

INSIGHTS

How to find bottlenecks before you buy more capacity

When manufacturers miss their throughput target, most will throw more labor, equipment, or line speed at the problem. In reality, that tends to just move the bottleneck—instead of actually fixing it. The trouble is: static reports and averages can't show you how a production system actually behaves minute to minute. Minitab combines real-time operating data with simulation so you can find the actual constraint, test fixes safely, and make smarter capacity calls before changing anything on the floor.

Learn more



See our impact in manufacturing



COMMON PAIN POINTS

- 1 Bottlenecks hidden by averages and local metrics
- 2 Capacity decisions made without seeing downstream impact
- 3 Staffing and schedule changes create new constraints elsewhere
- 4 Capital requests are approved before existing capacity is fully understood



How Fiat Chrysler increased revenue by \$1M per day with Simul8 by Minitab

When Fiat Chrysler's Brampton Assembly plant was tasked with ramping production up by 39 units a day ahead of a new model launch, the margin for error was thin. Instead of testing costly physical changes on the line, their simulation team built a digital twin of the plant in Simul8 and used real factory floor data to pinpoint exactly which two stations were creating bottlenecks. They ran trials until the path to target was clear, and after fixing the bottlenecks they had \$1M in daily revenue back on the table.

MINITAB'S IMPACT

- 1 Built a digital twin of the Brampton plant with live data
- 2 Identified and ranked bottleneck lines so the team could prioritize fixes
- 3 Ran iterative trials to validate improvements before touching the physical line



\$1M

in additional daily revenue generated without increasing factory costs.

39 extra units

produced per day after simulation-driven optimization.

4 process bottlenecks

identified and removed using digital simulation in Minitab.

[Read the case study](#) 

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Whether you're an enterprise manufacturer or a one-location shop, we can help you monitor your factory and get full value from your data.

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