



PRACTICES

## IMPROVE OEE WITH OPTIMISED LINE BALANCE & CONTROL

Optimise line performance and achieve Perfect Flow through the effective use of automation & control philosophies.

# LINE BALANCE OPTIMISATION

A proven methodology, Line Balance Optimisation enables perfect flow for accumulation conveyors:



## Perfect Flow Model

### Normal Running:

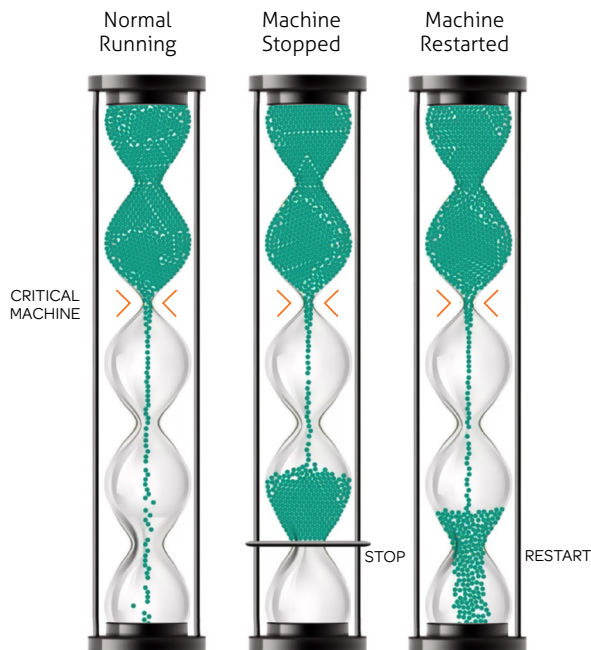
- The critical machine runs at its rated speed and determines the line speed.
- Pre-critical machine, the line is full\*.
- Post-critical machine the line is empty\*.

### Machine Stopped:

- Equipment stops and product backs up.
- Other equipment stops due to product blocking outfeed.
- Critical machine eventually stops.

### Machine Restarted:

- Affected machine restarts at maximum speed.
- All other equipment also restarts at max speed.
- Critical machine restarts (potentially instantly).
- Conveyors empty quickly.
- Revert to nominal speed and line recovers.



Are you struggling with bottleneck machine speed, under-utilized conveyors, and inefficient stops and starts?

Ineffective production line balance and control is often the most overlooked OEE improvement opportunity, despite being easy to achieve.

Proven Line Balance Optimisation principles are simple to apply and deliver quick-wins with sustainable improvements, most often requiring no capital expenditure. Building from an initial audit using the '5 Levels of Control' methodology, our operational experts will work with your team to achieve Perfect Flow.

## Line Balance Optimisation enables perfect flow:

- ✓ All equipment on the line is balanced and controlled automatically, without manual intervention.
- ✓ Speed of the line matches critical machine speed under normal conditions.
- ✓ Minor stops on upstream or downstream machines do not affect the critical machine.
- ✓ The critical machine is minimally affected by extended stops.
- ✓ The critical machine is restarted almost instantaneously after a build back situation.

Our proven process identifies the gap between your current state and these perfect conditions.

Traditional V-Curve production with start-stop processes requiring human interaction, are ideal for Line Balance Optimisation methodology implementations.

## CONTACT

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