



Revision 0

2007-01-30

## LABsys Options

### Base Model

The basic functionalities of LABsys include

- User/Group security access logins
- System parameters and default value management
  - Entire system
  - Database
  - Group
  - User
- Multiple plant management
- Mix design management
  - Multiple printing layouts
  - ACI 3 Point curve
- Material management
  - Temporary substitution
  - Permanent substitution
- Concrete test results
  - Fresh concrete
    - Unit Weight
    - Slump
    - Air
    - Temperature
  - Hardened concrete
    - Unit Weight
    - Compressive strength
      - Cylindrical specimens
      - Cubical specimens
      - Cores
    - Flexural strength
      - Beams



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### Submittal Option

This option allows you to create and manage complete submittal packages. The package automatically creates a single pdf file that includes all required project and QC documentation.

**Package may include (depending on submittal type and customer needs)**

- Transmission sheet
- Individual Mixes
- List and summary of all mixes included in the package
- Admixture information
  - Technical sheet
  - MSDS
  - Certification letter
- Cement information
  - Mill test report
  - MSDS
- Aggregate information
  - Gradation and physical properties
  - Aggregate blends
- Company and Project information

#### **Additional features**

- Printing of Watermarks
  - Preliminary
  - Confidential
- Document sorting
  - Change the printing order
- Add any additional pdf document



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## LABsys Options

### Advanced Stat Option

In addition to the current statistical reports available in LABsys, this option allows you to create and manage custom reports and queries, create batch reports and save your report queries to accelerate internal and external processes. Export data directly into an Excel Template and use the intuitive filter in LABsys to choose from any available field in the program to extract

- Test results
  - Fresh Concrete
  - Hardened Concrete
  - Batch Weights
- Material information
  - Water
  - Cement
  - Admixture
  - Aggregate
- Project information
- Client information
- Plant information
- Mix information
  - Class
  - Air content
  - Slump
  - Aggregate size

#### Individual reports includes

- Tabular
- Time-Line/Control cards
- CUSUM
  - Multiple mixes, parameters
  - V-Mask
- Regression Analysis, Single, Multiple
- Normal distribution curve
- Strength/Gain
- Cement efficiency



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### Batch Alert Option

Set different tolerance levels of on any given product and receive <sup>1</sup>live (real-time) warning messages. The "out of tolerance" messages are calculated using the differences between the actual batch weight and the theoretical mix design weight expressed in percentage. The warning message are via e-mail, text message or pager.

- Water
- Cement
- Mineral Additives
- Total Cementitious
- Coarse aggregate
- Fine aggregate
- Admixtures
- w/c ratio
- Unit Weight
- Cost

<sup>1</sup> The Interface Option must be activated  
Live messages will depend on Interface type and connection speed



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### Interface Option

The main objective of the interface is to accelerate the data management process while reducing man-hours required for manual data entry. The interface import/export option is accomplished in three steps. During the first step, LABsys imports all relevant company information, plant information, material information and mix designs. The second step consists of activating the ticket import between LABsys and the Dispatch software system. Finally, the third step automatically transfers mixes, which were previously modified, from LABsys, directly into the Batching/Dispatch system. Attributable to the inherent differences between LABsys (Quality Control software) and the Batching/Dispatch system (Production software) the user will need to synchronize both databases during the first step.

#### Step 1

- Plant Import
- Material Import
  - Code
  - Description
  - Cost
  - Specific Gravity
- Mix design Import
- Mix Number
  - Materials dosages

#### Step 2

- Ticket Import
  - Plant number
  - Mix number
  - Materials dosages
    - Target
    - Actual

#### Step 3

- Mix design Export
- Mix Number
  - Materials dosages