

TEKREX[®]

Case Studies

Water Probe

A company making water quality test probes needed complex parts made that could withstand the rigors of underwater use. They needed the parts made quickly, affordably, and at a high enough quality for the various screw threads incorporated into the parts.

Challenge

Our Solution

The complex shapes were designed with features that traditional machining processes could not get tooling to, so our team got to work on optimizing the parts for 3D printing.

Because of the intricate design of the assembly, it was decided that 3D printing was the way to go. Once the design was coupled with our highly precise Carbon M2 printer and specially chosen resins, we were ready for full production in a matter of days.



Results



The 3D printed parts fit seamlessly into the rest of the assembly at a cost lower than a traditionally machined part. Overall build quality also increased due to the precision that the Carbon printer was able to provide for the screw threads. Finally, through the design work we provided, the project finished ahead of schedule.