



Challenge

A leading provider of medical devices for hospitals, emergency, home, and specialist environments was troubled with unreliable pneumatic grippers which were causing frequent failures, product mishandling, recurring downtime, and high maintenance costs.

This medical device manufacturer was losing approximately \$75,000 in revenue every 4 months (repair, downtime, and product loss). The grippers in use were needing to be repaired every 2-3 weeks and replaced entirely every 2 months. While experiencing these inconsistencies and unreliable results, they were not receiving ample support from the end-effector provider, leaving in all repairs to be done by in-house staff.

A replacement gripper would need to be able to provide at least 4 million cycles, excel within numerous environments, transfer products from station to station, as well as be a like-for-like product to avoid needing any recertifications.



Solution

The Applied Robotics' team of engineers began providing the first of many, like-for-like grippers with a minimum cycle range of 6 million. This dependable pneumatic gripper yields consistent results with little to no downtime or need for repair.



Benefits

The pneumatic grippers have been successfully and safely operating in a multitude of environments for over 6 years, with little to no maintenance or repairs.

With grippers that no longer need to be constantly repaired or replaced downtime has significantly decreased, product throughput improved by 80% as soon as implementation was completed, and delivery cycle time has shortened.

This dependable pneumatic gripper yields consistent results and has even reduced the reject rate from 39.5% to 0.5%.



"From start to finish the project moved smoothly through the presented issues, testing, and finally implementation. All efforts were put forth to reach the ultimate goal of a successful solution."

-Anonymous

