

INSIGHTS

# How to stabilize process quality before defects scale

In manufacturing, variation rarely announces itself all at once. It shows up first as small shifts in measurements, inconsistent outputs, rework, scrap, and growing pressure on inspectors and engineers. But when measurement data is collected manually or reviewed too late, teams lose the chance to respond before defects spread. Minitab helps manufacturers move from reactive quality management to live process control by connecting shop floor data, tracking stability in real time, and giving teams earlier warning when performance begins to drift.

[Learn more](#) 

[See our impact in manufacturing](#) 

## COMMON PAIN POINTS

- 1 Variation is detected too late
- 2 Data trapped in disconnected systems or spreadsheets
- 3 Capability and quality reporting takes too much manual effort
- 4 Teams rely on pass/fail checks instead of understanding process behavior

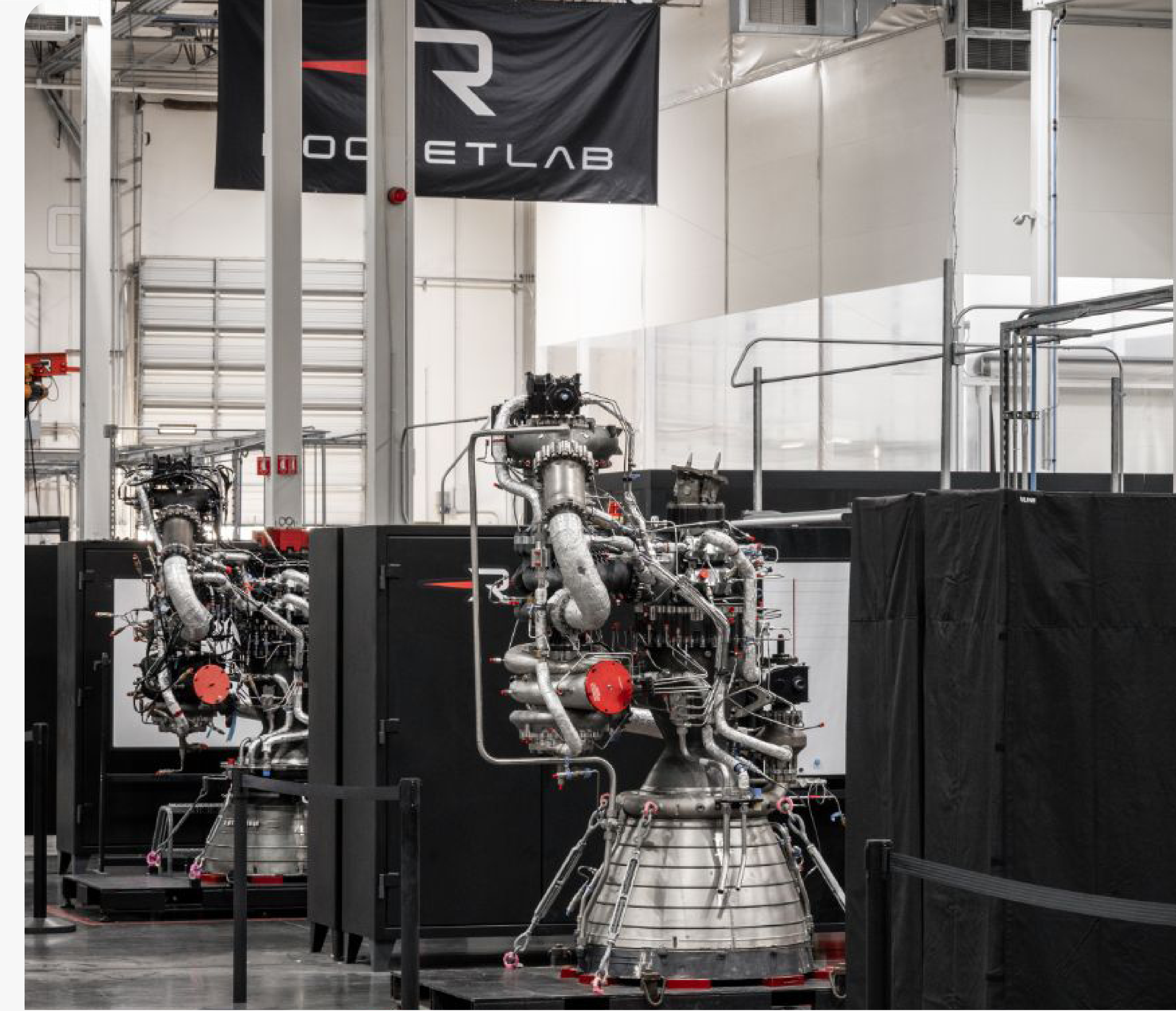


# How Tech Manufacturing boosted machine utilization by 15% with DataXchange

Tech Manufacturing runs a demanding aerospace operation. They're creating low volume, high mix aerospace parts—and some of them take over 100 hours to make. Their target was 65% in-cycle time, but without real floor visibility, that number was hard to chase. They came to DataXchange for simple, affordable machine monitoring. What they got was a platform they've grown with for over a decade, using real-time data to cut non-value-added time, lower cost per part, and win new business.

## MINITAB'S IMPACT

- 1 Monitored legacy and modern CNC equipment in one platform.
- 2 Real-time visibility into machine status and downtime for the entire org.
- 3 Tech Manufacturing offered transparent optional auditing as a customer add-on.



**15%** increase in machine utilization.

**65%** in-cycle target hit without adding new machinery.

**10+ years** of use on 14 machines at two license levels.

[Read the case study](#) 

# TALK TO US



## Build your next breakthrough

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.

[Explore our services](#) 

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global Minitab users across  
all industries.

**+30K**  
companies powered by  
insights in Minitab.

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years of trust in  
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