



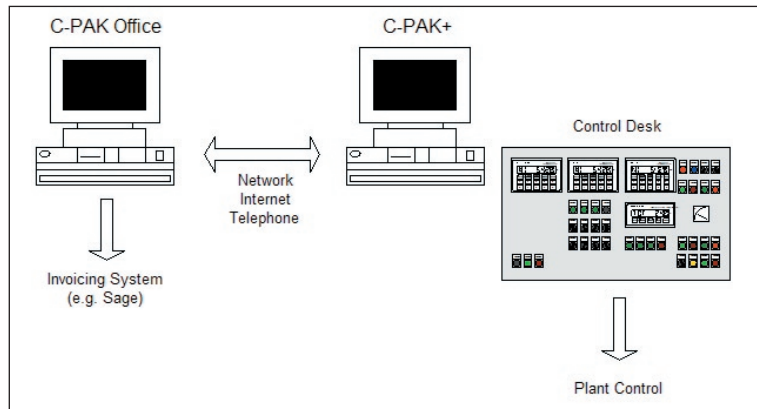
Benefits

- Consistent Product Quality at High Output Rates.
- Accurate Production Reports, Material Usage Records and Stock Estimates.
- Plant Management Data.
- Easy to operate.
- Communications with Central Computer Systems or the C-PAK Office System.
- Comprehensive Support Services.

Automatic Control

The C-PAK+ provides for automatic control of concrete batching plant in readymix, site mixing, precast and mortar/screed applications. It controls the weighing, discharging and optionally the plant mixing of concrete in accordance with mix design data and specific production requirements. Control is fully automatic with optional degrees of manual intervention.

Adjustment settings are available to enable the system to be tuned for optimum plant performance.



Local or Remote Operation

The C-PAK+ may operate stand-alone, whereby all production requirements are entered locally, or in communication with a central computer system e.g. a central shipping system, or a C-PAK Office system, whereby load requirements and reports are periodically downloaded and uploaded to and from a remote location.

Delivery Docket

Practicon
Chapel Lane, Rode Heath, Stoke-on-Trent ST7 3SD
Tel: (01270) 876211 Fax: (01270) 878887 Email: sales@practicon.co.uk Website: www.practicon.co.uk
V.A.T. Reg. No. 318 8467 27 Date 14/09/2011
Customer Practicon Order No. PR12345
Site Address Chapel Lane, Rode Heath, Stoke-on-Trent, ST 73SD
Account No. PRO01 Mix Description Cash Sale Invoice
Mix Code Mix 1 Cem. Type Veh. Reg. (None) Price 0.00
Order Vol. 30 M.L.L. Final Insp. V.A.T. 0.00
Load Vol. 2.5 Max W/C/R 1 Added Water Total 0.00
Cum. Tot. Max. Agg. 20
Time Ex Plant 15:50 Slump 0
Time on Site
Time off Site
Water added at Customer's Request Lt. Signature
Practicon Limited accepts no responsibility for the quality of this delivery once water has been added at the Customer's request.
Received goods stated Print Name
CAUTION: Ready Mix Concrete - Exposure to skin or eyes may cause irritation. Accidental splashes need rinsing thoroughly in clean water.
The vehicle may leave the hard road surface at your instructions and the driver's discretion providing you accept full responsibility for any damage caused.
Signature
This sale is made subject to Practicon Limited Conditions of Sale which are available on request.

Customer Data Handling

Optionally, in readymix operations, the system may handle customer data and print delivery dockets. It supports an Order Schedule that shows customers mix requirements and current progress in the form of concrete volume required and concrete volume already delivered or committed.

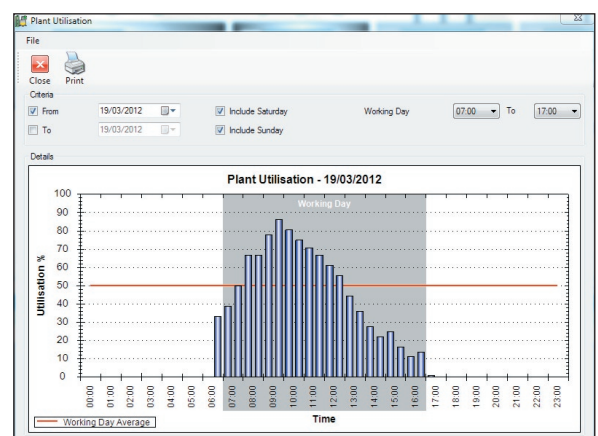
For more extensive facilities the C-PAK Office system can provide for production scheduling and invoice generation relating to one or more plants. It provides for handling Quotations, Load Schedule generation from a Computerised Shipping Sheet and automatic transfer to the plants. It also provides for invoice data generation for transfer to an invoicing computer, such as SAGE, or local direct printout.

Production Archive (Load Reports)

Production records are archived and optionally uploaded to a central computer system or C-PAK Office system for subsequent viewing or printout. Also they can be transferred to a portable memory for standard office PC access. These records include theoretical and actual batched material quantities, in particular loads and batches, identified by Docket Nos, time and date or customer data, if applicable. Stock levels are indicated from this data and recorded material deliveries.

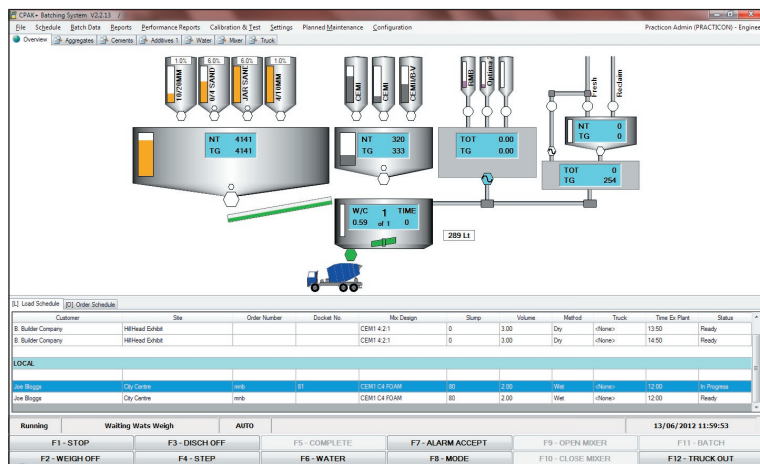
Plant Performance & Maintenance Monitoring

Management information in the form of plant utilisation and plant performance data is also archived and accessible in graphic forms.



Batching Screen

Fully annotated plant graphics keep the operator informed throughout the batching process. Function keys are used for plant control: Start and Stop Batching, Discharge etc.



The Load Schedule is shown below the graphics. Loads are entered via an Add New Load screen or by remote download.

If Customer Data Handling is configured loads can be selected from an Order Schedule.

Having selected a load the operator separately initiates batching, discharge and end of load.

Batch Calculations

When a load is sent for batching the system calculates the weights of materials required, in the case of aggregates and water, by taking aggregate moisture values into account. It then determines the number of equal sized batches needed to make up the load that fit within plant capacities i.e. weigher and plant mixer capacities.

Control Techniques

A number of techniques are used to maximise weighing and metering accuracy and plant throughput rate.

Self Adjustment

Separate large and small weight Inflight Constants and optionally, long and short Jog Times are used for each gate type weigh bin. These are all self adjusted parameters so that inaccuracies are self-correcting as batching proceeds.

Automatic Bin Swap

When a bin stops feeding during batching the system first vibrates the bin, if a vibrator is fitted, it then swaps to an alternative bin if one available and feeding has not restarted.

Next Batch

When a wet batch load comprises a number of batches, the next batch is weighed while the previous batch is in the plant mixer.

Next Load

The first batch from the next load may be weighed while the previous load is being slumped.

Truck Loading Rate

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

Washout Facility

Washout cleaning mixes specify stones, admixture and water for cleaning trucks at the end of the day. The system prompts for the added quantities to be deducted from each truck's next load.

Alarms

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

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

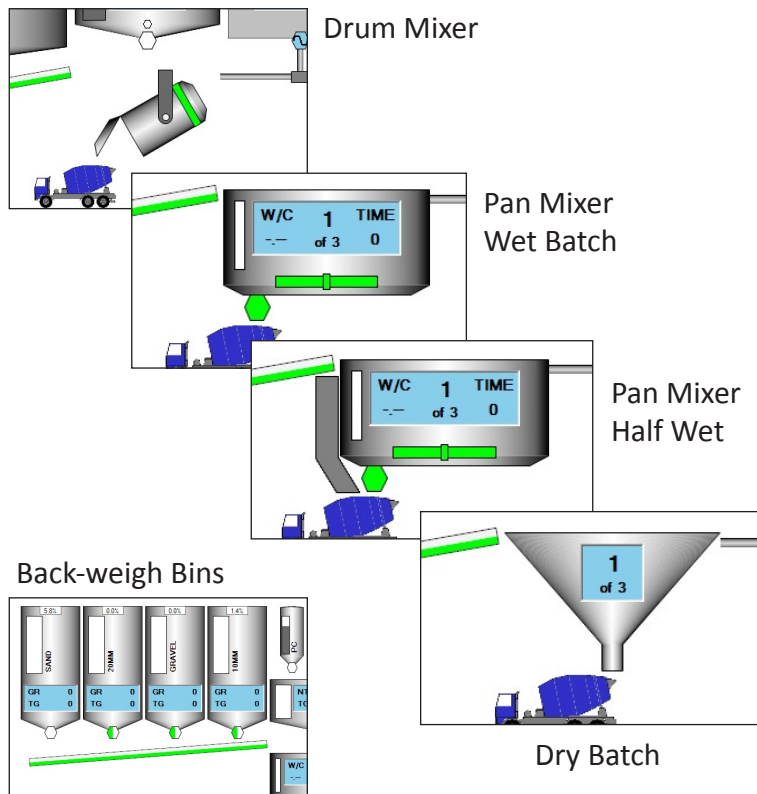
Security

System access is password protected at selectable levels. The system produces standby batching records as a means of detecting any unauthorised batching. These are only accessible to management.

Application

The system is configured to suit particular applications i.e. particular plants and methods of operation by setting Plant Configuration, System and Method data.

It runs on a standard PC fitted with non-volatile RAM memory and Practicon DeviceNet weigh control, flow control and input/output modules.



Turnkey Projects

For plants to be automated they must be fitted with limit switches to sense that gates are closed, suitable load cells to produce weight signals and flow meters to produce flow pulses. Complete installations may also require MCC panels, electro-pneumatic valves and/or moisture measurement probes.

Practicon and its appointed overseas distributors can provide complete turnkey projects to meet these common requirements and any special requirements.

Maintenance Services

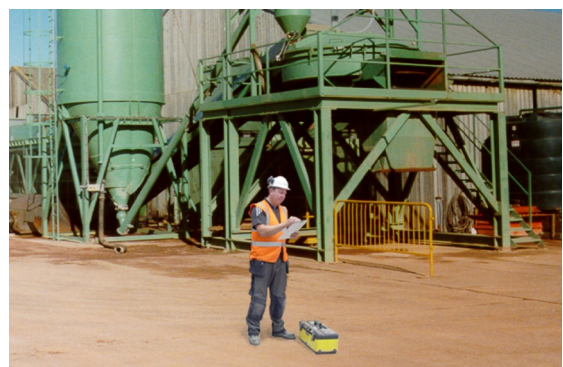
On-site maintenance services are provided by Practicon and its appointed overseas distributors.

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

Plant Types

The standard C-PAK+ controls the following plant configurations.

Aggregates	1 or 2 Hopper Weighers or 2 to 4 Backweigh Bins.
Aggs Lift	Conveyor, Conveyor with Holding Hopper or Hoist.
Cements	1 or 2 Hopper Weighers.
Additives	None, 1 or 2 Dispensers each either Weigher or Flowmeter.
Water	Weigh, Flowmeter or both.
Mixer	Drum, Pan Wet Batch, Pan Half Wet Batch or Dry Batch.



Supplied by:



Practicon Limited

Chapel Lane, Rode Heath, Stoke On Trent, ST7 3SD, UK
 Tel: +44 (0)1270 876211 Fax: +44(0)1270 878887
 Email: sales@practicon.co.uk Website: www.practicon.co.uk