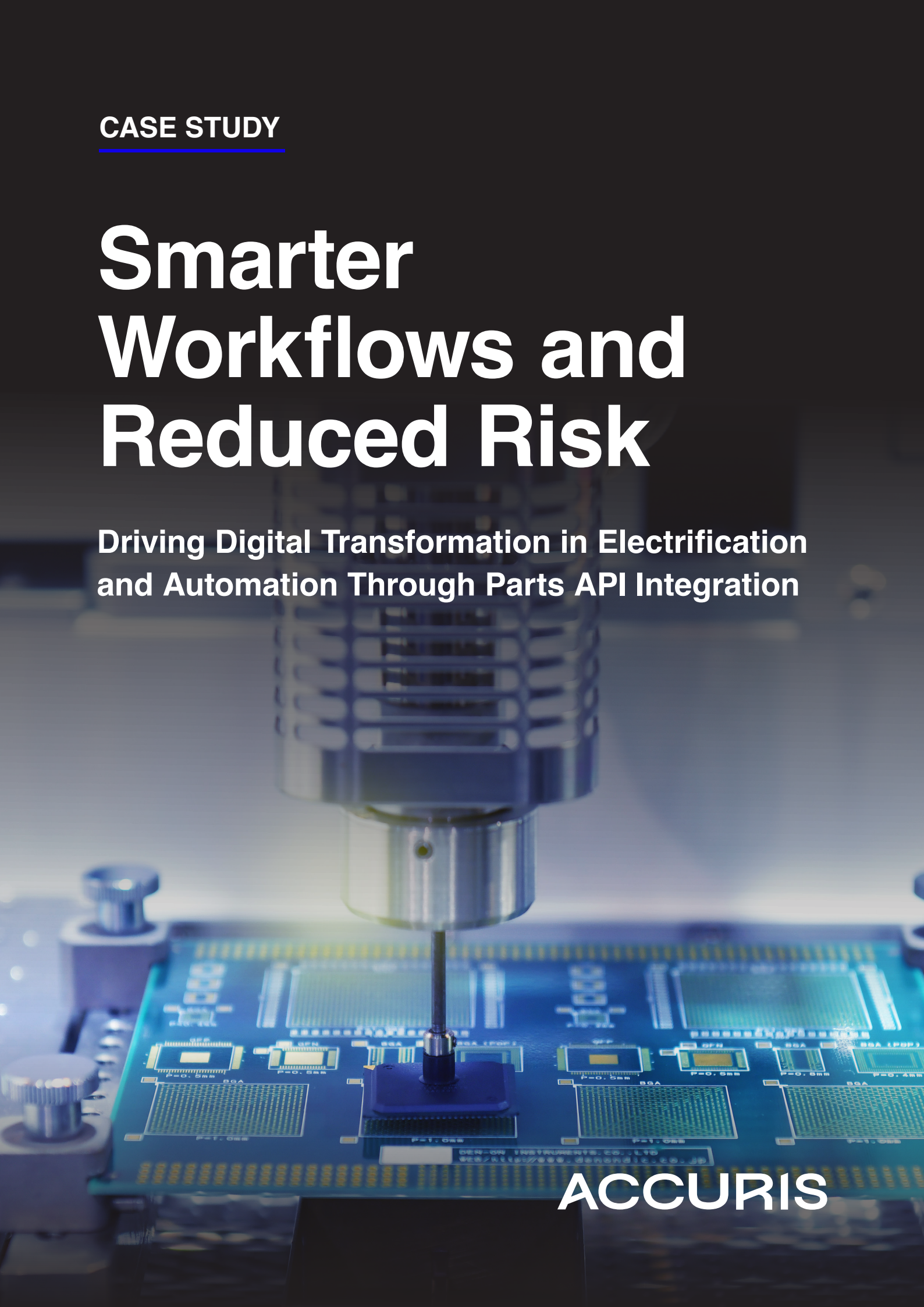
CASE STUDY

Smarter Workflows and Reduced Risk

Driving Digital Transformation in Electrification and Automation Through Parts API Integration



ACCURIS

Empowering Engineering Teams with Integrated Component Intelligence

A global leader in electrification and automation technologies faced increasing challenges in managing obsolescence, regulatory compliance, and supply chain complexity. To address these challenges, the organization integrated the Accuris Parts API directly into its PLM systems, streamlining access to real-time component data and enabling engineering teams to make faster, more informed decisions throughout the product lifecycle.

Pain Points

- Manual obsolescence tracking
- Disconnected systems and data silos
- Duplicate parts driving up costs
- Limited visibility into compliance status

Strategic Gains

- Impact analysis in seconds, not days
- Smarter design and sourcing decisions
- Lower inventory and maintenance costs
- Proactive response to obsolescence & compliance

> ***The value of having that real-time obsolescence, compliance, and sourcing data directly inside our PLM system has been transformative. We've moved from reactive to proactive, which saves us time, resources, and stress.***

– Business Process Manager, Global Electrification and Automation Firm

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The Challenge: From Manual Frustration to Workflow Disruption

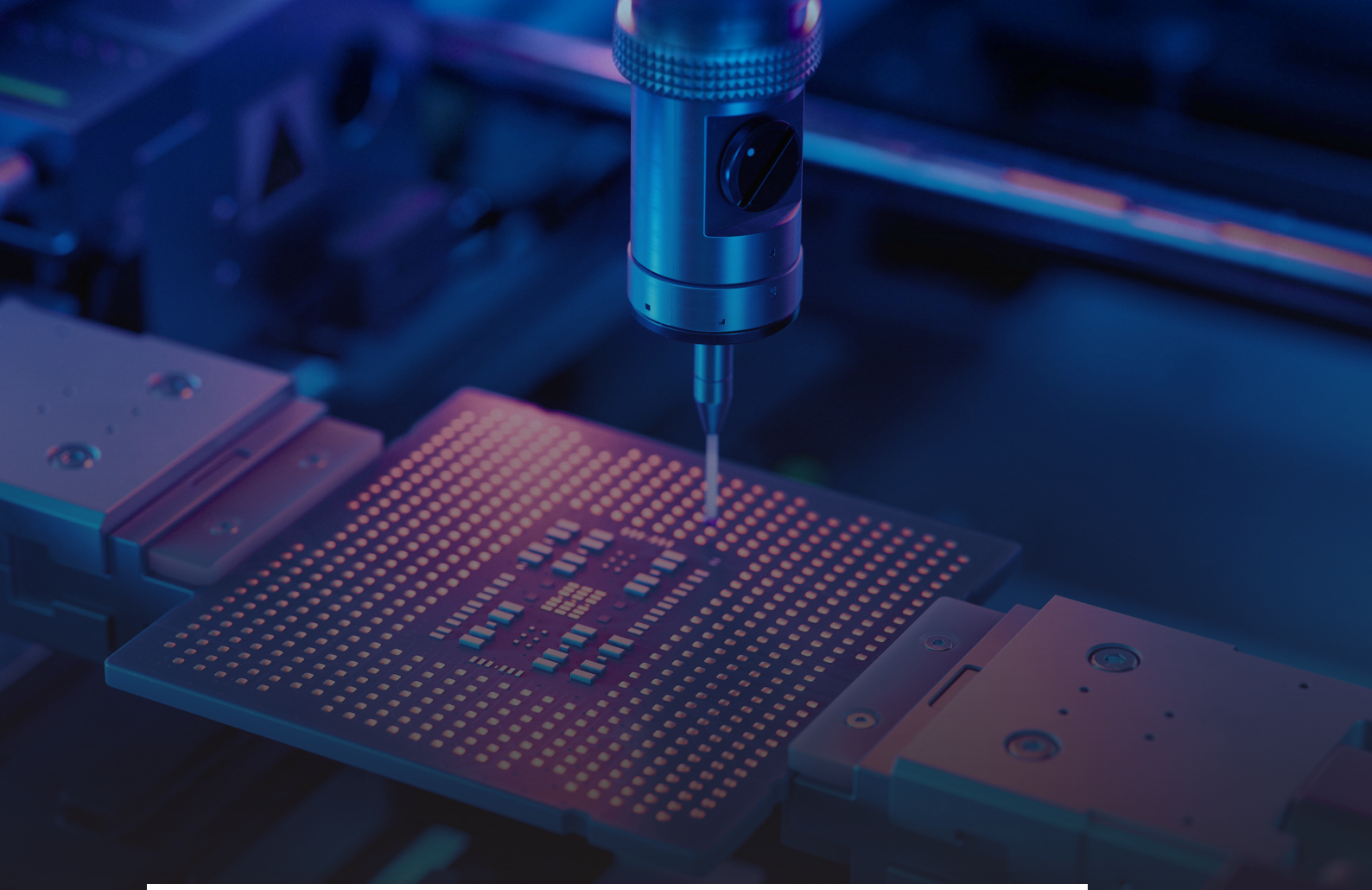
Operating in a complex industrial ecosystem that demands relentless innovation and leaves thin margins for error, this leading manufacturer manages extensive global portfolios that rely on many components from a dynamic supply chain.

Engineering, procurement, and compliance teams were pressured by the need for product reliability, regulatory compliance, and adapting to technological changes. A constant challenge was managing component obsolescence, which could halt production and lead to costly redesigns and customer dissatisfaction.

Teams dealt with siloed, manual workflows. Engineers and sourcing specialists relied on spreadsheets and disparate vendor portals, resulting in delays in identifying at-risk components. Crucial insights about end-of-life (EOL) parts or available replacements were scattered across systems, forcing teams to waste time locating data. Maintaining regulatory compliance compounded the issue.

With evolving global standards, the company needed to ensure compliance for every part. However, accessing updated documentation required navigating multiple tools or contacting suppliers, leading to delays, risks in product development, and decreased engineering agility.

This uncertainty highlighted the need for real-time parts intelligence, allowing teams to anticipate issues instead of reacting.



The Goals

1. **Embed real-time parts intelligence** directly into PLM workflows to reduce friction in both engineering and procurement processes.

2. **Proactively manage component obsolescence** by replacing manual tracking with automated alerts and embedded lifecycle data.

3. **Improve traceability and regulatory compliance** with consistently updated material content and certification insights.

4. **Accelerate product development cycles** by enabling faster, more informed decision-making and seamless part substitutions.

The Solution: Accuris Parts API Integrated into PTC Windchill

The company integrated Accuris Parts API into PTC Windchill, its enterprise PLM platform. This allowed engineers and sourcing teams to access critical part insights, such as lifecycle status, RoHS/REACH compliance, and cross-referencing, without leaving their design environment.

Automated XML Obsolescence Alerts

Accuris Parts API Integration provides the organization with automated obsolescence alerts in its PLM environment, notifying engineering and sourcing teams in real-time when components near or reach end-of-life (EOL). This proactive approach helps them avoid costly delays by enabling timely evaluations. Lifecycle updates also reduce reliance on fragmented data and manual tracking.

Searchable Alternate Components

Engineers can quickly identify alternative components via form-fit-function (FFF) equivalency in Windchill, leveraging Accuris' cross-referencing capabilities. This feature enables research within the design environment, saving time on replacing obsolete parts and ensuring compatibility. It maintains product performance, speeds up decision-making, and keeps development on schedule.

Embedded Compliance Data

Accuris provides immediate access to updated RoHS, REACH, and environmental compliance data. This integration simplifies audits, improves traceability, and ensures all parts meet global standards, reducing risks and streamlining reporting.

Improved Cross-Department Collaboration

The company consolidates critical component data in its PLM system, enhancing collaboration among engineering, procurement, and compliance teams. This shared data set reduces miscommunication and rework. Integration aligns stakeholders on part selection and risk assessments, enhancing efficiency and reinforcing their commitment to quality and innovation.

The Results: Turning Complexity Into Competitive Advantage

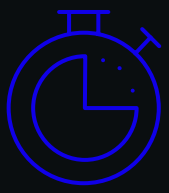
With Accuris Parts API Integration, the company transformed its approach to component data management by embedding real-time intelligence directly into its PLM system.

Automated alerts inform teams of lifecycle changes, such as EOL events and PCNs, enabling proactive action before risks escalate. Engineers can quickly identify FFF replacements, streamlining alternate evaluations and reducing design delays. Embedded compliance data on RoHS, REACH, and export regulations ensures that components meet global standards without the need for lengthy manual checks.

By centralizing this information within existing workflows, they enhanced cross-functional collaboration, aligning engineering, sourcing, and compliance teams around a single source of truth and accelerating more confident, data-driven decision-making across the product lifecycle.

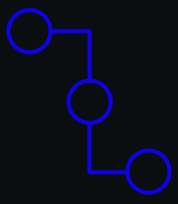
From Reactive to Resilient:
The Key Outcomes

By integrating Parts API, the company achieved measurable improvements across its engineering and sourcing workflows, resulting in faster decisions, stronger compliance, and reduced risk.

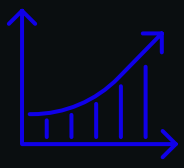


Reduction in obsolescence response time:
Automated alerts and embedded lifecycle data help teams act on EOL risks early, preventing disruptions and enabling proactive redesigns.

Faster BOM validation and sourcing:
Engineers verify part availability and compliance within PLM, cutting research time and speeding up development.



Improved compliance traceability:
Real-time access to RoHS, REACH, and export data ensures proper documentation, streamlines audits, and reduces regulatory risks.



Higher design confidence: Accurate, embedded component data reduces rework and ensures parts meet technical and regulatory standards for better product quality.

Powering Proactive Engineering

This industrial leader recognized that manual, reactive approaches to managing component data and obsolescence were no longer effective in a fast-paced, innovation-driven environment.

By integrating Accuris Parts API into its PLM ecosystem, they shifted to a proactive, data-driven strategy, embedding real-time lifecycle insights, compliance data, and sourcing intelligence directly into design workflows.

This transformation has strengthened supply chain resilience, improved design confidence, and reinforced the company's position as a forward-looking technology leader.

Streamline your workflows with Accuris Parts API Integration.

Discover how Accuris Parts API Integration can streamline your engineering workflows, enhance compliance visibility, and reduce risk across the product lifecycle. Book a free consultation today to learn how you can embed real-time component intelligence directly into PLM systems to accelerate smarter, more confident decisions.

Talk to an expert

Visit us at **Accuristech.com**