seekr | SOLUTION BRIEF

Seekr for Manufacturing

Close the gap between deploying AI on the floor and proving it performs safely

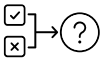
Manufacturers are deploying AI into quality inspection, predictive maintenance, supply chain optimization, production scheduling, and regulatory compliance. The pressure to reduce downtime, improve yield, and meet delivery commitments is real. So is the pressure to prove that every AI-assisted decision meets the safety, quality, and regulatory standards your customers and auditors require.

Every one of these workflows produces decisions that someone will eventually examine. A quality auditor, a customer conducting a supplier assessment, an OSHA inspector, a product liability attorney. When that moment arrives, the organization needs more than confidence in its technology. It needs evidence.

Seekr® is trusted AI for the decisions you have to defend. Certify a model, take on a workload your team dreads, or bring AI to data you can't move. Every output is explainable and holds up when someone asks how you got there.

The AI accountability gap in manufacturing

AI is advancing faster than your ability to trust it with decisions that carry real weight. Under pressure to deploy, the gap between what AI can do and what you can answer for leaves you without good options: stall progress, or move ahead without knowing you can defend the results.



Quality decisions without defensible evidence.

AI models classify defects, grade output, and make pass/fail determinations at production speed, but when a customer rejects a shipment or an auditor examines your inspection process, there's often no structured record of what influenced the decision.

Maintenance opacity.

Teams adopt AI for predictive maintenance, but the models produce recommendations without traceable reasoning. When a safety investigator asks why a machine was kept in service or why a repair was deferred, the maintenance rationale is difficult to reproduce.

Proprietary process data at risk.

Manufacturing AI touches process parameters, formulations, and production recipes that represent years of competitive advantage. Models running on sensitive operational data require deployment options that keep proprietary information within controlled environments.

Governance treated as a one-time approval.

Production conditions change as materials vary, equipment ages, supplier quality shifts, and customer specifications evolve. A model approved last quarter may no longer meet the criteria it was approved against, and most manufacturers have no mechanism to detect or document that shift.

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How Seekr works for manufacturing

Seekr closes the gap between deploying AI on the floor and proving it performs safely. The platform spans the full AI lifecycle, from data preparation through production monitoring, and produces the evidence trail manufacturing teams need at every stage.

Prove why every decision holds up

You can't use AI for decisions you'll have to defend if you can't show your work. Explainability starts before the model runs. You set how much latitude it has, how deterministic each step is, and where a human stays in the loop. From there, you can watch every step, tool call, and output as it happens, and trace the reasoning and provenance behind any output across the model, its tools, and its data. When an output is wrong, you can challenge it, correct it, and confirm the correction.

Keep your data, your models, and your control

Process data, formulations, and production recipes are your competitive advantage, and they can't leave your environment to train someone else's model. Seekr lets you build domain-specific models on your own data and run them where you need them: in the cloud, on premises, or air gapped. You own the model, your knowledge stays yours, and nothing rides on a frontier lab's roadmap or fine print.

Get decision-ready results without runaway cost

Seekr helps you right-size continuously, matching the right model to each task on your own data and criteria, and providing evidence to defend every choice on cost and performance. You use the least resource-intensive model proven to meet the requirement and escalate to a more capable model when the work demands it, so cost stays predictable as usage scales.

The products

seekrFlow™

SeekrFlow™ is the platform. It handles data preparation, model fine-tuning, agentic workflow orchestration, and production monitoring in a single environment. For manufacturing, this means you prepare training data from sensor networks, quality inspection systems, MES and ERP records, and maintenance logs with full lineage. You fine-tune domain-specific models on your operational data. You deploy agents that execute multi-step quality, maintenance, and compliance workflows under your oversight. And you monitor everything from one control point.

seekrGuard

SeekrGuard™ lets quality, operations, and compliance teams evaluate AI models using their own data, scenarios, and risk criteria as the benchmark. You compare candidate models side by side, define product-specific and process-specific risk profiles, and score for accuracy, safety margins, and failure modes before any model reaches a production decision. As models evolve, SeekrGuard supports repeatable testing against the same criteria, creating a documented record of performance, risk, and change over time.

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What your institution gets

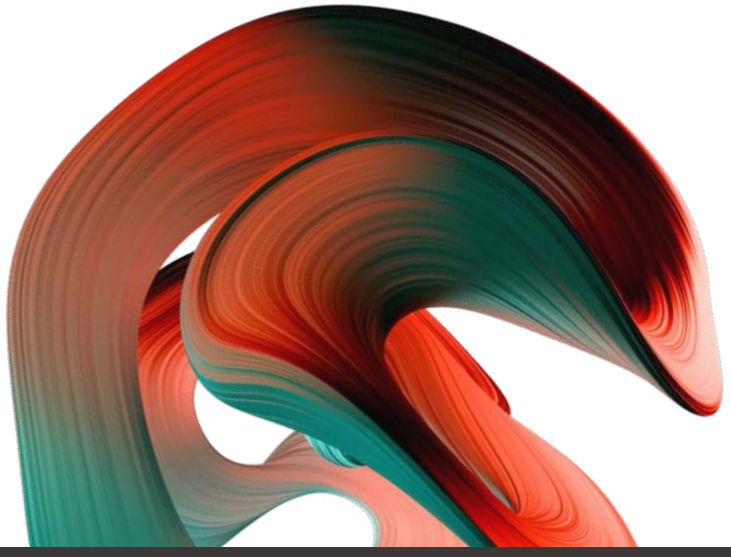
- **Explainability at the architecture level.**
  Every output carries an influence score and a source trail that traces the answer back to the data, the reasoning, and the model version that produced it. The explainability is built into the architecture at every stage of the workflow.

- **Evidence that survives audit.**
  When a customer auditor, a quality inspector, or a safety investigator asks how a decision was reached, the evidence is already assembled. No reconstruction, no reverse engineering, no plausible narratives.

- **Continuous governance.**
  Drift detection, ongoing re-evaluation, and a documented performance record that reflects what the model is doing now, not what it did when you first approved it.

- **Sovereignty over your data and models.**
  Own your models, and bring them to your data instead of sending your data to a third-party. No vendor lock-in, no black-box constraints, no dependency on a frontier lab's roadmap or pricing changes.

- **Deployment where your data lives.**
  Cloud, on premises, or air gapped. Your deployment meets the security and data residency requirements your operations and customers demand.



Use cases

Quality inspection and defect classification.
Deploy AI-assisted visual inspection and defect detection that produces the evidence trail your quality auditors and customers require for every pass/fail determination.

Predictive maintenance.
Analyze sensor data, vibration patterns, and maintenance histories to prioritize repairs with traceable, defensible recommendations that satisfy safety and operational reviews.

Supply chain risk assessment.
Apply domain-specific models to supplier evaluation, demand forecasting, and logistics optimization with explainable outputs that support procurement and planning decisions.

Production scheduling and optimization.
Optimize production sequencing, changeover planning, and resource allocation with AI that documents the reasoning behind every scheduling recommendation.

Process parameter optimization.
Fine-tune process settings for yield, energy consumption, and material usage with models trained on your proprietary production data, running in your environment.

Regulatory compliance and reporting.
Automate compliance workflows for OSHA, EPA, FDA, or industry-specific standards with full traceability at every step.

Product traceability and recall support.
Assemble traceable evidence trails across production batches, material lots, and quality records for recall investigations or customer disputes.

Document extraction and work order processing.
Turn high-volume unstructured documents (engineering drawings, specifications, work orders, inspection reports) into structured, searchable data with full processing lineage.

Energy and resource management.
Monitor and optimize energy consumption, water usage, and waste generation across facilities with explainable outputs that support sustainability reporting.

Model drift detection and re-evaluation.
Continuously monitor production models for shifts in accuracy or risk posture as materials, equipment, and operating conditions change, and retest against original approval criteria.

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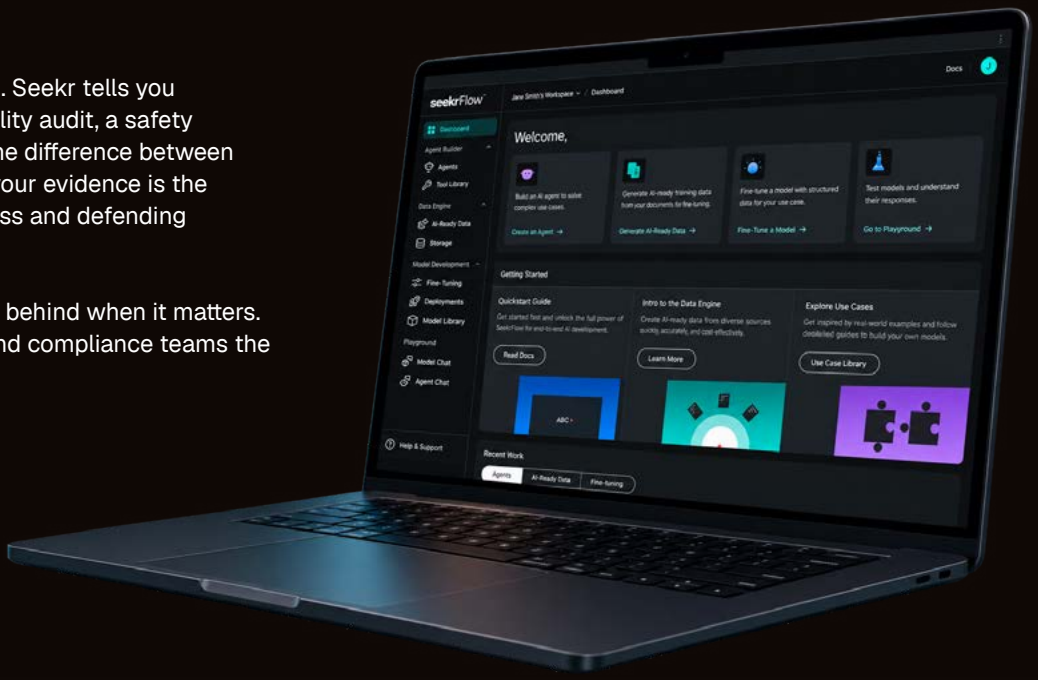
Why Seekr

Observability tells you what happened. Seekr tells you what influenced the outcome. In a quality audit, a safety investigation, or a customer dispute, the difference between showing your workflow and showing your evidence is the difference between describing a process and defending a decision.

Manufacturers need AI they can stand behind when it matters. Seekr gives your quality, operations, and compliance teams the evidence to do exactly that.



Next steps

Book a 30-minute technical briefing to see how Seekr works for manufacturing quality, operations, and compliance. No commitment required.

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