



Customer

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Manufacturing Issue

The filter cutting component on the customer's tooling wasn't performing consistently. Also, the assembly and disassembly of this component was becoming a very timely process.

Customer's Goal

Increase the accessibility of the cutting component for assembly and disassembly purposes.

Improve the performance of the cutting component in their tooling die.

Redesign Process

Previously, to operate the cutting operations on this tooling individual components had to be installed and removed to perform as one unit. Ultra changed the design of the cutting operation so those individual components could now be removed as a single unit.

It was critical during this redesign to ensure the quality and precision of the filter cutting operation wasn't sacrificed. This involved evaluating each component's role to verify the degree it could or couldn't be modified; as well as its physical location. Redesign was made easier with the features of our **3D VISI-Design** software that simulated every detail of the cutting operation; as well as the entire production process.

And with this new single unit design, changeout and maintenance proved to be easier and quicker. The manufacturer can now remove this single unit via two bolts versus pulling out different components. And installation is no longer a complicated process of placing multiple components back into the tooling.