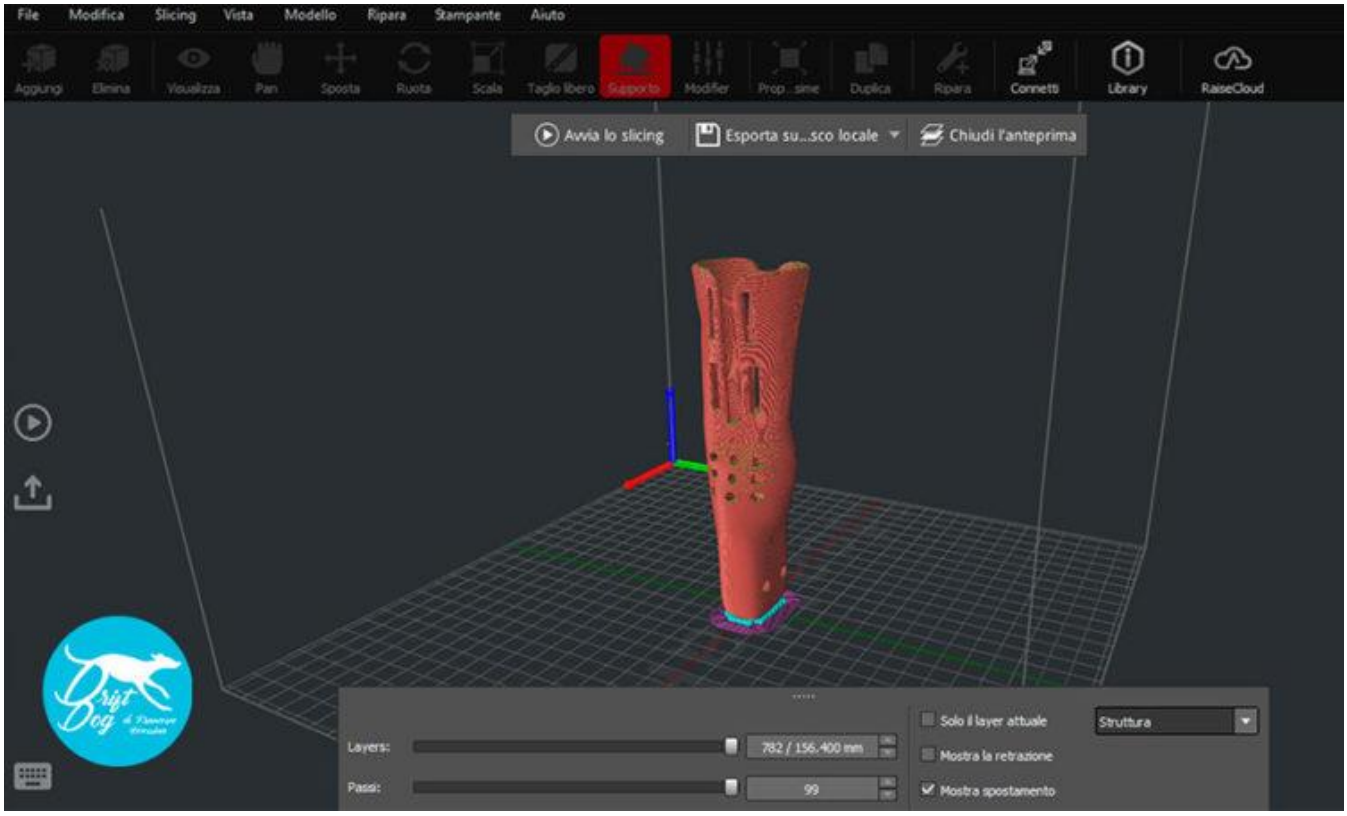
DriftDog – Orthopedic Aids for Animals Made Possible Thanks to 3D Printing

Raise3D Case Study
Nov 13, 2020

DriftDog is a company that specializes in the production of customized trolleys and other orthopedic aids and technical solutions for animals with disabilities. DriftDog designs, builds and customizes each product according to the needs of their four-legged customers (as well as customers with other numbers of legs), as well as providing its expertise in 3D printing, scanning and 3D modelling, in service of the veterinary sector.

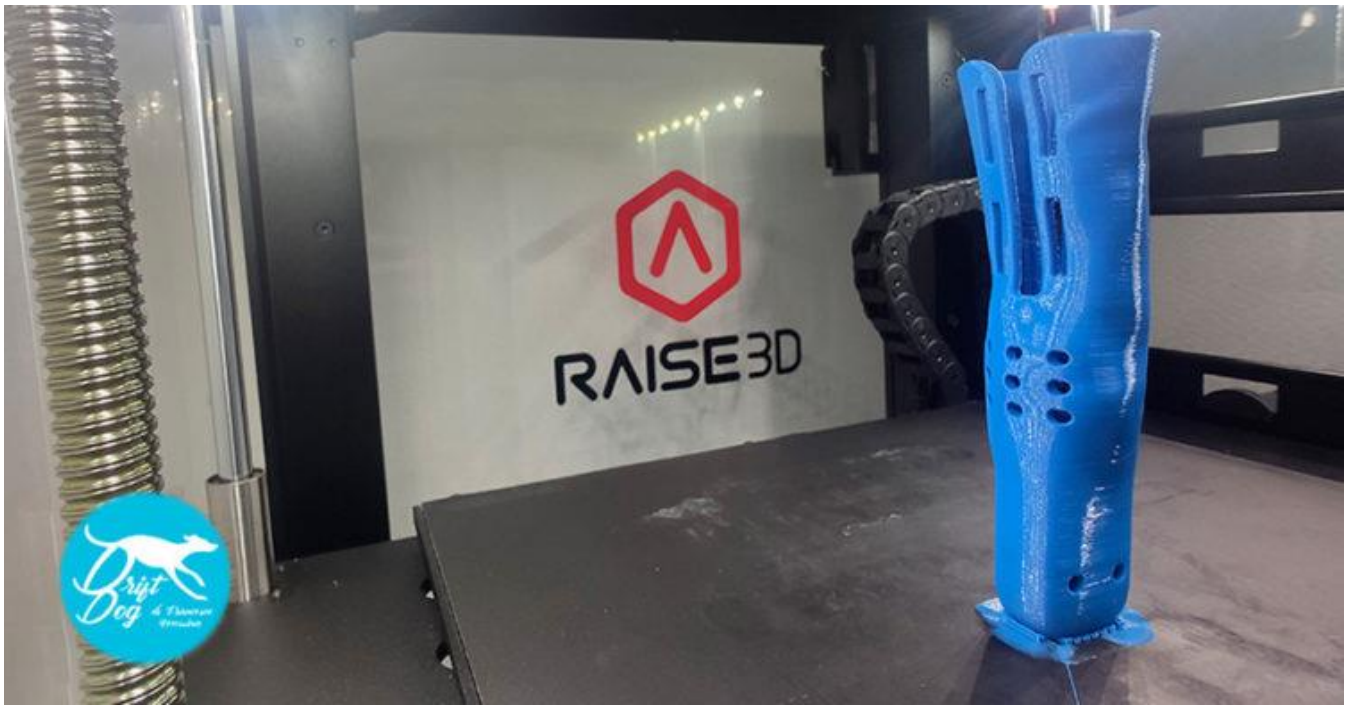
Francesco Messina, a 3D modelling technician and founder of DriftDog, talks about his company's experience.

"We were looking for a solid, reliable and technologically advanced printer, and we came across the Raise3D Pro2. After chatting online with other Raise3D users and testing ideaMaker, which we found to be immediately intuitive and complete 3D printing slicing software, we decided to purchase one (for now).



Prosthesic component in the slicing phase, in ideaMaker

DriftDog applies 3D printing, 3D scanning and 3D modelling techniques to most of its activities. From rapid prototyping and subsequent production of new components for our trolleys, to the printing of jigs which are essential for certain processes.

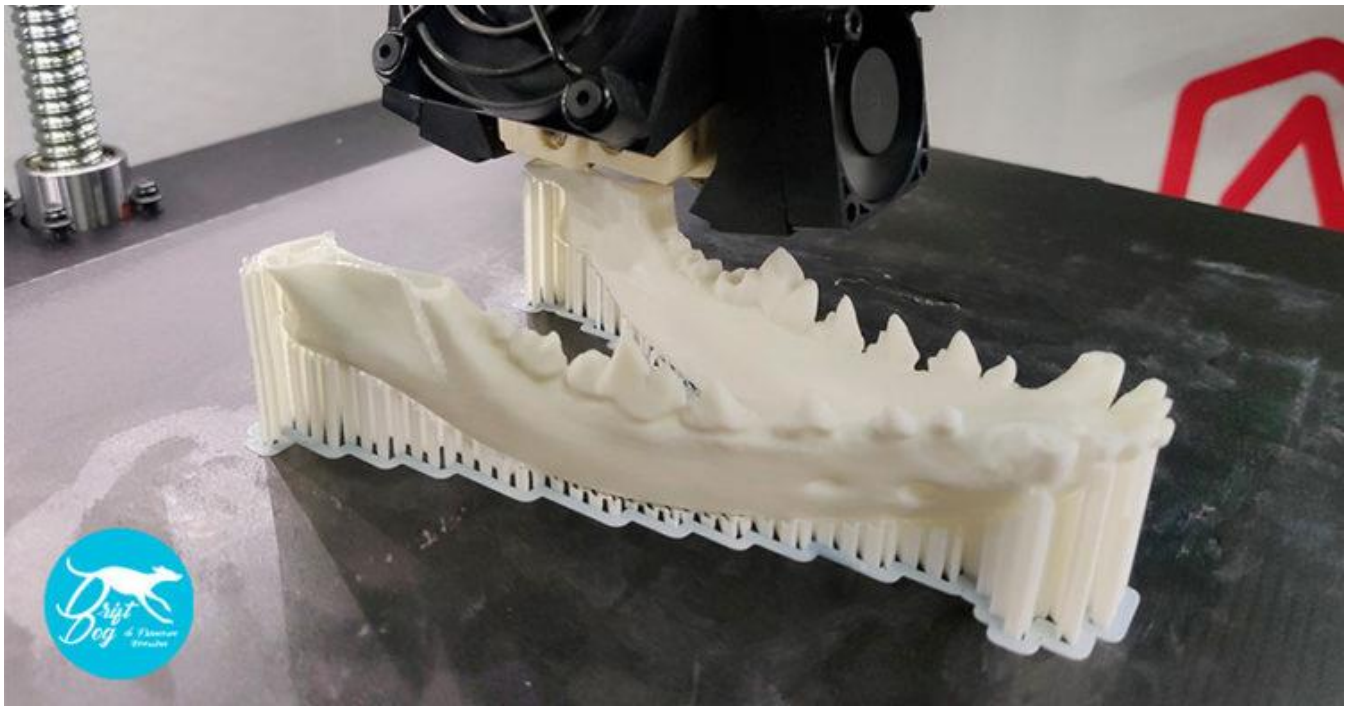


3D-printed prosthetic component made of TPU

We study and manufacture **orthopedic prostheses, braces** and **3D printed immobilizers** in cooperation with **orthopedic veterinarians!**
Furthermore, we print **anatomical models** in 3D for veterinary training and practise.

Among the works we made thanks to 3D printing:

- protective helmets for dogs with hydrocephalus problems;
- reconstruction of the carapace of an injured turtle;
- artificial paws for birds



Canine mandible during 3D printing

Without 3D printing this would have been impossible.

If we had relied on external companies to produce the components in order to obtain a functional prototype, we would run the risk that any further modification would have meant precious time wasted and thousands of euros spent.
If we had used traditional methods to make the finished products, we would have been obliged to spend large sums of money on machinery that we would have used only for that specific process.

Right from the start, our Raise3D Pro2 brought practicality to our reality: we can print an infinite range of technical materials. Thanks to the double extruder, we save time by printing water-soluble supports, thus obtaining an even cleaner result.

The double extruder is useful for 3D-printing end-use parts, customized with our two-tone logo; thanks to the large printing area we have no limits in processing, we are almost always able to print components in one piece.

Example of an educational anatomical model of a canine skull in 1: 1 scale

I could not imagine the future of DriftDog without 3D printing!

Now, we are working to be able to offer veterinarians **models for surgical planning** in a **very short time**, all thanks to 3D printing.

Connect with Raise3D

Do you have a great 3D printing success story and think it would be cool to be featured on www.raise3d.com, we would love to learn more! Write to us at inquiry@raise3d.com

For more information about Raise3D printers and services, browse our website, or schedule a demo with one of our 3D printing experts.