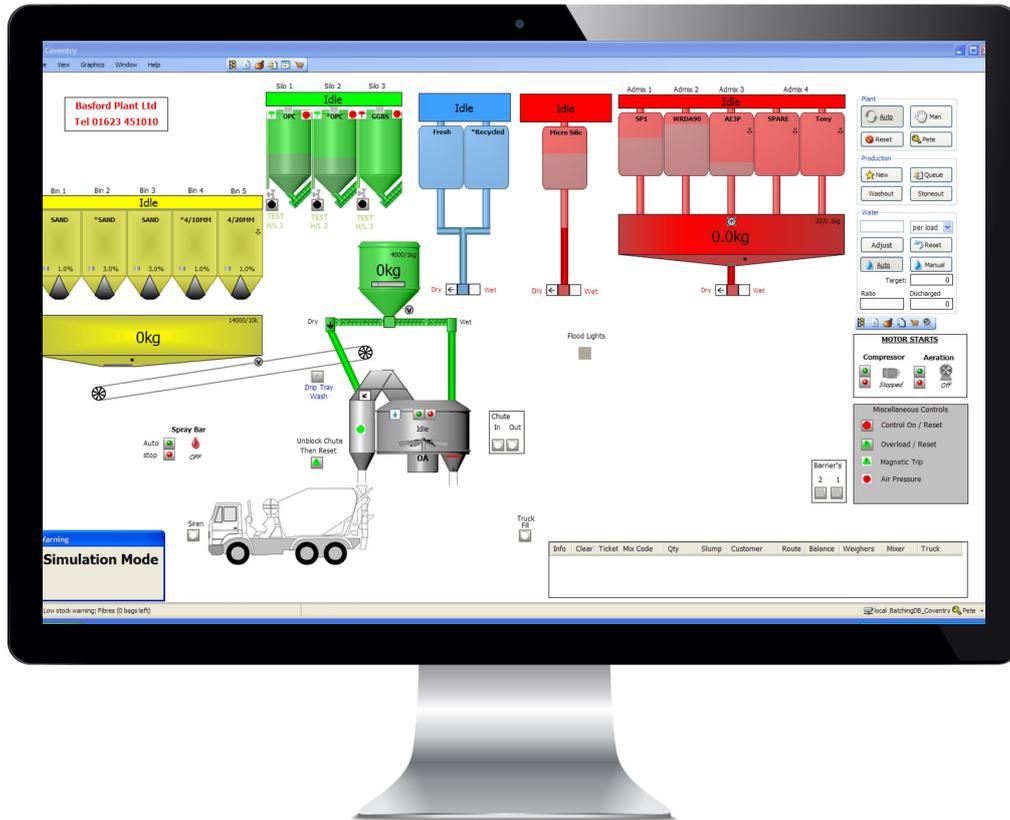


# Contech Batching Control System



- ✓ Fast, accurate batching
- ✓ Detailed reports
- ✓ Multi Level Security
- ✓ Remote Support

## Contact us

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Our Contech system is specifically developed for concrete batching plants for either Ready Mix, site mixing, precast and screed/mortar plants.

Our system will deliver optimum plant performance and is very simple to use - one of the key reasons that it's become so popular in the concrete industry.

The system has been developed with over 30 years experience in computerised concrete batching and is continuously being enhanced with additional features.

The system is powerful, flexible and user friendly. Plant operators will become confident in the use of our system within a short period of tuition due to the intuitive operator interface of the package - with all of the daily functions being at the operator's fingertips on the main display, and more in-depth settings being securely protected.

### Typical Operator Interface:



The system is can provide fully automatic weighing and mixing, with either manual or automatic discharge from the mixer.

At any point during the automatic cycle the system can be switched to manual for any intervention required and when returning to automatic will continue from where it left off.

The use of off the shelf components provides a cost efficient approach and ability to easily scale the system from a simple site plant to a high output city plant.

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- The system provides consistency and accurate batching, with a unique intuitive graphical plant interface and detailed management reports.
  - The intuitive operator interface creates easy control from a keyboard and mouse, with the operator simply pointing and clicking at the required item of plant to be controlled.
  - Multiple screens can be used when control of loading and recycled systems are required.
  - Data link to shipping systems to allow batch data to be received and actual batch results to be returned.
  - The system is easily scalable to any size/complexity of plant.
  - The system will allow for multiple secure graphical plant interfaces to be connected from any point that has an internet/ intranet connection. This feature will allow remote control, support, report viewing and allow the technical parameters to be adjusted remotely.
  - Reports can be displayed before printing if required and / or exported to most common formats such as Word, Excel, PDF.

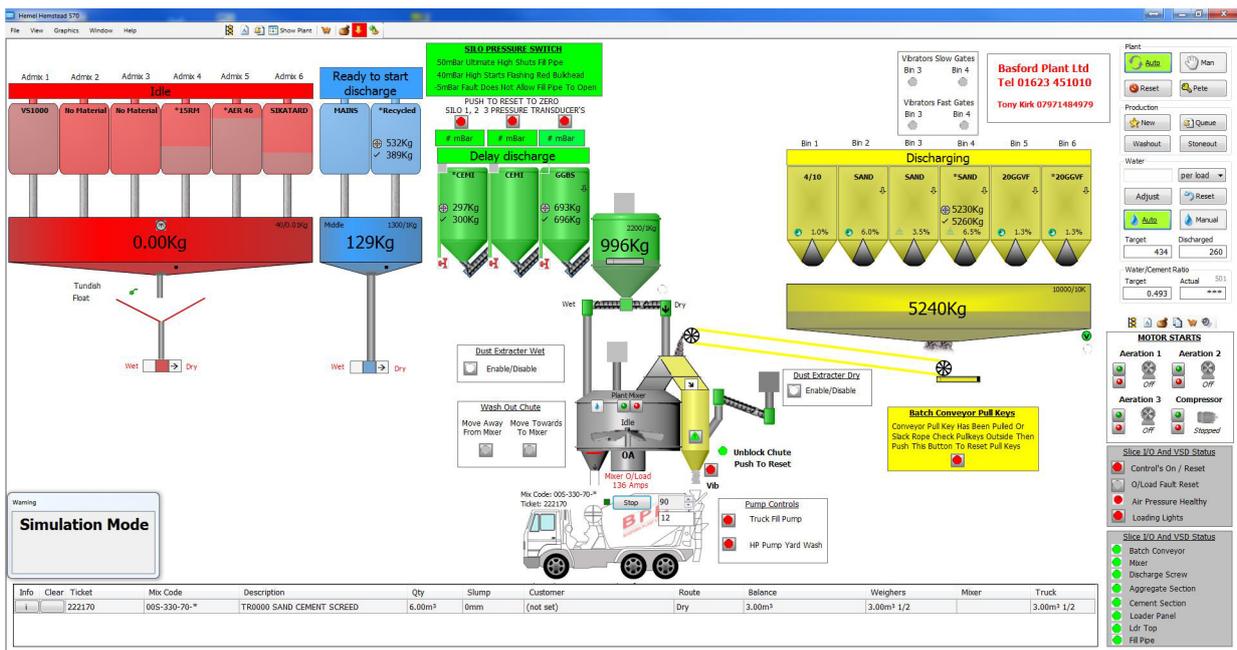
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The Contech Batching System allows your operator to control and monitor your concrete plant using just a keyboard and a mouse - boosting the efficiency of their time and allowing them to understand exactly how the plant is performing thanks to the powerful reporting features of the software package.

If you'd like to talk to us about our Contech system, call one of our advisors on **01623 451 010** and they'll be happy to help.

## Plant Mimic

The mimic shows a fully animated graphic mimic of the plant showing material passing through the plant. The mimic layout is easily changed to represent the physical and most intuitive layout of the plant. The layout shown below is of one of installation with many features added, for instance: silo protection and variable speed conveyors.

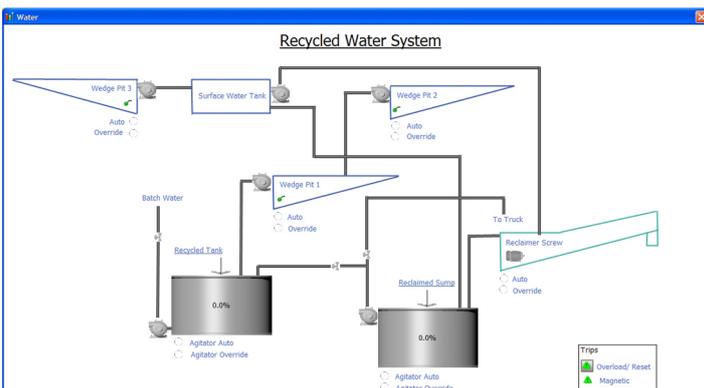


## Additional Mimics

Additional mimic of plants can be drawn to show animated real time graphical representations of various specific aspects. Below are examples.

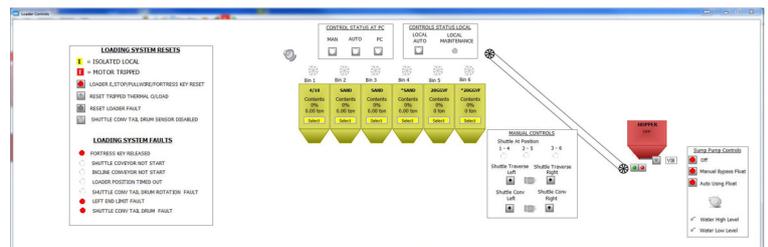
### Water Circuit Mimic

This shows the real time status of the various components of the water circuit. Control modes are also able to be changed.



### Aggregate Loader Mimic

This screen below shows a mimic of Aggregate Loading system with control.



## Reporting

All production data is stored in a database thus enabling reports to be generated and displayed, filtered as required.

Reports can be printed on demand or automatically as required.

Examples of reports are shown below.



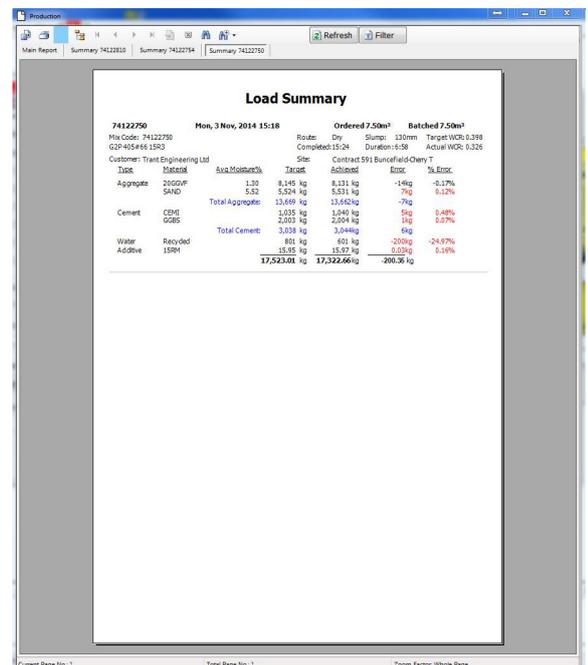
### Production Summary

This report gives you a summary of all the production over the requested time span. At the top of the report is a summary of batch totals and the time taken by the plant for that production.

The summary of each load is then shown with a line clearly separating each load. Details of ingredients can be shown either in summary or detailed format by clicking on the blue text to link to the respective report.

### Load Summary

This shows the summary of all the ingredients in the load with any outside tolerance errors highlighted in red.



The screenshot shows a software window titled 'Production' with a 'Load Details' report. The report includes the following data:

Batch 1		Started 15:18:02		Ordered 7.50m <sup>3</sup>		Batched 7.50m <sup>3</sup>	
Material	Moisture%	Target	Achieved	Error	Feeder	Amount	Time
20GGP	1.30	4.072kg	4.092 kg	20kg (0.50%)	Bin 6	4.092	15.00s Auto
SAND	5.40	2.759kg	2.763 kg	4kg (0.10%)	Bin 3	2.763	17.00s Auto
CEM	5.00	1.50 kg	1.51 kg	1kg (0.20%)	Silo 2	1.51	30.00s Auto
GGG	1.00kg	1.003 kg	1kg (0.10%)	Silo 3	1.003	25.00s Auto	
Recycled	600kg	601 kg	1kg (0.20%)	Recycle	303	24.00s Auto	
				Recycle	150	15.00s Auto	
				Recycle	148	14.00s Auto	
ISRM	15.85kg	15.87 kg	0.02kg (0.10%)	Feeder	7.53	33.00s Auto	
				Feeder	4.07	14.00s Auto	
				Feeder	3.97	14.00s Auto	

Batch 2		Started 15:21:00		Ordered 7.50m <sup>3</sup>		Batched 7.50m <sup>3</sup>	
Material	Moisture%	Target	Achieved	Error	Feeder	Amount	Time
20GGP	1.30	4.052kg	4.039 kg	-13kg (-0.20%)	Bin 6	4.039	18.00s Auto
SAND	5.40	2.716kg	2.718 kg	2kg (0.20%)	Bin 3	2.718	17.00s Auto
CEM	5.00	1.51 kg	1.52 kg	1kg (0.20%)	Silo 2	1.52	31.00s Auto
GGG	1.00kg	1.001 kg	1kg (0.20%)	Silo 3	1.001	22.00s Auto	

### Load Details

This shows the following details of all the materials in the load on a batch by batch basis including Name, Moisture (if aggregate), Target, Achieved, Error in calibrated units and as a percentage of target, the name of the feeder that dispensed the material, how the material was dispensed e.g. Auto, Manual the amount of material dispensed and the time taken to dispense the material.

## Additional Features



### ULink Interface

This standard feature allows customers who have their own enterprise business system such as SAP used for order processing, shipping, etc to connect our system to received loads including recipes. These loads are then produced and actual batched weights are then sent back to the enterprise business system for analysis, reporting and storage. The interface uses either RS232 or Ethernet standards for connectivity.



### Scheduled Reports Emailed

This standard feature allows customers to schedule the sending of reports by email. Single or multiple reports can be time scheduled to be generated and sent to single or multiple email accounts.



### Microwave Moisture Probe

This standard optional feature allows microwave moisture probes for aggregate moisture measurement to be connected to the system and easily calibrated through our single or multi point calibration procedure.



### Despatch Ticket Printing

This optional feature adds a printer to the system for printing of Despatch Tickets. The design of these can be bespoke or we have a range of standard layouts to choose from. The tickets can be printed on plain paper or pre-printed - carbon loaded triplicate paper can also be used.

## Shipping System

This optional feature allows orders to be placed and scheduled. The orders can be for single or multiple loads.

The status of each order can then be clearly seen, with the display of Ordered, Completed and Remaining load quantities. A report can then be generated for manual transfer to a financial package for invoicing or an invoice can be printed directly.

Below is a screen grab of the shipping screen.

Time Req	Date	Status	Customer	Site	Customer Collects	Recipe	Ordered (165.1)	Completed (167)	Remaining (19.2)
16/02/2015 07:30		Cancelled	...	...	<input checked="" type="checkbox"/>	G156	0.1	0	0.1
16/02/2015 09:00		Cancelled	...	...	<input type="checkbox"/>	G184F	7.5	0	7.5
16/02/2015 11:30		Cancelled	...	...	<input type="checkbox"/>	G249A	3	0	3
16/02/2015 13:00		Cancelled	...	...	<input type="checkbox"/>	G139F	6	0	6
16/02/2015 06:45		Completed	...	...	<input type="checkbox"/>	G240	4	4	0
16/02/2015 06:52		Completed	...	...	<input type="checkbox"/>	G240	7.5	7.5	0
16/02/2015 07:26		Completed	...	...	<input type="checkbox"/>	G247	8	8	0
16/02/2015 08:52		Completed	...	...	<input type="checkbox"/>	G245	5.5	5.5	0
16/02/2015 09:43		Completed	...	...	<input type="checkbox"/>	G184	7.5	7.5	0
16/02/2015 09:51		Completed	...	...	<input type="checkbox"/>	G240	6	6	0
16/02/2015 10:30		Completed	...	...	<input type="checkbox"/>	G242	6	6	0
16/02/2015 11:31		Completed	...	...	<input type="checkbox"/>	G237	30	36	-6
16/02/2015 11:55		Completed	...	...	<input type="checkbox"/>	G249A	2.5	2.5	0
16/02/2015 12:01		Completed	...	...	<input type="checkbox"/>	G245	7.5	7.5	0
16/02/2015 14:08		Completed	...	...	<input type="checkbox"/>	G403	15	15	0
16/02/2015 14:29		Completed	...	...	<input type="checkbox"/>	G247	18	24	-6
16/02/2015 15:04		Completed	...	...	<input type="checkbox"/>	G246	12	19	-7
16/02/2015 15:11		Completed	...	...	<input type="checkbox"/>	G244	12	9.5	2.5
16/02/2015 15:15		Completed	...	...	<input type="checkbox"/>	G236F	9	9	0

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