



# MEDICAL MASTERY

*How DFF Diagnosed (and Cured!) a Problem for a Leader in Diagnostics*



## **PROBLEM:**

A longtime customer, an in vitro diagnostics company with a successful 75-year history, was experiencing a higher than desired failure rate on a highly sought-after and regulated blood analyzer.

## **SOLUTION:**

DFF reverse engineered the 300-part assembly, diagnosing a design modification that would improve accuracy and meet FDA regulations.

## **RESULTS:**

Production of the blood analyzer has doubled.

hospitals, health care networks, blood banks and labs worldwide. When they began to experience failure issues with one of their highly sought-after blood analyzers, they recognized the need for a reliable “cure.” Enter DFF.

Blood analyzers can be used to test many things including blood cell and protein counts, illegal drug use, blood type, and the presence of antibodies, among other applications. Given the critical importance of accurate test results, this type of machine is understandably regulated by the Food and Drug Administration (FDA).

The customer had designed their blood analyzer in partnership with a manufacturing company who held the rights to the design. When management realized that the machine had a higher than desired failure rate, they decided to look for another company to offer a solution. Having successfully partnered with DFF on other projects, they enlisted our help.

We are always willing to help our customers with design improvements and possess the experience, equipment, resources and knowledge to offer sound recommendations to improve products and processes—while reducing costs. Hear how our services benefitted one of our longtime customers.

Our customer is an in vitro diagnostics company with a successful 75-year history, trusted by



Soon after being contacted, a team at DFF reverse engineered the 300-part assembly, diagnosing a design modification that would improve accuracy and meet FDA regulations. Now in its third year of operation, the blood analyzer has no failure rate to speak of, proving that an ounce of prevention is worth a pound of cure—or, in this instance, that a streamlined process with a trusted partner can mass produce double the volume and improve accuracy tenfold.

If you, like the customer described here, are looking for a diagnosis that will lead to a cure to your production woes, [contact our team of experts.](#)



## ABOUT DFF

Specializing in medium to high production of precision machined components and electro-mechanical assembly products, DFF works with customers to simplify designs, make products easier to produce and maximize the reliability and quality of the end product. Located on 23 acres in a regional industrial park at the crossroads of Western New England (Interstates 90 and 91), the DFF facility, which began in a 2,000 sq. ft. building, has grown to three buildings totaling 300,000 sq. ft. To learn more about DFF, visit [dffcorp.com](http://dffcorp.com).