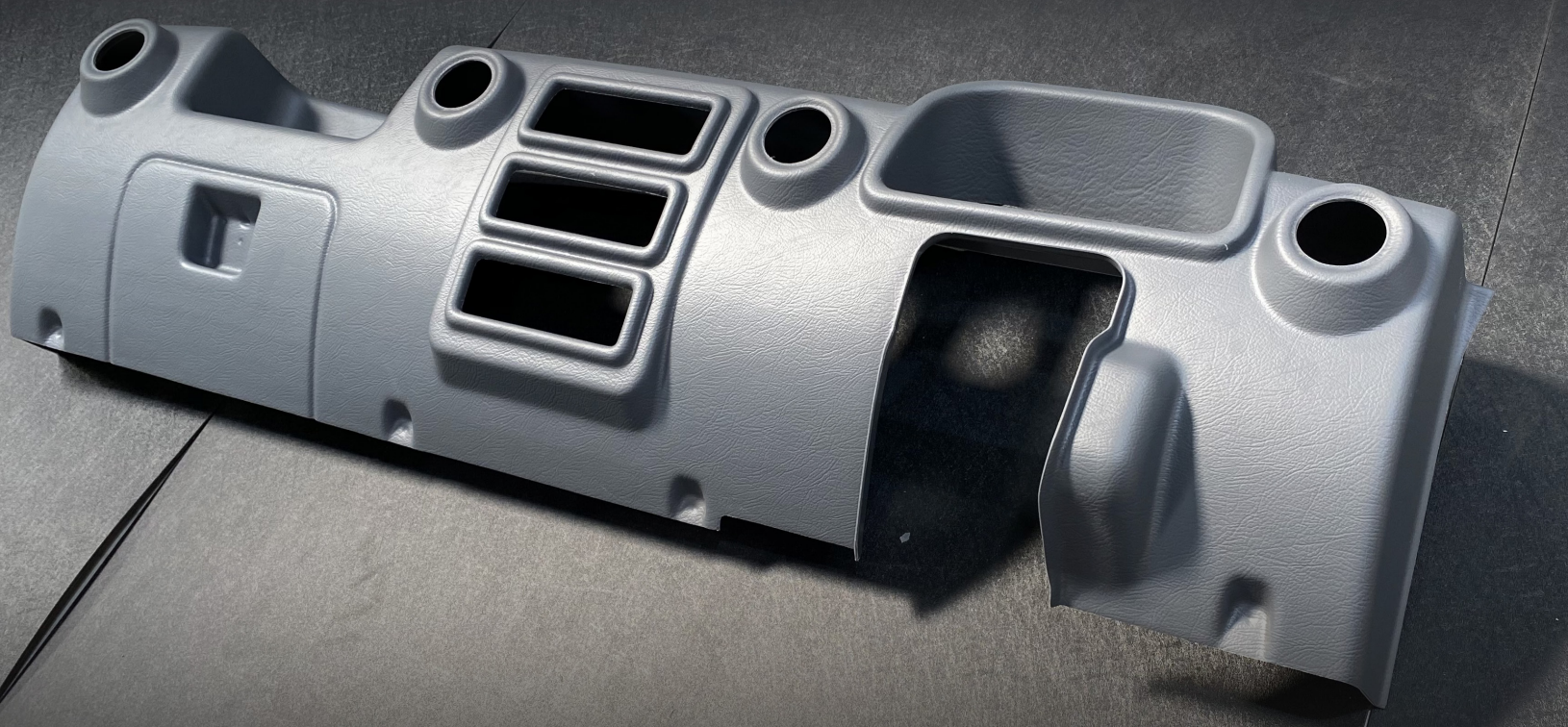


MIGMA PACKTRON IMPROVING COMMERCIAL VEHICLE DASHBOARD AND INTERIOR DEVELOPMENT WITH 3DEXPERIENCE WORKS SOLUTIONS

Case Study



Migma Packtron relies on SOLIDWORKS and 3DEXPERIENCE Works solutions to shorten design cycles, improve quality, and reduce costs during the development of automotive interior components by connecting people, tools, and data on the cloud-based 3DEXPERIENCE product development platform.

Challenge:

Improve collaboration and data management across the product development and manufacturing organization.

Solution:

Add cloud-based **3DEXPERIENCE** Works solutions to its existing **SOLIDWORKS** implementation, including Collaborative Business Innovator, Collaborative Industry Innovator, Collaborative Designer for **SOLIDWORKS**, Project Planner, Change Manager, and Product Release Engineer solutions.

Results:

- Cut design cycles by 30 percent
- Reduced time to market by 20 percent
- Decreased infrastructure, IT, and software maintenance costs
- Connected organization's most vital resources: people, software tools, and data

Since its founding in 1988, Migma Packtron has grown to become the leading Indian manufacturer of commercial vehicle dashboards and automotive interior components. With the goal of becoming a leading global provider of innovative automotive interior products and solutions, the company has emerged as a preferred vendor of leading automotive original equipment manufacturers (OEMs) for manufacturing commercial vehicle dashboards. Migma Packtron has also introduced industry innovations, such as its recently developed snap-fit concept for automotive interior components, offering key benefits like instant fitting and removal, no visible hardware on surfaces, and greater attractiveness and cost-effectiveness..

With the vacuum-forming machine with the largest bed size (3300 mm x 1700 mm) in central India, the company leverages its talented designers and engineers to create automotive interior concepts that meet all requirements for production via the thermoforming process. Although Migma Packtron initially utilized outside resources for product development, management decided to bring design and engineering in-house in 2018, conducting an evaluation of Siemens Solid Edge®, PTC Creo®, and **SOLIDWORKS**® mechanical design solutions, before implementing **SOLIDWORKS** CAD, according to Director Nitin Raut.

"We decided to develop an in-house capability for pattern design and development when we implemented **SOLIDWORKS** in 2018," Raut explains. "**SOLIDWORKS** has helped us in speeding up our development process and delivering high-quality products to customers more quickly. As we develop fixtures and continue innovating our manufacturing processes, we need a robust solution with a short learning curve,

which is why we chose **SOLIDWORKS**. After we began using **SOLIDWORKS**, we have been able to shorten delivery times by 20 percent. Building on this success, we decided to utilize **SOLIDWORKS** on the cloud-based **3DEXPERIENCE**® platform by acquiring **3DEXPERIENCE** Works solutions, including Collaborative Industry Innovator for cloud data management."

Migma Packtron decided to move to the **3DEXPERIENCE** platform—acquiring Collaborative Business Innovator, Collaborative Industry Innovator, Collaborative Designer for **SOLIDWORKS**, Project Planner, Change Manager, and Product Release Engineer—to streamline the company's development and manufacturing processes and facilitate collaboration within and across all departments.



"The combination of **SOLIDWORKS design software and the **3DEXPERIENCE** platform enables our teams to plan, execute, and monitor project status in real time. The platform enables them to easily share tasks and define deliverables, dependencies, and key milestones. Revision control minimizes errors, and our IT overhead, infrastructure, software maintenance, and future hardware investment costs are all reduced."**

— Nitin Raut, Director

FORMALIZING WORKFLOWS SPEEDS DEVELOPMENT

Since moving to the **3DEXPERIENCE** platform, Migma Packtron has formalized its workflows, resulting in a 30 percent reduction in design cycles and contributing to its faster times to market. After receiving detailed requirements and specifications for a dashboard or interior component from a customer, Migma Packtron engineers evaluate whether there are any design for manufacturing (DFM) issues before issuing a quote. Once the customer accepts the quote, the project goes through pattern development, machining, vacuum forming, trimming, and finishing processes.

"As soon as an inquiry comes in from a customer, a project is initiated on the **3DEXPERIENCE** platform and all tasks are then allocated to all of the stakeholders involved in our process," Raut points out. "Assessing DFM and responding to a customer request for quote [RFQ] are handled by our design and development team using **SOLIDWORKS** and the **3DEXPERIENCE** platform, where design data is shared in order to finalize the RFQ. Upon customer acceptance, pattern development is completed by the design team using **SOLIDWORKS**, and the pattern design is accessed on

the platform by machining for production. The combination of SOLIDWORKS and the **3DEXPERIENCE** platform has provided us with an efficient in-house development and manufacturing setup that is helping us support growth."

CONNECTING RESOURCES IN THE CLOUD

By adding the **3DEXPERIENCE** platform to its SOLIDWORKS implementation, Migma Packtron has realized a cloud-based data management and product lifecycle management (PLM) system that not only improves revision controls, data security, and data access, but also facilitates change management, release processes, and standardization across the organization. "The **3DEXPERIENCE** Works roles that we acquired were critically important for us because they instantly gave us an affordable, cloud-based solution for powerful collaborative PLM," Raut stresses.

"The **3DEXPERIENCE** platform connects our organization's most vital resources: our people, software tools, and data," Raut adds. "The platform gives us a unified secure place to collaborate on designs and more consistently keep projects and people on track."

COLLABORATION, IMPROVED QUALITY, REDUCED COSTS

By adding the cloud-based **3DEXPERIENCE** platform to its existing SOLIDWORKS implementation, Migma Packtron has realized better collaboration and information access, not only leading to improved product quality but also resulting in cost reductions related to infrastructure, IT, and software maintenance. "Maintaining and growing our market position demands high-quality products and timely delivery," Raut stresses.

"The combination of SOLIDWORKS design software and the **3DEXPERIENCE** platform enables our teams to plan, execute, and monitor project status in real time," Raut continues. "By empowering team members to efficiently collaborate from anywhere, at any time, and on any device, the platform enables them to easily share tasks and define deliverables, dependencies, and key milestones. Revision control minimizes errors, and because we can work in the cloud, our IT overhead, infrastructure, software maintenance, and future hardware investment costs are all reduced."

Focus on Migma Packtron

VAR: Ekspe Software Services LLP, Indore, Madhya Pradesh, India

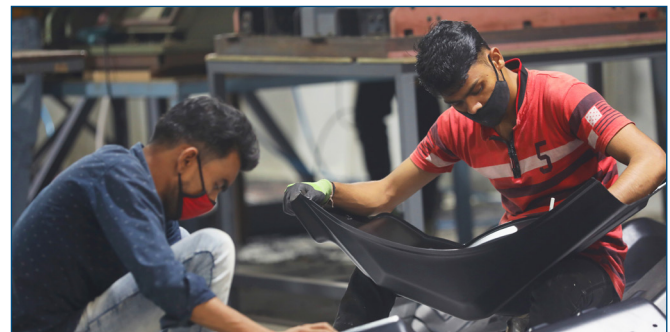
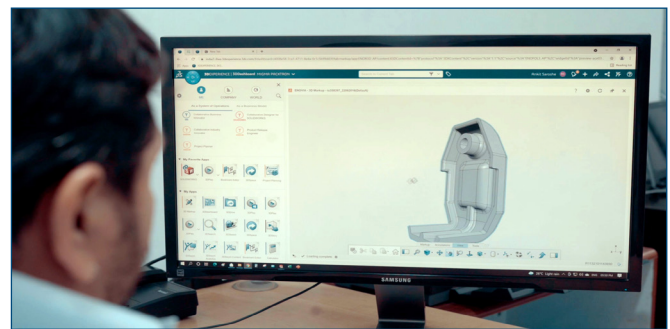
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Using SOLIDWORKS and **3DEXPERIENCE** Works solutions on the cloud-based **3DEXPERIENCE** platform has enabled Migma Packtron to formalize workflows, tighten revision controls, and collaborate more effectively, resulting in shorter times to market, improved quality, and reduced costs.

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.

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