



FULL-SERVICE INJECTION MOLDING SOLUTION PROVIDER

Whether you come to us with a documented plan or an idea scribbled down on a napkin, we can make it a reality.



Uniphase

“WE ARE COMFORTABLE WITH BEING UNCOMFORTABLE!” ...

says **Bill Morici, President, and Founder of Uniphase**, a dynamic engineering and manufacturing company located in St. Charles, Illinois. This exceptional team is comfortable taking on your difficult technical challenges, from back-of-the-envelope “napkin sketch” ideas to novel automation strategies, as well as process re-design for cost reduction and improved performance for existing products. Uniphase specializes in imaginative and cutting-edge solutions to complex problems while meeting cost-cutting and quality improvement objectives in creative and effective ways.



Uniphase is a full-service contract manufacturer with a proven reputation of providing solutions for their customers. Operating with a strategic focus on design for manufacturability, Uniphase is known for their ability to lead customers from concept to production, and for offering cutting-edge turnkey solutions for whatever issues they come across.

Uniphase is an engineering partner with a captive tool room, unlike most manufacturers who do not have this in-house capability, and they don't have to keep things by the book. They are not afraid to test the waters and experiment outside the norm.



LSR GASKETS THAT ARE INTEGRATED & SELF-BONDING

Liquid Silicone Rubber, or LSR, is often used in gasket applications since its properties ensure that the products will have a long service life as well as withstand temperature extremes. Unlike Thermoplastic Elastomers, LSR is resilient and allows for consistent production, a wider range of operating temperatures, and strong resistance to compression set. LSR is an excellent material that Uniphase has utilized to help customers deal with a wide range of challenges.

For example, Uniphase collaborated with one of their customers that designed a thermoplastic filter frame assembled with a custom gasket. Uniphase suggested that the gasket be over-molded with LSR in place of the custom gasket, which eliminated one SKU, reduced the scrap rate from the customer's prior design, and improved the overall performance of the part. LSR is in many products that consumers use in their day-to-day lives, including food storage containers, kitchen utensils, and even athletic shoes. But what exactly is the process behind Uniphase's leading-edge LSR technology?



The process offers each client a list of benefits that provide features to assure quality time and service, including:

- Reduced assembly costs
- Increased manufacturing yield
- Increased part integrity and life cycle
- Reduced supply chain from utilizing a single vendor
 - Making sustainable choices

These services make Uniphase stand out with leading LSR gasket technology, allowing for a seamless process and high-quality produced parts.



BENEFITS OF WORKING WITH A FULL-SERVICE FIRM

With design, prototyping, tool building and production manufacturing all under one roof, along with their skilled team, Uniphase's approach saves their customers from potential design and manufacturing pitfalls. Here are some benefits of utilizing a full-service engineering services firm:

In-house services are usually from multiple vendors.

Collaborative engineering helps minimize the use of multiple vendors, which reduces the risk of possible supply disruptions, costly delays, force majeure, and other added delays. This allows engineers to be flexible and produce parts quickly that are tailored to specific needs. Uniphase utilizes a proven structured approach to product development. This enables us to understand the customers' specific requirements, as well as ensure that the product is completed on time.

Engineering services allows for a unique and tailored approach to help each customer create a special part or mold.

Uniphase offers everything under one roof, shortening the supply chain in the process. By incorporating in-depth engineering services, Uniphase makes it easier for customers by not having to go to multiple providers. Instead, customers can have all their needs met with one provider, therefore making the process easier on both ends.

Engineering services lets the customers have the opportunity to shrink their vendor base and receive a complete solution.

Reducing the number of vendors can help avoid delays and stop mistakes that would require the product to be sent back to multiple OEM's. A full-service firm allows for customizations



to be implemented quickly.

Engineering services can also allow for a partner that is unique, creating new opportunities.

Complete engineering service partners have well-rounded and experienced teams equipped to handle any issue that arises. While a customer could contract with three different companies to help them with

WHY UNIPHASE?

Uniphase is a dynamic engineering and manufacturing company located in St. Charles, Illinois. At Uniphase, we live up to our name every day, creating one synchronized phase for tooling and custom injection molding needs. As an ISO 9001:2015 certified company, Uniphase specializes in delivering complete and highly technical full-service injection molding solutions. With a broad range of competencies and a state-of-the-art, captive tool room, Uniphase provides robust turnkey solutions.



“CREATING ONE SYNCHRONIZED PHASE FOR TOOLING AND CUSTOM INJECTION MOLDING NEEDS.”