

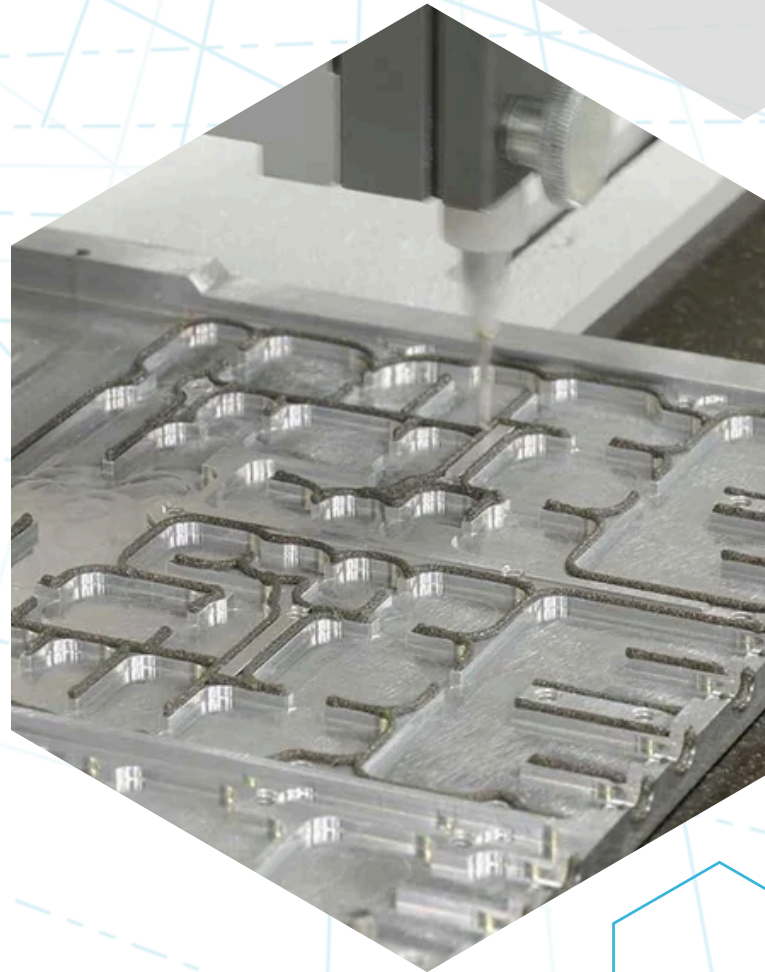
CASE STUDY

SMALL BEAD FIP: BREAKING THE BEAD SIZE BOUNDARIES OF FORM-IN- PLACE GASKETS

PROJECT HIGHLIGHTS

Many of our Defense partners are challenging the boundaries of technology daily. As technology advances, electronics and devices are shrinking in size to accommodate more complex project designs—simply put, they require more technology in less space.

One of our long-time customers came to us for a machining project with a highly intricate and complex design. The walls of this device were incredibly thin, and our team noticed the call out for a significantly smaller Form-in-Place (FIP) gasket than we typically see. The requested material is not rated for a bead size this small and has never successfully been done before.



INCREDIBLE PRECISION

“Through vigorous testing of the materials and equipment, they were able to program a repeatable process that would get the job done with incredible precision.”

Always up for a challenge, Modus took the initiative and took to the drawing board.

This is what it looks like to work with Modus. Beyond our lightning-fast lead times and unwavering commitment to quality, we promise to always be on the lookout for ways to be of service to our customers.



VERTICAL INTEGRATION

At this point, when proof of concept had been completed, we could have simply handed our customer the sample of straight lines as requested. Instead, our machining department created an identical second housing to match their part design.

Modus is well known for our machining capabilities—our machinists can tackle tough requirements and are incredibly skilled in controlling flatness issues which can wreak havoc on the adhesion of a FIP gasket. This is part of what made the FIP gasket so successful—the skills and knowledge of our machining department. A shining example of the benefits of [vertical integration](#).

After the housing was completed, the FIP department then expertly dispensed the complex gasket. QC confirmed that the entire small bead dispensed path was within tolerance. Our sales team then hand-delivered the successfully executed part to the customer. Suffice it to say, our customer was thoroughly impressed with the delivery and thankful to have a partner like Modus on board.

YOUR MISSION IS OUR MISSION

We've invested heavily into our people, processes, and equipment here at Modus, which allows us to iterate quickly on unique projects like this. Over several weeks, many hours were clocked to get this project on its feet. But once we had completed a proof of concept, which involved significant time, energy, and resources, we delivered a commercialized process within a week.

Not only did Modus provide an alternative choice in small bead FIP partner for our customer, but we also demonstrated that we are always up for a challenge. True partnership with Modus means that we are ready, willing, and able to work with our customers in lock-step, from idea to ignition.

With this capability in our repertoire, we are eager to meet the small bead FIP gasket demand with speed and precision—the Modus way.

