Command Alkon

Ready-Mixed Concrete
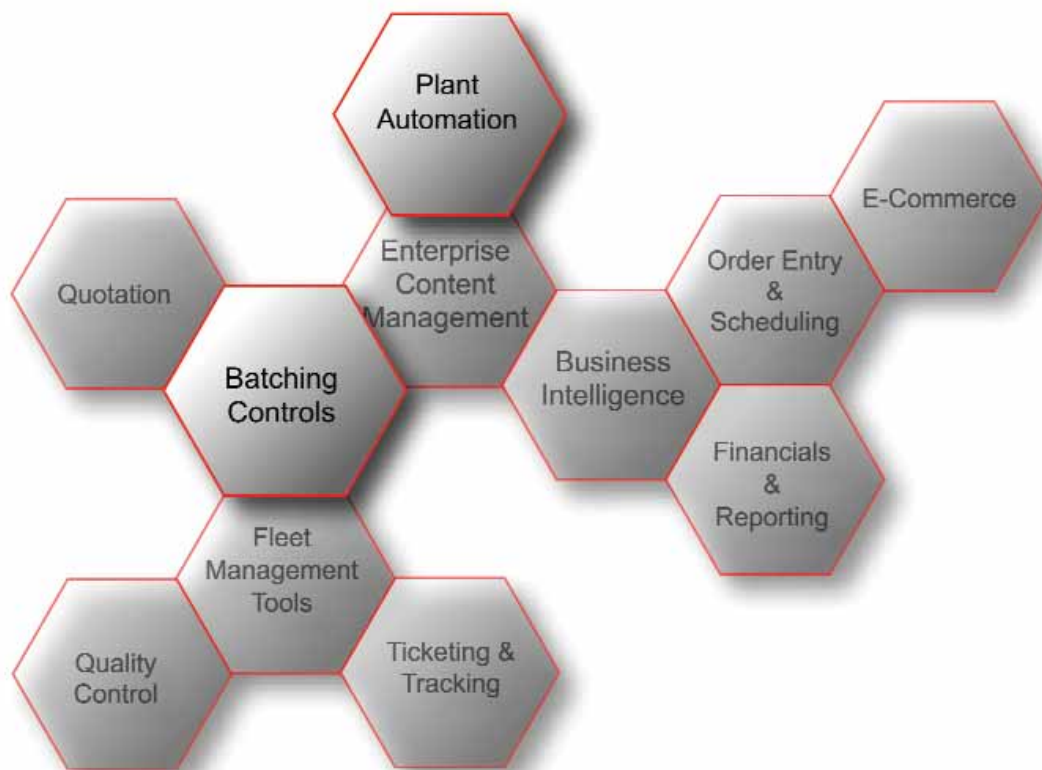Plant Automation

4

Ready-Mixed Concrete Plant Automation

Command Alkon is proud to provide quality batch control systems and plant automation products that lead the industry in innovation and reliability.

COMMANDbatch
Plant Watcher
Command Alkon Moisture Probe
Automatic Bin Fill System

COMMANDbatch is one component of an integrated suite of enterprise ready products offered by Command Alkon. Our goal is to enable the enterprise wide integration of systems to reduce or eliminate information and reporting gaps, render "double entry" of unnecessary information, aim for completely paperless transactions, and capture all billing and production data automatically. We do this all the while ensuring that key personnel are always up-to-date on the company's operation.

SOLUTIONS
TO BUILD ON

Command Alkon batch control systems and plant automation products are recognized worldwide for helping producers improve their operational efficiency, quality and profitability.

- 3,000+ COMMANDbatch systems in operation around the world.
- 10,000+ Command Alkon Moisture Probes in use at ready-mixed plants worldwide.
- 200+ Automatic Bin Fill Systems in use at plants around the world.

www.commandalkon.com

COMMANDbatch

is the industry leading plant automation solution. COMMANDbatch delivers superb plant performance while being very simple to use.

Select tickets and fine-tune batches before they are started. Prepare the next load and change settings on-the-fly, all from the same screen. Standard reports are included so you can monitor inventory, material usage, and general lists of orders, tickets, and mix designs. Reports can be created and customized to fit your specific business needs.

Animated graphics show plant equipment weighing up and delivering material to the truck or mixer in real-time.

COMMANDbatch makes concrete production easier and saves your company money.

COMMANDbatch

"COMMANDbatch is accurate, reliable and easy-to-use. There's lots of information that can be determined at a glance. Our batch personnel can adjust mixes and materials on-the-fly and they know immediately when something is out of tolerance. With COMMANDbatch there's no more guesswork."

Billy Carroll
imi-Tennessee

Features

Automatic Plant Control:
- 4-6 Aggregates, 3 Cements, 2 Waters (metered), 8 Admixes (metered) - (model RM200)
- Additional Material and Scale Controls**
- Multi-batch and Freewheel Batching Control
- Truck Charge Rate Adjustable On-The-Fly
- High Speed Weigh-Up Algorithm for Fast Plant Performance
- Automatic Scale Tolerance Checking
- Automatic Bin Switching
- Automatic Bin/Silo Vibrator Control
- Scale Rate of Discharge
- Scale Flow Control Dampening
- Continuous Batching / Continuous Discharge
- Communication with PLC Devices to Extend Reach of The System
- Central Mix Control**
- Temperature Gun/Probe Interface**
- Density Meter Interface**
- State Certification Package (NY, CA, NJ, MN)**
- Other Optional Automatic Plant Controls Including: Blower, Plant Dust Collector, Silo Shaker, Spray Bar, Conveyor Controls, Mixer Controls, Telescopic Boot, Recirculating Screw, Live Bottom Batcher, Dual Aggregate Discharge Gates, Bin Lamps, and Switches**

Remote Batch:
- Soft Manual Station (SMS)
- Remote Batching and Mix Design Changes**
- Second Client Access**

Operator Controls:
- Audible Notification Alerts
- On-Hand Inventory Available At A Glance
- Low Inventory Notification to Prevent Load Start
- Discharge, Weigh-Up, and Sequence Diagnostics
- Training Mode, Online Help, Operator Manuals
- 17" or 19"** Flat Screen Monitor(s)
- Dust Proof Enclosure**

Plant Interlocks:
- Over/Under Tolerance Interlocks
- Scale Zero and Bottle Empty Interlocks
- Admix Pulse (Dual) Meter Crosscheck
- Scale Motion Detection

Mix Design Control:
- Mix Design Management
- Admix Designs (Mix Modifiers)
- Slump Tables
- Allowable Water Feature
- Slurry Compensation**

Recordation:
- Batch Weights Printing
- Manual Material Monitor Report
- Bar Code Printing**
- Dot Matrix Printer, Laser Report Printer**

Quality Control:
- Material Blending Sequence by Mix Type
- Remote Access for Plant Monitoring and Tune Up
- Plant Performance Graphs
- Plant Watcher Automatic Notification System**
- Moisture Probe Support**
- Auto Consistence Slump Control**

Order Management:
- Order Entry**
- Third Party Dispatch one-way Interface**
- COMMANDconcrete two-way Interface**

Plant Management:
- Truck Callboard Interface**

Administration & Integration:
- User Permissions for Configuration/Editing
- Recordation/Logs of Changes
- Auto Archive, Auto Purge, and Auto Backup
- Ticket and Material Records Export Utilities
- Microsoft Vista, XP, SQL Server compatible
- Enterprise Content Management Option for Electronic Access to Tickets/Batchweight Files**
- Custom Format Ticket File Export**
- Multi-Plant Support**
- Multi-Company Support**
- QuickBooks Interface**

Maintenance:
- Remote Diagnostics and Troubleshooting
- COMMANDassist Automated Remote Assistant
- Maintenance Scheduling Feature
- Expendable Parts Kit and Plant Wiring Diagrams
- One Year Batch System and Software Priority One Support
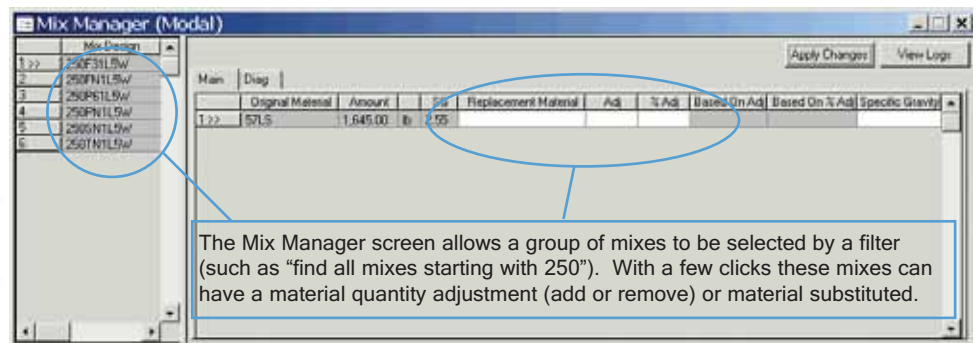
**Denotes Optional Feature

COMMANDbatch
Remote Batching & Remote Client

Do you have a remote plant that doesn't do the business of your high volume plants? With Remote Batching lower volume plants can be operated safely, reliably, and cost-effectively from a different location anytime. When a driver pulls through, the remote batcher can load the truck, then shut the plant back down. Soft Manual Station (SMS) controls allow operation of bins and hoppers, and manual controls such as air compressor, boot up/down, washout water, etc. from the remote location.
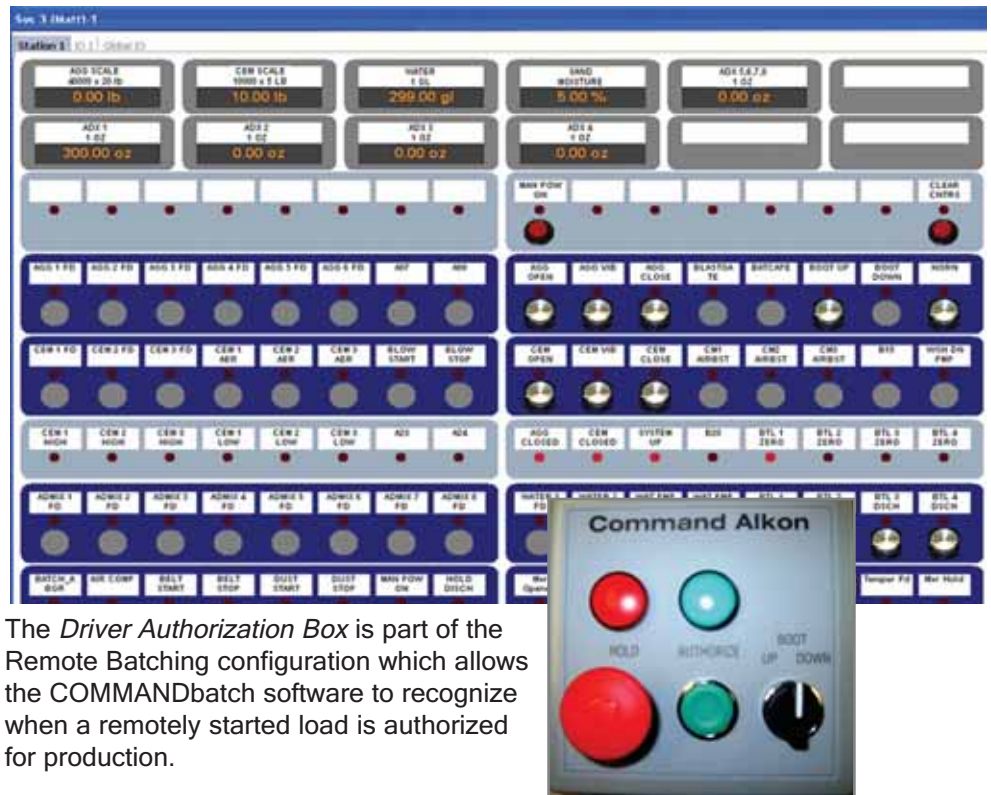
The *Driver Authorization Box* is part of the Remote Batching configuration which allows the COMMANDbatch software to recognize when a remotely started load is authorized for production.

Remote Client allows up to three additional concurrent remote users to access the information contained in the COMMANDbatch database. This means that plant monitoring, tune up, mix design management, diagnostics, and troubleshooting are possible anywhere, anytime! Remote Client users can perform tasks without interfering with normal operation of the batching system. Data records can be created, updated or deleted for customers, mixes, other products, pricing, orders, etc. Plant automation can be modified including bin tuning, discharge tuning, and device sequencing/material blending. Troubleshooting of issues can occur using built-in tools such as *Weigh-Up* or *Discharge Diagnostics*, *Sequence Tracer*, *Custom Equation Monitor*, or *Ticket Format Helper*. Most reports can be previewed or printed remotely. And with the addition of remote batching hardware and software, these additional clients can perform Remote Batching. With the Remote Client and Mix Manager features used together, Quality Control personnel can update mix designs remotely and distribute them enterprise wide with the click of the mouse.

The Mix Manager screen allows a group of mixes to be selected by a filter (such as "find all mixes starting with 250"). With a few clicks these mixes can have a material quantity adjustment (add or remove) or material substituted.

COMMANDbatch
COMMANDassist

connects you directly with the friendly and knowledgeable service professionals at Command Alkon in just a click of the mouse.

COMMANDassist provides secure transmission of information to and from a Command Alkon service technician via a Virtual Private Network (VPN) connection made through the Internet.

COMMANDassist allows you to receive technical support via your existing high-speed Internet connection using our secure VPN support network. Once connected, users have the ability to create new support requests, modify existing support requests, and preview pending support requests. The included chat functionality allows you to communicate with our Command Alkon support personnel while continuing production and without tying up the production facility phone lines.

Using COMMANDassist, a service technician can troubleshoot batching issues without interrupting your plant's batching operations, answer questions on specific topics, manually download and assist with the installation of software updates, and modify plant automation.

Solutions to build on.
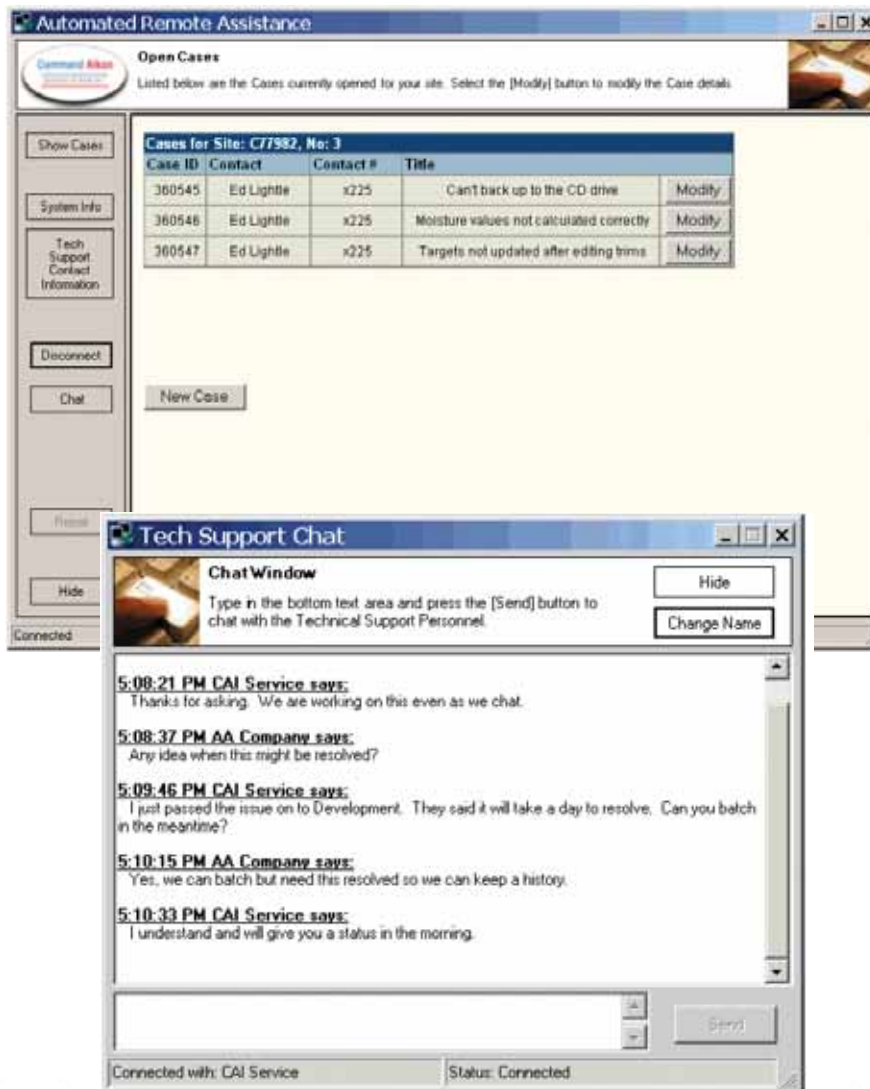
Benefits of COMMANDassist

- 128-bit encrypted data transmission using Public Key Infrastructure
- Point-to-Point connectivity only when requested
- Command Alkon only has access when you initiate a support request
- Command Alkon can only access the machine requesting support
- No need to provide Command Alkon with full access to your company network
- Only one firewall modification required
- All data travels outbound on port 1194 (Open VPN)
- No need for dial-up modem or dedicated analog phone line
- Uses your existing high-speed network connection

# Quality You Can Count On

As a producer, you know the best place to achieve predictable and consistent quality concrete is at the plant. Meeting the requirements for high performance concrete with the minimum amount of cost depends not only on the availability of the best raw materials but also on how these materials are introduced during the mixing process. COMMANDbatch provides tools unmatched by competitive systems to ensure that the proper mix constituents are specified and then combined in a manner to yield the maximum results.
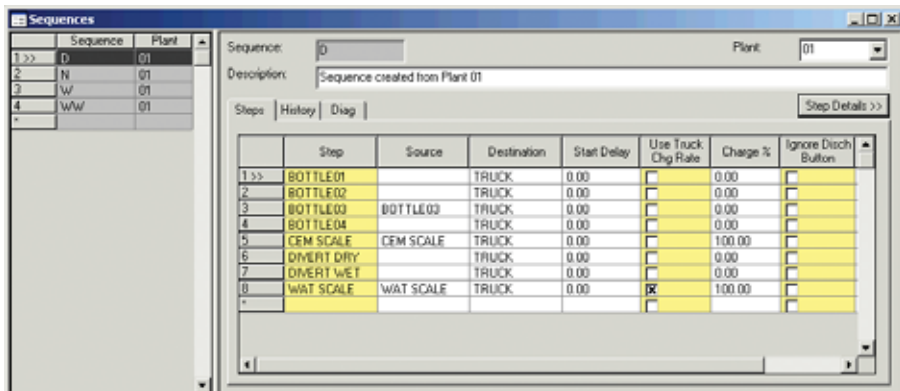
Material Sequencing ensures consistent, reliable, and predictable concrete homogeneity load after load. Each class of mix (grout, low slump, flowable, etc.) can have a unique, specialized blending sequence to ensure the ingredients are added at the precise time and at the precise rate. Different sequences can be specified when charging a truck or a mixer.
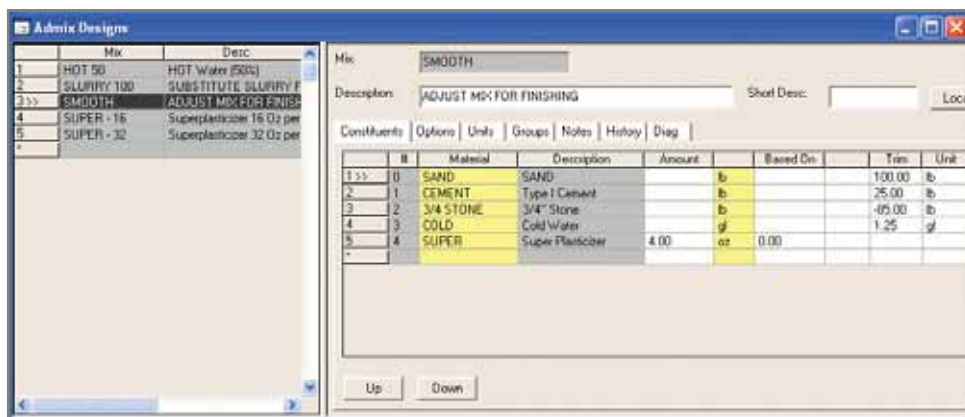
Substantially reduce the number of mix designs while reducing potential errors using Admix Design (modifier mix) capabilities. A small number of "base" mixes can be customized on a per order basis using these modifier mixes. When the order is selected for batching, the mix will automatically be customized based upon the order. This provides for a wide variety of mix combinations without having to create a special mix for a customer. Adding hot water, calcium, or making the mix a bit easier to finish for that certain customer is no longer something that the operator has to remember. Since the mix modification is defined by the order, the concrete mix will be correct no matter how many plants are used to fulfill the order.

"The Admix Design feature on COMMANDbatch allows us to downsize the number of mix designs and ensures that any changes made on-the-fly are billed accordingly. Admix Design allows us to limit the handling of changes made, resulting in fewer mistakes. Accounting is simplified and accuracy of inventory control is much better."

John Miller
Tarmac/Titan America

Plant Watcher Notification System

gives you visibility into all of your plant operations via e-mail. Receive real-time Event Notifications for out of tolerance situations, mix design changes and material changes.

Schedule production, efficiency, and inventory reports to be automatically collected and e-mailed at the same time every day, freeing the operator from having to manually print and fax this information.

The system uses Profiles, created for each batch plant to be monitored, to store information about Sites, Events, E-mail Recipients, and Plant Performance Data. When an event occurs at a monitored plant that satisfies the criteria defined in a Profile, an e-mail alert describing the event is dispatched to all defined recipients. E-mail alerts are delivered only once to each requester and delivery is guaranteed in the event of network or other outages once the network is restored.

The system is comprised of the Plant Watcher Server and the Plant Watcher Configuration Utility. The Plant Watcher Server houses the Plant Watcher database, monitors events at designated plants, and sends e-mail alerts to the designated recipients. A Diagnostics Console is used for configuring and troubleshooting the server. The Plant Watcher Configuration Utility can run on any workstation. It allows the system to be configured for SMTP server identification and authentication, and Site, Profile, Recipient, and e-mail Setups, from a remote location.
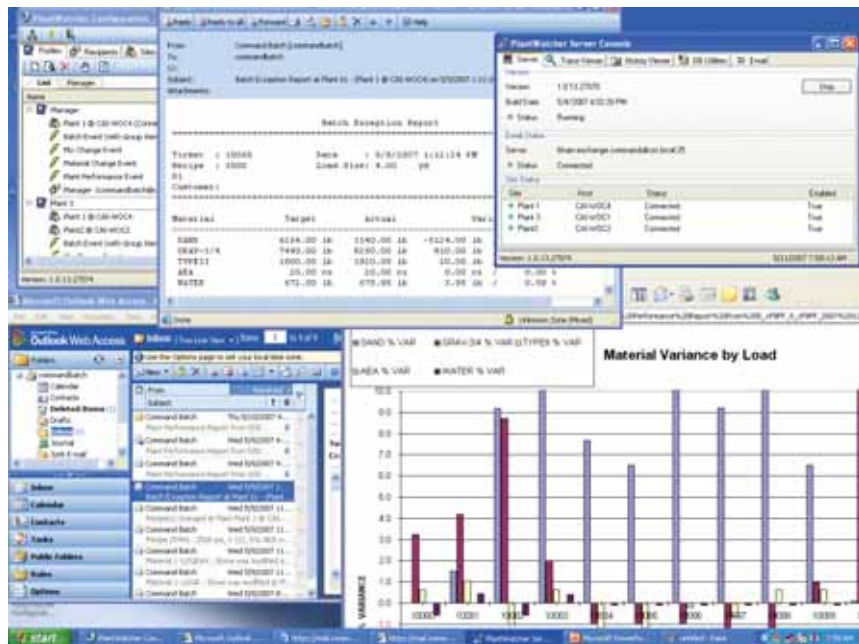
"Our organization depends on Plant Watcher to help us manage and protect our business. We thought for sure we knew how our plants were running, but the information provided by Plant Watcher highlighted new opportunities for efficiency and cost savings. The real-time notification by Plant Watcher of an out of specification load for a critical pour alerts our QC department, day or night, to step in and prevent that load from being placed! For companies who wish to be proactive about Quality Control, Plant Watcher is a meaningful and cost effective addition."

Steve Wagener
Kuhlman Corporation

Benefits of Plant Watcher Notification System

- Plant 'Dashboard' provides near real-time view of plant activities
- Automatic notification of "out of tolerance" protects against out-of-specification loads from reaching the job site
- Guaranteed delivery via e-mail ensures notification after a network or other outage once the network is restored
- Plant profiles assure notification of the right individual for the right event
- Automatic delivery of key production, inventory, efficiency, and other reports keeps you informed about your business while allowing the plant operator to focus on production and quality
- Instant notification of mix design changes or material substitutions by any plant allows interception of a bad or incorrect load before it leaves the plant

The Command Alkon
Moisture Probe

allows you to measure the moisture content of your fine aggregates as they flow into a batch.

The Command Alkon Moisture Probe has been proven to measurably increase product quality and finish, reduce overall batching times and material waste, resulting in increased customer satisfaction and profitability.

Our moisture probe is unique in that it can continuously adjust the load water as the material flows over the probe, a method that ensures consistent slump predictability in high specification concrete and concrete product manufacturing. You will always know your moisture value because this probe is consistently accurate to within ±0.3%. The probe achieves this consistency through innovative self-adjusting circuitry that detects and corrects changes caused by time and temperature.

The probe is housed in a one-piece stainless steel casing with increased steel thickness in the heaviest wear areas. Mounted directly above the feed gate, the specially designed probe collar makes it unnecessary to drain the bin, and the simple design eliminates any need to fabricate complicated mounting brackets or pipe assemblies. The smaller ceramic faceplate further reduces vulnerability from accidental impact damage.

The probe can be installed and calibrated to the material in a matter of hours. Since every probe is electronically tuned at the factory to ensure identical measurement characteristics, you can then swap out a probe in the future without recalibration. A "one-knob" adjustment based on the results of a simple bake-out procedure has the probe ready to provide accurate moisture measurement, batch, after batch, after batch.

Thousands of truckloads attest to the fact that the Command Alkon Moisture Probe can virtually eliminate "load doctoring" by delivering accurate and consistent slumps every time.
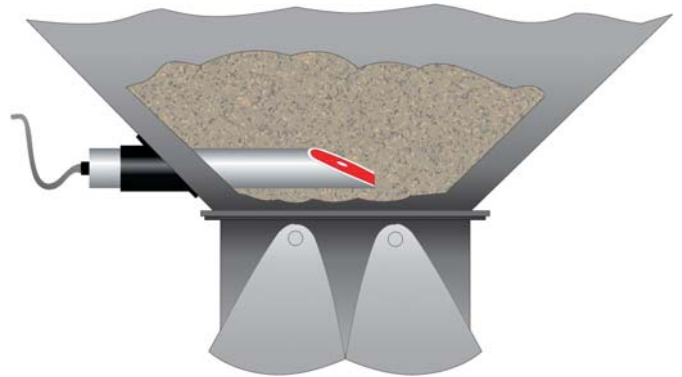
Specifications

- **Size:** 75 mm (3") dia. x 60 cm (23.25") long
- **Weight:** 7.25 kg (16 lbs.)
- **Body Material:** Stainless steel
- **Face Material:** High strength ceramic
- **Measurement Range**: Depends on material composition
- **Operating Temperature:** 2° - 49° C (35° - 120° F)
- **Typical Accuracy:** +/- 0.3%
- **Connection**: 6-pin type PT06 waterproof connector
- **Cable:** 6 conductor, 24 gauge, shielded

"Command Alkon's Moisture Probe is a proven performer. The probe is easy to install, easy to calibrate, and most importantly, provides reliable moisture measurements without further calibration load after load."

Cliff Morgan
Potomac Construction Industries

Command Alkon
COMMANDcallboard

is designed to expedite traffic flow around the batch plant.

Using information sent from either COMMANDseries or entered directly into COMMANDbatch by the operator, the COMMANDcallboard automatically displays individual truck numbers, lane selection, delivery instructions, and/or other information to assist the driver in loading. When no trucks are being loaded, scrolling messages such as "Number of days since last accident: 161", or "Be sure to empty your drum before loading" can be displayed.

The Callboard includes 7-inch, red, alphanumeric characters utilizing ultra-bright LED technology to provide ease of readability in all lighting conditions, including direct sunlight. The board is encased in a weather-resistant enclosure and is designed for wide-angle viewing.

Data is transmitted to the board via Wireless RF from the system. The robust protocol utilizes frequency hopping, data encryption, and verified delivery. The typical range is 1,000 feet line of sight.

Installation is simple. The only requirements are mounting the enclosure and supplying AC voltage.

Hardware Specifications
Power: 85-264 VAC, 50 or 60 Hz, 200 watts maximum (1.7 amps at 120 VAC)
Enclosure: 32″ H x 26″ W x 10″ D
Weight: 55 lbs
Display: 27″ H x 21″ W, three rows display 3-4 characters each
Wireless RF Unit: 2-1/4″ H x 6 1/2″ W x 7″ D
RS-232 Cable: 15′
Power Cord: 4-1/2′
**RF Link:** 915 Mhz, ISM band, license free

Benefits of COMMANDcallboard
- Reduces lost in-yard time
- Helps to eliminate unnecessary truck traffic around the plant
- Truck drivers do not need to leave their trucks
- Truck drivers can now keep themselves in proper order
- Cuts down on radio traffic
- Automatically send messages to driver including:
  - Delivery Instructions
  - Lane Selection
  - Extra Product Information
  - Special Loading Instructions
- Scrolling information messages serve as reminders
- Wireless connection for ease of installation

"The truck callboards have improved our fleet efficiency at the plants. They have also significantly reduced radio traffic related to truck staging. The callboards have been a worthwhile investment."

Barb Bailey
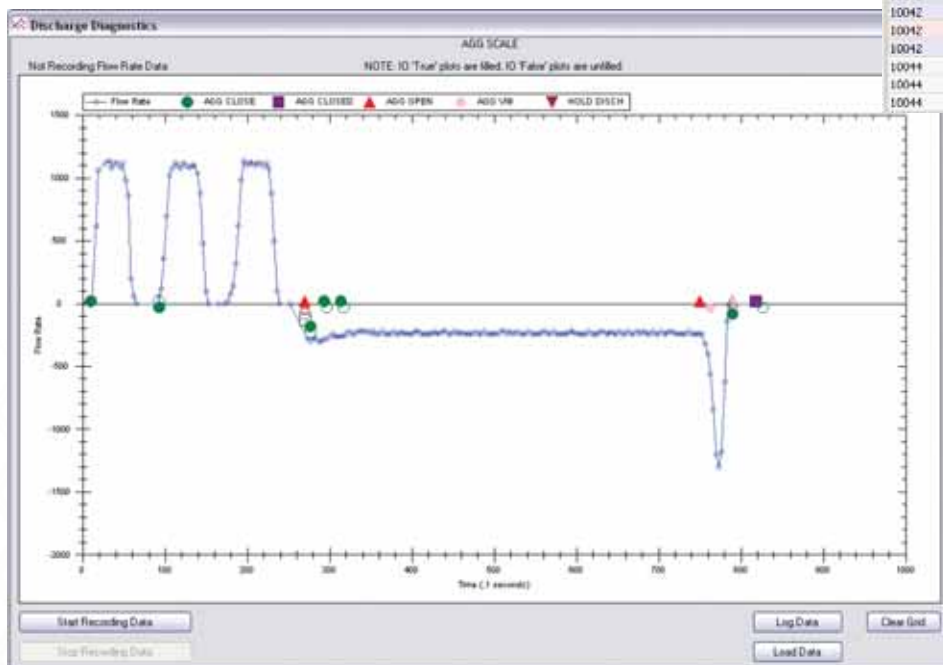**Central Pre-Mix Concrete Co.**

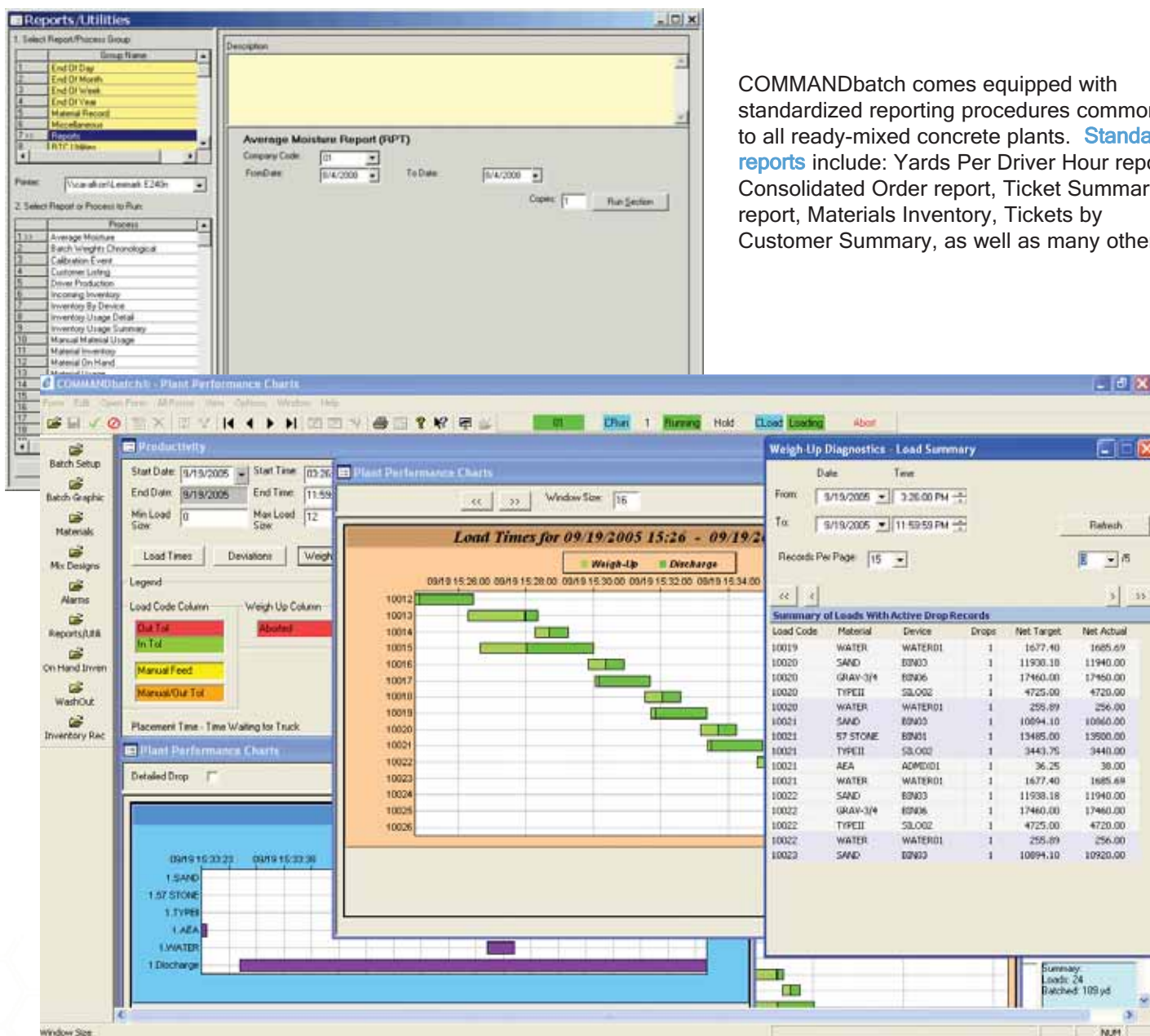**www.commandalkon.com**

COMMANDbatch
Productivity & Performance
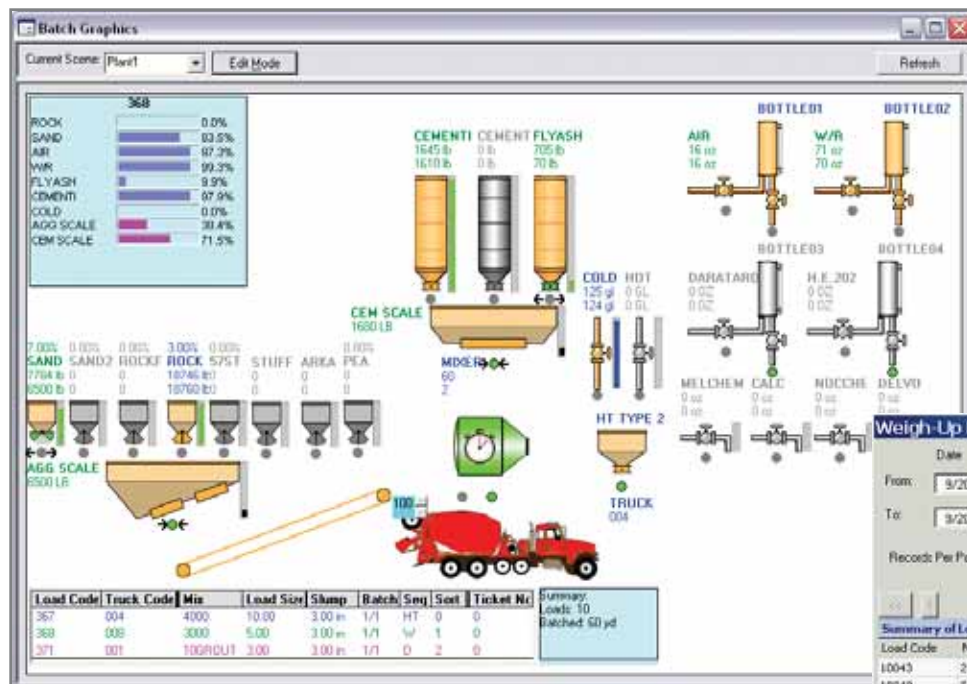
COMMANDbatch Freewheeling maximizes plant productivity by weighing up the next load as soon as a device such as a scale or bottle has fed material for the previous load. Up to three loads can be running at the same time, making maximum use of plant equipment. This can significantly improve plant throughput with slow feeding materials, such as metered water or augered cement.

The Weigh-Up Diagnostics utility lets you view data from a material's open/close gate cycle so you can troubleshoot feeding problems and thereby improve plant production. Navigating among the utility's diagnostics forms, you can determine which feed cycle (Fast, Timed, Jog, or Metered) was used, why it was used, if it fed the expected amount of material, and how drop times and preact (material in flight) values were calculated. The Discharge Diagnostics form allows you to monitor scale flow rates, moisture settings, and mixer relative power setpoints (for Auto-Consistence). The information displayed can be saved for later retrieval.

COMMANDbatch comes equipped with standardized reporting procedures common to all ready-mixed concrete plants. Standard reports include: Yards Per Driver Hour report, Consolidated Order report, Ticket Summary report, Materials Inventory, Tickets by Customer Summary, as well as many others.

Plant Performance Graphs can help you determine why a load took too long to complete or was out of tolerance. The *Load Times Graph* shows Weigh-Up and Discharge times for each load. A *Deviations Graph* shows tolerance information for each material batched. You can right-click on a load code and select "Productivity" to display Drop Times for each material.

COMMANDbatch
Administration & Integration

With Auto Archive, COMMANDbatch is capable of completing critical daily database maintenance "behind the scenes" throughout the business day, reducing the time required to perform end-of-business daily routines. Auto-Archive moves your valuable batching related data from the active to an archive database, allowing the system to operate at peak performance, while giving you the confidence that all of your batching records are permanently stored for access at a later date. Auto-Archive eliminates the need to maintain and manage paper tickets, as archived tickets can be previewed and reprinted.

Auto Purge maintains optimal system performance by purging obsolete information to manage the size of the database. Further, this minimizes the amount of storage required for long-term data backup.

With Auto Backup enabled, COMMANDbatch will automatically create a local and redundant off site backup of your database files every 24 hours. This feature will ensure that an up-to-date system backup can be used during the disaster recovery process. COMMANDbatch Auto Backup will ensure that business critical information, such as plant configuration, batching history, materials, mix designs, customers, and orders can be easily recovered, resulting in minimal plant down time and data loss.

Access rights can be defined for different classes of users to ensure business processes are enforced and that sensitive information is protected.

Ticket output generated by the batching process can be automatically saved in a text or PDF document and stored on a server. When combined with Command Alkon's Enterprise Content Management (ECM) the ticket information, including actual batch-weights, are easily accessible by batching, dispatching, and back office personnel.

Make sure your staff knows how to get the most out of the COMMANDbatch system

Command Alkon Training ensures that your staff is fully utilizing the purchased software and hardware features. Our training services include a well-designed curriculum of offerings both on-site and in our Learning Centers, as well as customized courses.

Training at Installation

Upon installation of your COMMANDbatch system, our batch support specialist will provide your operators with an introduction to COMMANDbatch and basic system operations.

Follow Up Training

Does your staff remember all of the options and flexibility available in the COMMANDbatch software? Most users experience only 30% retention during any training session, so employees can always benefit from refresher training. And, after your employees have been using our products for a while, they will have questions involving situations they have experienced and will better understand what they need to know to do their job well.

New Employee Training

Turnover is a reality in any industry. Command Alkon training for new employees allows them to receive the same benefits that were gained during the initial installation of your system. Training helps new employees to learn their jobs faster and to quickly contribute to your overall profitability.

Plant Site Training

Have no time to allocate for employees being away from the job for formal training? Command Alkon can schedule a batch support specialist on-site to perform user training during normal operations on basic operational functions and assist with plant performance issues.

Customized Courses

Our training staff can work with your team to design and execute a training course or entire curriculum that is tailored to the specific needs of your business and operations. This training can even include the use of a training copy of your existing database.

Visit us online at

www.commandalkon.com/training.asp

to review course descriptions, training schedules, training rates, and methods to register.

Conversions for AC2000, Eagle and Spectrum to COMMANDbatch

Command Alkon is committed to extending the life of your investment

By offering migration pathways to COMMANDbatch for AC2000, Eagle, and Spectrum systems, a modern, state-of-the-art batching system conversion can be had for significantly less money and time than the "rip and replace" method. As Command Alkon continues to advance the technology and capabilities of COMMANDbatch, your company, through software upgrades, will be assured of keeping pace with future changes.

What types of systems are eligible for conversion to COMMANDbatch?

Spectrum, Sprint I

Hardware	Software
EZ-Cal	Version 6, Version 4
Phase III to V*	Version 6, Version 4
Sprint I*	Version 4
Sprint I*	Version 4

Eagle, Eagle Plus, Eagle Jr.,
Enhanced Eagle, Enhanced Eagle Jr.

Hardware	Software
Level 8	Level 8
Level 7	Level 7
Level 6	Level 6
Level 5	Level 5

AC2000

Hardware	Software
EZ-Cal	Version 2

Eagle Flex

Hardware	Software
Level 1	Level 1

* Hardware conversion to EZ-Cal can be added at this time, but is not required, should the customer seek to have consistent systems companywide.

Note that if you have maintained a *Priority One* Support Agreement on one of the above Command Alkon batch controls, a discount is offered on the conversion to COMMANDbatch.

Am I required to replace all of my hardware?

No. Unnecessary components will be removed and replaced with a single 'plug compatible' component, along with a new PC. In most cases, there are no changes to any plant wiring.

Can I add on extras that my current system does not have?

Yes. Any additional features and capabilities of COMMANDbatch can be included as part of the conversion. These features could include items such as:
- COMMANDassist (page 7)
- Remote Batching and Remote Client (page 6)
- Plant Watcher (page 9)
- Dispatch
- Multiple Plant Setup and more . . .

"We have converted four existing Spectrums to COMMANDbatch. With Command Alkon's attention to preserving existing investments, the process was straightforward and cost effective. With these plants now converted to COMMANDbatch, we are using the advanced capabilities of this system, such as Remote Batching, to be more efficient and lower cost more than ever before."

Rob Hawn
All Ohio Ready Mix Concrete

Do I need COMMANDbatch attached to a Network?

No. While COMMANDbatch does require a network connection between the operator PC and the system controls, connection to an office business network is not required. However, if you wish to take advantage of features such as COMMANDassist or Plant Watcher then a connection to the Internet is required.

What is the migration process?

Prior to conversion, Command Alkon requests a copy of the existing system data to prepare for the conversion. Our personnel will ensure that existing plant information (materials, mix designs, etc.) are converted and installed on the new operator PC before shipment. Command Alkon will prepare batch personnel for training by ensuring that they have the knowledge and skills needed to operate in a Windows environment. Once these preparations are made the conversion can be scheduled. The actual conversion includes:

- ◆ Install new hardware, replace PC
- ◆ Set up a LAN connection between the Junction Box and the COMMANDbatch operator PC
- ◆ Configure Incoming Links as needed for central dispatch systems
- ◆ Configure Remote Client access
- ◆ Configure any new options
- ◆ Run test material drops
- ◆ Batch support specialist will provide operators with an introduction to COMMANDbatch Basic System Operations and assist with plant startup and performance tuning

Benefits of a COMMANDbatch Conversion

- ◆ Requires little time for installation
- ◆ Creates much less disruption than a complete "rip and replace"
- ◆ Requires little or no downtime
- ◆ Involves significantly lower risk than system replacement
- ◆ Is significantly more cost effective than system replacement
- ◆ Access to the COMMANDbatch feature set can improve production output and product quality
- ◆ COMMANDbatch advanced reporting and alert capabilities provide up-to-date knowledge on plant operations
- ◆ Personnel training and substitution costs are reduced with all plants using the same system
- ◆ COMMANDbatch software upgrades assure that your company keeps pace with advancements in technology and capabilities

Automatic Bin Fill System

provides a fast, automated and cost-effective way to get materials from underground storage bunkers into overhead bins.

The system's standard controls permit automatic monitoring and replenishment for up to six bins. The system allows priority-first replenishment if materials from one underground storage bunker are required more often than others.

The system is designed to:

◆ determine the need for a material
◆ rotate the turnhead or shuttle conveyor into the correct position
◆ turn on the feed belts as needed
◆ open the correct feed gate on the underground storage silo
◆ monitor the process until filling is complete

As the system sequences from one material to the next the Automatic Bin Fill system will:

◆ close the gate in use on the underground storage
◆ determine the turnheadpositioning delay
◆ open the feed gate for the next material while insuring the proper belt delay to prevent cross contamination of material bins

Any or all materials can be manually overridden at any time. An alarm indicator alerts the user to plant malfunctions. The emergency stop button halts all related plant motion in the event of a belt break or other hazard.

Command Alkon
BIN FILL SYSTEM
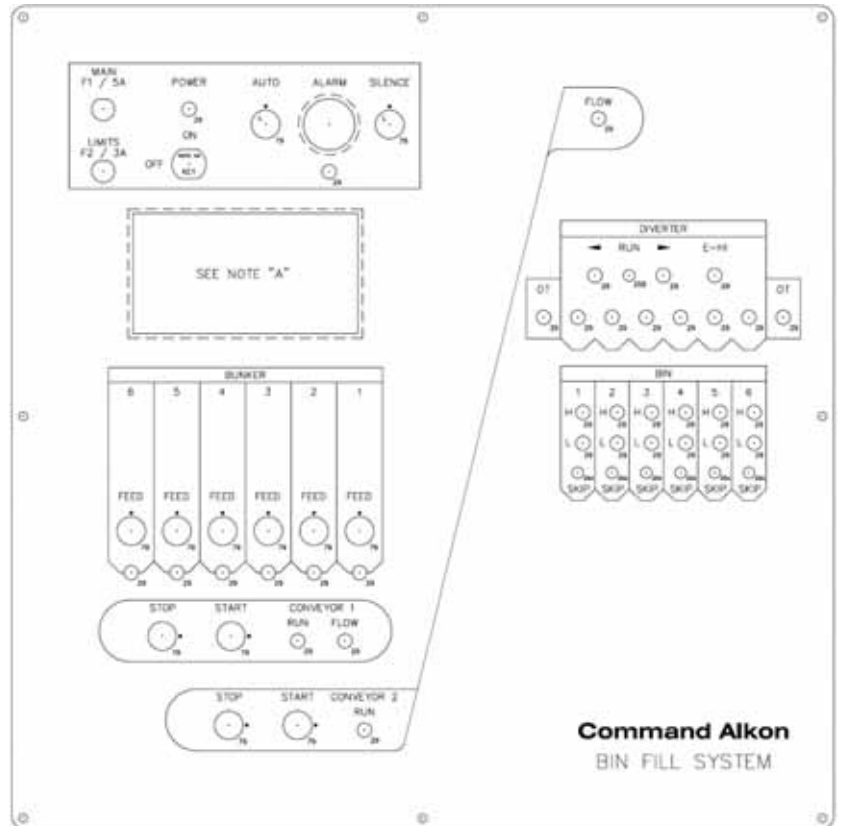
"Command Alkon's Automatic Bin Fill System fulfills a critical role within Florida Rock's Ready Mix production operations. The Automatic Bin Fill System consistently and reliably ensures the right materials are always available in the plant to meet our production needs. We own seven of them; more are sure to follow in the future."

Terry Smith
Florida Rock Industries

General Features

- Individual feed gate controls for up to six storage bunkers
- Controls for six overhead bins – each with a high and low indicator sensor
- Controls for one unidirectional turnhead for directing the desired materials to the appropriate bins
- Controls for a horizontal tunnel conveyor for moving material from underground bunkers
- Controls for the inclined conveyor, monitor material movement from the bunkers to the top of the plant
- Conveyor Controls with Start, Flow and Spillage Indicators
- Rugged NEMA 12 enclosure (20″ x 24″ x 7″) with LCD-controlled panel from which all settings can be monitored
- Emergency Alarm warns when a conveyor or turnhead stops to avoid overfilling, or in the event of "Empty Bin" emergencies
- Alarm Silence feature overrides the audible alarm
- Stand-alone, PLC-based system for reliable and efficient control

ADDITIONAL ITEMS AVAILABLE
- Controls for Additional Overhead Bins
- Emergency High Bin Lights
- Controls for Additional Ground Bunkers
- Integration of OSHA Conveyor Start Timers
- Controls for Bunker Vibrators
- Controls for Additional Turnheads (4 Bin)
- Controls for Manual Motor Starters
- Manual Outputs (i.e. Diverters)

Benefits of Automatic Bin Fill System
- Automates bin replenishment, allowing staff to concentrate on more important and time critical operations in the plant
- "Keep Full" ensures the batch plant bins remain full, preventing production delays

Benefits Summary
Why COMMANDbatch?

Quality You Can Count On
Superior Productivity & Performance
Advanced Administration & Integration
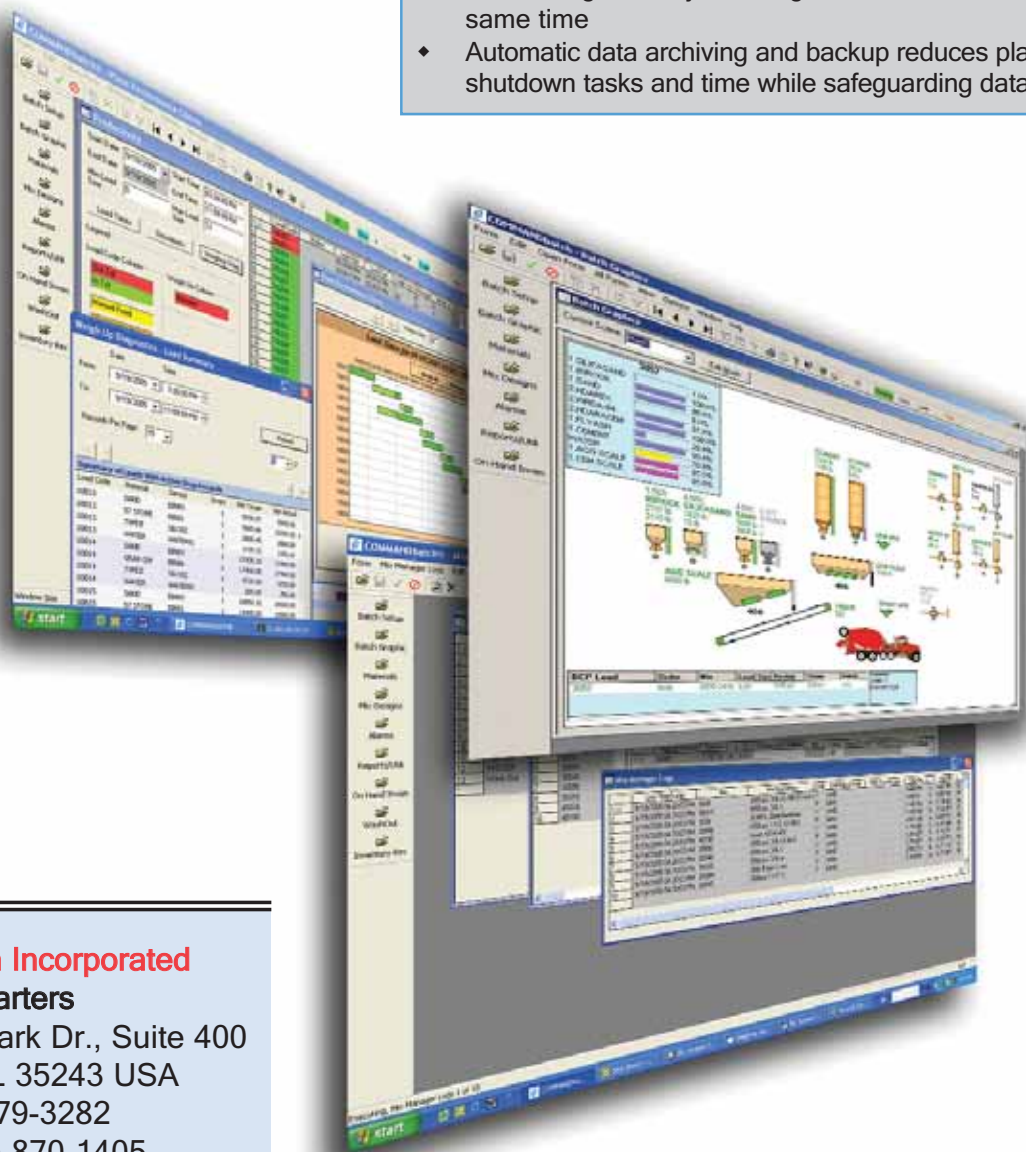## Remote Plant Monitoring & Tune Up
Remote Diagnostics & Troubleshooting
Remote Batching & Mix Design Changes
Migration Paths from Legacy Systems

Benefits of COMMANDbatch

- Automatic notification of batch "out of tolerance" with Plant Watcher, protects against out of specification loads from reaching the job site
- COMMANDbatch Freewheeling maximizes plant productivity and gets the first round in the morning out in less time
- Admix Designs (mix modifiers) reduce errors and QC mix maintenance time
- Remote Batching allows low volume plants to operate cost effectively
- Automated Remote Assistance, including online technician chat, keeps plant downtime to a minimum
- Early identification of plant batching issues or trends with Plant Performance Graphs
- Save time and reduce data entry errors by using the Mix Manager to adjust a large number of mixes at the same time
- Automatic data archiving and backup reduces plant shutdown tasks and time while safeguarding data.