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 **Helix**

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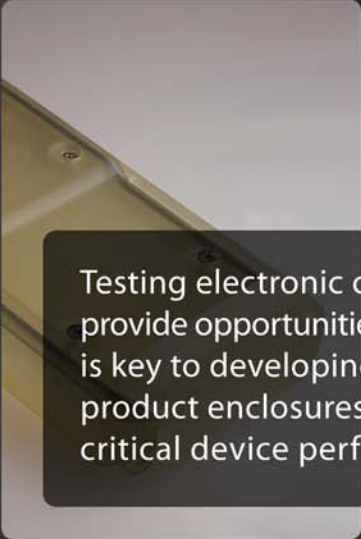
• Product Design

• Product Forecasting

• Engineering

• Prototyping

Prototyping potential solutions throughout the design process...



Testing electronic components that provide opportunities for water ingress is key to developing sound, sealed product enclosures that meet your critical device performance needs!



Helix Design is often asked to develop products that meet or exceed rigorous ingress protection requirements. While it is not uncommon to make minor tooling modifications after first article part inspection (especially when injection molded tooling is designed to be “tool safe”), we excel at executing preliminary environmental testing of rapid prototypes and cast urethane parts well before release to manufacturing. However, you won’t find our testing devices in a catalog: we build tools from scratch that allow us to test components and sealing approaches quickly, efficiently, and cost-effectively.



The Helix Design team has worked on a wide variety of portable electronic devices for tactical, industrial, and consumer applications. For analyzing preliminary ingress protection performance of switches or speakers, for example, we mount components in watertight housings using appropriate production-comparable o-rings, gaskets, or seals: submerging the captured component under one meter of water—or under water jets—helps to verify that product requirements will be sufficiently met.

• **Product Design**

• **Product Forecasting**

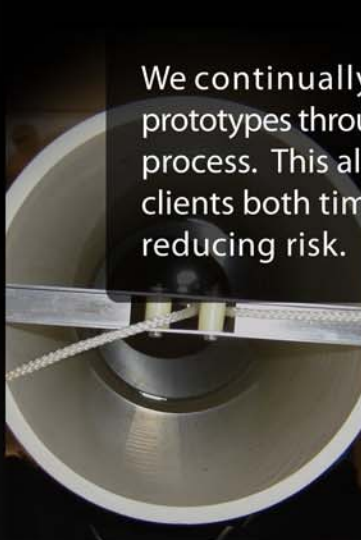
• **Engineering**

• **Prototyping**

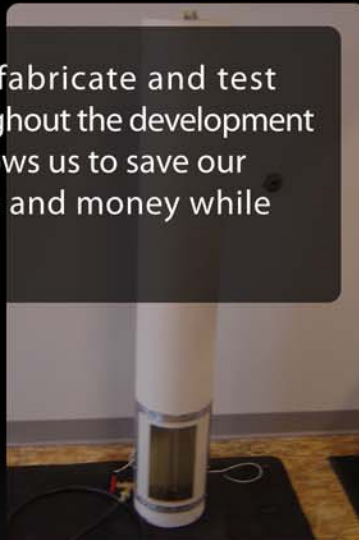
...to reduce risk before production begins.



For testing device enclosures we print entire assemblies on our Objet Eden350V Polyjet machine and put them together with production-comparable o-rings, gaskets, or seals. We can judge the merits of unique sealing approaches relatively early on with preliminary geometry and a dunk tank. It's not *exactly* rocket science, but answering challenging performance questions as early in the development process as possible allows us to release for manufacturing with high confidence that products we develop will meet or exceed our clients' expectations.



We continually fabricate and test prototypes throughout the development process. This allows us to save our clients both time and money while reducing risk.



Helix Design has a passionate team of seasoned industrial designers and mechanical engineers who excel at taking new ideas from concept generation all the way through to production. If you have needs or challenges in product development, let us execute intuitive product design that gets your products noticed and wins you more business.

Contact Troy Barber @ 603.836.0290 when you are ready to get started!

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