Manufacturing Downtime Analysis

EMERSON

Product	Date	Operator
All	All	All

Line Efficiency (%)
64%
Aug 29 Aug 31 Sep 02

Total Downtime (In Mins)
1388
Aug 29 Aug 31 Sep 02

Average Downtime Per Day (In Mins)
22.75
Aug 29 Aug 31 Sep 02

Total Batches Produced
38
Aug 29 Aug 31 Sep 02

Who's on Top... of Bringing us DOWN?

The leading causes of downtime by factors , ranked by total minutes lost. Know where to act first.

Factor	Minutes
Machine adjustment	332
Machine failure	254
Inventory shortage	225
Batch change	160
Batch coding error	145
Other	74
Product spill	57
Calibration error	49
Labeling error	42
Label switch	33
Conveyor belt jam	17

What percent of downtime is due to preventable (operator-related) vs non-preventable factors?

Understanding how much of our lost time could be reduced through training and operational discipline.

44.09%
55.91%

Machine adjustm... 332
Machine failure 254
Inventor... 225
Other
Batc... 160
Calibr...
Batc... 145
Product s...
Labeli...

Held up by... What we MAKE?

Product	Downtime
CO-600	494
CO-2L	277
RB-600	258
LE-600	169
DC-600	115
OR-600	75

Total downtime by product reveals which items are slowing the floor and where to take action.

6 Days, 6 Clues... Downtime tells a STORY

A focused view of production downtime over six days, highlighting operational weak spots.

Aug 29 Aug 30 Aug 31 Sep 01 Sep 02 Sep 03

Operator	CO-2L	CO-600	DC-600	LE-600	OR-600	RB-600	Total
Charlie	191	154		39			384
Dee		187	20			163	370
Dennis	54	153				95	302
Mac	32		95	130	75		332
Total	**277**	**494**	**115**	**169**	**75**	**258**	**1388**

Key Insights:

1. How Efficient Were We This Week?

Line efficiency bounced between 58% and 70%, showing room for improvement on slower days. Maintaining stable productivity starts with keeping this line consistently above target.

2. Total Downtime (In Mins)
1388 Minutes Lost in Just 6 Days

That's over 23 hours of production time. August 30 and September 2 saw the highest losses. Digging into those days helps prevent repeat slowdowns.

3. Average Downtime Per Day (In Mins)
Small Days, Big Delays

Daily downtime averaged 22.75 minutes, with dips and peaks hinting at inconsistent flow. Targeting bottlenecks could smooth these curves.

4. Total Batches Produced

38 Batches, But Not All Were Smooth

While production stayed steady, matching output with efficiency is the next goal. Volume without speed leads to backlog and downtime.

5. Downtime by Factor (Bar Chart)

"Who's on Top… of Bringing Us DOWN?"

The main culprits:

- Machine adjustment – 332 mins

- Machine failure – 254 mins

- Inventory shortage – 225 mins

Targeting these 3 could cut over 60% of total downtime.

6. Preventable vs Non-Preventable Downtime

Preventable Downtime = 56%

That's time we can win back through better training, SOPs, or clearer workflows. It's not just machines, people matter too.

7. Downtime by Product

Held Up by... What We MAKE?

CO-600 is responsible for nearly 500 minutes of downtime, followed by CO-2L and RB-600. Could complexity or setup time be slowing these lines?

8. Daily Downtime Trend (Line Area Chart)

6 Days, 6 Clues

The downtime trend shows a double peak pattern, with Sept 2 being the highest. Can we predict and prevent spikes like these?

9. Operator vs Product Downtime Matrix

Who's Facing the Heat?

Charlie and Dee handled the most downtime-heavy batches, especially with CO-600. Balancing workloads or adding targeted support may reduce strain.