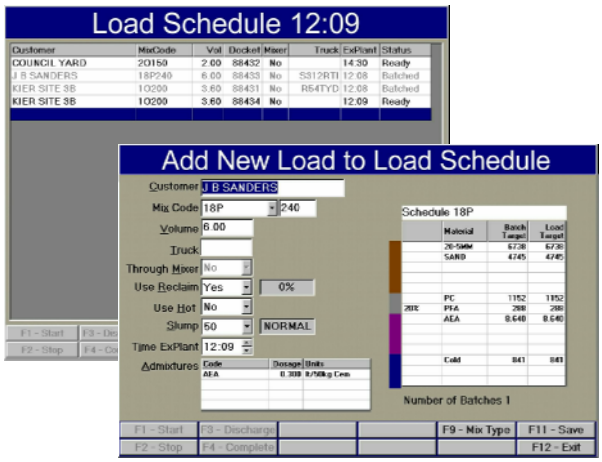
Access to the configuration and adjustment settings may be restricted to supervisors, technical staff and managers. Standby batting records are archived for access by management only as a means of detecting any unauthorised batching.

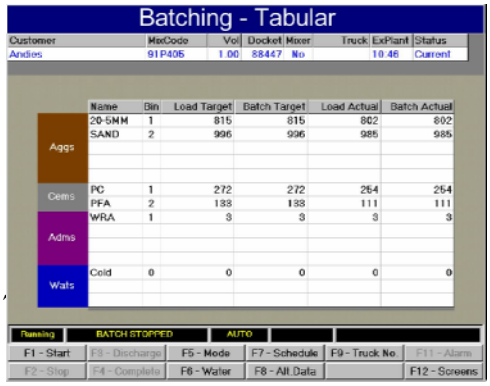
Operation

Loads are selected for batching from the Load Schedule.

If batching communications with a shipping system are provided the Load Schedule may be switched between REMOTE mode and LOCAL mode; otherwise it remains in LOCAL mode.

In REMOTE mode loads are received from the shipping system: in LOCAL mode they are selected by using the Add New Load screen. Also, Batched loads may be repeated directly from the Load Schedule by operating ENTER.





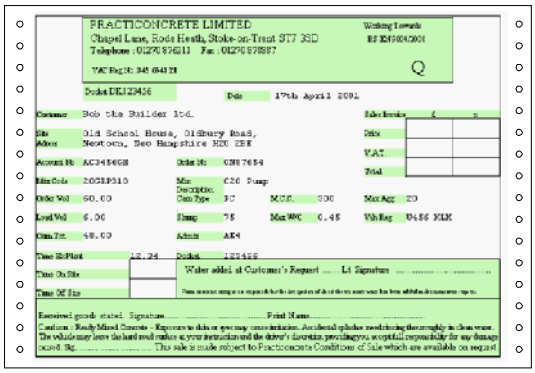
Batching

Two batching screens are available: the Tabular Graphics screen (see opposite) that provides an instant view of the plant state and the Tabular screen that provides numeric data for manual batching.

Both screens show the same function control keys and the same Current Load details at the top of the screen

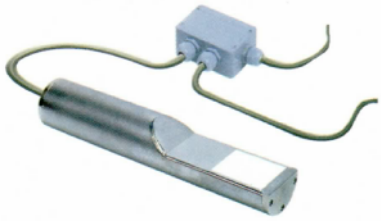
Delivery Docket Printing & C-PAK60 Shipping System

Facilities can be added to print on either standard or customised pre-printed delivery dockets. This facility is normally used when the system is linked to a central computer system or to a C-PAK60 Shipping System (see separate leaflet). It can be used in LOCAL mode whereby docket data is manually typed in by the operator.



Aggregate Moisture Compensation

The system accepts serial microwave moisture probe signals as standard. Alternatively, moistures can be manually set. It compensates for aggregate moistures by increasing aggregate targets and decreasing water targets accordingly.



C-PAK70 Technical Access Package

This PC software package provides remote access to technical data in any number of C-PAK50 installations via local area or digital telephone networks.

Mix design and load report data can be uploaded and stored in the system; while new or modified, mix design data can be downloaded. Issue records can be kept.

Engineering Data

Load Cell Weighing
10V DC @ 125mA max, 1 x 4 x 350 ohm load cells may be connected in parallel.

Accuracy
Up to 16,000 +/-0.5divisions. 16bit 1:65,000 internal resolution.

Calibration
By pushbutton operation; Zero and Cal to known weights. Pass number protected.

Supply
Nominal 110V

Environment
Operate 0-50^{0}C, 20-80%RH Non-condensing. Storage -40 to 80^{0}C

Remote Slumping & Washout Stations

The Remote Slumping Station enables slumping water added after trucks have moved out from the plant being retrospectively recorded on Load Reports.

The Remote Washout Station enables drivers to batch a preselected cleaning mix of stones, admixture and water, to their trucks at the end of the day when the regular batcher may have left site. The system then prompts for the added quantities to be deducted from each truck's next load.

Maximum Throughput Rates

When multi-batching, one batch is weighed while the previous batch is being mixed. Also, the first batch of a load may be weighed while the previous load is being slumped.

Truck Loading Rates

Reduced truck loading rates may be selected for particular truck registrations.

Alarms

These are raised under all conditions that stop the batching e.g.

- Weigh door not closed
- Cements over weight
- Mixer not running

Service

On-site commissioning and maintenance services are provided by Practicon and its appointed overseas suppliers.

Telephone/modem support and parts/ replacement services are provided by Practicon from its base in the UK.