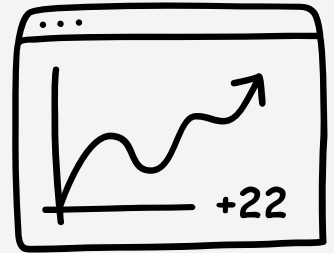
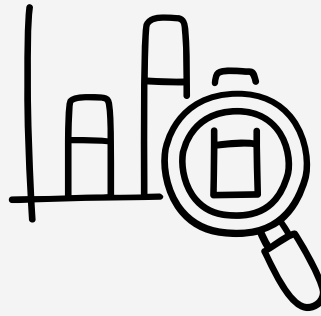
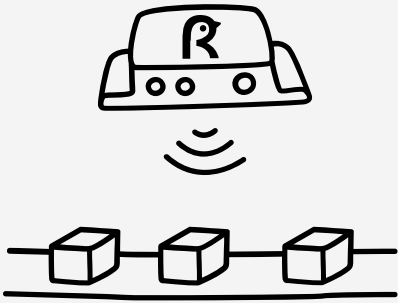


# FACTBIRD

**USER GUIDE** | Cloud Application  
for operators



OEE

# USER GUIDE

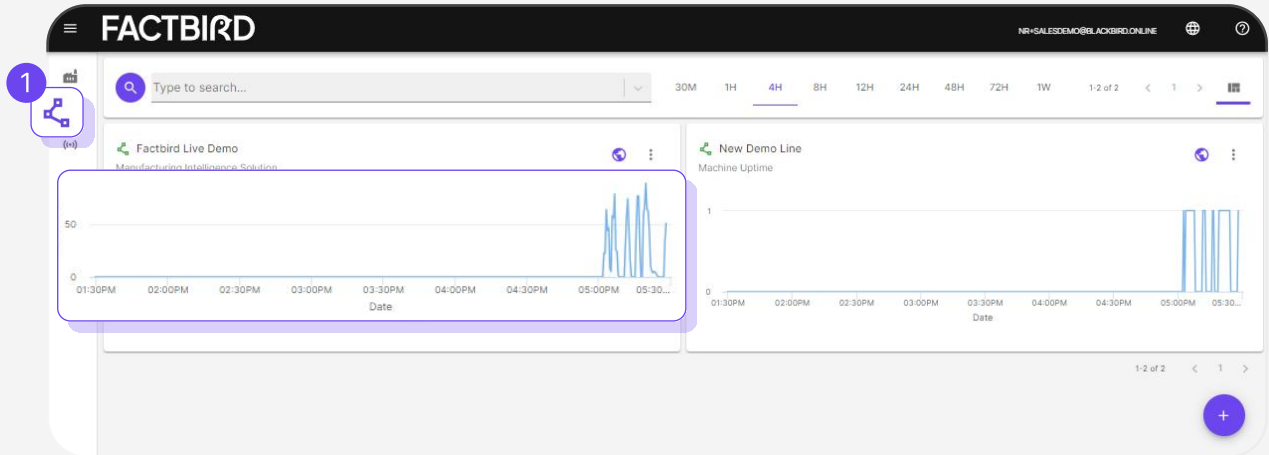
## How to use - Live Flow Monitoring

### Monitoring live data

# 1

#### Live page

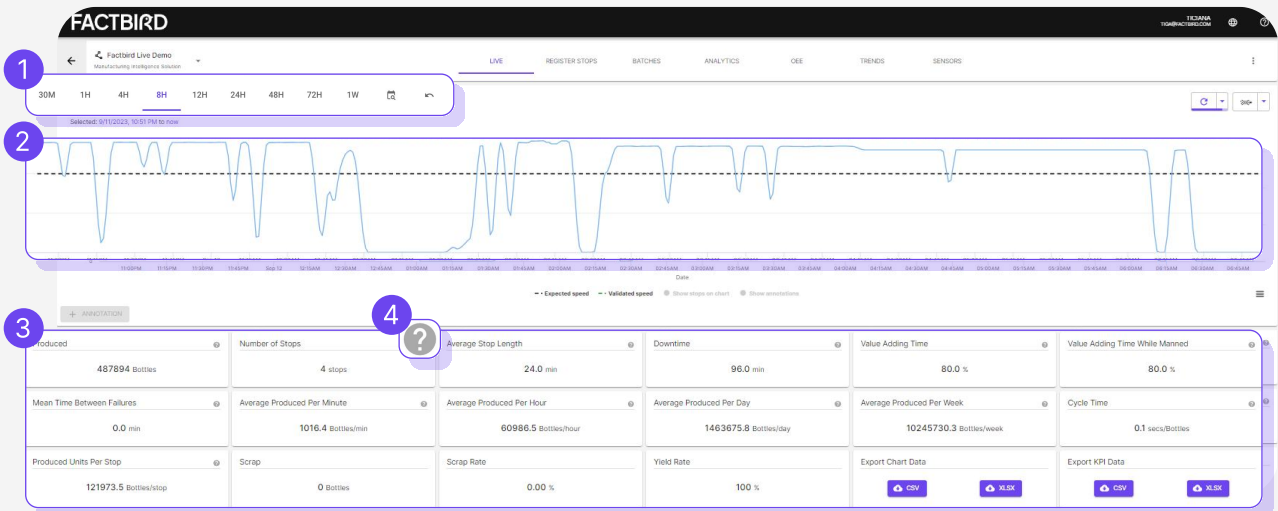
1. Click on **"Lines"** from the menu.
2. Choose the desired line.



# 2

#### Monitor live flow and KPIs

1. Choose a time range, such as "Last 24 hours", "1 week", or "Morning Shift" (click the calendar icon for more presets).
2. Zoom in on the live graph by dragging and dropping.
3. View various KPIs below the live graph. KPIs are dynamic and automatically calculated based on the selected time range.
4. Hover over the "?" mark on each KPI for more information.



- Real time production output: X axis - time, Y axis - volume

# USER GUIDE

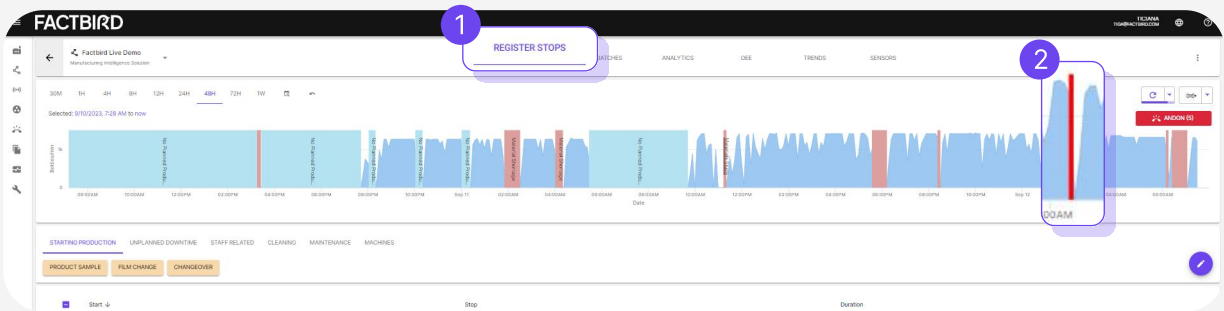
## How to use - Stop Cause Registration

### Registering causes on detected stops

# 1

#### Select unregistered downtime (indicated by a red bar with no text)

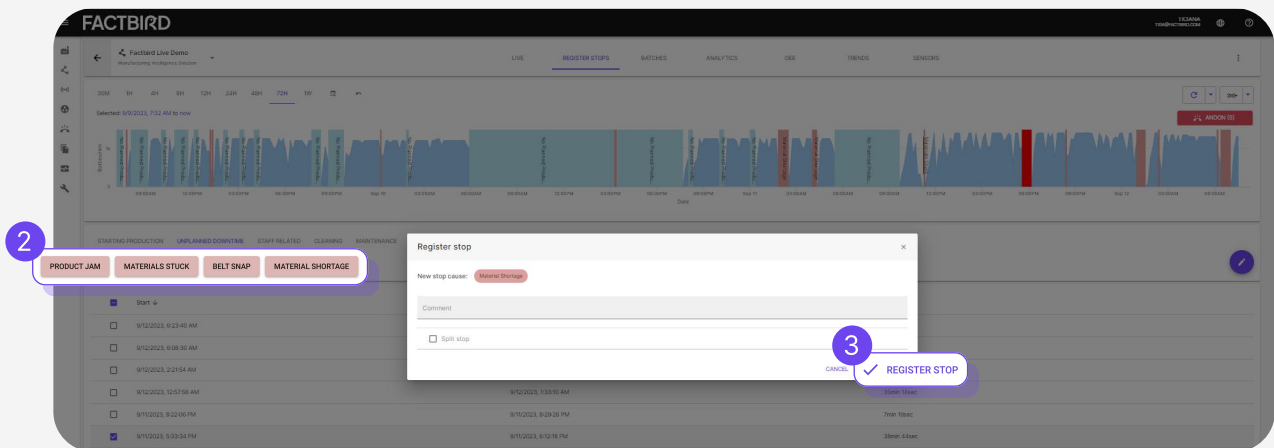
1. Navigate to your desired line then click the **"REGISTER STOPS"** tab.
2. Select downtime by clicking the red bar.



# 2

#### Select a downtime reason and complete registration

1. Navigate the categories just below the graph, then choose the correct downtime reason
2. Click **"REGISTER STOP"**



### Downtime analytics

# 1

#### Downtime analytics

1. Navigate to your desired line then click the **"ANALYTICS"** tab.
2. Select a time range e.g. last 24 hours, morning shift etc..
3. Select a chart type.
4. Click on a bar to see the breakdown.
5. Click a column to sort the list of stops. e.g. Duration to see the longest stops.
6. Filter stops as required.

The screenshot displays the FACTBIRD analytics dashboard. At the top, the 'ANALYTICS' tab is selected. A time range of '4H' is chosen. A bar chart shows downtime categories: 'Loss during operation' (74.1 min, 10 stops), 'No activity at line' (30.1 min, 3 stops), 'Micro stop' (8.5 min, 6 stops), and 'Unregistered' (5.4 min, 2 stops). A dropdown menu shows chart options like 'Pareto: Grouped by stop type'. A search filter 'Filter stop causes...' is active. Below, a table lists stop causes with columns for Name, Category, Start, Stop, Duration, Comment, Registered, and Time to register.

Name	Category	Start	Stop	Duration	Comment	Registered	Time to register
Changeover	Starting Produc...	10/2/2023, 1:41:...	10/2/2023, 1:44:...	2min 54sec		10/2/2023, 1:46:...	4min 49sec
Meeting	Staff related	10/2/2023, 1:18:...	10/2/2023, 1:20:...	2min 34sec		10/2/2023, 1:47:...	28min 50sec
Meeting	Staff related	10/2/2023, 1:06:...	10/2/2023, 1:08:...	2min 15sec		10/2/2023, 1:47:...	40min 35sec
Materials Stu...	Unplanned dow...	10/2/2023, 12:4:...	10/2/2023, 12:4:...	2min 45sec		10/2/2023, 12:5:...	14min 53sec

Hourly count chart: Shows analytics and issues for each hour

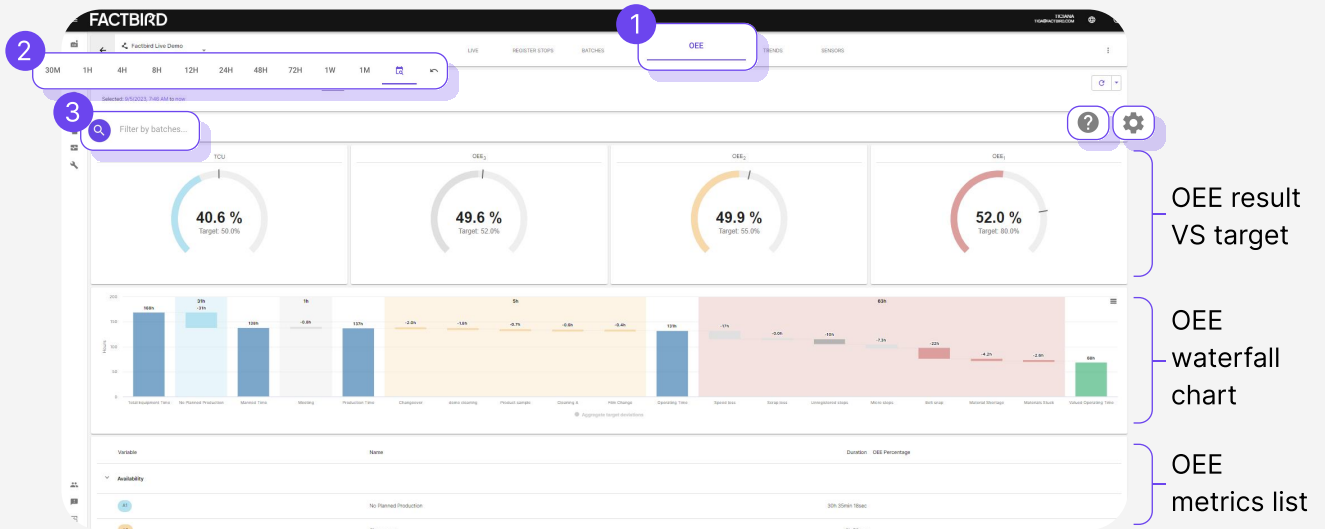
Scatter plot: Shows how frequently issues are progressing



Scrap reasons: Shows a distribution chart of scrap reasons

### OEE analytics

#### 2 Overall Equipment Efficiency (OEE) analytics

1. Navigate to your desired line then click the “OEE” tab
2. Select a time range e.g. last 24 hours, morning shift etc..
3. Filtering by product in the search field provides SKU specific OEE.



- The gear icon  allows to type in OEE targets on OEE meters.
- The “?”  shows how various OEE metrics are calculated in the Factbird system.
- Scrap is calculated automatically as quality loss. Scrap sensor can be set up on “**Line Settings**”.

[For more information on calculating OEE, please visit our website.](#)

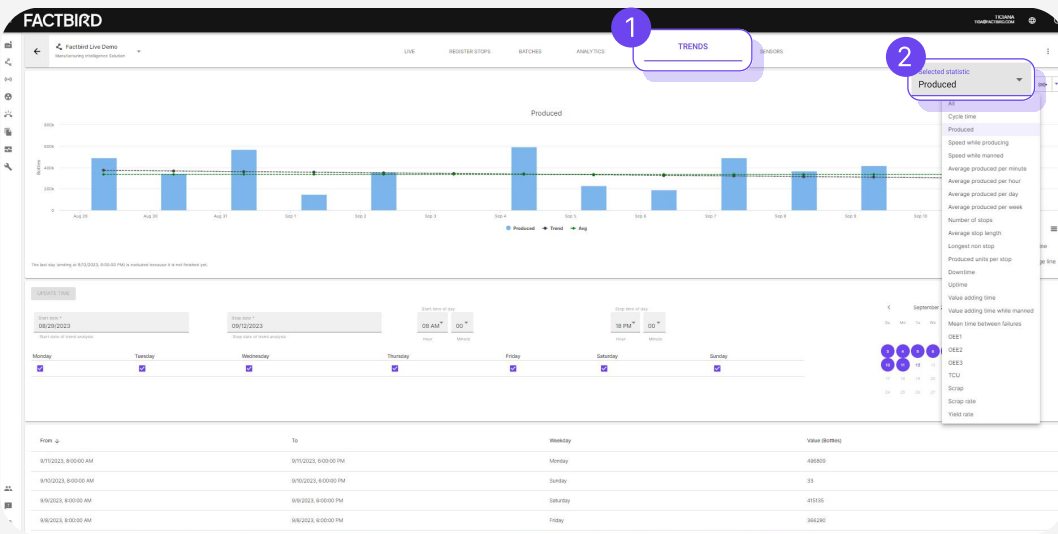
[OEE complete guide is available here.](#)

### KPI trend analytics

# 3

## Trend of Key Performance Indicators (KPIs)

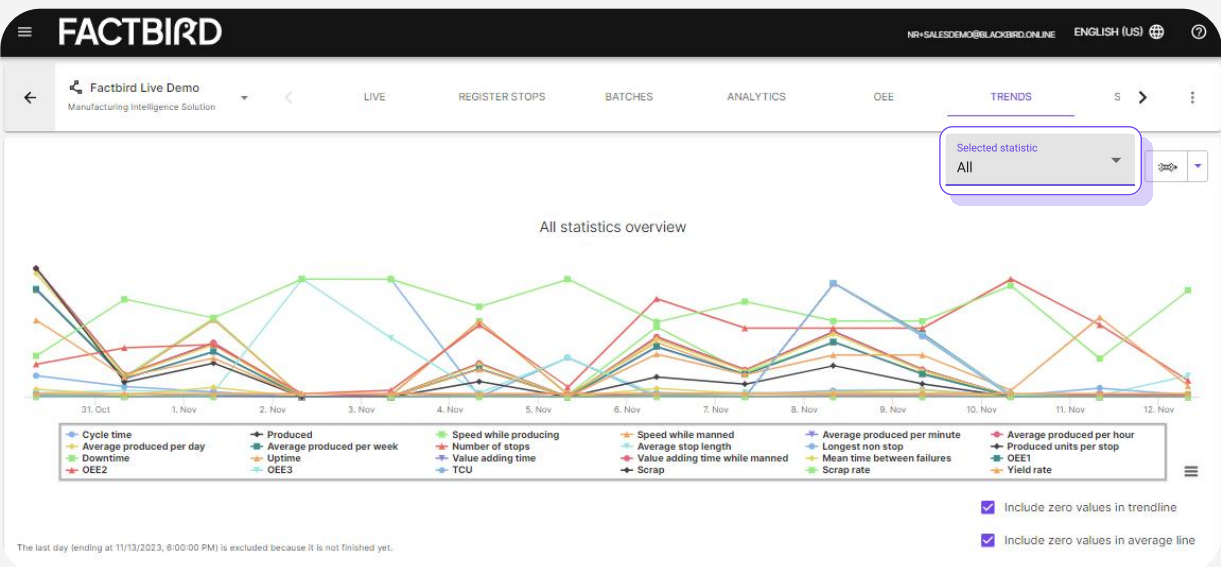
1. Navigate to your desired line then click the **"TRENDS"** tab or any KPI on **"LIVE"** page.
2. Choose a KPI you want to see over time by clicking on **"selected statistic"** e.g. OEE, produced, downtime.



Transition of KPI over time

Filter time intervals e.g. last 2 weeks, Monday to Friday etc.

Choosing **"All"** allows analysing correlation between KPIs.



# USER GUIDE

## How to use - Batch Set up and Management

### Creating products

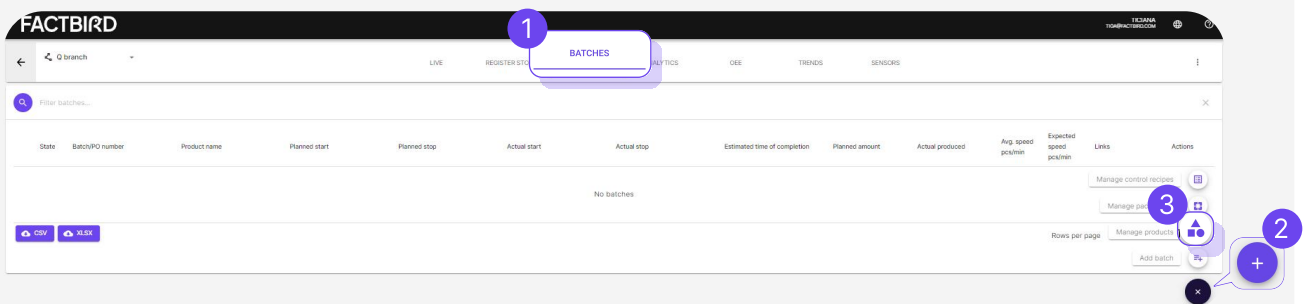
#### What is a batch?

PO or a work order of a product with planned production amount.

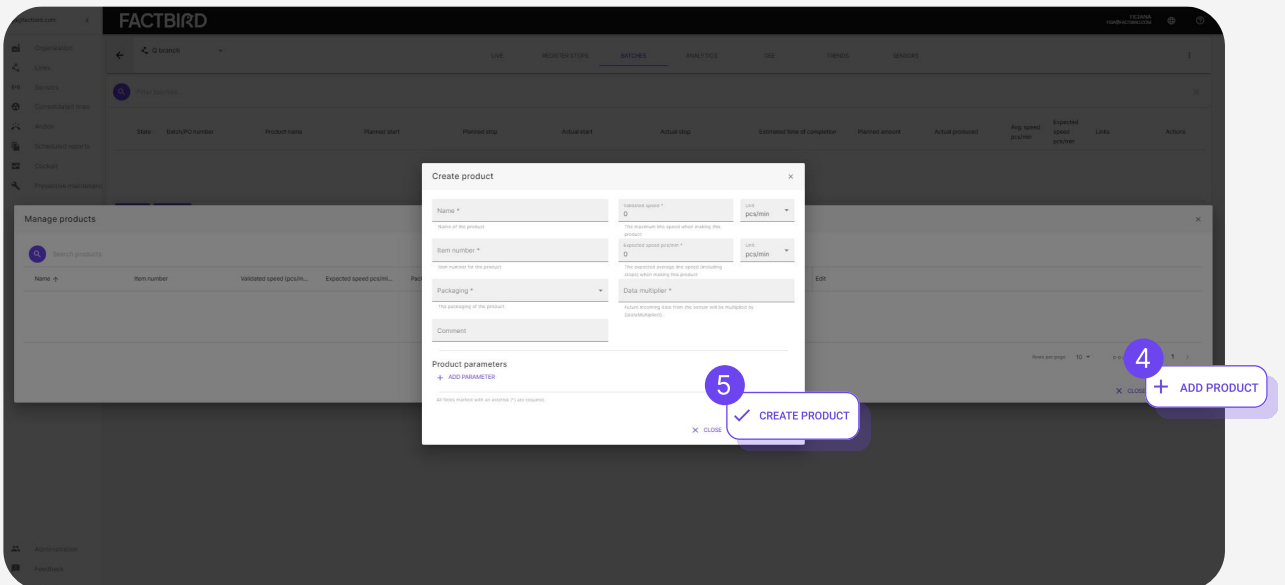
# 1

## Create products

1. Navigate to your desired line then click the **"BATCHES"** tab
2. Click **"+"** to:
  - **"Manage packagings"**: Unit of products such as pcs, bottles, can, boxes. Pcs is default.
3. Click **"Manage products"**



4. Click **"ADD PRODUCT"** and fill in the required fields
5. Click **"CREATE PRODUCT"**



### Creating batches

# 2

#### Create batches

1. Click the “+” icon and click on “Add batch”
2. Select the product from the dropdown menu and fill in the required fields
3. Once done, click on “CREATE BATCH”

The screenshot shows the 'Create batch' form in the FACTBIRD application. The form is divided into several sections: 'General', 'Schedule', and 'Speeds'. A purple box highlights the 'CREATE BATCH' button at the bottom right, with a callout '3'. A purple box highlights the '+ icon in the top right corner of the background interface, with a callout '1'. A purple box highlights the 'Product name or item number' dropdown menu, with a callout '2'. The form fields include: 'Product name or item number' (dropdown), 'Batch/PO number \*' (text input), 'Amount \*' (text input), 'Manual scrap' (checkbox), 'Comment' (text area), 'Planned start \*' (datetime picker), 'Actual start' (datetime picker with 'RESET' button), 'Actual stop' (datetime picker with 'RESET' button), 'Validated speed \*' (text input), 'Expected speed pcs/min \*' (text input), and 'Data multiplier \*' (text input). The background interface shows a list of batches with a search filter and a '+ icon.

Created batches can be viewed on the list of batches.



# USER GUIDE

## How to use - Batch Set up and Management

### Starting and stopping batches

# 3

#### Run a batch

1. Click the play icon to start a batch
  2. Click **"CONFIRM"** on the pop-up window.
- The batch turns green = currently running batch

State	Batch/PO number	Product name	Planned start	Planned stop	Actual start	Actual stop	Estimated time of completion	Planned amount	Actual produced	Avg. speed pcs/min	Expected speed pcs/min	Links	Actions
Pending	123456	BB Beer	9/11/2023, 2:05:30 PM	9/11/2023, 3:45:30 PM				100000			1000		
Done	123825123y	Factbirds	9/11/2023, 6:00:00 AM	9/11/2023, 4:25:00 PM	9/10/2023, 7:00:00 PM	9/11/2023, 3:00:29 PM		500000	838250	688.25	800		
Done	648F	BB Cider	9/4/2023, 1:45:30 PM	9/4/2023, 9:20:02 PM	9/7/2023, 9:08:00 AM	9/8/2023, 9:45:59 AM		500000	1203440	814.24	1100		
Done	989896	BB Soda	9/4/2023, 8:05:00 AM	9/9/2023, 7:09:51 PM	9/4/2023, 5:45:30 AM	9/7/2023, 9:07:59 AM		7864860	2439993	539.52	1000		
Done	1524	BB Beer	8/31/2023, 2:15:00 PM	8/31/2023, 4:46:54 PM	8/17/2023, 2:15:30 PM	8/21/2023, 12:30:29 PM		95416	3659706	64716	1000		
Done	23456788	BB Wine	8/25/2023, 5:32:00 PM	8/27/2023, 8:39:30 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		3456877	3864438	639.12	1000		
Done	34455551	BB Wine	8/15/2023, 12:53:00 PM	8/16/2023, 7:26:13 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		5439222	2781	12.01	1000		
Done	34455551	BB Wine	8/15/2023, 12:53:00 PM	8/16/2023, 7:26:13 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		5439222	2781	12.01	1000		
Done	1235	BB Soda	8/17/2023, 7:15:30 PM	8/17/2023, 9:13:30 PM	8/17/2023, 3:45:30 AM	8/17/2023, 2:15:29 PM		450000	278534	438.94	600		
Done	1232	BB Bread Roll	8/1/2023, 3:11:30 PM	8/1/2023, 4:46:54 PM	8/17/2023, 2:15:30 PM	8/21/2023, 12:30:29 PM		95416	3659706	64716	1000		
Done	Live-Demo	Factbirds	8/17/2023, 8:43:30 AM	8/17/2023, 9:13:30 PM	8/17/2023, 3:45:30 AM	8/17/2023, 2:15:29 PM		450000	278534	438.94	600		
Done	1231	BB Bread Roll	8/1/2023, 3:11:30 PM	8/2/2023, 6:43:14 AM	8/15/2023, 4:45:00 PM	8/17/2023, 3:35:29 AM		931740	1543620	738.4	1000		
Done	3445555	BB Wine	8/15/2023, 12:53:00 PM	8/16/2023, 7:26:13 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		5439222	2781	12.01	1000		

Use the search bar to find batches by keywords

#### Stop a batch

1. A currently running batch is shown in green. Click on the stop icon to stop the batch.
  2. Click **"CONFIRM"** on the pop-up window.
- The batch turns grey = completed batch

Product name	Planned start	Planned stop	Actual start	Actual stop	Estimated time of completion	Planned amount	Actual produced	Avg. speed pcs/min	Expected speed pcs/min
BB Beer	9/11/2023, 2:05:30 PM	9/11/2023, 3:45:30 PM	9/12/2023, 8:35:30 AM		9/12/2023, 10:15:23 AM	100000	4180	1024.63	1000
Factbirds	9/11/2023, 6:00:00 AM	9/11/2023, 4:25:00 PM	9/10/2023, 7:00:00 PM	9/11/2023, 3:00:29 PM		500000	838250	688.25	800
BB Cider	9/4/2023, 1:45:30 PM	9/4/2023, 9:20:02 PM	9/7/2023, 9:08:00 AM	9/8/2023, 9:45:59 AM		500000	1203440	814.24	1100
BB Soda	9/4/2023, 8:05:00 AM	9/9/2023, 7:09:51 PM	9/4/2023, 5:45:30 AM	9/7/2023, 9:07:59 AM		7864860	2439993	539.52	1000
BB Beer	8/31/2023, 2:15:00 PM	8/31/2023, 4:46:54 PM	8/17/2023, 2:15:30 PM	8/21/2023, 12:30:29 PM		95416	3659706	64716	1000
BB Wine	8/25/2023, 5:32:00 PM	8/27/2023, 8:39:30 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		3456877	3864438	639.12	1000
BB Wine	8/15/2023, 12:53:00 PM	8/16/2023, 7:26:13 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		5439222	2781	12.01	1000
BB Wine	8/15/2023, 12:53:00 PM	8/16/2023, 7:26:13 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		5439222	2781	12.01	1000
BB Soda	8/17/2023, 7:15:30 PM	8/17/2023, 9:13:30 PM	8/17/2023, 3:45:30 AM	8/17/2023, 2:15:29 PM		450000	278534	438.94	600
BB Bread Roll	8/1/2023, 3:11:30 PM	8/1/2023, 4:46:54 PM	8/17/2023, 2:15:30 PM	8/21/2023, 12:30:29 PM		95416	3659706	64716	1000
Factbirds	8/17/2023, 8:43:30 AM	8/17/2023, 9:13:30 PM	8/17/2023, 3:45:30 AM	8/17/2023, 2:15:29 PM		450000	278534	438.94	600
BB Bread Roll	8/1/2023, 3:11:30 PM	8/2/2023, 6:43:14 AM	8/15/2023, 4:45:00 PM	8/17/2023, 3:35:29 AM		931740	1543620	738.4	1000
BB Wine	8/15/2023, 12:53:00 PM	8/16/2023, 7:26:13 AM	8/15/2023, 12:53:00 PM	8/15/2023, 4:44:59 PM		5439222	2781	12.01	1000

# USER GUIDE

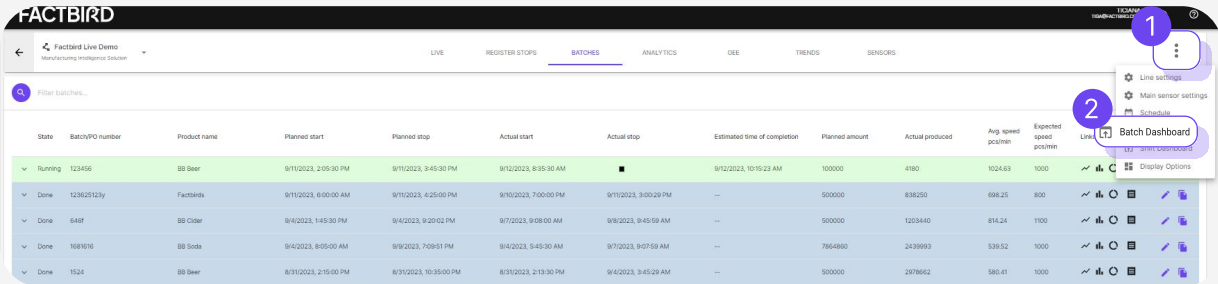
## How to use - Batch Set up and Management

### Visualizing real time batch progress

# 4

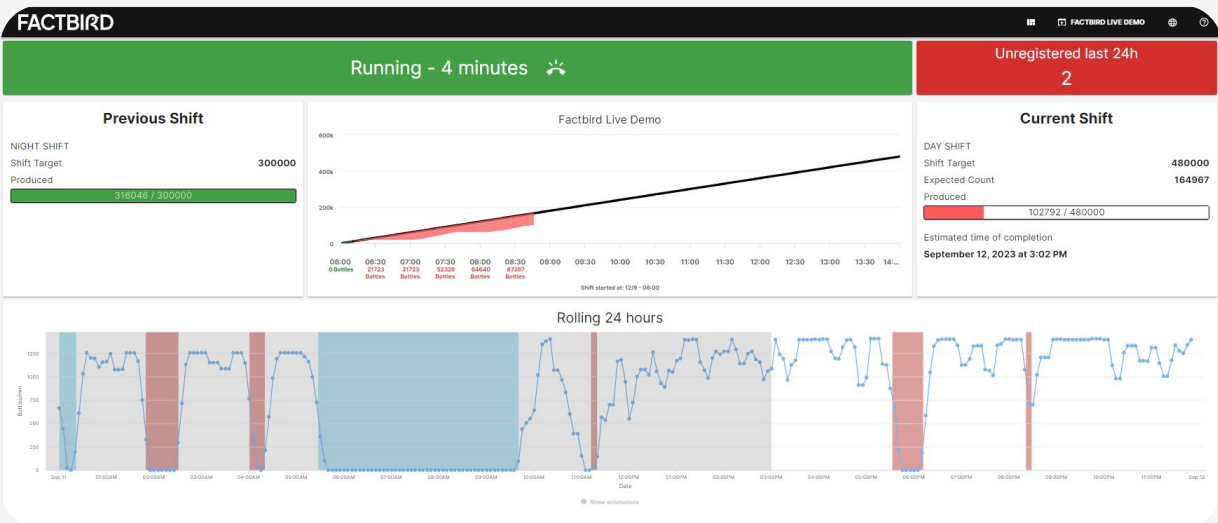
## Visualize real time batch progress against batch target

1. Click on the three dots on the main navigation menu.
2. Click on **"Batch Dashboard"**



State	Batch/PO number	Product name	Planned start	Planned stop	Actual start	Actual stop	Estimated time of completion	Planned amount	Actual produced	Avg speed pos/mm	Expected speed pos/mm	Line	Batch Dashboard	Display Options
Running	123456	BB Beer	9/11/2023, 2:05:30 PM	9/11/2023, 9:45:30 PM	9/12/2023, 8:35:30 AM		9/12/2023, 10:15:23 AM	100000	4180	1024.63	1000	Line 1	Batch Dashboard	Display Options
Done	123825123y	Factbirds	9/11/2023, 8:00:00 AM	9/11/2023, 6:25:00 PM	9/10/2023, 7:00:00 PM	9/11/2023, 3:00:29 PM	---	500000	838250	698.25	800	Line 1		Display Options
Done	548F	BB Cider	9/4/2023, 1:45:30 PM	9/4/2023, 9:20:02 PM	9/7/2023, 9:08:00 AM	9/8/2023, 9:45:59 AM	---	900000	1203440	814.24	1100	Line 1		Display Options
Done	1687616	BB Soda	9/4/2023, 8:05:00 AM	9/9/2023, 7:09:51 PM	9/4/2023, 5:45:30 AM	9/7/2023, 9:07:59 AM	---	7864860	2439993	539.52	1000	Line 1		Display Options
Done	1524	BB Beer	8/31/2023, 2:15:00 PM	8/31/2023, 10:35:00 PM	8/31/2023, 2:13:30 PM	9/4/2023, 3:45:29 AM	---	500000	2978602	580.41	1000	Line 1		Display Options

When you have a running batch (in green), the **"Batch Dashboard"** updates to reflect the current status and progress according to the batch specifications.



## Display Dashboard on a flat screen

