6 Manufacturing Decisions that Should Never Rely on Gut Feel

By Ilya Dynkin
VP of Sales
Global Shop Solutions

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Gut Feel Worked Until It Didn't

For decades, manufacturing success was built on experience. Shop owners trusted their instincts. Plant managers relied on what they could see. Schedulers knew which machines were "usually" available and which customers "always" called late.

That approach worked when operations were simpler, margins were wider and disruption was the exception.

That world is gone.

Today's manufacturing environment moves faster, changes more often and punishes bad assumptions quickly. Materials fluctuate. Labor is tight. Customers expect accuracy, not excuses. And the cost of a wrong decision compounds across scheduling, inventory, delivery and cash flow.

The manufacturers pulling ahead aren't smarter or luckier. They're making fewer decisions based on gut feel and more decisions based on visibility, context and trusted data.

The shift toward autonomous and adaptive operations isn't about machines running themselves. It's about eliminating guesswork from the decisions that matter most.

Below are six decisions manufacturers still make every day that should never rely on gut feel again.

1 What Job Should Run Next

In many shops, dispatch decisions still come down to whiteboards, spreadsheets or whoever shouts the loudest. A hot job jumps the line. A machine sits idle waiting for clarification. A rush order disrupts everything behind it.

The problem isn't urgency. It's lack of visibility.

When scheduling decisions are made without real-time insight into machine availability, labor capacity, material status and job priority, every change creates unintended consequences.

Advanced scheduling applications tied directly to shop floor control replace static plans with live schedules. As labor clocks in, machines report status and materials are issued, the schedule adjusts based on reality, not assumptions.

Adaptive operations don't guess what should run next. They know. The result is fewer surprises, higher on-time delivery and less stress for everyone involved.

2 When to Buy Material and How Much

Overbuying ties up cash. Underbuying stops production. Guessing feels faster until it isn't.

Many manufacturers still rely on historical usage and buyer experience to decide when to place orders. That approach breaks down when demand shifts or supplier lead times change.

Inventory management applications connected to automated purchasing replace reactive buying with demand-driven decisions. Material requirements planning evaluates open jobs, forecasts, on-hand inventory and supplier performance at the same time.

An aerospace manufacturer in California used to manage raw material with spreadsheets and gut feel. By tying inventory levels directly to live production demand and automated purchasing rules, they reduced excess stock while improving on-time delivery. The buyers didn't change. The data did.

3 When a Machine Actually Needs Maintenance

Preventive maintenance based on fixed schedules is safer than no maintenance at all, but it still leaves value on the table.

Machines don't fail on calendars. They fail based on usage, load and conditions. Relying on gut feel or arbitrary intervals leads to unnecessary downtime or costly breakdowns.

Maintenance management applications connected to production activity allow manufacturers to base maintenance decisions on actual run time, performance trends and historical issues. Work orders, parts usage and downtime history provide context instead of guesswork.

This isn't about chasing perfect prediction. It's about replacing guesswork with informed judgment and reducing the number of decisions made too late.

4 Whether a Job is Actually Profitable

Quoting and job costing based on averages and assumptions is risky in a low-margin environment. Yet many manufacturers don't discover profitability issues until long after the job ships.

When actual labor, material and overhead data aren't visible during production, decisions about pricing, process improvement and customer mix become reactive.

Job costing applications tied directly to labor reporting, material usage and overhead allocation provide real-time margin visibility. Instead of postmortems, manufacturers can identify problems while there's still time to act.

A Midwest job shop discovered that several long-standing customers were quietly eroding profit through constant changes and short runs. With accurate job costing tied to estimating, leadership adjusted pricing and protected margin without damaging relationships.

Profitability should never be a surprise.

5 How to Respond When Something Goes Wrong

Disruptions happen. Late material. Down machines. Labor shortages.

Gut reactions focus on putting out the fire. Data-driven responses focus on minimizing impact.

Real-time production tracking allows manufacturers to see issues as they emerge and evaluate options before committing to changes. When jobs, resources and due dates are visible together, decisions are made with context.

When visibility spans the entire operation, teams spend less time putting out fires and more time preventing them.

6 Where to Focus Improvement Efforts

Continuous improvement fails when decisions are driven by anecdotes instead of evidence.

Dashboards and KPI applications give leadership a consistent view of throughput, utilization, margin, delivery and quality.

Instead of chasing symptoms, manufacturers can target root causes.

This clarity allows improvement initiatives to scale instead of stall.

What This Has to Do with ERP (Without Making it About Software)

Eliminating gut feel doesn't require chasing the latest technology trend. It requires a reliable operational backbone.

Adaptive decision-making depends on accurate, connected data across quoting, scheduling, purchasing, production, inventory and accounting.

ERP doesn't make decisions for manufacturers. It gives them the context to make better ones faster and with confidence.

The manufacturers leading this shift aren't trying to automate everything. They're trying to see clearly, respond intelligently and stop guessing.

Final Thought

Experience still matters in manufacturing. But experience without visibility is no longer enough.

The future belongs to manufacturers who replace gut feel with insight, react less and anticipate more to build operations that adapt as conditions change.

The goal isn't autonomous factories.

It's confident decisions.

Want to see how manufacturers are building smarter, more adaptive operations without adding complexity?

Explore resources from Global Shop Solutions to learn how integrated visibility supports better decisions across the shop floor and beyond.

ABOUT THE AUTHOR

Ilya Dynkin is the Vice President of Sales at Global Shop Solutions, where he has spent over 25 years helping manufacturers improve their operations through ERP software. He focuses on simplifying their businesses and helping them be better.

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