



CASE STUDY

Applying low-friction coatings reduces drag and improves accuracy of drug delivery devices

Customer Situation

A global biopharmaceutical company approached Aptyx looking for help to improve the accuracy of drug delivery for a syringe-based device.

Aptyx Solution

The Aptyx team developed a method of applying a low-friction silicone coating to a compression-molded plunger. A key to success was designing a batch method that would both optimize cost and maintain the integrity of the product.

In a similar challenge for the same customer, Aptyx devised a method of applying a low-friction silicone coating to a component for an injection-molded insulin pen. The pen assembly included a dial that enables the user to precisely control the amount of drug dispensed.

Outcome

In both cases, integrating the coated components into the assembly greatly reduced drag in the finished device and improved accuracy of drug delivery.

- ▶ Better-Quality User Experience
- ▶ Improved Accuracy

