

CBS 20

GENERAL PURPOSE AUTOMATIC BATCHING SYSTEM

The CBS 20 is a general purpose, low-cost automatic batching system, with the facility to control up to 24 ingredients using up to 3 weigh hoppers and 4 flow meters. The system provides up to 200 recipes and any quantity can be batched.



- **Simple operation**
- **Rugged design for harsh environments**
- **Automatic control of weighing and discharge**
- **Automatic in-flight compensation**
- **Automatic dispensing through flow meters**
- **Detailed printout of each batch**
- **Simple adjustment liquid content and mix time**
- **Recording of manual adjustment and amounts of each material used**
- **Pre-selection of next load**
- **Automatic optimisation of batch size**

The keyboard and screen makes operation extremely simple.

Automatic in-flight compensation ensures accurate weighing and dispensing. The overshoot caused by the material that is "in flight" and delays in doors closing etc. is automatically compensated for. Two-speed feeds and "jogs" can be selected to cater for difficult materials.

A downstream mixer can be controlled with pre-set mixer times, and automatic discharge. Materials can be ribbon fed to the mixer to assist the mixing process.

Automatic compensation for the moisture content of the materials fed to the weigh hoppers is provided. Control of the moisture content of batch in the mixer can be provided.

"Bin skipping" is provided where if a bin runs out of material and that material is also in another bin then the new bin will be used.

A printout can be provided for each batch showing time and date, target and actual ingredients, recipe number, quantity, and batch number.

Optionally, a delivery docket can be printed on a second printer. A database for 100 customers / sites is provided. The total amount of each material batched automatically is recorded. Each batch can be recorded against one of ninety job numbers.

Bolton Electronics Ltd has been producing weighing systems since 1982 and has a wealth of experience in various industries. We have electronics suitable for the very simple to the most sophisticated applications.

Concrete plant control

The CBS 20 is ideally suited to the control of block-making and ready-mix concrete batching plants.

Control can be provided for aggregate skip hoists and holding hoppers, dual door mixers, wet / dry leg control.

Automatic moisture compensation can be provided using bin probes, or probes in the mixer.

Specification

The system consists of a single board computer which is all solid-state with no moving parts. This provides a reliable system. A standard monochrome terminal screen and keyboard are used.

24 inputs and 24 outputs at 24 volts dc.

2 load cell interfaces are provided, each capable of supplying 4 * 330 ohm load cells. The system has a 1 micro-volt resolution and is digitally calibrated. Analog and digital filters are provided to ensure accurate control.

4 flowmeter inputs are provided.

An interface is provided for 8 off 4 digit LED displays.

The system can be supplied as a kit of parts, in a wall mounting box, or in a desk.



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