

Manufacturing Downtime Analysis



Emerson X DAPH National Data Challenge 2025

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Average Production Time

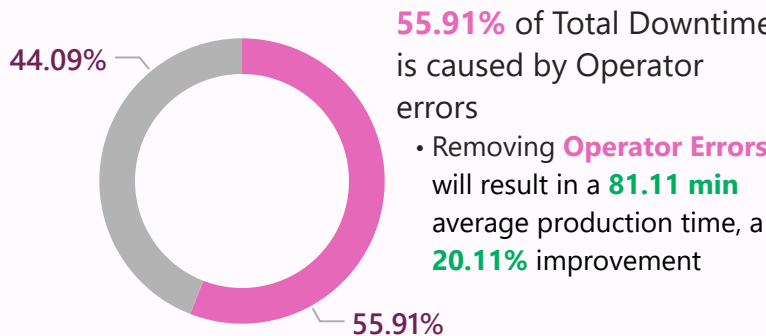
101.53

Production Efficiency

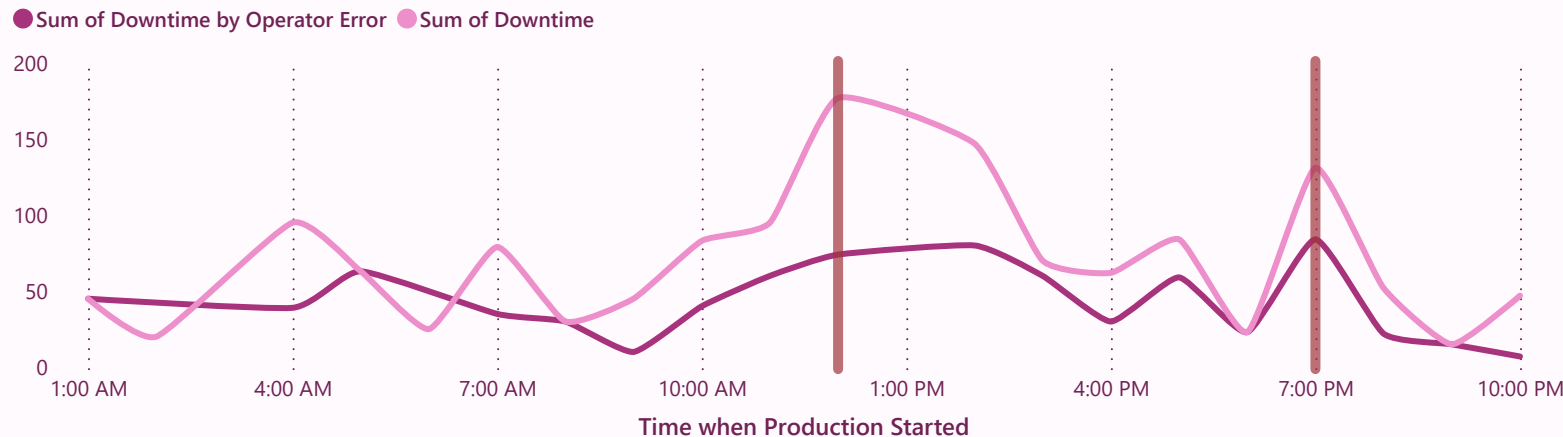
65.34%



Downtime caused by **Operator Errors** vs **Machine Errors**

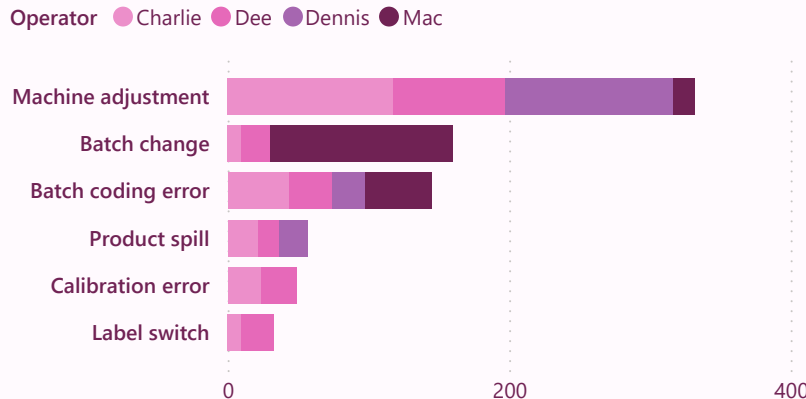


Downtime per hour **peaks** at **noon (12:00pm)** and at **plant closing hours (7:00pm)**. Similar trend for **Downtime caused by Operator Errors**



Downtime caused by **Operator per Error**

- Machine adjustment** is the biggest contributor to downtime
- Mac** has a large contribution to **batch change** error



RB-600 and **LE-600** has high **Operator-caused downtime** per product

