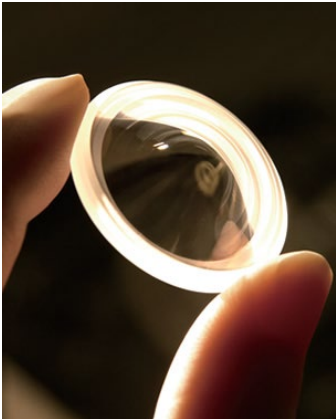


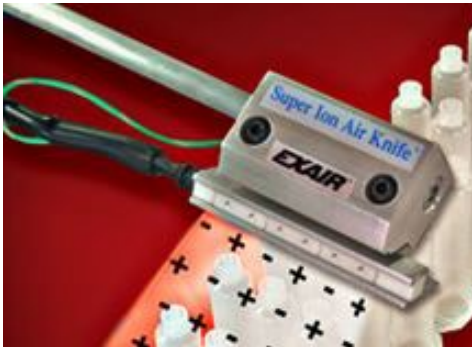


**APPLICATION GOAL:** To improve reliability of inline vision inspection system by incorporating an automated ionized air blow off system.



**BEFORE EXAIR:** An eyeglass lens manufacturer receives raw product that is to be processed into their finished product. These incoming parts are placed by hand onto a conveyor, where they are passed through an automated vision inspection system. The presence of any dust and/or flash on these pieces results in a failure-to-read by the automated system. They had no positive means of dust removal in place, and their failure-to-read rate was approximately 20%.

After discussing the application, we recommended that they install an automated ionized air blow off, to be activated when the operator passes the parts through. EXAIR supplied (2) 3" (76mm) [Super Ion Air Knives](#) with an [EFC Electronic Flow Control](#). The EFC dramatically reduces compressed air costs by turning off the air when no part is present.



**AFTER EXAIR:** The dual Super Ion Air Knife System removes most of the dust and flash from the incoming parts, and has decreased their failure-to-read rate to less than 5%. The EFC conserves a great amount of compressed air, as their need is for a series of short bursts, triggered by the presence of product (as sensed by the EFC's photoelectric sensor), versus a continuous flow. Based on these results, (3) additional Super Ion Air Knife & EFC Systems were purchased and installed on their other receiving lines.