

Apps Ecosystem

WIP Analyzer



Reduce Work in Progress, Boost Production Flow.

Overview

Balancing the WIP is one of the main concerns of production engineers, as this balance ensures both responsiveness to customer requests and a buffer from unforeseen issues. WIP info is very dynamic – lot movements occurring throughout the day mean that a snapshot at any point of time quickly becomes outdated.

WIP Analyzer brings clarity to material movements in your shop floor. From up-to-date snapshots of the WIP's status to powerful visualizations and metrics on its evolution, control the material levels for your production and uncover short-lived capacity constraints.

Key Features

- **Regular Snapshots:** Regularly generated snapshots capturing quantities present at each step of the flow, as well as their regular, on hold or rework states.
- **Tailored Production Overviews:** A tailored factory level overview, where the WIP states and metrics best fitted for the user's scenario can be selected.
- **Trends:** WIP level evolution throughout the time visible throughout each flow and step.
- **Wait Time Causes:** Drill-down on the biggest queuing times for a certain day, week or shift.
- **Product Heatmaps:** Visually track slow moving WIP for critical products on an hourly basis.
- **Key Metrics:** KPIs, such as the Daily Going Rate and the Mean WIP Range, can summarize production status to the user.

Benefits

- **Big Picture Overview:** A factory-wide visualization of current WIP gives production engineers key insights needed to ensure production stays on track.
- **Cycle Time Offenders:** Drilling down into waiting times allows production engineers to identify why production order cycle times are longer than expected.
- **Uncover Hidden Constraints:** Visualizing WIP trends and evolutions can uncover potential capacity problems that might be affecting operations.

Minimum Requirements

Workload	vCPU	Clock Speed	Memory	Disk Storage	Version
MES	50	2+GHz	128GB	*	> 10.2.5
Connect IoT	1	*	64GB	*	> 10.2.5
Resource Monitor	6	2+GHz	8GB	100GB	1.0

*Please check this documentation for further information on optional volumes configuration:

<https://help.criticalmanufacturing.com/systemrequirements/application-layer/applicationlayercontainers/#persistent-storage>

Supported Browsers

Operating System	Supported browsers
Android 6.0 or later	Google Chrome
Linux ARM	Chromium
Microsoft Windows 8 / 8.1 / 10 / 11 (32 or 64-bit editions)	Google Chrome / Microsoft Edge
macOS	Google Chrome