

KONICA MINOLTA BUSINESS TECHNOLOGIES MALAYSIA ACCELERATING OFFICE EQUIPMENT PRODUCTION TOOLING DEVELOPMENT WITH 3DEXPERIENCE WORKS SOLUTIONS

Case Study

Since implementing data management solutions from the **3DEXPERIENCE** Works portfolio, Konica Minolta has eliminated rework and associated costs, and has shortened design cycles by 25 percent—all while avoiding substantial server and IT costs by managing data in the cloud.

Challenge:

Improve data management to eliminate revision errors and rework costs while simultaneously shortening development cycles for production tooling (e.g., jigs, fixtures) for the manufacture of high-tech multifunction copiers and office equipment.

Solution:

Add modeling, design, collaboration, communication, and data management solutions from the **3DEXPERIENCE** Works portfolio on the cloud-based **3DEXPERIENCE** platform—including **3DEXPERIENCE** SOLIDWORKS, 3D Creator, Collaborative Designer for SOLIDWORKS, Collaborative Business Innovator, and Collaborative Industry Innovator—to its existing SOLIDWORKS implementation.

Results:

- Cut development cycles by 25 percent
- Eliminated rework and associated costs
- Improved and automated data management
- Replaced Microsoft Teams with the **3DEXPERIENCE** platform as communications channel

Established in 2014, Konica Minolta Business Technologies (Malaysia) Sdn. Bhd. (BMMY) is a 100 percent-owned subsidiary of Konica Minolta Business Solutions Asia Pte. Ltd., which is the regional head office for Konica Minolta in Southeast Asia. BMMY leverages the best production technologies and the company's deep manufacturing know-how to manufacture parts and assemble Konica Minolta's innovative office and business equipment solutions, including high-tech multifunction copiers, printers, and other types of office equipment, with high levels of efficiency and productivity.

Konica Minolta is committed to digitally transforming businesses with the goal of helping them save time and improve productivity. From information management to technology-enabling tools, Konica Minolta Business Solutions offers a suite of services and hardware so businesses can access information at a faster pace, support mobility, and optimize business processes with workflow automation. The company also offers digital manufacturing solutions and state-of-the-art technology, and continues to grow its organic print business covering office printing, production, and industrial printing.

According to Mohammad Azwan, Senior Group Leader at Konica Minolta Business Technologies Malaysia, the company's production and tooling division has used SOLIDWORKS® 3D design software for many years to develop the tools, jigs, fixtures, and machines that are needed to manufacture and assemble components for Konica Minolta high-tech



"We have been able to reduce design time because everyone is able to collaborate easily and efficiently on the platform and can access our development environment at any time and from any location. It's much easier to find the correct data. Design reviews and workflows overall are faster. In short, the **3DEXPERIENCE platform makes collaboration more efficient and effective, which saves time."**

— Mohammad Azwan, Senior Group Leader

multifunction copiers, printers, and office equipment. The production team was looking into a system to resolve revision control and data management issues when it heard about a cost-effective, automated data management solution from the **3DEXPERIENCE®** Works portfolio. The portfolio, purpose-built for mainstream innovation, connects a business' ecosystem in a single, unified, collaborative environment, leveraging the cloud-based **3DEXPERIENCE** platform.

"Before connecting to the **3DEXPERIENCE** platform, we were using SOLIDWORKS Desktop and manually controlled our CAD data on a shared drive," Azwan recalls. "We had a lot of problems with data management, such as duplicated data, duplicate naming, poor revision control, missing files, missing reference files, and many more. ...So, we decided to find a data management system, and we selected the data management solution from the **3DEXPERIENCE** Works portfolio because it was more affordable, offered many business and industry roles, and, most importantly, solved our data management issues."

In addition to implementing data management capabilities from the **3DEXPERIENCE** Works portfolio, Konica Minolta added modeling, design, communication, and collaboration tools—including **3DEXPERIENCE** SOLIDWORKS, 3D Creator, Collaborative Designer for SOLIDWORKS, Collaborative Business Innovator, and Collaborative Industry Innovator—to its existing SOLIDWORKS implementation. "With the **3DEXPERIENCE** platform, we've experienced a 100 percent improvement in data management and have resolved our previous challenges," Azwan says.

ELIMINATING REWORK AND ASSOCIATED COSTS

With transparent, automated data management capabilities in the cloud, Konica Minolta has completely eliminated the rework required to address data management errors in the past, as well as the associated costs and time delays. "Before we began managing data in the cloud on the **3DEXPERIENCE** platform, our data was not secure and not properly managed," Azwan recounts.

"Designers sometimes used the wrong revision data because it was improperly named or saved to another folder," Azwan adds. "This created unnecessary and additional rework time and costs. With the **3DEXPERIENCE** platform, we have completely eliminated rework—and the associated costs and delays—related to revision errors."

SHORTENING DESIGN CYCLES

Since implementing modeling, design, communication, collaboration, and data management solutions from the **3DEXPERIENCE** Works portfolio in 2021, Konica Minolta has developed 10 jigs and three machines for production, and has also cut its development cycles—for jigs, fixtures, and tooling design, as well as machine design—by 25 percent. "Using all of our capabilities on the **3DEXPERIENCE** platform, we have reduced our development time 25 percent—shortening design cycles from eight weeks to six weeks for jigs and tools, and from four months to three months for machine design," Azwan says.

"We have been able to reduce design time because everyone is able to collaborate easily and efficiently on the platform and can access our development environment at any time and from any location. It's much easier to find the correct data. Design reviews and workflows overall are faster. In short, the **3DEXPERIENCE** platform makes collaboration more efficient and effective, which saves time."

IMPROVING WORKFLOWS AND COMMUNICATIONS

While the data management capabilities on the **3DEXPERIENCE** platform have enabled Konica Minolta to optimize and shorten its development workflows, having a design and engineering environment in the cloud has also improved communications across the development team. "We also migrated our communications from Microsoft® Teams to the **3DEXPERIENCE** platform as our primary channel," Azwan points out.

"We have standardized our development workflow and now use the platform to automate the review and approval process," Azwan stresses. "We are no longer using hard copy reviews and approvals, and are communicating more effectively, realizing increased productivity due to better workflows and communications."

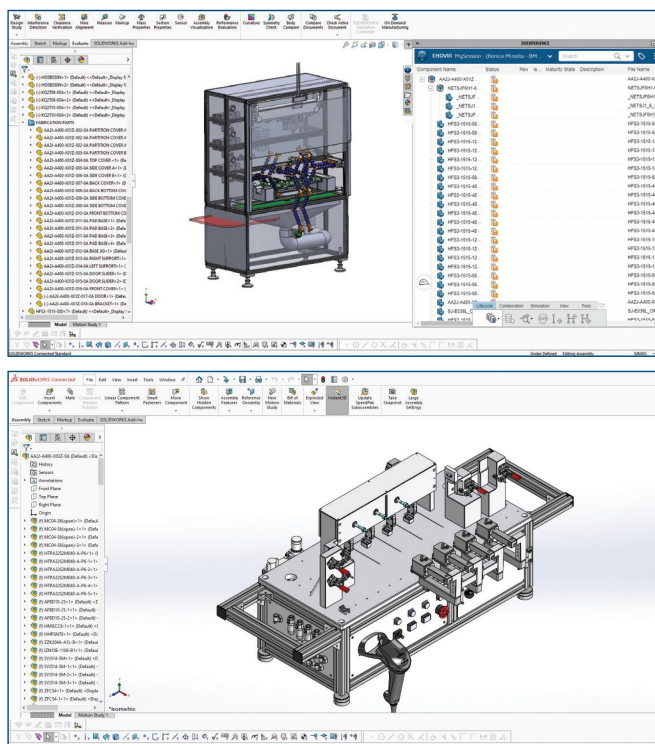
Focus on Konica Minolta Business Technologies (Malaysia) Sdn. Bhd.

VAR: CADVision Systems, Kuala Lumpur, Malaysia

Headquarters: No. 8 Jalan TU 62 Kawasan Ayer Keroh, Malacca 75450 Malaysia

Phone: +60 62332930

For more information
www.konicaminolta.com.my/home/



Using data management capabilities on the cloud-based **3DEXPERIENCE** platform has enabled Konica Minolta to optimize and shorten its development workflows and improve communications across the development team.

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.

