

DELMIA AUGMENTED EXPERIENCE

AUGMENTED REALITY FOR MANUFACTURING ASSEMBLY AND INSPECTION



IMPROVE EFFICIENCY OF MANUFACTURING OPERATIONS THROUGH CONTEXTUALIZED DIGITAL DATA IN AR TO ASSIST ASSEMBLY AND INSPECTION PROCESSES

DELMIA Augmented Experience supports manufacturers in improving the efficiency and quality of production and inspection processes. Extending the power of the 3DEXPERIENCE® platform and the V+R capabilities for the industry, DELMIA Augmented Experience makes the virtual twin even more actionable through:

- **More advanced assembly assistance** with the **projection of the virtual twin** on the shop floor for AR-based guidance
- AR-driven visualization of complex **quality inspection and control**
- **Unique technology capabilities** combining industrial augmented reality, object tracking, field control, and AI

BENEFITS

Get it first time right and improve productivity

With DELMIA Augmented Experience, operators benefit from efficient guidance for the preparation and assembly tasks. Through augmented reality, the solution overlays a 3D model on the part to be assembled and displays intuitive and interactive assembly instructions that can be completed naturally. This results in reduced errors, application of in situ instructions, and field data that is captured and fed directly back to the digital planning and engineering team.

- Reach the “first time right”
- Reduce cycle time by up to 80%

Ensure the reliability of your inspection and quality control operations

Ensure full compliance with quality standards for raw parts or final equipment and prevent defective products from reaching customers. Follow the AR-based control steps and compare the “as built” with the “as designed” to control the quality of the production and identify non-conformities reliably and accurately at each stage of the manufacturing process. Improve traceability through an inspection report that captures field data and the precise location of detected defects in the 3D model.

- Reduce the risk of errors in locating or interpreting defects by up to 90%
- Save up to 40% on inspection time

Improve operator's work comfort and satisfaction

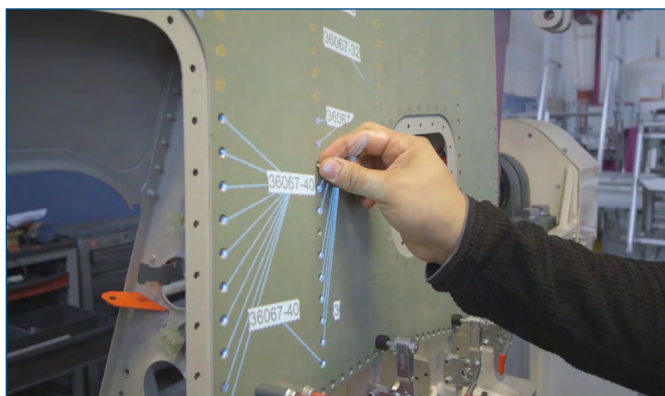
Put the operator at the center of your digital transformation and leverage leading technology and advanced visualization for an enhanced worker experience. Operators benefit from a better work environment and comfort by providing intuitive tools that allow them to work hands-free and reduce the mental investment related to interpreting complex documentation.

- Reduce skills ramp-up time by 50%
- Improved ergonomics of work environment

HIGHLIGHTS

DELMIA Augmented Experience offers AR-based assistance to field operations to optimize your production process efficiency.

- **Contextualized information** through Augmented Reality offers real-time visualization of digital content superimposed on reality
- **Interactive digital work instructions** guiding the operators step-by-step in their assembly and inspection tasks
- Compatibility with an **extensive range of hardware devices**: tablets, projection systems, industrial cameras, smart glasses, et
- **Collection of field data**, including defects **referenced in the 3D model** providing better documentation of assembly operations and inspection results
- Publication and exploitation of operational field data for **traceability** and further analysis
- **Improved worker onboarding**, skill ramp-up, and job satisfaction
- Integrated into the existing information systems, including **your legacy MES, or deploy with DELMIA apps**



Our 3DEXPERIENCE® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating ‘virtual experience twins’ of the real world with our 3DEXPERIENCE platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes’ 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.

