

bamboo.stl



If bamboo and 3D printing were to befriend each other, how would they get along?

In industrial production, bamboo is challenging to process. Answering this challenge, Marguerite Perianu combines 3D printing technology with the organic properties of bamboo. She started out by intimately getting to know the organic characteristics of bamboo. Rather than over-processing or denaturing the material, she figured out how to use its inherent properties and modelled her technique around it. She makes only a few cuts on the bamboo and then prints strong connecting parts, each of which is especially fitted to embrace its bamboo stem. 'bamboo.stl' proposes a new method to create durable, long-lasting indoor furniture.

text written by Welmoed Bosch



picture by Ronald Smits





The necessity of combining bamboo and 3D printing arises from their unique characteristics. Bamboo, with over 5000 years of use, embodies strength and longevity. Introduced in the 1980s, 3D printing continuously improves in terms of precision. Plus, bamboo renews itself rapidly, and 3D printing offers countless choices in terms of printable materials.

Marguerite's choice of crafting unique pieces, and the time and effort put into them are influenced by factors such as bamboo cost, the time required for its treatment, and its complexity of being used as a construction material due to regulations. The choice of filament for 3D printing also matters. While PLA (Polylactic Acid) is durable but fragile, the PLA used here becomes much stronger after being heated.



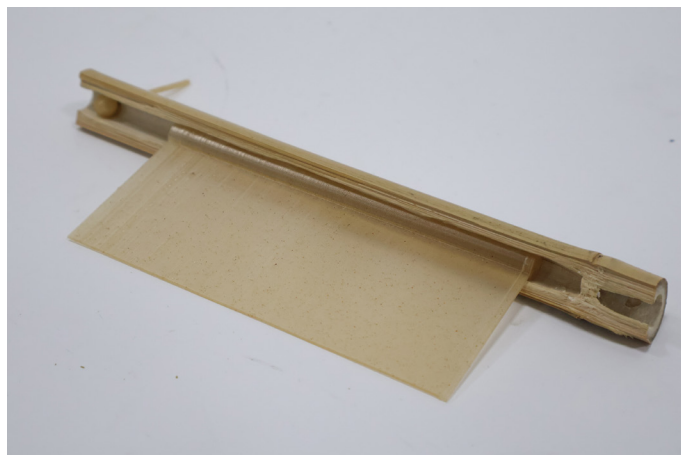


In a world where objects are mass-produced, replicated, and sometimes quickly discarded, bamboo.stl proposes another approach ; one where each piece carries its own uniqueness.

By assembling natural bamboo canes with custom 3D-printed connectors, the project creates objects that belong to the same family without ever being identical copies. Each piece of bamboo has its own rhythm of growth, its own scars and variations, transforming the final outcome into a singular object.

This approach challenges the way we consume. What if the key to long-lasting objects was not only in their durability, but in the bond they create?













*bamboo.stl* stands for crafting uniqueness at scale, imagining a future where objects are designed to be both personal and responsible.

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