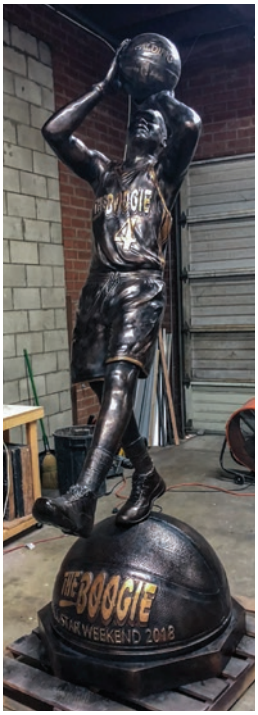
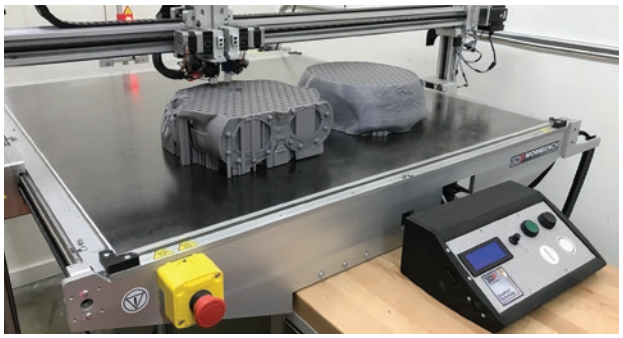
Why 3DP

Prior to acquiring 3DP's large format printer, Thingergy's studio used several types of 3D printers. With the addition of 3DP's larger build volumes, Thingergy as been able to complete many different projects of different scale including trophies, molds, wearable helmets and costume elements, prop weapons, half-scale dolls, theme park displays, and statues. Because of the company's tendency towards various approaches in their design process, they are able to build things with a combination of several different techniques including printing, practical fabrication and traditional sculpting, molding, and casting.



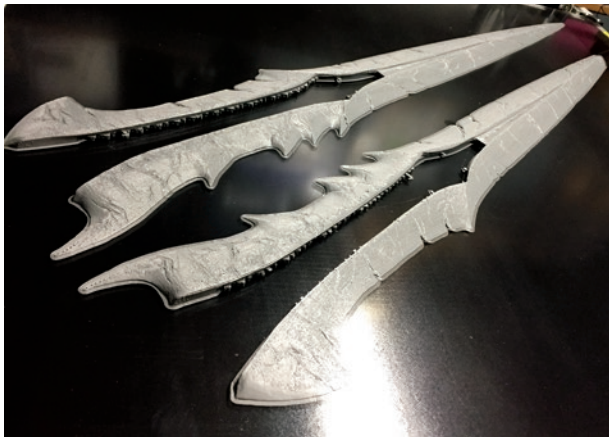
Being able to print models all at once reduces the extra labor of breaking down digital models, and assembling and body-shopping pieces post-printing.



Thingergy's finishing process depends on the desired use. They primarily print in PLA filament, but also use ABS and TPU and occasionally PVA for dissolvable supports. Some prints are coated with Smooth-On's XTC before being body-shopped, primed, and painted. On other projects they body-shop and mold the prints, and then cast in other materials that are sometimes more flexible or durable.

Results/ROI

Thingergy was able to start printing parts instantaneously. After some introductory test prints, their first project on this machine was a half-mask mold, which was featured in a Tested.com video. Typically, print turnarounds at Thingergy are very quick. Their production schedules often have minimal time for iterations of prints. On top of that, Thingergy's projects vary tremendously, which means new products are constantly being designed and produced. The 3DP Workbench solves these challenges by providing high-quality prints and usable parts—fast and reliably.



Tips/Community

Continued experience and these helpful hints will help achieve desired results:

- Stay attentive and record all aspects of printing such as filaments, nozzles, temps, & speeds. Utilize 3DP's website support section when diagnosing a printing error.
- Schedule regular maintenance tasks. Change nozzles to avoid diameter changes and retain print consistency (Important for carbon-filled and fibre-filled), and remember to oil the coupling jaws.
- Pay attention to your filament. The most common cause of print fails is moisture containment or brittle filament. Keep everything dry in air-tight bags with silica packets. Sometimes it is beneficial to keep spools bagged while they are printing.