

# Concrete Made Simple™

Complete batching control system for concrete plants



Upgrade your system!  
 New batch plant

Complete batch plant control  
 Quick to launch & easy to operate

Cost efficient

Dedicated implementation & support

## Automates concrete batch plants

Up to four cements, four aggregates, four admixes, water, and other mixer additives.

## Auto control for fast and accurate production of any concrete mix

Precast, SCC, dry mix block/paver, central ready mix, dry charge ready mix, bagging.

## Excellent moisture control

System provides aggregate moisture compensation and accurate water/cement ratio utilizing optional Hydronix bin and mixer moisture probes.

## Flexible charge and mix sequence

Optimizes equipment for fast and quality mixing.

## On-the-shelf control panel

Ships to the site ready to connect to and run the batch plant.

## All required connections provided

All connections to batch plant control devices (valves, motor starters, limit/prox switches, moisture probes, scale load cells, mixer motor ammeter, etc) are provided with detailed schematics for installation, maintenance, and troubleshooting.

## Self-service enabled

Allows direct purchase of control components with easy software reload.

## Built-in remote access

Connection to plant network enables secure and fast remote access and support.



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**Proud partner for fabrication, implementation, and long-term support**





## Quality and easily replaceable control components

Do-More PLC, C-More headless HMI (human machine interface), StrideLinx remote access router, Automation Direct control components.

## Relay buffered PLC outputs

Set up for 120 VAC or 24 VDC and PLC inputs (AC or DC).

## Up to eight embedded weight indicators

Included for connection to load cell summing boxes with configuration, calibration, and monitoring of each through the PLC and HMI.

## Complete interface to optional Hydronix moisture probes

Mixer probe and four bin probes including analog moisture and temperature signal inputs to the PLC and a serial server connection to the probe RS-485 network for probe monitoring, configuration, and calibration using the [Hydronix HydroCom software](#) on a remote or local network PC/laptop.

## Optional system add-ons as required

- Cardinal 201 weight indicators where NTEP devices are required.
- Hardwired manual control interface of pushbuttons, switches, lamps, and meters for emergency or backup operation.
- Integration of color machines or other ingredient dispensers into the batching process.
- Auto/manual control of concrete handling equipment downstream of the mixer.

## Equipment arrangement

System operation automatically adjusts to the current equipment arrangement configured for the plant.

## Up to 50 mix designs

Each with all available materials set up by customer. Automatic calculation of mix design w/c ratio, unit weight, and unit volume as material amounts are edited. Automatic scaling of materials up or down when a mix design and its size in cubic yards are selected at batch time.

## Operation of cement augers and aggregate gates

On-off batch and variable jog routine for fast and accurate weigh-ups.

## Operator accessible system configuration

Including free fall weights, jog times, +/- tolerances for each material, etc.

## Alarms

Warn the operator of any condition that affects accuracy or production such as bridged or empty bin, scale failure, failure of scale gate to close, E-stop shutdown, etc.

## Automatic saving of batch tickets

View/print from a network PC.

## Help screens

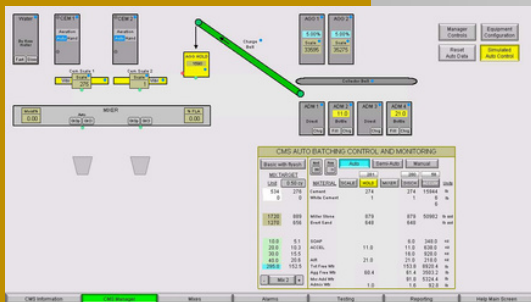
To understand and operate the batch plant controls.

## Testing screen

Monitor and operate PLC I/O for startup, troubleshooting, and maintenance.

## Operator interface

Compatible with an external, replaceable PC monitor of any size and a serial mouse located at the control panel or on nearby desktop. Dynamic graphics and tables displaying batch status for easy configuration, operation, and monitoring of plant.



To learn more, contact

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