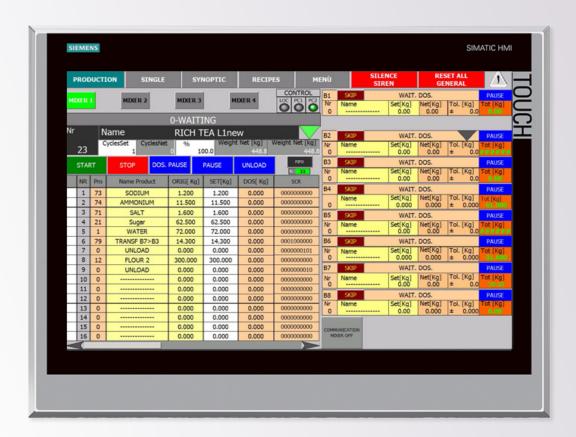
# **CEPI DOSING CONTROL**

Customized touch panels for the management of multiple lines

4-15"

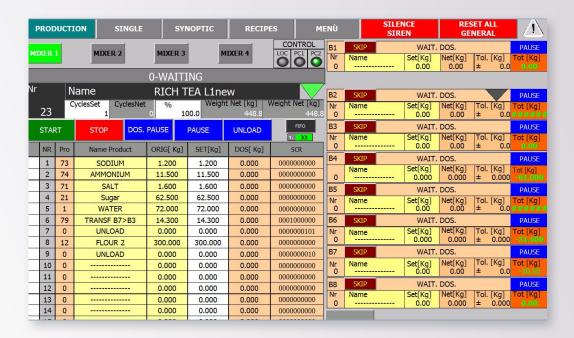
Siemens and Allen Bradley

PC and mobile devices









Production control on multiple lines
Hopper control
Remote and local production modality
Single dosing
Report
Communication with SQL server
Communication with mixer







#### Select the production modality

Local production modality: the recipe is started and managed in the PLC Remote production modality: the recipe is started and managed elsewhere



#### **Recipe selection**

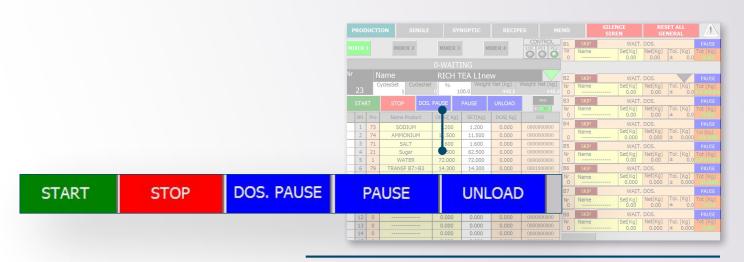
Access the recipe list from the production page
Visualize recipe details
Select the recipe to produce





#### **Production details**

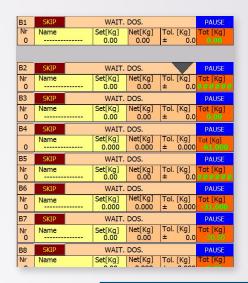
Monitor and change the details of the recipe Control cycles, weight, percentage, pieces to dose, batch, temperature...

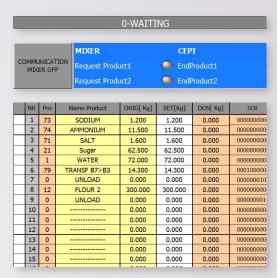


#### **Production commands**

Start and stop the production of the recipe Stop dosing on all lines temporarily or stop dosing when current cycle ends Authorize unloading on mixer







#### Monitor production

Hopper details showing the state of each hopper including name and number of ongoing recipe, set and net weight and tolerance

State bar showing the current state of the dosing on the line

Communication with mixer showing the requests from the mixer and the replies from the CEPI system

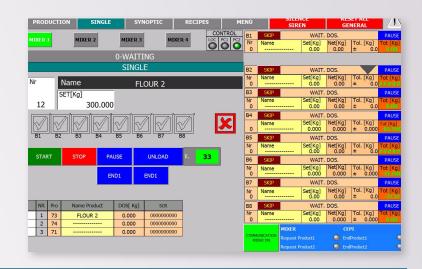
Recipe report showing the details of the ongoing recipe including state of step, name and number of product dosed in step, set and net weight and temperature



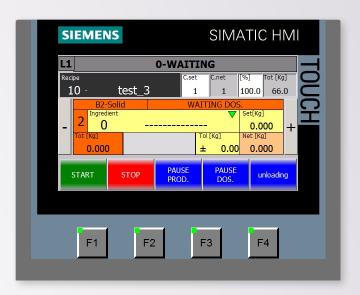
#### Hopper reservations

Monitor and manage the dosing order





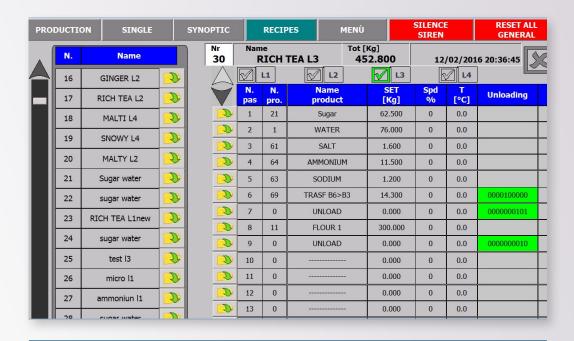
#### Single dosing



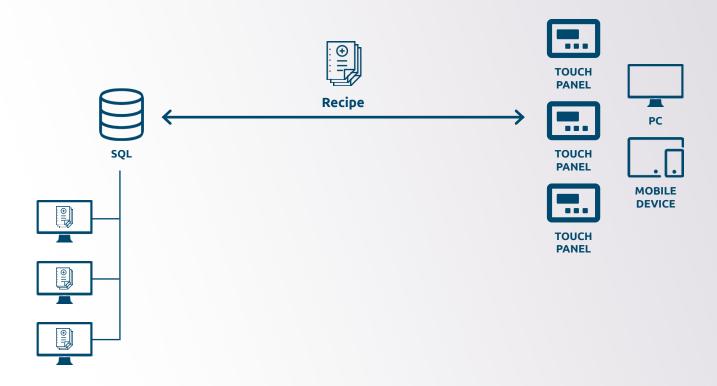
Production page on Touch Panel 4"



## Recipe management

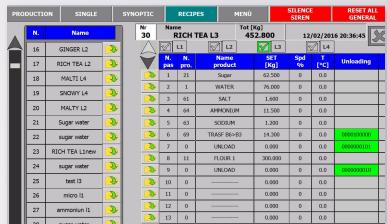


Create recipes for lines and installation, send them to traceability software and viceversa





## Recipe management



#### Recipe list

List of all available recipes and potential recipes (yet to write and save)

Click on the yellow button to visualize details in the Recipe Details panel

#### **Recipe details**

Details of the selected recipe:

click on any step and view or change product number, name, weight, speed of dosing, temperature, unloading steps



#### **Unloading steps**

Unloading steps are green. Click to view step details, view or assign hopper



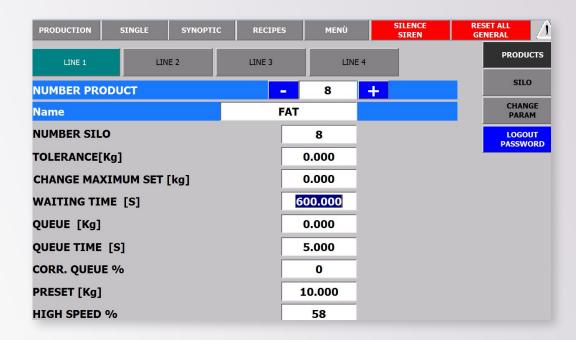


#### Step options

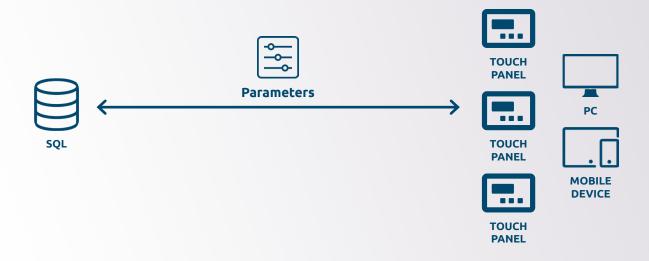
Assign an activity to the step such as mixing, cooling... and set a duration time



## **Parameters**

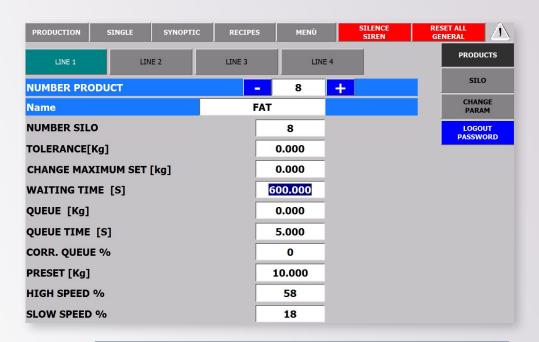


Product parameters, hopper parameters, installation and line data, system parameters

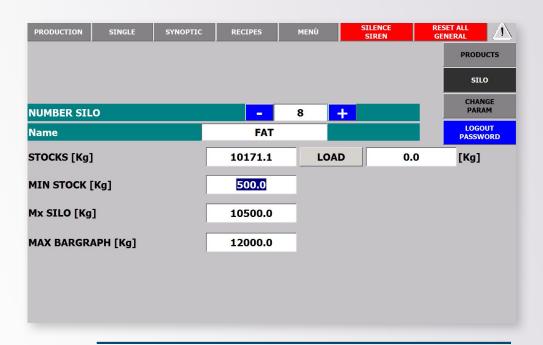




## **Parameters**



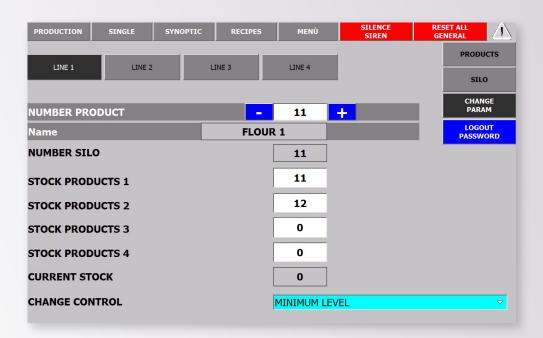
#### Product parameters for the dosing



Product parameters for the storing



## **Parameters**



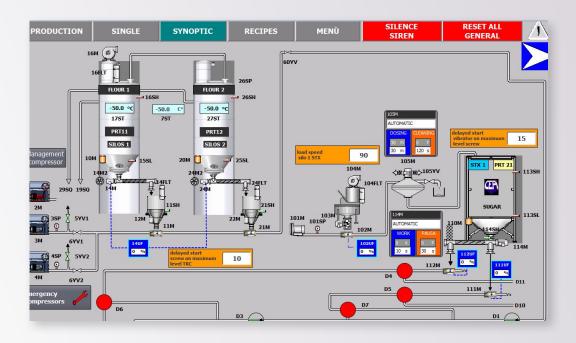
#### Product parameters for the change



Hopper parameters



# **Synoptic overview**

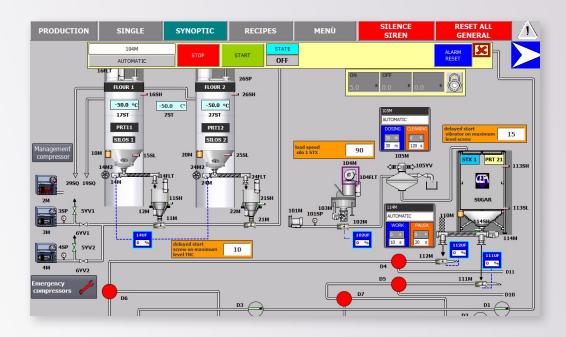


Overview of installation, silos, hoppers and utilities Maintenance with manual working modality

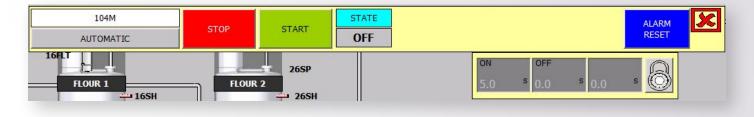




## Synoptic overview: maintenance



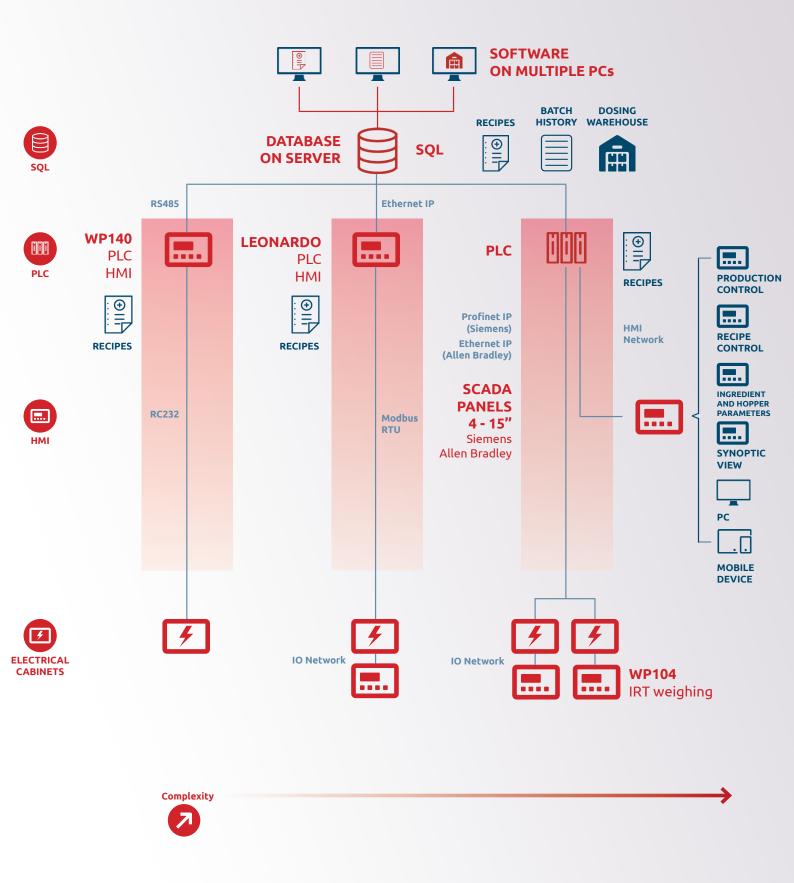
Command any utility in the manual working modality



Manual commands
Automatic/Manual button
State of the utility
Utilities under inverter show a speed field
Reset alarms
Set sensitive times for the utilities
Special parameters for filters and sensors



# Architecture of the automation system







Touch panel managing fermentation line

Touch panel managing continuous microingredient dosing



Three dosing lines for powders and liquids with touch panel managing each line

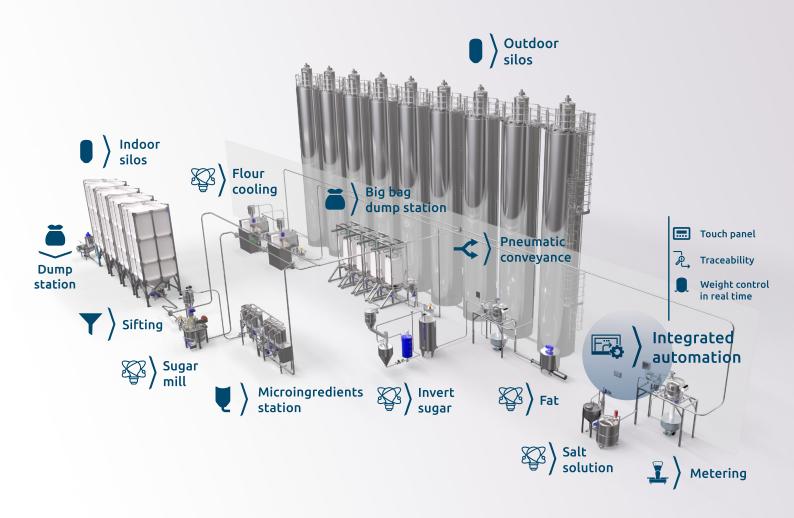


## heart of technology



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# Bulk-handling systems for the food industry since 1985









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