

3D Catalog Content

Background

When a client needed to create 3D content for their website, they called us. The handle they needed to reproduce was deceptively simple, and after unsuccessfully attempting to reproduce the contours with their parametric CAD package, they called us.

Our Process

We mounted the handle on our automated rotary scanner, and captured the exterior surfaces in 3D. We then used our reverse engineering tools to accurately reproduce the organic shapes of the lower half of the ergonomic handle using NURBS surfaces. The handle surface was asymmetric, and had subtle featuring that would have been nearly impossible to produce using a conventional CAD package. Once the handle was complete, we then imported it into our parametric CAD package to add the prismatic features of the upper portion and the hole details.

The Results

By using a parametric CAD package for a portion of the model creation, we were able to generate a model that not only stayed true to the free formed areas of the original, but also made a robust, editable CAD solid for future work and development. The final part imported as a native CAD file, and integrated seamlessly into their online 3D catalog.

