

Your 2025 Guide to Industrial Knowledge Management Tools and Best Practices



Written by Korra

The 2025 Guide To Industrial Knowledge Management Tools and Best Practices

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Introduction: The New Era of Knowledge Management

In 2025, industrial organizations face unprecedented challenges and opportunities in knowledge management (KM). As operational complexity grows and competition intensifies, effective KM has become central to sustaining innovation, reducing downtime, and optimizing decision-making. This guide explores leading tools and practices for industrial KM, focusing on strategies that unlock institutional knowledge, enhance operational efficiency, and enable Industry 4.0 transformation.

The Importance of Knowledge Management in Industrial Operations

In industrial environments, the inability to effectively capture, share, and utilize institutional knowledge leads to inefficiencies, costly errors, and bottlenecks in workflows. Knowledge management tools mitigate these challenges by digitizing and centralizing knowledge assets, ensuring instant access to expertise, and empowering employees to make data-driven decisions. Effective KM transforms knowledge from a static resource into a dynamic driver of productivity and innovation.

“Knowledge management is more crucial than ever. Hybrid work requires reliable access to expertise and knowledge resources.” - Gartner



Key Challenges in Industrial Knowledge Management

- **Scattered Information Silos:** Operational knowledge often resides in fragmented systems or within the minds of experienced workers.
- **Lack of Contextual Insights:** Teams struggle to retrieve actionable, contextual information from vast data repositories
- **Scalability Issues:** Traditional KM tools fail to adapt to the scale and complexity of industrial data.
- **AI Challenges:** With AI being central to effective knowledge management in an increasingly digital environment, specific issues such as hallucinations threaten the viability of such solutions



Best Practice #1: Digitize Institutional Knowledge

Digitizing legacy systems and scattered knowledge is critical for building a resilient knowledge infrastructure. Thanks to modern tools with advanced data ingestion capabilities, data can be effectively transformed from unstructured data, emails, and documents into a unified, searchable repository. This means the entirety of an organization's internal knowledge base can be leveraged to provide the most accurate answers possible — with no gaps or blind spots.

“Digitization is fueling innovation in the industrial manufacturing production process, enabling firms to achieve high-quality standards without sacrificing process time.” — BCG



Best Practice #2: Enable AI-Powered Discovery and Insights

AI-enhanced KM tools unlock value by delivering precise, contextual insights at scale. For example, these tools can leverage advanced AI to process vast amounts of data, enabling predictive analytics, case resolution recommendations, and proactive maintenance insights. This ensures that employees spend less time searching for answers and more time solving problems.

“Generative AI has revealed applications’ potential to operate intelligently, which has created the expectation for intelligent applications.

Intelligent applications adapt to their user’s context and intent, thereby reducing digital friction.”

— Gartner’s Top Trends Impacting Infrastructure and Operations for 2025



Best Practice #3: Centralize and Standardize Knowledge Assets

A centralized knowledge repository reduces duplication, eliminates redundancies, and ensures consistency across teams. By breaking down silos and standardizing knowledge across formats, it enables seamless integration of information, allowing disparate pieces of knowledge to complement one another.

This holistic approach provides a more complete perspective and unlocks deeper, more actionable insights. With modern knowledge management solutions, organizations can integrate data from various sources — ERP systems, manuals, tickets, and IoT sensors — into a single interface. This holistic approach enables streamlined workflows and informed decision-making.



Best Practice #4: **Focus on Privacy and Scalability**

Data security and scalability are paramount in industrial knowledge management. Organizations need to ensure access management is in place for various levels of internal knowledge, while guarding against access to sensitive information from unauthorized external parties.

Look for a knowledge management platform that offers robust privacy measures such as end-to-end encryption and customizable access controls. Scalability ensures that the platform grows alongside your organization, supporting multi-site operations and the increasing complexity of industrial data ecosystems.



Best Practice #5: Measure ROI on Knowledge Management Initiatives

Organizations must quantify the impact of KM tools to justify investments and refine strategies. Metrics like reduced case resolution time, lower ticket rates, and increased employee productivity provide clear benchmarks. Ensure your prospective knowledge management tool demonstrates measurable ROI by reducing repetitive queries, accelerating troubleshooting, and enhancing operational agility.

“Oil companies have shown that sharing technical knowledge among drilling teams reduces problems and speeds the process, saving tens of millions of dollars a year in the cost of establishing new wells.” — Harvard Business Review



It digitizes institutional knowledge, capturing unstructured data from documents, emails, and legacy systems to preserve expertise and make it readily accessible.

Search

What is the cause for excessive current?

Answer

One possible cause for excessive current of the device could be that the application's torque demands exceed the configured amps limit. ⚠️ This could occur either because the amp limit is incorrectly set to lower value or because the application requirements exceed the permissible limits of the motor or drive. 🛑

Sources

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Overvoltage Fault

The Overvoltage fault is triggered when the measured voltage of the DC bus (battery voltage) exceeds the user configured value.

⚠️ Voltage Limits

- Over Voltage Limit (V) **65.0**
- Over Voltage Hysteresis (V) **5.0**
- Under Voltage Limit (V) **30.0**

Trigger Condition	Action	Recover
DC bus voltage is higher than the configured value.	Power stage is OFF.	The error clears once the voltage becomes lower than the configured value minus the overvoltage hysteresis value.

The troubleshooting table follows:

Possible causes	Investigation	Corrective actions
Configured overvoltage limit is set too low. Notice that the battery voltage will exceed the nominal value when the battery is fully charged.	Ensure that the configured voltage limit is higher than the maximum battery voltage. Perform a battery charge and note the maximum voltage.	Confirm that the correct voltage limits are set through RobotStudio. Ensure that the maximum voltage of the battery is below the controller's maximum permitted voltage Avoid performing a full charge if necessary
Battery cannot absorb the excessive regenerative energy. This can happen if the battery is fully charged, aged, or in poor health.	Check the battery's state of charge when the error occurs Verify that the battery age is within the expected lifespan Assess the battery's health by observing BMS data	Use a shunt regulator such as the Robotiq SRBK or a braking resistor. This will help dissipating the excessive regenerative energy when the motor decelerates. The regenerative energy will be higher when the motor deceleration increases. To prevent the battery voltage from exceeding allowed limits, one workaround would be to decrease the deceleration rate. Replace the battery if needed.

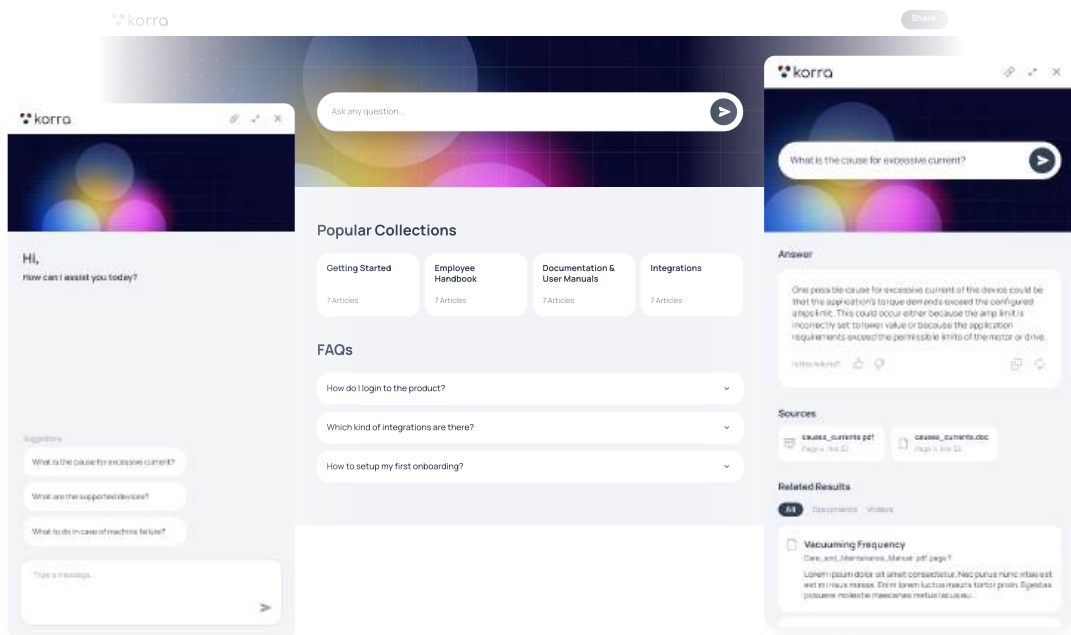
Transforming Knowledge Workflows with Korra

With AI-powered discovery, Korra delivers precise, contextual insights, reducing search times and enabling faster problem-solving.

Its centralized repository standardizes knowledge assets across formats and systems, breaking down silos and driving cross-functional collaboration.

Built with robust privacy measures and scalability, Korra adapts to the growing complexity of industrial operations while ensuring data security.

Finally, Korra delivers measurable ROI by reducing case resolution times, lowering ticket rates, and empowering employees with the tools to make informed decisions, ensuring a streamlined and efficient knowledge management process.





Conclusion: Future-Proofing Industrial Knowledge Management

Effective knowledge management has become a key differentiator for industrial organizations. By leveraging cutting-edge tools like Korra and adopting best practices, enterprises can modernize workflows, preserve institutional knowledge, and position themselves for long-term leadership and Industry 4.0 success in 2025 and beyond.

“Knowledge management is not only embedded within the organization to develop and share knowledge but also to create a culture that drives organizational performance. KM should be integrated into workflows to promote sustainable outcomes across the business” - Deloitte