



CONSISTENT AND CLEAR:

INCREASED PRODUCTIVITY, BETTER QUALITY, AND LOWER COSTS WITHIN REACH WITH DIGITAL WORK INSTRUCTIONS.

The manufacturing industry is facing operational and workforce challenges in the current environment. There is a skilled worker shortage, with existing workers retiring and causing a loss of knowledge. New employees need to be trained and onboarded quickly on increasingly complex products.

Digital work instructions can address many of these issues and provide many benefits to manufacturing operations: lower training costs and better employee retention, reduced downtime, higher product quality, reduced scrap, and higher operational efficiency. The ability to transform static documents into visually engaging, dynamic, interactive work instructions can engage workers, improve operational efficiency, and enhance safety.

Plex MES delivers digital work instructions with real-time, step-by-step guidance and interactive elements to enhance operational efficiency and product quality.



01 Guided Work Instructions

When best practices are established and procedures are standardized for every step of the production process, setup time is reduced. Embedded quality checksheets and real-time quality alerts help streamline quality steps and detect problems early. Placing comprehensive, step-by-step guidance directly into the hands of operators promote both production capacity and quality. The ability to capture details of quality issues and record start and completion times for each task helps operators document activities and verify when/who/how long it took to finish each task. With increased visibility into daily operations, supervisors can track activity and eliminate bottlenecks.



02 Interactive Work Instructions

Authoring interactive, model-based work instructions, by leveraging 3D and 2D multimedia integrated to the PLM system, helps democratize design and engineering knowledge across the entire organization and simplify change management. When frontline operators can access an interactive interface, they better understand the products and processes they are working on, which drives engagement and reduces the time and expense of training. Delicate quality processes are explained in detail to ensure they are done right, improving quality and reducing scrap.



Discover how Guided Work Instructions in Plex can streamline your operations. Watch the interactive demo.

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RECARO AUTOMOTIVE

LOCATION

MICHIGAN, UNITED STATES

“We now have embedded images as well as full tasks for work instructions. Previously it was just the wall of text, those barely getting reviewed...with Guided Work Instructions, I can rely on someone who’s been here five years or someone who’s been here a month. I should not be seeing a discrepancy in terms of what they’re doing, how they’re doing it and the quality of things that they’re producing.”



01

Increased Operator Efficiency

- Role-based instructions provided in a granular and task-based system help operators break down complex production flows into smaller guided steps that are straightforward and easier to follow. When operators feel confident in a job well done, this increases employee satisfaction and retention.
- Sharing model-based and interactive digital work instructions with front-line operators makes design data more accessible and helps to streamline change.



02

Single Source of Truth

- Maintaining and updating paper-based documentation is difficult. Saving and making instructions available in Plex ensures operators always have the most current version of work instructions.
- Operators can access clear and concise instructions when they need them, with a direct link to the document control system that has all of the required information and instant access to multimedia content within Plex.



03

Better Quality

- Complex production flows are broken down into smaller guided steps reducing the chances of error, ensuring consistent operation, reducing scrap, and enhancing the quality of product.
- Operators are provided real-time quality alerts, so they can detect and fix problems before moving on. Errors from inadequate or hard-to-follow instructions are reduced, even for complex processes.



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