

Dassault Systèmes and Patrick Jouin Unveil “Ta.Tamu,” Their Latest Collaboration Redefining Traditional Design

- Ta.Tamu is a lightweight chair 3D-printed in a folded position, created on Dassault Systèmes’ 3DEXPERIENCE platform to showcase a bold reinvention of design for the generative economy
- AI-powered virtual twins and a frugal approach to materials by designers and engineers leveraged biomimicry and data to optimize the chair’s design for 3D printing without assembly
- A collaborative virtual experience integrating thinking, modeling and simulation early in the design process enhanced ideation and concept development

PARIS — June 25, 2025 — [Dassault Systèmes](#) (Euronext Paris: FR0014003TT8, DSY.PA) and the French designer Patrick Jouin today unveiled “Ta.Tamu,” a lightweight, 3D-printed and functional chair, co-created using the 3DEXPERIENCE platform on the cloud. Ta.Tamu serves as a proof of concept for emerging, generative design processes that combine AI-powered virtual twins and the frugal use of materials to drive the generative economy.

Ta.Tamu is the result of a four-year dialogue between Patrick Jouin’s intuitive design approach and Dassault Systèmes’ 3DEXPERIENCE platform. Designers and engineers redefined how a chair could be conceived — challenging traditional design methods, pushing formal and structural limits, and inventing new ways to minimize matter.

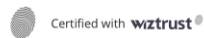
Developed through enhanced ideation and concept development, and a life cycle assessment integrated early in the process, Ta.Tamu’s pioneering aesthetics were inspired by biomimicry and the structural logic of the human body, such as bone density and joint articulation. The light yet robust lattice structure weighs just 8.6 pounds (3.9 kg), can support 220 pounds (100 kg), and can be 3D printed in a flat, folded position without needing assembly.

“Nature uses only the energy and materials it needs. We wanted to apply this very simple philosophy to the development of Ta.Tamu. With the help of new collaborative technologies of Dassault Systèmes, we are now able to come up with new ideas and make them possible, creating more efficiently while producing less waste, right from the design process,” said Jouin.

Collaborating around an AI-powered virtual twin, design teams modeled and simulated the behavior of complex assembled components, using topological optimization to refine every joint, unfolding articulation, and zone of pressure and support. At each stage, the design evolved in real time through close interaction with the 3DEXPERIENCE platform, with changes updated and visible in the virtual twin. Teams modified the chair's geometry while balancing its aesthetics, resulting in an optimal design where gesture, function, and structure converge in a chair that weighs 75% less than it would have weighed at full density.

“To improve the world we live in, we have to change the way we produce, design and use materials. Ta.Tamu represents a call to action for industry to embrace a generative economy instead of continuing to create without limits,” said Anne Asensio, Vice President Design Experience, Dassault Systèmes. “Ta.Tamu was created with the technology used to innovate sustainably in industrial contexts. As a science-based company, we want to create value for society in every aspect of people's lives through our 3DEXPERIENCE platform. Design processes integrating modeling and simulation from the start lead to innovations that improve real life.”

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About Dassault Systèmes

Dassault Systèmes is a catalyst for human progress. Since 1981, the company has pioneered virtual worlds to improve real life for consumers, patients and citizens. With Dassault Systèmes' 3DEXPERIENCE platform, 370,000 customers of all sizes, in all industries, can collaborate, imagine and create sustainable innovations that drive meaningful impact. For more information, visit: www.3ds.com

About Patrick Jouin

Patrick Jouin is a French designer and a graduate of ENSCI-Les Ateliers. In 1999, he founded his industrial design studio, Patrick Jouin iD. A pioneer in the use of 3D printing for furniture design, he created the Solid collection in 2004, the first series of furniture pieces produced directly from digital files, without molds or assembly. This milestone marked the beginning of an in-depth exploration of new ways to design and manufacture, rethinking forms, gestures, and structures in light of emerging technologies.

Through objects such as One Shot, Bloom, and the monolithic bench at the Palais de Tokyo, Patrick Jouin has revealed the ability of these tools to generate intuitive, lightweight, and sometimes otherwise unattainable forms. Since 2019, he has been engaged in an experimental collaboration with Anne Asensio and the teams at Dassault Systèmes, exploring generative design, folding, and deployability.

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