



Customized Prosthetic Covers Provide Self-Expression for Amputees

3D printing technologies and materials deliver on both fashion and function



OVERVIEW

There's no "one size fits all", especially when it comes to expressing who we are. That's why each and every one of Anatomic Studio's prosthetic covers are tailored to the individual who will wear it -- to their specific anatomy, prosthetic setup and, of course, personal style.

By collaborating with BASF Forward AM and Sculpteo, the team at Anatomic Studios utilizes digital craftsmanship, innovative [TPU materials](#), 3D-technology and a whole bunch of heart to change the lives of amputees.

QUICK FACTS

Materials:

- Ultrasint® TPU

Technology:

- MJF

Partner:



ANATOMIC STUDIOS

Anatomic Studios is a Swedish design studio that creates fashion focused, individually designed & 3D printed covers for prosthetic users. Emelie Strömshed, Christian Veraeus, Naemi Jaworowski, Isak Wadsö, and Felix Karlsson are a close-knit team with both experience and expertise in design, fashion, 3D-engineering and prosthetics. But more than anything, The team at Anatomic Studios are passionate creators who enjoy working together and believe in design that celebrates individuality.

ANATOMIC-STUDIOS.COM



6x more efficient
cosmetic process
for orthopedic
clinics



High durability,
flexibility, and
scratch
resistance



Smooth surface
finish

Challenge: Overcome the lack of options and limited influence over the appearance of standard prostheses

Traditionally, amputees have had few choices and very little control over the appearance of their prosthesis. For many, this has led to a negatively impacted body image and being three times more likely to suffer from mental health issues. By utilizing [TPU materials](#) and MJF technologies, Anatomic Studios can provide individually designed prosthetic covers created with 3D-printing, allowing users to add a more modern and personal style to their prosthesis. This solution ensures they are invited to be a part of the creative process, from selecting a design or crafting a completely new one. They can choose color options and have approval of a digital draft of the design before the cover is even put into production.

"I'm so proud of how my prosthesis looks – my cover is like a piece of jewelry that I can match with my outfit." – Caroline

"My cover has meant a lot for my self-esteem and confidence. Now I walk around in shorts all the time, even in the winter." – Patrik

"I've never felt more glam than I do now. These covers really make a difference for people that have lost a part of their body." – Elin

(pictured below wearing the Prism design coated in metallic silver)



Challenge: Develop a timely and cost-efficient process to benefit prosthetists and technicians working at the orthopedic clinics

The current standard cosmetic option in the prosthetics industry uses manual methods from a foam material requiring several hours of work from the prosthetist or orthopedic technician. This new digitalized process liberates time for them as it reduces the hours of manual work required for a traditional cosmetic solution. Clinics provide a 3D-scan of the prosthesis along with some measurements and Anatomic Studios creates a custom designed and cost-efficient cover. An added benefit is the ability to remove these 3D printed covers ensuring that adjustments and maintenance on the functional prosthesis are simplified as the components are more easily accessible.

[Learn more about TPU materials:](#)